

INTRODUCTION





Nello Corporation specializes in the Communications Support Infrastructure market. We have a strategy of providing innovative and cost effective products to an industry that relies on quality, service and price.

We have grown a tremendous amount in the past few years thanks to our dedicated team of highly skilled employees who listen and respond to the needs of our growing customer base. In order to support our customers we have increased our facility's size 6-fold and even more in capacity in just three short years! We are constantly making improvements at Nello in both manufacturing and distribution with the goal of being able to supply what you need when you need it.

Nello Corporation now manufactures and distributes over 1,000 products ranging from a homeowner's satellite dish support bracket to a 1,500' tall broadcast communications tower. Some of our products are needed to support the antennas and coaxial cable used in wireless communication sites. Others are used in the consumer electronics market and in the utility industry as electrical transmission support components.

Our latest catalog speaks for itself. It contains an abundant array of products needed for your communication equipment support needs. Our products are designed by our in-house engineering team to the latest standards with engineering data available upon request. If you have any specific loading scenarios just ask, and one of our engineers would be more than happy to help.

I am proud to be a part of a team that is dedicated to the mission of becoming your single source for communication equipment support needs. At Nello we believe in what we do and, as always, we listen to our customer's needs.

Sincerely,

Dan Ianello, PE President

Toll Free: 800-80-NELLO Fax: 574-773-5840 sales@nelloinc.com www.nelloinc.com

ENGINEERING & TECHNOLOGY





Engineering, Design and Technology is at the core of what do at Nello. This obsession has allowed us to develop multitudes of products that span numerous markets. Our Engineering team has decades of experience and knowledge that is being leveraged using the latest software and technology to design products that bring greater value to our customers through increased functionality and reduced installation times. Some key Engineering and Technology points are:

- Structural designs to the latest edition of EIA/TIA-222
- Nonlinear finite element design software
- Expert zoning testimony
- Solid model assembly and fabrication drawings
- Voting Member of the Telecommunications Industry Association (EIA/TIA)
- Supporting Company Member of the American Welding Society (AWS)
- Key Personnel membership in:
 - National Society of Professional Engineers (NSPE)
 - American Society of Civil Engineers (ASCE)
 - American Welding Society (AWS)
 - Canadian Welding Bureau Certified (CWB)

Toll Free: 800-80-NELLO Fax: 574-773-5840 sales@nelloinc.com www.nelloinc.com

MANUFACTURING & DISTRIBUTION





Nello Corporation's manufacturing and distribution facilities are strategically located in northern Indiana to allow for abundant raw material resources including galvanizing. This location allows for shipping to most US locations within 1-3 days. Our 50,000 Sq Ft manufacturing plant contains all the equipment necessary to offer complete in-house manufacturing from start to finish on most product lines. Nello's team of skilled manufacturing employees have decades of industry experience and all of our welders are AWS qualified and are routinely tested by our AWS certified inspector. Our 40,000 Sq Ft distribution plant sits on 9 acres allowing for ample storage and expansion.

Toll Free: 800-80-NELLO Fax: 574-773-5840 sales@nelloinc.com www.nelloinc.com

Towers & Platforms



Self Supporting Towers Page 1



NSV Towers Page 9



NGX Towers Page 19



Fapered Poles Towers
Page 21



Equipment Platforms Page 23

Tower Applications



Sector Frames Page 24



Tower Pipe Frames Page 30



Pipe to Pipe Adapters Page 35



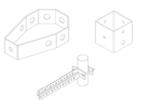
Side Arms Page 31



Cable Ladders Page 37



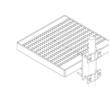
Pipe Mounts Page 33



T-Line Brackets Page 41



Cross Arm Pipe Mounts Page 34



Ice Shields Page 43

Monopole Applications

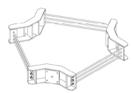
Stiff Arms



Platforms Page 44



T-Arms Page 48



Clamp Rings Page 51



Support Arms & Accessories Page 52



Chain Mounts Page 54

Waveguide Applications



Waveguide Bridge Kits Page 55



Waveguide Bridge Splices Page 57



Waveguide Trapeze Kits Page 58



Waveguide Bridge Page 59



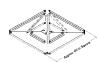
Waveguide Supports Page 59

NO E L LO COMPORATION

Roof Top Applications



Non-Pen. Flat Roof Mounts Page 61



JRM & BRM Mounts Page 62



Non-Pen. Roof Frames Page 63



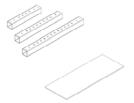
Wall Mount Kits Page 64



Coax Bridge Kits Page 68



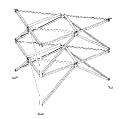
Coax Bridge Splices Page 68



Coax Bridge Sleepers/Mats Page 70



Pen. Tripod Mounts Page 71



Tri-Sector Mounts Page 73



Chimney Mounts Page 74

Coax Mounting Accessories



Nello Stackable Snap-In Page 76



Standard Snap-Ins Page 77



Butterfly Hangers Page 77



Hoist Grips Page 78



Stand-Off Adaptors Page 79



Angle Adaptors Page 80



Coax Support Blocks Page 81



Weatherproofing Page 82



Ground Kits Page 82



Clip On Ground Kits Page 82



Entry Panels Page 83



Boots Page 83



Boot Kits Page 84



Boot Inserts Page 85



Boot Plugs Page 85

Grounding Solutions



Buss Bar Kits Page 86



Buss Bar Accessories Page 89



Ground Wire Page 90



Ground Clamps Page 90



Ground Rods Page 90





EHS Cable Page 91



Thimbles, Clips & Shackles Page 92

Dead End Grips & Sleeves Page 96



Insulators Page 97



Guy Anchors Page 98

N Series Towers



15N/20N Series Page 100



25N Series Page 101



45N Series Page 122



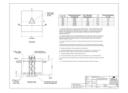
55N Series Page 143



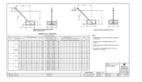
65N Series Page 160



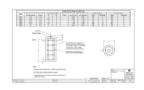
Self-Supporting Tower Area Page 166



Self-Supporting Tower Foundation Page 167



Guyed-Anchor Foundations Page 168



Guyed-Base Foundations Page 171

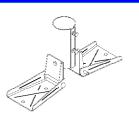


Foundation Notes Page 173

Telescoping Masts



Telescoping Masts Page 174



Ridge Mounts Page 174



Ground Mounts Page 174

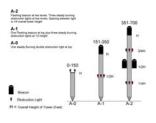


Screw-In Anchors Page 175



Mast Wire Page 175

Lighting



Red Light Kits Page 176



Medium Intensity Dual Page 177



Beacon & Accessories Page 178

Paint



FAA Orange/White Page 179



Beacon & Accessories Page 179

Multi-Universal Page 183

Fall Arrestor Page 181

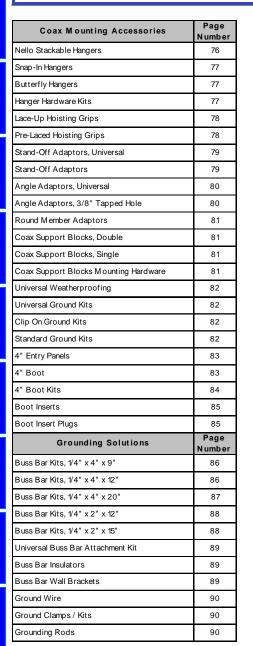
> J-Bolt Kit Page 185

Tube Page 187

Towers & Equipment Platforms	Page Number
NSX Towers	1
NSX Tower Sections	5
NSV Towers	9
NSV Tower Sections	13
NSV Tower Components	14
NGX Towers	18
NTP Towers	21
Equipment Platforms	23
Tower Applications	Page Number
KD Sector Frames	24
Universal KD Sector Frames	25
Sector Frames	26
Universal Sector Frames	27
V-Sector Frames	28
Universal V-Sector Frames	29
Tower Pipe Frames	30
Side Arms	31
Universal Side Arms	31
Hinged Arms	32
Stand-Off Arms	32
Universal Stand-Off Arms	32
Pipe Mounts	33
Universal Pipe Mounts	33
Cross-Arm Pipe Mounts	34
Stiff Arms	34
Pipe to Pipe Adapters	35
Crossover Plates	36
Large Leg/Angle Adapter	36
Universal Cable Ladder	37
Universal Welded Cable Ladder	38
Cable Ladder	39
Welded Cable Ladder	40
Universal Cable Ladder Attachments	40
Cluster T-Line Brackets	41
Mini Cluster Support Bracket	41
T-Line Brackets	42
Star T-Line Bracket	42
Ice Shields	43

Monopole Applications	Page Number
Low-Profile Platforms	44
Low-Profile Telescoping Platforms	45
Low-Profile Telescoping Platforms, Flanged	46
Low-Profile Telescoping Square Platforms	47
T-Arm Co-location Kits	48
Low-Profile Platform Support Rails	49
Low-Profile Platform Bridge Kit	49
T-Arm Components	50
Universal Clamp Rings	51
Universal Lightweight Clamp Rings	51
Support Arms for Clamp Rings	52
Work Platforms	52
Pipe Mount Adapter for Clamp Rings	53
Universal Round Member Support Brackets	53
Low-Profile Chain Mounts	54
Low-Profile Chain Mounts Waveguide Bridge Applications	Page Number
	Page
Waveguide Bridge Applications	Page Number
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10'	Page Number
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10'	Page Number 55
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20'	Page Number 55 55 56
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight	Page Number 55 55 56 57
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees	Page Number 55 55 56 57 57
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees	Page Number 55 56 56 57 57
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits	Page Number 55 55 56 57 57 57 57
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits Waveguide Bridge Tree Bracket Kits	Page Number 55 56 56 57 57 57 58
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits Waveguide Bridge Tree Bracket Kits Waveguide Bridge T-Line Bracket Kits	Page Number 55 55 56 57 57 57 57 58 58
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits Waveguide Bridge Tree Bracket Kits Waveguide Bridge T-Line Bracket Kits Grip Strut Waveguide Bridge Channel	Page Number 55 55 56 57 57 57 57 58 58 58
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits Waveguide Bridge Tree Bracket Kits Waveguide Bridge T-Line Bracket Kits Grip Strut Waveguide Bridge Channel Grated Waveguide Bridge Channel	Page Number 55 56 56 57 57 57 58 58 58 58
Waveguide Bridge Applications 2 Post Waveguide Bridge Kits, 10' 4 Post Waveguide Bridge Kits, 10' 2 Post Waveguide Bridge Kits, 20' Waveguide Bridge Splice, Straight Waveguide Bridge Splice, 45 Degrees Waveguide Bridge Splice, 90 Degrees Waveguide Bridge Trapeze Kits Waveguide Bridge Tree Bracket Kits Waveguide Bridge T-Line Bracket Kits Grip Strut Waveguide Bridge Channel Grated Waveguide Bridge Channel Waveguide Bridge Support Kits	Page Number 55 56 57 57 57 57 58 58 58 58 59

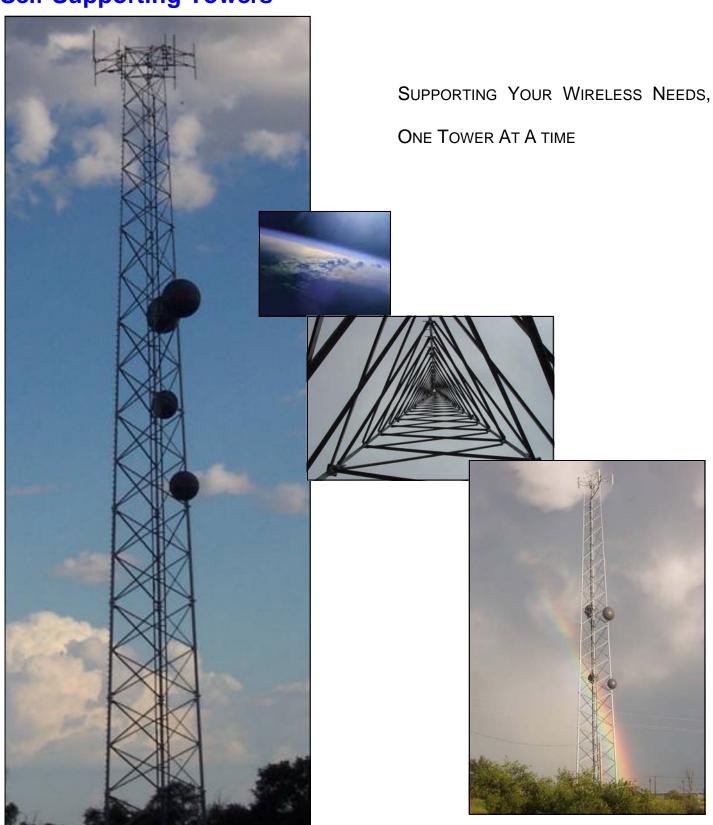
Roof-Top Applications	Page Number
Non-Penetrating Flat Roof Mounts	61
Non-Penetrating Flat Roof Mounts - Heavy Duty	62
Non-Penetrating Flat Roof Mount for 25N	63
Non-Penetrating Roof Frames	63
Double Wall Mount Kits, Standard	64
Double Wall Mount Kits, Wide	65
Wall Mounts	65
Wall Mount Brackets	66
Wall Mount Brackets, Heavy Duty	66
Gable/Eave Mount	67
Universal Wall Mount	67
Pole Wall Mount	67
Roof-Top Coax Bridge Kits	68
Coax Bridge Splice Kits, Straight	68
Coax Bridge Splice Kits, 0 - 45 degrees	69
Coax Bridge Splice Kits, 0 - 90 degrees	69
Coax Bridge Splice Kits, T-Splice	70
PVC Sleepers	70
Rubber Mats	70
Penetrating Tripod Mounts	71
Penetrating Trimast Mounts	71
Heavy Duty Penetrating Tripod Mount	72
Pitch Pad Kit	72
Penetrating Saw Horse Mount	73
Tri-Sector Mount	73
Square Chimney Mount	74
Round Chimney Mount	74
Wall Anchor	75
Light Duty Chimney Mount	75



Guy Cable & Materials	Page Number
EHS Cable	91
EHS Cable, Rolls	91
Thimbles	92
Cable Clips	92
Shackles	93
Turnbuckle (Jaw-Jaw)	94
Turnbuckle (Jaw-Eye)	94
Turnbuckle (Eye-Eye)	95
Dead-End Grips	96
End Sleeve	96
Porcelain Guy Wire Insulators	97
Base Insulators	97
Guy Anchor Kits	98
Guy Anchors	98
Anchor Accessories	99
N Series	Page Number
15N / 20N Series	100
25N Series	101
25N Section	103
25N Top Sections	103
25N Bases	105
25N Accessories	106
25N Guyed Towers	110
45N Series	122
45N Sections	123
45N Top Sections	124
45N Bases	125
45N Accessories	126
45N Guyed Towers	129
55N Series	143
55N Section	144
55N Bases	144
55N Accessorries	145
55N Guyed Towers	147
65N Series	160
65N Section	161
65N Bases	162
65N Accessories	163
N-Series Self Supporting Capacity Chart	166
N-Series Self Supporting Foundation Chart	167
N-Series Guyed Anchor Foundation Chart	168
N-Series Guyed Base Foundation Chart	171
N-Series Guyed Foundation Notes	173

Telescoping Masts	Page
	Number
Telescoping Masts	174
Mast Accessories	175
Lighting	Page Number
Red Light Kits	176
Medium Intensity Dual Light Kits	177
Beacons and Accessories	178
Paint	Page Number
Tower Paint	179
Cold Galvanizing Spray	179
Dissipaters	Page Number
Gila Stat Dissipaters	180
Safety Climbs	Page Number
Safety Climbs, Self Supporting and Pole Towers	181
Safety Climbs, Guyed Towers	181
Safety Climb Mounting Brackets	181
Safety Climb Accessories	181
Templates	Page Number
NSX Tower Universal Templates	182
NSX Tower Multi-Universal Templates	183
Hardware	Page
	Number
Bolts	Number 184
Bolts Nuts	
	184
Nuts	184 184
Nuts Lock Washers	184 184 184
Nuts Lock Washers Flat Washers	184 184 184 185
Nuts Lock Washers Flat Washers Threaded Rod	184 184 184 185
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit	184 184 184 185 185
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit J-Bolt Kit	184 184 184 185 185 185 186 Page
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit J-Bolt Kit Angle, Pipe & Tube	184 184 185 185 185 186 Page Number
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit J-Bolt Kit Angle, Pipe & Tube Angle	184 184 184 185 185 185 186 Page Number 187
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit J-Bolt Kit Angle, Pipe & Tube Angle Pipe	184 184 185 185 185 186 Page Number 187
Nuts Lock Washers Flat Washers Threaded Rod U-Bolt Kit J-Bolt Kit Angle, Pipe & Tube Angle Pipe 1-1/4" Tubing, Swaged	184 184 184 185 185 185 186 Page Number 187 188









WORLDWIDE MULTIPLE USES

The NELLO NSX series of Self-Supporting Towers provides a very efficient and cost effective way of supporting a vast array of appurtenances. Some NSX Towers are in use for cellular, microwave, PCS, weather stations and surveillance camera mounts.

ENGINEERING AND MANUFACTURING

NSX Towers are designed by professional engineers that have years of industry experience to make sure they meet the latest codes and design standards. NSX Towers are also manufactured in a highly accurate environment resulting in reduced installation time. As with all Nello Towers, NSX Towers are Hot Dip Galvanized after fabrication to prevent corrosion and assure a long service life.





NSX Accessories

NSX Towers are available with a multitude of engineered accessories including:

- Platforms
- Antenna Mounts
- Ladders
- Waveguide Supports
- Lighting
- Ice Shields
- Tower Painting
- Safety Climb Devices

NSX CATALOG TOWERS

NSX Catalog Towers have been pre-engineered for a variety of heights and windspeeds. These towers have been standardized to reduce lead times on engineering drawings and foundation designs as well as anchor and tower steel. The perfect choice for tower needs in a hurry!

NSX TOWER FEATURES

- Tubular or solid steel leg design
- Applications to 300 feet
- Custom and pre-engineered designs
- All parts Hot Dip Galvanized
- Mates to N-Series for light applications
- Mates to NSK for greater heights



NSX Catalog Tower Pricing

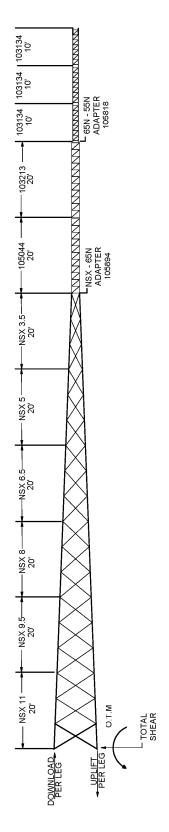
		70 MPH Basic Wind Speed, No Ice	9
Height, ft.	Part Number	Description	Weight (Lbs)
40	105584	65N x 40' - 70 MPH - No Ice - Catalog Tow er	570.0
50	105585	65N x 50' - 70 MPH - No Ice - Catalog Tow er	670.0
60	105586	65N x 60' - 70 MPH - No Ice - Catalog Tower	1000.0
70	105587	65N x 70' - 70 MPH - No Ice - Catalog Tow er	1100.0
80	105588	NSX 3.5' x 80' - 70 MPH - No Ice - Catalog Tow er	1680.0
90	105589	NSX 3.5' x 90' - 70 MPH - No Ice - Catalog Tower	1780.0
100	105590	NSX 5.0' x 100' - 70 MPH - No Ice - Catalog Tow er	2370.0
110	105591	NSX 5.0' x 110' - 70 MPH - No Ice - Catalog Tow er	2470.0
120	105592	NSX 6.5' x 120' - 70 MPH - No Ice - Catalog Tow er	3200.0
130	105593	NSX 6.5' x 130' - 70 MPH - No Ice - Catalog Tow er	3300.0
140	105594	NSX 8.0' x 140' - 70 MPH - No Ice - Catalog Tow er	4060.0
150	105595	NSX 8.0' x 150' - 70 MPH - No Ice - Catalog Tow er	4160.0
160	105596	NSX 9.5' x 160' - 70 MPH - No Ice - Catalog Tow er	5300.0
170	105597	NSX 9.5' x 170' - 70 MPH - No Ice - Catalog Tow er	5400.0
180	105598	NSX 11.0' x 180' - 70 MPH - No Ice - Catalog Tow er	6660.0
190	105599	NSX 11.0' x 190' - 70 MPH - No Ice - Catalog Tow er	6760.0

		90 MPH Basic Wind Speed, No Ice	•
Height, ft.	Part Number	Weight (Lbs)	
40	105600	65N x 40' - 90 MPH - No Ice - Catalog Tow er	800.0
50	105601	65N x 50' - 90 MPH - No Ice - Catalog Tow er	990.0
60	105602	NSX 3.5' x 60' - 90 MPH - No Ice - Catalog Tow er	1480.0
70	105603	NSX 3.5' x 70' - 90 MPH - No Ice - Catalog Tow er	1670.0
80	105604	NSX 5.0' x 80' - 90 MPH - No Ice - Catalog Tow er	2170.0
90	105605	NSX 5.0' x 90' - 90 MPH - No Ice - Catalog Tow er	2360.0
100	105606	NSX 6.5' x 100' - 90 MPH - No Ice - Catalog Tow er	3000.0
110	105607	NSX 6.5' x 110' - 90 MPH - No Ice - Catalog Tow er	3190.0
120	105608	NSX 8.0' x 120' - 90 MPH - No Ice - Catalog Tow er	3860.0
130	105609	NSX 8.0' x 130' - 90 MPH - No Ice - Catalog Tow er	4050.0
140	105610	NSX 9.5' x 140' - 90 MPH - No Ice - Catalog Tow er	5100.0
150	105611	NSX 9.5' x 150' - 90 MPH - No Ice - Catalog Tow er	5290.0
160	105612	NSX 11.0' x 160' - 90 MPH - No Ice - Catalog Tow er	6460.0
170	105613	NSX 11.0' x 170' - 90 MPH - No Ice - Catalog Tow er	6650.0
180	105614	NSX 12.5' x 180' - 90 MPH - No Ice - Catalog Tow er	8050.0
190	105615	NSX 12.5' x 190' - 90 MPH - No Ice - Catalog Tow er	8240.0

Notes

1. All towers are galvanized after fabrication and designed for the basic wind speeds shown above, no ice. See applicable drawings for allowable antenna loads and appropriate parts lists for items included in the above tower prices.





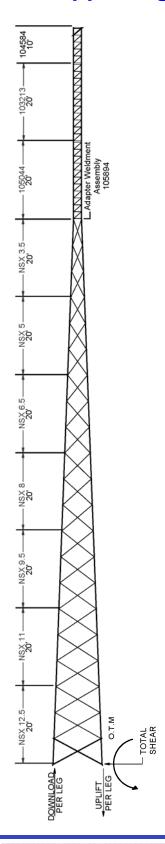
NSX Catalog Tower Sections, 70 MPH - No Ice

Part #	Description	Weight (Lbs)
103134	55N Section Assembly (10' Long)	92.6
105818	65N to 55N Transition Assembly	110.0
103213	65N 20' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	341.5
105044	65N 20' Heavy Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	396.3
105894	NSX-2 Transition to a 65N Section (Assembly)	46.0
NSX3.5	NSX3.5 Assembly, 3 Panel, P2.5x.203 leg, 1-1/2" x 1/8" Diagonals	635.0
NSX5	NSX5.0 Assembly, 3 Panel, P2.5x.203 leg, 1-1/2" x 1/8" Diagonals	648.0
NSX6.5	NSX6.5 Assembly, 3 Panel, P3x.216 leg, 1-1/2" x 1/8" Diagonals	776.0
NSX8	NSX8.0 Assembly, 3 Panel, P3x.216 leg, 1-1/2" x 1/8" Diagonals	799.0
NSX9.5	NSX9.5 Assembly, 3 Panel, P3x.3 leg, 1-3/4" x 3/16" Diagonals	1089.0
NSX11	NSX11.0 Assembly, 3 Panel, P3x.3 leg, 2" x 3/16" Diagonals	1261.0
105822	65N Anchor Steel Assembly - 5/8" Anchor Bolts	76.0
104734	NSX Tower Anchor Steel Assembly (1-1/2 - 3" Legs - 3/4" x 48" A687) - Includes 6 Embedment Plates	99.4

Notes:

- 1. Sections include hardware for connecting to section below except for the NSX12.5.
- 2. NSX sections include step bolt hardware for one tower leg.
- 3. NSX sections include all hardware and spacers for connecting diagonal bracing.
- 4. Weights are approximations. Weights should be field verified prior to installation.





NSX Catalog Tower Sections, 90 MPH - No Ice

Part #	Description	Weight (Lbs)
103134	55N Section Assembly (10' Long)	92.6
105818	65N to 55N Transition Assembly	110.0
103213	65N 20' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	341.5
105044	65N 20' Heavy Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	396.3
105894	NSX-2 Transition to a 65N Section (Assembly)	46.0
NSX3.5	NSX3.5 Assembly, 3 Panel, P2.5x.203 leg, 1-1/2" x 1/8" Diagonals	635.0
NSX5	NSX5.0 Assembly, 3 Panel, P2.5x.203 leg, 1-1/2" x 1/8" Diagonals	648.0
NSX6.5	NSX6.5 Assembly, 3 Panel, P3x.216 leg, 1-1/2" x 1/8" Diagonals	776.0
NSX8	NSX8.0 Assembly, 3 Panel, P3x.216 leg, 1-1/2" x 1/8" Diagonals	799.0
NSX9.5	NSX9.5 Assembly, 3 Panel, P3x.3 leg, 1-3/4" x 3/16" Diagonals	1089.0
NSX11	NSX11.0 Assembly, 3 Panel, P3x.3 leg, 2" x 3/16" Diagonals	1261.0
105822	65N Anchor Steel Assembly - 5/8" Anchor Bolts	76.0
104734	NSX Tow er Anchor Steel Assembly (1-1/2 - 3" Legs - 3/4" x 48" A687) - Includes 6 Embedment Plates	99.4

Notes:

- 1. Sections include hardware for connecting to section below except for the NSX12.5.
- 2. NSX sections include step bolt hardware for one tower leg.
- 3. NSX sections include all hardware and spacers for connecting diagonal bracing.
- 4. Weights are approximations. Weights should be field verified prior to installation.



Nello Corporation

1301 Stahly Dr. Nappanee, IN 46550 sales@nelloinc.com 574-773-5840 FAX www.nelloinc.com 1-800-80-NELLO

ç		
<u>ပ</u>		
$\overline{}$		
¥		
_		
÷	•	
_		
별		
2		
70 MPH, I		
$\bar{}$		
'n		
~		
Q		
ج		
಼೦		
X Towers -		
×		
ŝ		
XSN		
Ξ		
ŏ)	
$\stackrel{\circ}{=}$		
ū		
푾		
Cataloc		
_		
_0		
7		
ž		
_		
		п
		•

Ш

Z

_	_	_	_	_		_	_	_	_	_	_			_	_	_	
	OTM (ff-lb)	25,200	35,200	49,900	61,400	82,400	95,000	124,100	138,900	178,800	197,400	251,000	271,500	341,300	366,600	456,400	480,600
Base Reactions	Total Shear (Ib)	1,100	1,200	1,300	1,400	1,800	1,800	2,300	2,400	2,900	3,000	3,600	3,700	4,500	4,600	5,500	5,600
Base R	Uplift (lb)	14,100	19,700	28,100	34,600	26,400	30,600	27,500	30,900	30,000	33,300	33,900	36,800	38,300	41,300	43,700	46,200
	Download (Ib)	14,800	20,500	29,000	35,600	27,800	32,100	29,500	32,900	32,800	36,200	37,500	40,500	43,100	46,200	900'09	52,500
cted Area (sq ft)	30' Below Top	24.0	22.0	22.0	20.0	20.0	18.0	18.0	17.0	17.0	16.0	16.0	15.0	15.0	15.0	15.0	14.0
Allowable Projected Area (sq ft)	Tower Top	20.0	18.0	18.0	16.0	16.0	14.0	14.0	12.0	12.0	11.0	11.0	10.0	10.0	0.6	0.6	8.0
pread	Base	2.0'	2.0'	2.0'	2.0′	3.5	3.5	5.0'	5.0'	6.5	6.5	8.0'	8.0'	9.5	9.5	11.0'	11.0'
Face Spread	Top	17"	17	17"	17.	17"	17"	17"	17"	17	17	17	17"	17"	17"	17"	17"
Part	Number	105584	105585	105586	105587	105588	105589	105590	105591	105592	105593	105594	105595	105596	105597	105598	105599
Tower	Height (ft)	40,	20,	,09	,02	80,	,06	100	110	120'	130'	140'	150'	160'	170,	180'	190'

ŝ
te
0
Ν

- "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.
- The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be
 - found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 2. Antennas and mounts shall be symmetrically placed about the center of the tower
- Design allows for one 7/8" transmission line to the top and two 7/8" transmission lines to 30" below the top, one per tower face for a total of three
- Tower erection shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. ω 4 ω ω \sim ω ω
 - Do not install or dismantle towers within falling distance of electrical and telephone lines.
 - installation shall conform to local, state, and federal requirements for construction marking and lighting. Field connections shall be bolted. No field welds shall be allowed.

 - Exposed structural steel is hot-dip galvanized per ASTM A123.
- Tolerance on tower steel height is plus 1% or minus 12%

ų.
-222
Υ.
VEIA-
Ų
۷
Ĕ
8
NS
₹
- 1
with
e l
21
<u>a</u>
일
-81
စ္က
~
.⊑
structure in accordance
٦
ᅗ
21
ᇙ
the
7
o
₽
=
the life
=
٦öl
ove.
ᆔ
erformed
Εl
.ō I
둤
മ
ωl
þe
ā
S
ection
ijI
ပ္က၂
ച
ည္
.≒
핃
ਲ
nance
읟
ē
듄
ž
- हा
Mainter
12.
_

		8/26/2004	8/28/2004 NSX Catalog Towers -	3
	KED	rouwrucr	70 MPH No Ice	NELLO
	RCH RCH	12/2 1/2004		MOITVOODOO
	MFG			NOT DESCRIPTION
				72377 Airline Dr.
	APPROVED			Nappanee, IN 46550
	DDA	1/25/2005		Bus: (574)773-4827
- BOILON THORAGOO	WEIGHT			Fax: (574)773-5840
This drawing is the property of			ON OMG	REV
Nello Inc. It is not to be reproduced,			106345	2
copied or traced in whole or in part without our written consent.			PRJNO 543	SHEET 1 OF 1



Vello Corporation 1301 Stahly Dr.

Nappanee, IN 46550 sales@nelloinc.com 574-773-5840 FAX 1-800-80-NELLO

www.nelloinc.com

Nello Catalog NSX Towers - 90 MPH, No Ice

0

Ш

Z

	OTM (ft-lb)	44,100	63,500	87,200	114,100	148,600	177,600	224,000	258,200	326,000	363,000	454,400	500,900	620,700	672,400	832,900	890,500
Base Reactions	Total Shear (lb)	2,000	2,100	2,600	2,800	3,400	3,600	4,300	4,600	5,400	5,700	6,800	7,000	8,400	8,600	10,400	10,600
Base Re	Uplift (lb)	24,800	35,800	28,000	36,800	33,000	39,600	37,700	43,700	44,100	49,400	51,100	56,700	59,600	65,000	009'69	74,900
	Download (lb)	25,600	36,700	29,400	38,300	35,100	41,900	40,800	46,900	48,300	53,700	56,800	62,500	67,100	72,600	79,400	84,700
cted Area (sq ft)	30' Below Top	24.0	19.0	21.0	21.0	19.0	17.0	16.0	15.0	14.0	14.0	12.0	12.0	10.0	10.0	0.6	9.0
Allowable Projected Area (sq ft)	Tower Top	20:0	20.0	17.0	17.0	15.0	15.0	12.0	12.0	10.0	9.0	8.0	8.0	7.0	7.0	0.9	0.9
pread	Base	2.0'	2.0	3.5	3.5	5.0	5.0'	6.5	6.5	8.0'	8.0'	9.5	9.5	11.0′	11.0'	12.5'	12.5'
Face Spread	Top	2.0'	2.0'	2.0	2.0	2.0'	2.0'	2.0'	2.0	2.0'	2.0'	2.0'	2.0'	2.0'	2.0	2.0'	2.0'
Part	Number	105600	105601	105602	105603	105604	105605	105606	105607	105608	105609	105610	105611	105612	105613	105614	105615
Tower	Height (ft)	40,	50,	,09	,0,	,08	,06	100,	110	120'	130	140	150'	160'	170	180'	190'

Notes:	

- Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.
- The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be Areas for flat member antennas can be found by dividing by 2. found by dividing by 1.2.

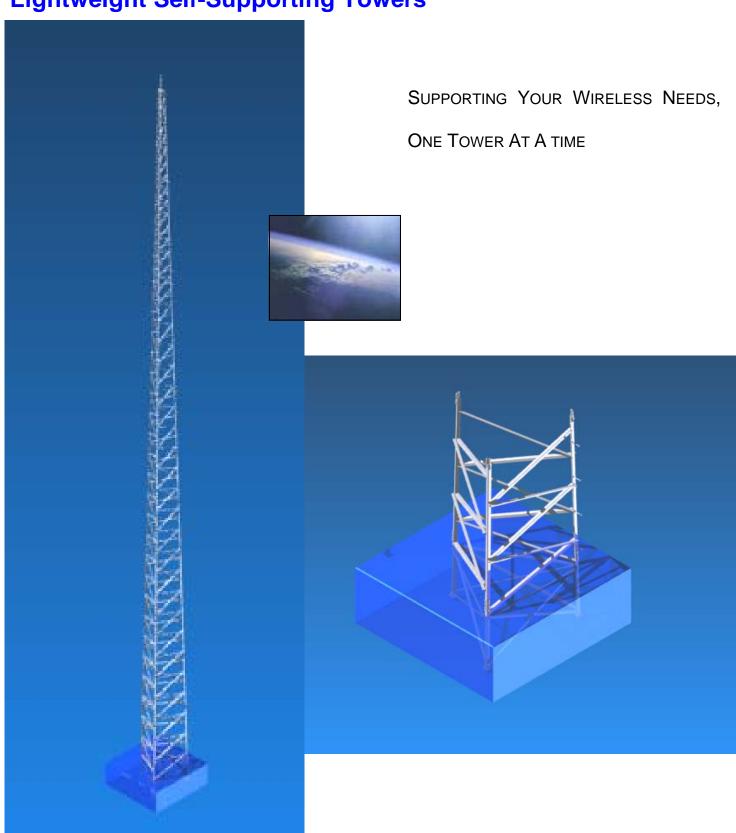
- Design allows for one 7/8" transmission line to the top and two 7/8" transmission lines to 30 below the top, one per tower face for a total of three Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Tower erection shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes
 - Do not install or dismantle towers within falling distance of electrical and telephone lines.
- Installation shall conform to local, state, and federal requirements for construction marking and lighting.
 - Field connections shall be bolted. No field welds shall be allowed.
- Exposed structural steel is hot-dip galvanized per ASTM A123.

Tolerance on tower steel height is plus 1% or minus 12%.

Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F

	ZCH ZCH	12/20/2004	12/20/2004 NSX Catalog Towers -	3
	KED	***********	90 MPH No Ice	NELLO
	RCH	12/21/2004		CORPORATION
	MFG			72377 Airline Dr.
	APPROVED			Nappanee, IN 46550
	DDA	1/25/2005		Bus: (574)773-4827
SOLD NOTICE	WEIGHT			Fax: (574)773-5840
This drawing is the property of			ON OMG	REV
Nello Inc. It is not to be reproduced,			106344	7
copied or traced in whole or in part without our written consent.			PRJNO 543	SHEET 1 OF 1









WORLDWIDE MULTIPLE USES

The NELLO NSV series of self supporting towers provides a very efficient and cost effective way of supporting a vast array of lightweight appurtenances. NSV's lightweight design is a perfect fit for wireless internet and two-way applications.

ENGINEERING AND MANUFACTURING

NSV Towers are designed by professional engineers that have years of industry experience to make sure they meet the latest codes and design standards. As with all Nello Towers, NSV Towers are Hot Dip Galvanized after fabrication to prevent corrosion and assure a long service life.

NSV Accessories

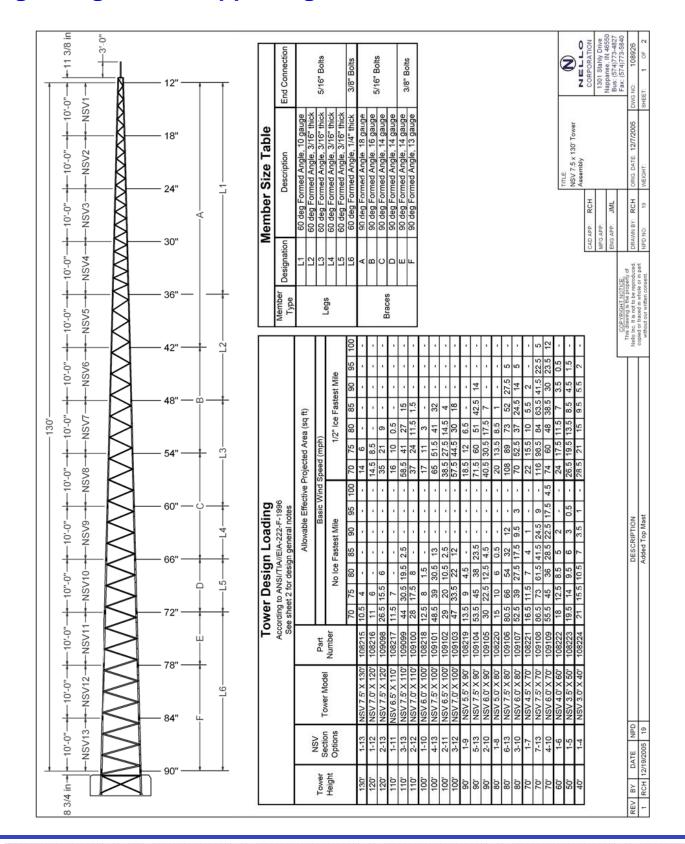
NSV Towers are available with a multitude of engineered accessories including:

- Antenna Mounts
- Ice Shields
- Tower Painting
- Climbing Pegs
- Safety Climb Devices

NSV Tower Features

- Maximum section length of 10' for easy transport
- Complete unassembled tower in a single boxed crate
- Sections may be purchased assembled
- Applications to 130 feet
- Custom and catalog designs
- All parts Hot Dip Galvanized

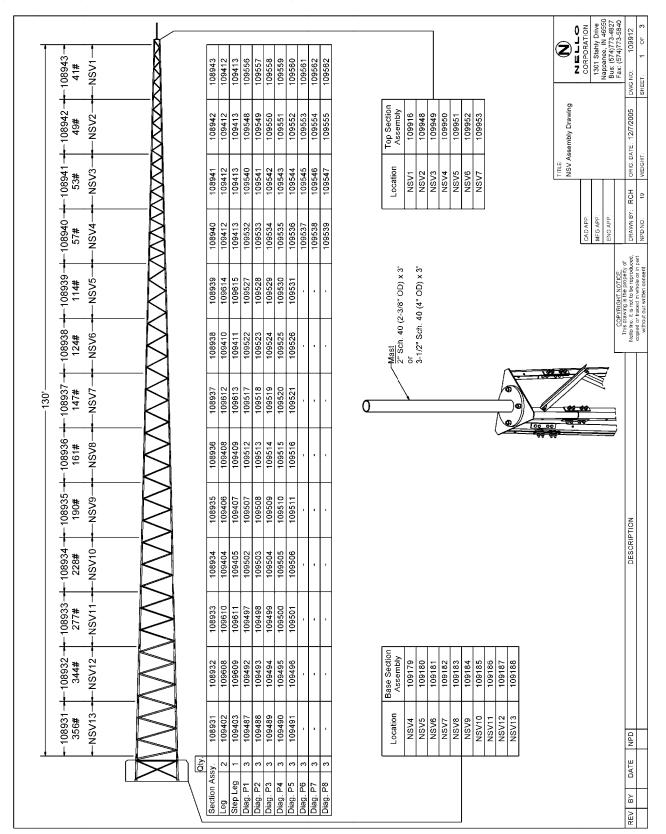




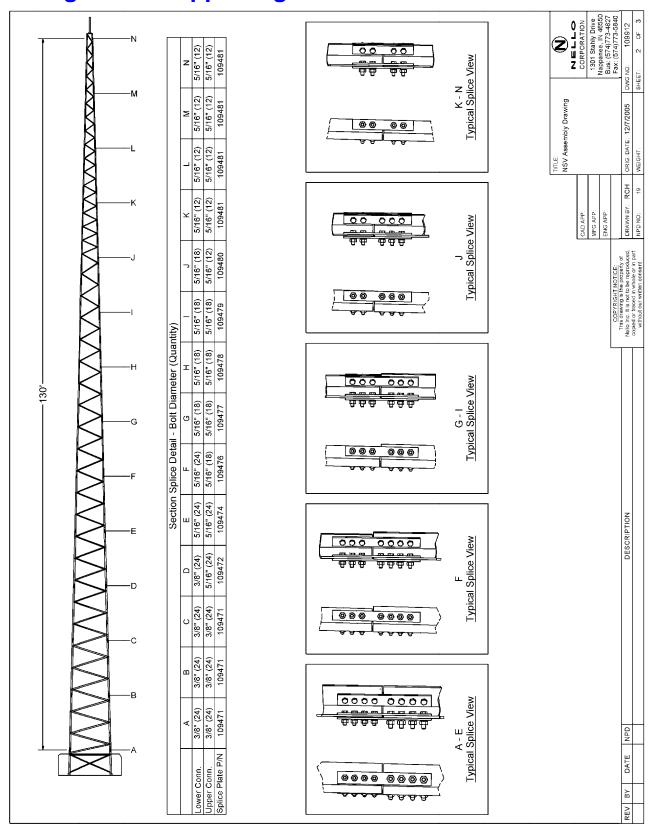


1. Nello Corporation designs conform to ANSI/TIA/EIA-222-F. "Structural Standards for Steel		
Antenna Towers and Antenna Supporting Structures," for the basic wind speeds indicated without ice and for ½ inch radial ice. When accompanied by ice, wind pressures are reduced 25%. The specific design loading criteria for a site must be verified by others prior to installation.		
Antennas and mounts are assumed to be symmetrically mounted at or below the top of the tower. Design assumes the weight of antennas and mounts does not exceed 300 pounds. Local stresses due to mounting arrangement have not been considered and must be investigated by others on a site by site basis.		
Design assumes maximum top mast load is limited to 5 square feet effective projective area and 100 pounds of weight. All other loads are assumed to be mounted below the top mast.		
Design assumes one ½ inch transmission line per tower face.		
5. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Design assumes competent and qualified personnel will erect the tower.		
6. Tower and foundation installation shall be in accordance with ANSI/TIA/EIA-222-F.		
Field connections shall be bolted. No field welds shall be allowed.		
Structural bolts shall conform to SAE J429 Grade 5.		
 Structural steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F. 		
 All high strength bolts are to be tightened to a "snug tight" condition as defined in the November 13, 1985, AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts." 		
 Purchaser shall verify the installation is in conformance with local, state and federal requirements for construction marking and lighting. 		
12. Tolerance on tower steel height is equal to plus 1% or minus $\%$.		
13. Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.		
14. Material specifications: 60 degree Angle Legs – ASTM A572 Gr. 50; 60 degree Angle Legs which are 10 ga ASTM A1011 Gr. 30; 90 degree Angle Diagonals - ASTM A36.		
	CAD APP. RCH	NSV 7 5 x 130° Tower Assembly CORPORATION 1301 Stable Drive
88	-	
DESCRIPTION Net on Net	Nello Inc. It is not to be reproduced. ORAWN BY: RCH copied or traced in whole or in part	ORIG. DATE: 12/7/2005 DWG NO: 108926









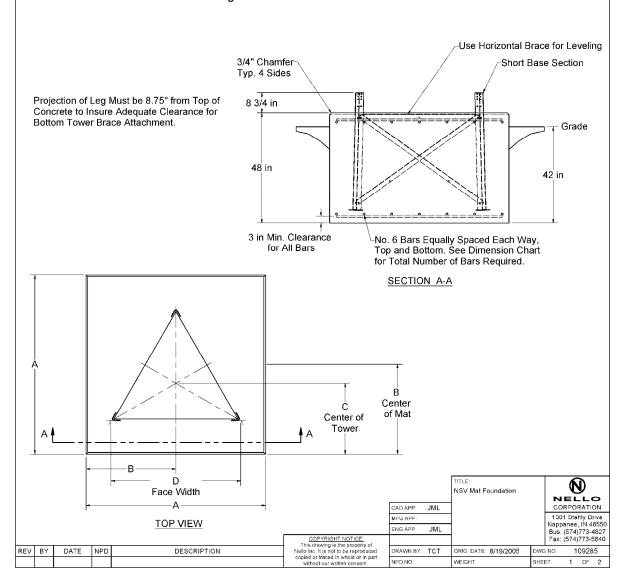


	Short Base P/N	109188	109188	109187	109188	109187	109186	109188	109186	109187	109185	109188	109185	109184	109188	109185	109183	109188	109185	109182	109181	109180	109179
	Top Plate Assembly P/N	109916	109948	108216	109949	109948	109916	109950	109948	109949	109916	108951	109948	109916	109952	109949	109916	109953	109950	109916	109916	109916	109916
	NSV13	-	1		1			-				1			1			1					
	NSV12	1	1	1	1	1		1		1		1			1			1					
	NSV11	-	-	-	-	1	-	1	-	-		1			1			1					
	NSV10	-	-	-	-	1	-	-	-	-	1	1	1		1	1		1	-				
	NSV9	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-		-	-				
	NSV8	-	-	-	-	1	-	-	-	-	1	1	1	1	1	-	-	1	-				
r _S	NSV7	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	1	-	-			
ERIA	NSV6	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-		-	-	1		
OF MATERIALS	NSV5	-	-	-	-	1	-	-	-	-	1	1	1	1		-	-		-	-	1	-	
OFI	NSV4	-	-	-	-	-	-	-	-	-	1		1	-		-	-		-	-	1	-	1
BILL	NSV3	-	-	-	-	1	-		-	-	1		-	1		-	-			-	1	-	1
	NSV2	-	-	-		-	-		-		1		1	1			-			-	1	-	1
	NSV1	-		-			-				-			1			-			-	1	-	-
	Total Weight Lbs.	2379 lbs	2345 lbs	2016 lbs	2317 lbs	1982 lbs	1653 lbs	2299 lbs	1619 lbs	1954 lbs	1349 lbs	2301 lbs	1315 lbs	1102 lbs	2258 lbs	1287 lbs	sql 868	2194 lbs	1269 lbs	730 lbs	571 lbs	440 lbs	293 lbs
	Tower Part Number	108215	109098	108216	109099	109100	108217	109101	109102	109103	108218	109104	109105	108219	109106	109107	108220	109108	109109	108221	108222	108223	108224
	NSV Section Options	1-13	2-13	1-12	3-13	2-12	1-11	4-13	2-11	3-12	1-10	5-13	2-10	1-9	6-13	3-10	1-8	7-13	4-10	1-7	1-6	1-5	1-4
	Tower Height	130'	50	021		110,	1		Š	0			,06			80,			.02		.09	50'	40,



				NS	SV FOUND	DATION C	HART					
Aggambly		Bill of M	/laterial				Dimens	ions			Maximur React	
Assembly Part Number	Leg P/N (Qty 3)	Horizontal Brace P/N (Qty 3)	Diagonal Brace P/N (Qty 6)	5/16" & 3/8" Hardware P/N (Qty 15)	А	В	С	D	Concrete Volume (Cu. Yds.)	Total #6 Bars Req.	Maximum Overturning Moment (lb- ft.)	Maximum Allowable Shear (lb.)
109179	109189	109199	109209	109397	7'-0"	3'-6"	3'-13/16"	3'-0"	7.3	36	77,000	2,000
109180	109190	109200	109210	109397	7'-6"	3'-9"	3'-2 15/16"	3'-6"	8.3	36	92,000	3,000
109181	109191	109201	109211	109397	8'-0"	4'-0"	3' 5 1/16"	4'-0"	9.5	40	111,000	3,500
109182	109192	109202	109212	109397	8'-6"	4'-3"	3'-7 3/16"	4'-6"	10.7	44	132,000	4,000
109183	109193	109203	109213	109397	9'-0"	4'-6"	3'-9 5/16"	5'-0"	12.0	44	155,000	4,500
109184	109194	109204	109214	109397	9'-6"	4'-9"	3'-11 1/2"	5'-6"	13.4	48	185,000	5,000
109185	109195	109205	109215	109397	10'-0"	5'-0"	4'-1 5/8"	6'-0"	14.8	48	215,000	5,500
109186	109196	109206	109216	109219	10'-6"	5'-3"	4'-3 3/4"	6'-6"	16.3	52	250,000	6,000
109187	109197	109207	109217	109219	11'-0"	5'-6"	4'-4 7/8"	7'-0"	17.9	52	285,000	6,500
109188	109198	109208	109218	109219	11'-6"	5'-9"	4'-8"	7'-6"	19.6	56	330,000	7,000

See Page 2 for Standard Foundation Notes.





Foundation Notes

- 1. Foundation design assumes normal soil conditions as defined by ANSI/EIA/TIA-222-F. Normal soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 psf and an allowable net horizontal pressure of 400 psf per lineal foot of depth to a maximum of 4000 psf.
- 2. A field inspection shall be performed in order to verify that the actual site soil parameters meet or exceed the assumed soil parameters and that the depth of standard foundations are adequate based on the frost penetration and groundwater depth. Local frost depth must be no deeper than the bottom of the base foundation.
- 3. Reinforcement shall be deformed and conform to the requirements of ASTM A615 Grade 60 unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise indicated.
- 4. Welding is prohibited on reinforcing steel and anchorage.
- 5. Structural backfill must be compacted in 12" loose lifts to a 97% of maximum dry density at optimum moisture content in accordance with ASTM D698. Backfill must be clean and free of organic and frozen soils and foreign materials.
- 6. Foundation designs assume level ground at tower site.
- 7. Loose material shall be removed from bottom of excavation prior to concrete placement.
- 8. Concrete cover from exposed surface of concrete to surface of reinforcement shall not be less than 3".
- 9. Concrete and reinforcement installation must conform to ACI 318, "Building Code Requirements for Structural Concrete."
- 10. Concrete shall develop a minimum compressive strength of 3000 psi in 28 days.
- 11. Concrete shall be placed on the same day that the excavation is made.

								TITLE: NSV Mat Foundation		NELLO
						CAD APP:	JML			CORPORATION
						MFG APP:				1301 Stahly Drive Nappanee, IN 46550
						ENG APP:	JML			Bus: (574)773-4827
					COPYRIGHT NOTICE: This drawing is the property of			1		Fax: (574)773-5840
REV	BY	DATE	NPD	DESCRIPTION	Nello Inc. It is not to be reproduced,	DRAWN BY:	TCT	ORIG. DATE: 8/19/2005	DWG	NO: 109285
					copied or traced in whole or in part without our written consent.	NPD NO:		WEIGHT:	SHEE	ET: 2 OF 2



Guyed Towers





Guyed Towers



WORLDWIDE MULTIPLE USES

The NELLO NGX series of Guyed Towers provides a very efficient and cost effective way of supporting a vast array of appurtenances. Some NGX Towers are in use for cellular, microwave, PCS and weather stations.

ENGINEERING AND MANUFACTURING

NGX Towers are designed by professional engineers that have years of industry experience to make sure they meet the latest codes and design standards. NGX Towers are also manufactured in a highly accurate environment resulting in reduced installation time. As with all Nello Towers, NGX Towers are Hot Dip Galvanized after fabrication to prevent corrosion and assure a long service life.



Guyed Towers



NGX Accessories

NGX Towers are available with a multitude of engineered accessories including:

- Platforms
- Antenna Mounts
- Torque Arms
- Waveguide Supports
- Lighting
- Ice Shields
- Tower Painting
- Safety Climb Devices

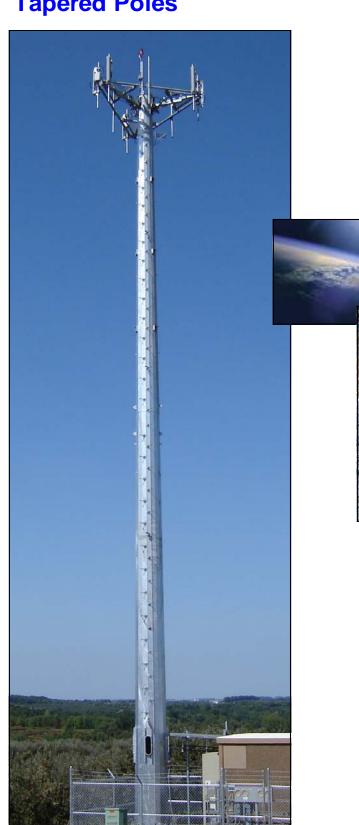
NGX Tower Features

- Tubular or solid steel leg design
- All-welded tower sections
- Applications to 800 feet
- Custom and pre-engineered designs
- All parts Hot Dip Galvanized
- Multiple tower face widths available





Tapered Poles



SUPPORTING YOUR WIRELESS NEEDS, ONE TOWER AT A TIME



Tapered Poles



WORLDWIDE MULTIPLE USES

The NELLO NTP series of Tapered Pole Towers provides a very efficient and cost effective way of supporting a vast array of appurtenances. Some NTP Towers are in use for cellular, microwave and wireless internet applications

ENGINEERING AND MANUFACTURING

NTP Towers are designed by professional engineers that have years of industry experience to make sure they meet the latest codes and design standards. As with all Nello Towers, NTP Towers are Hot Dip Galvanized after fabrication to prevent corrosion and assure a long service life.

NTP Accessories

NTP Towers are available with a multitude of engineered accessories including:

- Platforms
- Antenna Mounts
- Lighting
- Ice Shields
- Tower Painting
- Safety Climb Devices

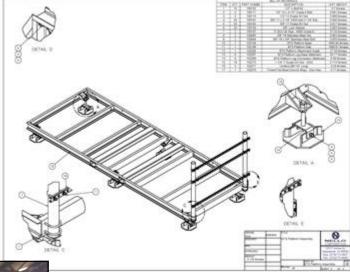
NTP Tower Features

- Tapered or straight shaft design
- Applications to 250 feet
- Custom designs
- · All parts Hot Dip Galvanized



Equipment Platforms

Nello Corporation is committed to custom fabrication. Our specialty in this arena is Equipment Platforms. Our talented staff of Designers, Engineers and Fabricators go to great lengths to ensure the highest levels of quality and workmanship. We pre-build every custom fabricated platform to guarantee assembly on the job site. We also provide detailed assembly drawings, structural analysis and delivery right to the job site.



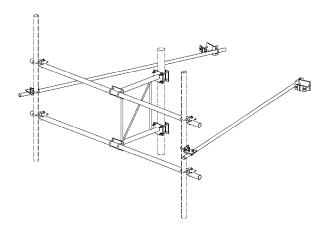


Tower Applications



KD Sector Frames

Material	Hot dip galv steel	Design:	Welded strut,
Included:	frame, clamps,		KD face.
	stiff arms,		Lightw eight
	available with or		Design.
	w ithout mounting		
	pipes.		
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg/angle adapter		OD - straight
			legs

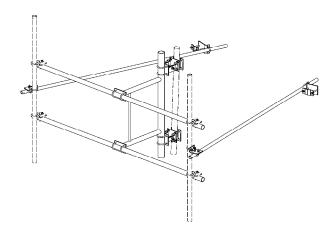


Part #	Description	Weight (Lbs)
KD Secto	r Frame, 10'-6" Wide	
101694	KD Sector Frame, 10'-6". Pipe mounts not included.	209.0
101695	KD Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	315.0
101696	KD Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	326.0
101697	KD Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	337.0
101698	KD Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	350.0
101699	KD Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included	364.0
101700	KD Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	379.0
KD Secto	r Frame, 12' Wide	
101701	KD Sector Frame, 12'. Pipe mounts not included.	220.0
101702	KD Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included.	326.0
101703	KD Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included.	337.0
101704	KD Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included.	348.0
101705	KD Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included.	361.0
101706	KD Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included.	375.0
101707	KD Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included.	390.0
KD Secto	r Frame, 15' Wide	
101708	KD Sector Frame, 15'. Pipe mounts not included.	242.0
101709	KD Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	348.0
101710	KD Sector Frame, 15'. Three 2-3/8" OD x 96" pipe mounts included.	359.0
101711	KD Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	370.0
101712	KD Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	383.0
101713	KD Sector Frame, 15'. Four 2-3/8" OD x 96" pipe mounts included	397.0
101714	KD Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	412.0

Tower Applications

Universal KD Sector Frames

Material	Hot dip galv steel	Design:	Taper/azimuth
Included:	frame, clamps,		adjusting.
	stiff arms,		Welded strut,
	available with or		KD face.
	w ithout mounting		Lightw eight
	pipes.		Design.
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg/angle adapter		OD



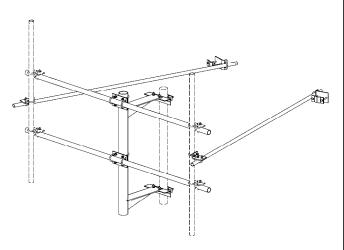
Part #	Description	Weight (Lbs)		
Universal KD Sector Frame, 10'-6" Wide				
101673	Universal KD Sector Frame, 10'-6". Pipe mounts not included.	260.0		
101674	Universal KD Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	366.0		
101675	Universal KD Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	377.0		
101676	Universal KD Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	388.0		
101677	Universal KD Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	401.0		
101678	Universal KD Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included	415.0		
101679	Universal KD Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	430.0		
Universal	KD Sector Frame, 12' Wide			
101680	Universal KD Sector Frame, 12'. Pipe mounts not included.	271.0		
101681	Universal KD Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included.	377.0		
101682	Universal KD Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included.	388.0		
101683	Universal KD Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included.	399.0		
101684	Universal KD Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included.	412.0		
101685	Universal KD Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included	426.0		
101686	Universal KD Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included.	441.0		
Universal	KD Sector Frame, 15' Wide			
101687	Universal KD Sector Frame, 15'. Pipe mounts not included.	293.0		
101688	Universal KD Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	399.0		
101689	Universal KD Sector Frame, 15'. Three 2-3/8" OD x 96" pipe mounts included.	410.0		
101690	Universal KD Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	421.0		
101691	Universal KD Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	434.0		
101692	Universal KD Sector Frame, 15'. Four 2-3/8" OD x 96" pipe mounts included	448.0		
101693	Universal KD Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	463.0		

Tower Applications



Sector Frames

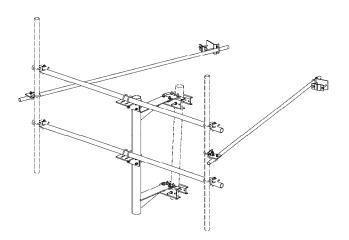
Material Included:	Hot dip galv steel frame, clamps, stiff arms, available with or w/o mounting pipes.	Design:	Welded strut with azimuth adjusting face.
Order Seperately:	Pipes and large leg/angle adapter	Mounts to:	1-1/4" to 4-1/2" OD - staight legs



Part #	Description	Weight (Lbs)			
Sector Frame, 10'-6" Wide					
109429	Sector Frame, 10'-6". Pipe mounts not included.	259.0			
109430	Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	364.0			
109431	Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	376.0			
109432	Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	388.0			
109433	Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	399.0			
109434	Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included.	415.0			
109435	Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	431.0			
Sector Frame, 12' Wide					
109436	Sector Frame, 12'. Pipe mounts not included.	270.0			
109437	Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included.	375.0			
109438	Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included.	387.0			
109439	Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included.	399.0			
109440	Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included.	410.0			
109441	Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included.	426.0			
109442	Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included.	442.0			
Sector Frame, 15' Wide					
109443	Sector Frame, 15'. Pipe mounts not included.	292.0			
109444	Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	397.0			
109445	Sector Frame, 15'. Three 2-3/8" OD x 96" pipe mounts included.	409.0			
109446	Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	421.0			
109447	Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	432.0			
109448	Sector Frame, 15'. Four 2-3/8" OD x 96" pipe mounts included.	448.0			
109449	Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	464.0			

Universal Sector Frames

Material	Hot dip galv steel	Design:	Taper and	
Included:	frame, clamps,		azimuth	
	stiff arms,		adjusting.	
	available with or		Double-pivot	
	w ithout mounting		w ith w elded	
	pipes.		strut.	
Order	Pipes	Mounts to:	1-1/2" to 8-1/2"	
Seperately:			OD or Angle	
			Leg	

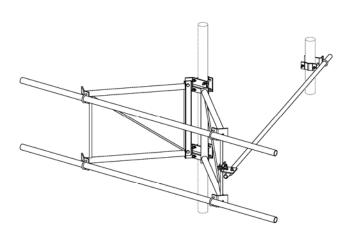


Part #	Description	Weight (Lbs)
Universal	Sector Frame, 10'-6" Wide	
109450	Universal Sector Frame, 10'-6". Pipe mounts not included.	272.0
109451	Universal Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	377.0
109452	Universal Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	389.0
109453	Universal Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	401.0
109454	Universal Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	412.0
109455	Universal Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included.	428.0
109456	Universal Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	444.0
Universa	Sector Frame, 12' Wide	
109457	Universal Sector Frame, 12'. Pipe mounts not included.	283.0
109458	Universal Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included.	388.0
109459	Universal Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included.	400.0
109460	Universal Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included.	412.0
109461	Universal Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included.	423.0
109462	Universal Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included.	439.0
109463	Universal Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included.	455.0
Universa	Sector Frame, 15' Wide	
109464	Universal Sector Frame, 15'. Pipe mounts not included.	305.0
109465	Universal Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	410.0
109466	Universal Sector Frame, 15'. Three 2-3/8" OD x 96" pipe mounts included.	422.0
109467	Universal Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	434.0
109468	Universal Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	445.0
109469	Universal Sector Frame, 15'. Four 2-3/8" OD x 96" pipe mounts included.	461.0
109470	Universal Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	477.0



V-Sector Frames

Material Included:	Hot dip galv steel frame, clamps, stiff arms, available w ith or w ithout mounting pipes.	Design:	Two welded strut design - extra stability
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg/angle adapter		OD - staight
			legs





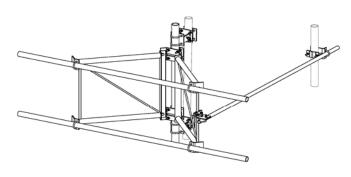
Part #	Description	Weight
V-Sector	Frame, 10'-6" Wide	(Lbs)
101749	V-Sector Frame, 10'-6". Pipe mounts not	255.4
101710	included.	200.1
101754	V-Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	361.0
101755	V-Sector Frame, 10'-6". Three 2-3/8" OD x 96"	372.0
	pipe mounts included. V-Sector Frame, 10'-6". Three 2-3/8" OD x	
101756	108" pipe mounts included.	383.0
101757	V-Sector Frame, 10'-6". Four 2-3/8" OD x 84"	396.2
101737	pipe mounts included.	330.2
101758	V-Sector Frame, 10'-6". Four 2-3/8" OD x 96"	410.0
	pipe mounts included.	
101759	V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	425.6
V-Sector	Frame, 12' Wide	
	V-Sector Frame, 12'. Pipe mounts not	
101760	included.	266.4
101765	V-Sector Frame, 12'. Three 2-3/8" OD x 84"	372.0
	pipe mounts included. V-Sector Frame, 12'. Three 2-3/8" OD x 96"	
101766	pipe mounts included.	383.0
101767	V-Sector Frame, 12'. Three 2-3/8" OD x 108"	394.0
101767	pipe mounts included.	394.0
101768	V-Sector Frame, 12'. Four 2-3/8" OD x 84"	407.2
	pipe mounts included.	
101769	V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included.	421.0
404770	V-Sector Frame, 12'. Four 2-3/8" OD x 108"	400.5
101770	pipe mounts included.	436.5
V-Sector	Frame, 15' Wide	
103855	V-Sector Frame, 15'. Pipe mounts not	288.4
	included. V-Sector Frame, 15'. Three 2-3/8" OD x 84"	
103856	pipe mounts included.	394.0
110272	V-Sector Frame, 15'. Three 2-3/8" OD x 96"	405.0
110272	pipe mounts included.	400.0
103857	V-Sector Frame, 15'. Three 2-3/8" OD x 108"	416.0
	pipe mounts included. V-Sector Frame, 15'. Four 2-3/8" OD x 84"	
103858	pipe mounts included.	429.2
110273	V-Sector Frame, 15'. Four 2-3/8" OD x 96"	443.0
110213	pipe mounts included.	773.0
103860	V-Sector Frame, 15'. Four 2-3/8" OD x 108"	458.5
	pipe mounts included.	



Seperately: leg/angle adapter

Ma	terial	Hot dip galv steel	Design:	Tw o w elded
Inc	luded:	frame, clamps,		strut design -
		stiff arms,		extra stability.
		available with or		Taper and
		w ithout mounting		azimuth
		pipes.		adjusting.
Or	der	Pipes and large	Mounts to:	1-1/4" to 4-1/2"

OD

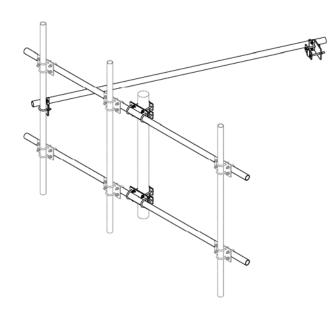


Part #	Description	Weight (Lbs)
Universal	V-Sector Frame, 10'-6" Wide	
101723	Universal V-Sector Frame, 10'-6". Pipe mounts not included.	334.0
101727	Universal V-Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	439.5
101728	Universal V-Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	451.0
101729	Universal V-Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	461.5
101730	Universal V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	474.7
101731	Universal V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included.	490.0
101732	Universal V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	504.0
Universal	V-Sector Frame, 12' Wide	
101733	Universal V-Sector Frame, 12'. Pipe mounts not included.	345.0
101738	Universal V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included.	450.4
101739	Universal V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included.	462.0
101740	Universal V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included.	472.4
101741	Universal V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included.	485.6
101742	Universal V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included.	501.0
101743	Universal V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included.	515.0
Universa	V-Sector Frame, 15' Wide	
103861	Universal V-Sector Frame, 15'. Pipe mounts not included.	367.0
103862	Universal V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	472.4
110274	Universal V-Sector Frame, 15'. Three 2-3/8" OD x 96" pipe mounts included.	484.0
103863	Universal V-Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	494.4
103864	Universal V-Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	507.6
110275	Universal V-Sector Frame, 15'. Four 2-3/8" OD x 96" pipe mounts included.	523.0
103865	Universal V-Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	536.9



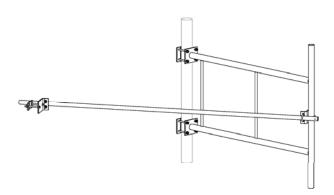
Tower Pipe Frames

Material	Hot dip galv steel	Design:	Versatile and
Included:	frame, clamps,		azimuth
	stiff arms,		adjusting.
	available with or		
	w ithout mounting		
	pipes.		
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg adapter		OD round
			member



Tower Pipe Frame, 10'-6" Wide Tow er Pipe Frame, 10'-6". Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 274.0 O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Fire 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe F	Part #	Description	Weight
Tow er Pipe Frame, 10'-6". Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 274.0 O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 103863 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12". Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 0.D. Round Member. Tow er Pipe Frame, 12". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15". Fipe mounts not included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member.	Tower Bi	ino Framo 10' 6" Wido	(Lbs)
103866 included Fits 1-1/4" to 4-1/2" O.D. Round Member.	Tower Pi	-	
Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x	103966		151.0
Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 103868 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103873 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	103000		131.0
103867			
O.D. Round Member. Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12' Wide Tow er Pipe Frame, 12' Nipe mounts not included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 285.0 O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 307.0 108" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 1087 pipe mounts included. Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included. Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Fipe mounts not included. Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included. Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	103867		274.0
Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103873 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Wide Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.	103007	1	214.0
103868 108" pipe mounts included. Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12' Wide Tow er Pipe Frame, 12' Nipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12' Nipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" 103873 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.			
1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tower Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103872 pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.	103868		291.0
Tower Pipe Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tower Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tower Pipe Frame, 12'. Wide Tower Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Three 2-3/8" OD x 103873 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tower Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.	103000	1	231.0
103869 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tower Pipe Frame, 12' Wide Tower Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103873 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.			
1/2" O.D. Round Member. Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103872 pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0	103869		315.0
Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x 103870 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 285.0 O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 103873 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" 0.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	103003	1	313.0
103870 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.			
Tower Pipe Frame, 12' Wide Tower Pipe Frame, 12' Nipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 285.0 O.D. Round Member. Tower Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 103873 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tower Pipe Frame, 15' Nide Tower Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tower Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tower Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	102970	The state of the s	344.0
Tower Pipe Frame, 12' Wide Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 285.0 O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 329.0 103878 108" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	103670		344.0
Tow er Pipe Frame, 12'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 285.0 O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 row er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	T D		
103871 included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	Tower P		
Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 285.0	400074		400.0
Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.	103871		162.0
103872 pipe mounts included Fits 1-1/4" to 4-1/2" 285.0			
O.D. Round Member. Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Fipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 103878 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member.	4000=0	I · · · · · · · · · · · · · · · · · · ·	00= 0
Tow er Pipe Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 103878 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member.	103872	l' '	285.0
103873			
1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 329.0 103878 103879 pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 103880 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103873		307.0
103874 pipe mounts included Fits 1-1/4" to 4-1/2" 326.0 O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. 355.0 Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. 103876 Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" 103877			
O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 103878 108" pipe mounts included Fits 1-1/4" to 4-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 355.0 O.D. Round Member. Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103874	· ·	326.0
103875 pipe mounts included Fits 1-1/4" to 4-1/2" 355.0			
O.D. Round Member. Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 347.0 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
Tower Pipe Frame, 15' Wide Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 329.0 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 347.0 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103875		355.0
Tow er Pipe Frame, 15'. Pipe mounts not included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 0.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
103876 included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 0.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	Tower Pi	pe Frame, 15' Wide	
Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 103880 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0		Tow er Pipe Frame, 15'. Pipe mounts not	
Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 103880 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103876	included Fits 1-1/4" to 4-1/2" O.D. Round	184.0
103877 pipe mounts included Fits 1-1/4" to 4-1/2" 307.0 O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
O.D. Round Member. Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0		Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84"	
Tow er Pipe Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4- 1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103877	pipe mounts included Fits 1-1/4" to 4-1/2"	307.0
103878		O.D. Round Member.	
1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0		Tow er Pipe Frame, 15'. Three 2-3/8" OD x	
Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included Fits 1-1/4" to 4-1/2" O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103878	108" pipe mounts included Fits 1-1/4" to 4-	329.0
103879 pipe mounts included Fits 1-1/4" to 4-1/2" 348.0 O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0		1/2" O.D. Round Member.	
O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0		Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84"	
O.D. Round Member. Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0	103879		348.0
Tow er Pipe Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
103880 pipe mounts included Fits 1-1/4" to 4-1/2" 377.0			
	103880		377.0
		O.D. Round Member.	

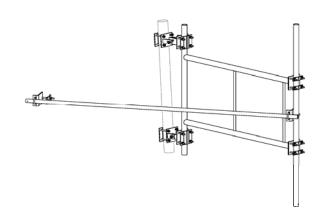
Side Arms



Material	Hot dip galv steel	Design:	Welded frame.
Included:	frame, clamps		
	and stiff arm.		
Order	Additional stiff	Mounts to:	1-1/4" to 10-
Seperately:	arm and large		3/4" OD or
	leg/angle adapter		angle

Part #	Description	Weight (Lbs)
103881	3' Side Arm, 1-1/4" to 4-1/2" OD-Straight.	94.0
103882	3' Side Arm w ith LLA, 1-1/4" to 10-3/4" OD- Straight.	137.8
100298	6' Side Arm, 1-1/4" to 4-1/2" OD-Straight.	125.0
100300	6' Side Arm w ith LLA, 1-1/4" to 10-3/4" OD- Straight.	177.9

Universal Side Arms

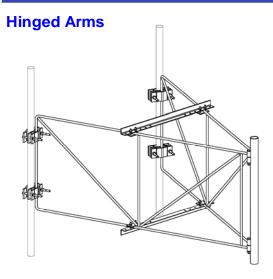


Material Included:	Hot dip galv steel frame, clamps, stiff arm	Design:	Welded frame. Taper and azimuth
Order Seperately:	Additional stiff arm	Mounts to:	adjusting. 1-1/4" to 10- 3/4" OD or angle

Part #	Description	Weight (Lbs)
103883	Universal 3' Side Arm, 1-1/4" to 4-1/2" OD.	161.0
103884	Universal 3' Side Arm with LLA, 1-1/4" to 10-3/4" OD.	214.2
100322	Universal 6' Side Arm, 1-1/4" to 4-1/2" OD.	192.0
100323	Universal 6' Side Arm with LLA, 1-1/4" to 10-3/4" OD.	245.1



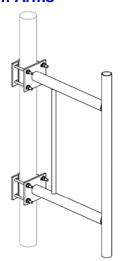




Material	Hot dip galv steel	Design:	Welded frames.
Included:	frames, clamps		Mounts to
	and hardware.		various tower
			widths.
Order	n/a	Mounts to:	1-1/4" to 4-1/2"
Seperately:			OD

Part #	Description	Weight (Lbs)
103885	3' Hinged Arm Assembly	101.0
100410	6' Hinged Arm Assembly	102.5

_	_		_	
Star	nd-	Off	Δr	ms



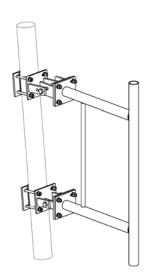
MaterialHot dip galv steelDesign:Welded pipeIncluded:frames, clampsframes.and hardw are.and hardw are.OrderLarge leg/angleMounts to: 1-1/4" to 4-1/2"Seperately:adaptersOD

Part #	Description	Weight (Lbs)
103886	Stand-Off Arm, 2' - 2.375" OD x 48" antenna	50.2
	mounting pipe.	
103887	Standoff Arm, 3' - 2.375" OD x 48" antenna	59.0
100001	mounting pipe.	00.0
103888	Standoff Arm, 4' - 2.375" OD x 48" antenna	72.9
103000	mounting pipe.	12.5
103889	Standoff Arm, 5' - 2.375" OD x 48" antenna	72.9
103003	mounting pipe.	12.5
103890	Standoff Arm, 6' - 2.375" OD x 48" antenna	87.5
103030	mounting pipe.	07.5

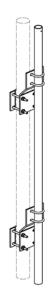
Material	Hot dip galv steel	Design:	Welded pipe
Included:	frames, clamps		frames. Taper
	and hardw are.		adjusting.
Order	Large leg/angle	Mounts to:	1-1/4" to 4-1/2"
Seperately:	adapters		OD

Part #	Description	Weight (Lbs)
105881	Universal Standoff Arm, 2' - 2.375" OD x 48"	81.0
100001	antenna mounting pipe.	01.0
105882	Universal Standoff Arm, 3' - 2.375" OD x 48"	88.0
100002	antenna mounting pipe.	00.0
105883	Universal Standoff Arm, 4' - 2.375" OD x 48"	102.0
100000	antenna mounting pipe.	102.0
105884	Universal Standoff Arm, 5' - 2.375" OD x 48"	109.0
100004	antenna mounting pipe.	103.0
105885	Universal Standoff Arm, 6' - 2.375" OD x 48"	116.0
100000	antenna mounting pipe.	110.0

Universal Stand-Off Arms



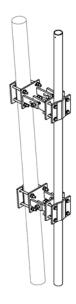
Pipe Mounts



Material	Hot dip galv steel	Design:	Desgined for
Included:	clamps, pipe and		straight tower
	hardw are.		legs
Order	n/a	Mounts to:	1-1/4" to 4-
Seperately:			1/2" OD

Part #	Description	Weight (Lbs)
103891	Pipe Mount, 2-3/8" x 84"	59.5
103892	Pipe Mount, 2-3/8" x 96"	63.1
103893	Pipe Mount, 2-3/8" x 108"	66.8
103894	Pipe Mount, 2-3/8" x 126"	72.3

Universal Pipe Mounts



Material	Hot dip galv steel	Design:	Various taper
Included:	clamps, pipe and		up to 4
	hardw are.		degrees
Order	n/a	Mounts to:	1-1/4" to 10-
Seperately:			3/4" OD or
			angle

Part #	Part # Description	
100218	Universal Pipe Mount, 2-3/8" OD x 84" antenna	72.0
.002.0	pipe.	
100223	Universal Pipe Mount with LLA, 2-3/8" OD x	119.0
100223	84" antenna pipe.	113.0
100167	Universal Pipe Mount, 4-1/2" OD x 63" antenna	97.0
100107	pipe.	97.0
100172	Universal Pipe Mount with LLA, 4-1/2" OD x	147.0
100172	63" antenna pipe.	147.0

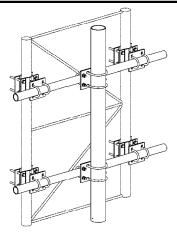


No Epokation

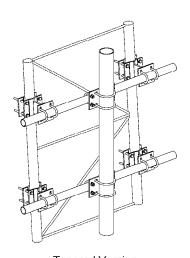
Cross-Arm Pipe Mounts

Material	Hot dip galv steel	Design:	Adjustable
Included:	clamps, pipe and		pipe location.
	hardw are.		
Order	n/a	Mounts to:	1-1/4" to 4-
Seperately:			1/2" OD

Straight leg or Tapered



Straight Version

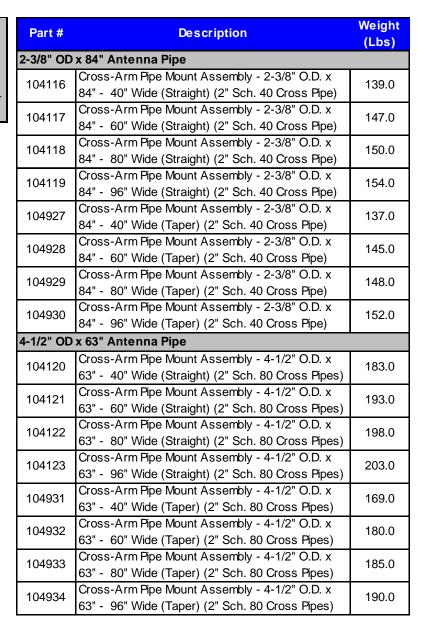


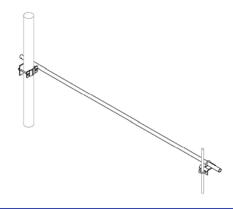
Tapered Version (Approx. 2-1/4" per 30")

Stiff Arms

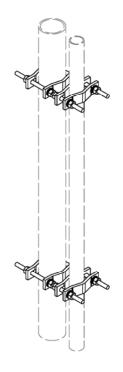
Material	Hot dip galv steel	Design:	Schedule 40
Included:	pipe, clamps and		pipe
	hardw are.		
Order	Large Leg/Angle	Mounts to:	See chart
Seperately:	Adapter		

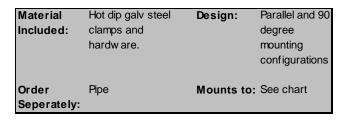
Part #	Description	Weight (Lbs)
103916	Stiff Arm, 1.66" OD x 10'-6" long. 1-1/2" to 2- 3/8" OD. 1-1/4" to 4-1/2" OD.	35.0
103917	Stiff Arm, 2-3/8" OD x 12' long. 1-1/2" to 2-3/8" OD. 1-1/4" to 4-1/2" OD.	31.8



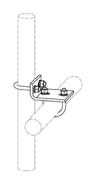


Pipe to Pipe Adapters

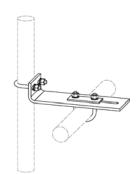




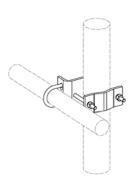
Part #	Description	Weight (Lbs)
Clamp St	yle, Parallel Mounting	
101296	Pipe to Pipe Clamp. (1-1/2" to 3-1/2" OD) 1/2" x 12" THD Rod	9.9
101344	Pipe to Pipe Clamp. (2-3/8" to 5" OD) 5/8" x 14" THD Rod	17.2
L - Brack	et Style, 90 Degree Mounting	
100528	Pipe to Pipe Adapter, L-Bracket style. Joins one 1.66" OD round member to one 2-3/8" OD round member. 1/2" U-bolts.	4.3
100527	100527 Pipe to Pipe Adapter, L-Bracket style. Joins tw o 2-3/8" OD round members. 1/2" U-bolts.	
100521	Pipe to Pipe Adapter, L-Bracket style. Joins tw o 2-3/8" OD round members. 1/2" U-bolts with variable offset.	10.1
100529	Pipe to Pipe Adapter, L-Bracket style. Joins one 2-3/8" OD round member to one 1-1/4" OD to 4-1/2" OD round member. 1/2" U-bolts and 1/2" hardw are.	7.5







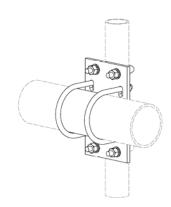
Part # 100521

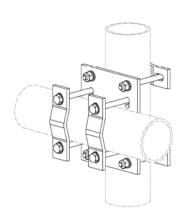


Part # 100529



Crossover Plates

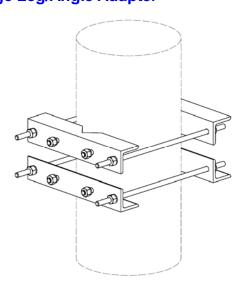




Material	Hot dip galv steel	Design:	90 degree
Included:	plates, u-bolts or		mounting
	clamps and		configuration
	hardw are.		
Order	Pipe	Mounts to:	See chart
Seperately:			

Part #	Description	Weight (Lbs)	
U-Bolt Sty	/le		
103899	Crossover Plate Assembly, 1.66" OD to 1.66" OD Pipe	5.9	
103900	Crossover Plate Assembly, 2-3/8" O.D. to 2-3/8" O.D. Pipe	7.7	
100531	Crossover Plate Assembly, 2-3/8" O.D. to 3-1/2" O.D. Pipe	8.6	
103902	Crossover Plate Assembly, 2-3/8" O.D. to 4-1/2" O.D. Pipe	8.9	
103903	Crossover Plate Assembly, 3-1/2" OD to 3-1/2" OD Pipe	9.9	
103904	Crossover Plate Assembly, 3-1/2" O.D. to 4-1/2" O.D. Pipe	10.0	
103905	Crossover Plate Assembly, 4-1/2" O.D. to 4-1/2" O.D. Pipe	12.0	
Clamp Style			
103906	Crossover Plate Assembly. Joins two 1-1/4" to 4-1/2" OD round members.	13.0	
103907	Crossover Plate Assembly. Joins two 2-3/8" to 6-5/8" OD round members.	16.0	

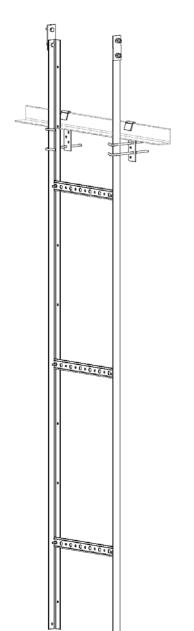
Large Leg/Angle Adapter

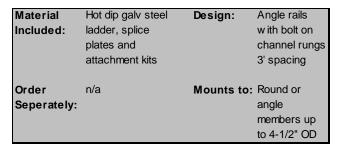


Material	Hot dip galv steel	Design:	Adapts
Included:	angle and		mounts to
	hardw are.		large round or
			angle
			members
Order	n/a	Mounts to:	Up to 10-3/4"
Seperately:			OD or 6"
			Angle

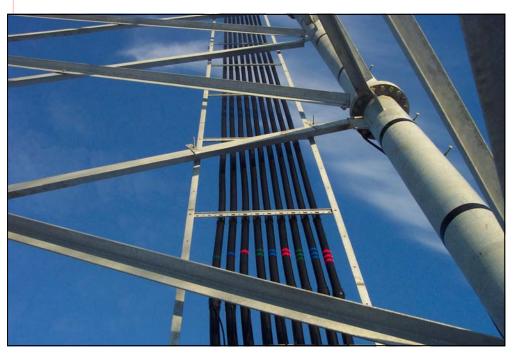
Part #	Description	Weight (Lbs)
100196	Large Leg Adapter Kit Assembly for 4-1/2" to 10-3/4 OD	28.0

Universal Cable Ladder



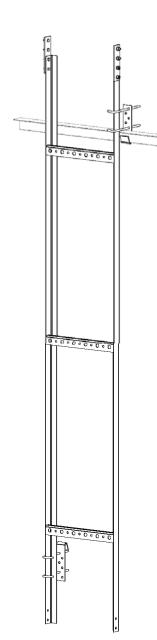


Part #	Description	Weight (Lbs)
10' Univers	sal Cable Ladder Kit	
103918	Universal Cable Ladder, 20-1/4" wide x 10'	37.0
100010	long, 6-hole rung.	37.0
103919	Universal Cable Ladder, 29-1/4" wide x 10'	39.2
103919	long, 9-hole rung.	00.2
100228	Universal Cable Ladder, 38" wide x 10' long,	41.9
100220	12-hole rung.	11.0
20' Univers	sal Cable Ladder Kit	
100513	Universal Cable Ladder, 20-1/4" wide x 20'	75.0
100010	long,6-hole rung.	70.0
101062	Universal Cable Ladder, 29-1/4" wide x 20'	80.0
101002	long, 9-hole rung.	00.0
100224	Universal Cable Ladder, 38" wide x 20' long,	84.0
	12-hole rung.	0 7.0





Universal Welded Cable Ladder

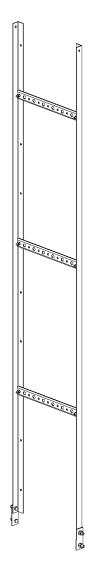


Material	Hot dip galv steel	Design:	Angle rails
Included:	ladder, splice		w ith w elded
	plates and		on channel
	attachment kits		rungs, 40"
			spacing
Order	n/a	Mounts to:	Round or
Seperately:			angle
			members up
			to 4-1/2" OD

Part #	Description	Weight (Lbs)
10' Univers	sal Welded Cable Ladder Kit	
100151	Universal Welded Cable Ladder, 17-1/4" wide	35.0
100131	x 10' long, 6-hole rung.	33.0
100152	Universal Welded Cable Ladder, 26-1/4" wide	37.0
100102	x 10' long, 9-hole rung.	07.0
100153	Universal Welded Cable Ladder, 35-1/4" wide	39.0
100100	x 10' long, 12-hole rung.	00.0
20' Univers	sal Welded Cable Ladder Kit	
103920	Universal Welded Cable Ladder, 17-1/4" wide	72.0
100020	x 20' long, 6-hole rung.	72.0
103921	Universal Welded Cable Ladder, 26-1/4" wide	77.0
100021	x 20' long, 9-hole rung.	77.0
103922	Universal Welded Cable Ladder, 35-1/4" wide	81.0
103922	x 20' long, 12-hole rung.	01.0



Cable Ladder

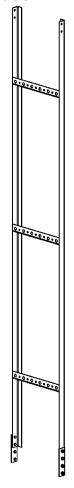


Material Included:	Hot dip galv steel ladder, splice plates and rungs	Design:	Angle rails with bolt on channel rungs 3' spacing
Order Seperately:	Attachment kits	Mounts to:	n/a

Part #	Description	Weight (Lbs)	
10' Cable I	Ladder		
103923	Cable Ladder, 20-1/4" wide x 10' long, 6-hole	35.0	
100020	rung. No attachment hardware.	33.0	
103924	Cable Ladder, 29-1/4" wide x 10' long, 9-hole	37.0	
100024	rung. No attachment hardware.	37.0	
103925	Cable Ladder, 38" wide x 10' long, 12-hole	39.0	
100020	rung. No attachment hardware.	00.0	
20' Cable	20' Cable Ladder Kit		
103926	Cable Ladder, 20-1/4" wide x 20' long, 6-hole	69.0	
100020	rung. No attachment hardware.	03.0	
103927	Cable Ladder, 29-1/4" wide x 20' long, 9-hole	75.0	
100027	rung. No attachment hardware.	7 3.0	
103928	Cable Ladder, 38" wide x 20' long, 12-hole	77.0	
100920	rung. No attachment hardware.	11.0	



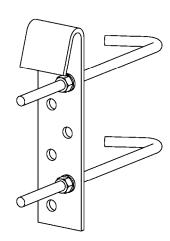
Welded Cable Ladder



Material Included:	Hot dip galv steel ladder, splice plates and rungs	Design:	Angle rails with welded on channel rungs, 40"
Order Seperately:	Attachment kits	Mounts to:	spacing n/a

Part #	Description	Weight (Lbs)		
10' Welded	d Cable Ladder			
103929	Welded Cable Ladder, 17-1/4" wide x 10' long, 6-hole rung. No attachment hardware.	32.0		
103930	Welded Cable Ladder, 26-1/4" wide x 10' long, 9-hole rung. No attachment hardware.	35.0		
103931	Welded Cable Ladder, 35-1/4" wide x 10' long, 12-hole rung. No attachment hardware.	37.0		
20' Welded	20' Welded Cable Ladder Kit			
103932	Welded Cable Ladder, 17-1/4" wide x 20' long, 6-hole rung. No attachment hardware.	68.0		
103933	Welded Cable Ladder, 26-1/4" wide x 20' long, 9-hole rung. No attachment hardware.	72.0		
103934	Welded Cable Ladder, 35-1/4" wide x 20' long, 12-hole rung. No attachment hardware.	77.0		

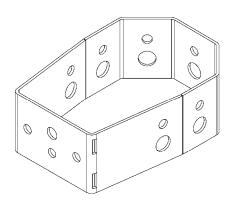
Universal Cable Ladder Attachments

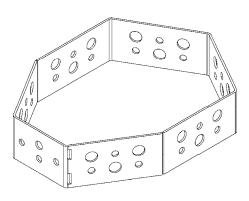


Material	Hot dip galv steel	Design:	Adapts cable
Included:	plates and j-bolts		ladder to
			tow er
			members
Order	Cable ladder	Mounts to:	Round or
Seperately:			angle
			members

Part #	Description	Weight (Lbs)
100344	Universal Cable Ladder Attachment Kit, 1" to 4-1/2" OD and 1-1/2" to 5" angle members.	1.1
100544	1/2" OD and 1-1/2" to 5" angle members.	1.1

Cluster T-Line Brackets

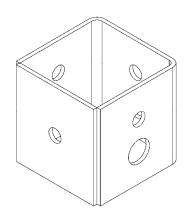




Material	Hot dip galv steel	Design:	Minimizes	
Included:	bracket and listed		w ind load on	
	hardw are		cable	
Order	n/a	Mounts to:	Round or	
Seperately:			angle	
			members	

Part #	Description	Weight (Lbs)		
Cluster T-I	Line Brackets			
103940	Cluster T-Line Bracket (7-Hole)	2.4		
103941	Cluster T-Line Bracket with 2" to 5" OD round member adapter.	7.0		
103942	Cluster T-Line Bracket w ith 6" to 8" OD round member attachment.	8.0		
103943	Cluster T-Line Bracket with U-bolt for 2-3/8" round member attachment.	2.7		
103944	Cluster T-Line Bracket with Angle member attachment.	4.0		
Cluster T-I	Cluster T-Line Brackets, Large Version			
103945	Cluster T-Line Bracket, Large Version (18- Hole)	3.7		
103946	Cluster T-Line Bracket, Large Version with 2" to 5" OD round member adapter.	8.0		
103947	Cluster T-Line Bracket, Large Version with 6" to 8" OD round member attachment.	9.0		
103948	Cluster T-Line Bracket, Large Version with U-bolt for 2-3/8" round member attachment.	4.0		
103949	Cluster T-Line Bracket, Large Version with Angle member attachment.	5.0		

Mini Cluster Support Bracket

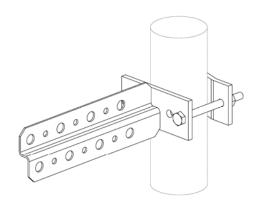


Material	Hot dip	Design:	Supports up
Included:	galvanized		to 3 runs of
	bracket		coax
Order	Hangers and	Mounts to:	n/a
Seperately:	mounting		
	hardw are		

Part #	Description	Weight (Lbs)
100953	Mini Cluster Line Support Bracket, 10 pack	0.3



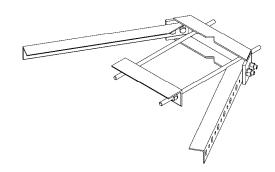
T-Line Brackets



Material	Hot dip galv steel	Design:	8 and 14 hole
Included:	bracket and		versions
	hardw are		
Order	n/a	Mounts to:	Round or
Seperately:			angle
			members

Part #	Description	Weight (Lbs)
103950	8 Hole T-Line Bracket Assembly (1-1/4" to 4-1/2" OD Leg).	6.2
103951	8 Hole T-Line Bracket Assembly (1-1/4" to 12-3/4" OD Leg).	22.0
100184	14 Hole T-Line Bracket Assembly (1-1/4" to 4-1/2" OD).	7.5
100320	14 Hole T-Line Bracket Assembly (1-1/4" to 10-3/4" OD)	23.2

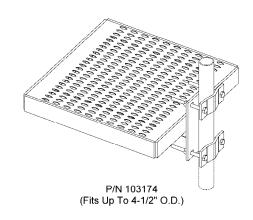
Star T-Line Bracket

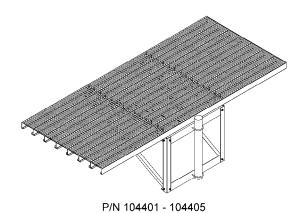


Material	Hot dip galv steel	Design:	12 line
Included:	bracket and		capacity
	hardw are		
Order	n/a	Mounts to:	1-1/2" to 7-
Seperately:			1/2" Round or
			1-1/2" to 5"
			angle
			members

Part #	Description	Weight (Lbs)
101243	Star Coax Support Assembly	18.3

Ice Shields





Fits 4-1/2" O.D. Leg

 Material
 Hot dip galv steel
 Design:
 6 sizes. 8'

 Included:
 shield and attachment attachment hardware
 12' come w ith tie-back cable.

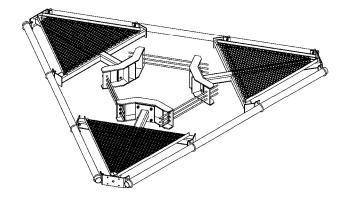
 Order
 Pipe mount
 Mounts to: 4-1/2" OD pipe

 Seperately:

Part #	Description	Weight (Lbs)
103174	Rest Platform, Ice Shield Kit, 24" x 24"	71.4
104401	Ice Shield Kit, 48" x 54"	356.0
104402	Ice Shield Kit, 72" x 54"	389.0
104403	Ice Shield Kit, 96" x 54"	488.0
104404	Ice Shield Kit, 120" x 54"	554.0
104405	Ice Shield Kit, 144" x 54"	620.0



Low-Profile Platforms

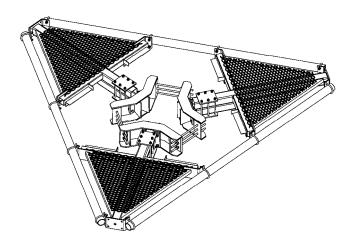


Hot dip galv steel Welded Material Design: Included: frame and corners with hardware. fixed length Available with or center arms w ithout mounting pipes. Order Pipes and rail Mounts to: See ranges Seperately: support kit below

Part #	Description	Weight (Lbs)			
Low-Pro	file Platform, 10'-6" (10-3/4" - 18" OD Range)				
108602	Low-Profile Platform, 10'-6". Pipe mounts not included. (8-5/8" to 18" O.D.)	1147.0			
109859	Low -Profile Platform, 10'-6". Nine 2-3/8" OD x 84" pipe mounts included.	1453.0			
109860	Low -Profile Platform, 10'-6". Nine 2-3/8" OD x 108" pipe mounts included.	1525.0			
109861	Low-Profile Platform, 10'-6". Tw elve 2-3/8" OD x 84" pipe mounts included.	1555.0			
109862	Low-Profile Platform, 10'-6". Tw elve 2-3/8" OD x 108" pipe mounts included.	1651.0			
Low-Pro	file Platform, 12' (10-3/4" - 36" OD Range)				
109863	Low-Profile Platform, 12'. Pipe mounts not included. (10-3/4" to 36" O.D.)	1181.0			
109864	Low - Profile Platform, 12'. Nine 2-3/8" OD x 84" pipe mounts included.	1487.0			
109865	Low - Profile Platform, 12'. Nine 2-3/8" OD x 108" pipe mounts included.	1559.0			
109866	Low - Profile Platform, 12'. Tw elve 2-3/8" OD x 84" pipe mounts included.	1589.0			
109867	Low - Profile Platform, 12'. Tw elve 2-3/8" OD x 108" pipe mounts included.	1685.0			
Low-Pro	Low-Profile Platform, 14' (10-3/4" to 30" OD)				
108603	Low-Profile Platform, 14'. Pipe mounts not included. (8-5/8" to 30" O.D.)	1274.0			
109868	Low - Profile Platform, 14'. Nine 2-3/8" OD x 84" pipe mounts included. (8.625" to 30" O.D.)	1580.0			
109869	Low - Profile Platform, 14'. Nine 2-3/8" OD x 108" pipe mounts included. (8.625" to 30"	1652.0			
109870	Low -Profile Platform, 14'. Tw elve 2-3/8" OD x 84" pipe mounts included. (8.625" to 30" O.D.)	1682.0			
109871	Low -Profile Platform, 14'. Tw elve 2-3/8" OD x 108" pipe mounts included. (8.625" to 30"	1778.0			
Low-Pro	file Platform, 14' (30" to 48" OD)				
109872	Low-Profile Platform, 14'. Pipe mounts not included. (30" to 48" O.D.)	1226.0			
109873	Low -Profile Platform, 14'. Nine 2-3/8" OD x 84" pipe mounts included. (30" to 48" O.D.)	1532.0			
109874	Low -Profile Platform, 14'. Nine 2-3/8" OD x 108" pipe mounts included. (30" to 48" O.D.)	1604.0			
109875	Low-Profile Platform, 14'. Tw elve 2-3/8" OD x 84" pipe mounts included. (30" to 48" O.D.)	1634.0			
109876	Low -Profile Platform, 14'. Tw elve 2-3/8" OD x 108" pipe mounts included. (30" to 48" O.D.)	1730.0			

Low-Profile Telescoping Platforms

Material Included:	Hot dip galv steel frame and hardw are. Available w ith or w ithout mounting pipes.	Design:	Welded corners with telescoping center arms
Order Seperately:	Pipes, bar grating bridge kit and support rail kit	Mounts to:	10-3/4" to 48" tapered or straight poles

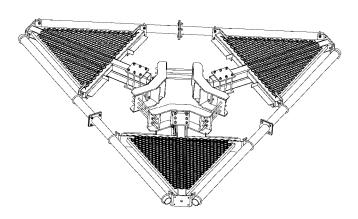


Part #	Description	Weight (Lbs)	
Low-Profile Telescoping Platform, 10'-6" (10-3/4" - 18" OD			
103964	Low-Profile Telescoping Platform, 10'-6". Pipe mounts not included.	1035.0	
103965	Low-Profile Telescoping Platform, 10'-6". Nine 2-3/8" OD x 84" pipe mounts included.	1346.0	
103966	Low-Profile Telescoping Platform, 10'-6". Nine 2-3/8" OD x 108" pipe mounts included.	1409.0	
103967	Low-Profile Telescoping Platform, 10'-6". Tw elve 2-3/8" OD x 84" pipe mounts included.	1450.0	
103968	Low-Profile Telescoping Platform, 10'-6". Tw elve 2-3/8" OD x 108" pipe mounts included.	1534.0	
Low-Prof	ile Telescoping Platform, 12' (10-3/4" - 36" OD F	Range)	
103969	Low-Profile Telescoping Platform, 12'. Pipe mounts not included.	1086.0	
103970	Low-Profile Telescoping Platform, 12'. Nine 2-3/8" OD x 84" pipe mounts included.	1397.0	
103971	Low-Profile Telescoping Platform, 12'. Nine 2-3/8" OD x 108" pipe mounts included.	1460.0	
103972	Low-Profile Telescoping Platform, 12'. Tw elve 2-3/8" OD x 84" pipe mounts included.	1501.0	
103973	Low-Profile Telescoping Platform, 12'. Tw elve 2-3/8" OD x 108" pipe mounts included.	1585.0	
Low-Prof	ile Telescoping Platform, 14' (10-3/4" - 48" OD F	Range)	
100447	Low-Profile Telescoping Platform, 14'. Pipe mounts not included.	1130.0	
103975	Low - Profile Telescoping Platform, 14'. Nine 2-3/8" OD x 84" pipe mounts included.	1441.0	
103977	Low-Profile Telescoping Platform, 14'. Nine 2-3/8" OD x 108" pipe mounts included.	1504.0	
103978	Low-Profile Telescoping Platform, 14'. Tw elve 2-3/8" OD x 84" pipe mounts included.	1545.0	
103979	Low-Profile Telescoping Platform, 14'. Tw elve 2-3/8" OD x 108" pipe mounts included.	1629.0	



Low-Profile Telescoping Platforms, Flanged

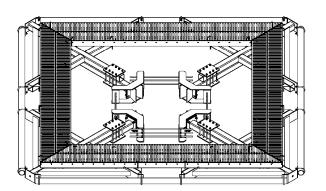
		_		
Material	Hot dip galv steel	Design:	Welded	
Included:	frame and		corners with	
	hardw are.		telescoping	
	Available with or		center arms.	
	w ithout mounting		Flanged pipe	
	pipes.		face for	
			compact	
			shipping.	
Order	Pipes, bar grating	Mounts to:	: 10-3/4" to 48"	
Seperately:	bridge kit and		tapered or	
	support rail kit		straight poles	



Part #	Description	Weight (Lbs)		
Low-Profile Telescoping Platform, 10'-6" (10-3/4" - 3				
103980	Low -Profile Telescoping Platform, 10'-6"- Flanged. Pipe mounts not included.	1058.0		
103981	Low-Profile Telescoping Platform, 10'-6"- Flanged. Nine 2-3/8" OD x 84" pipe mounts included.	1369.0		
103982	Low -Profile Telescoping Platform, 10'-6"- Flanged. Nine 2-3/8" OD x 108" pipe mounts included.	1432.0		
103983	Low -Profile Telescoping Platform, 10'-6"- Flanged. Tw elve 2-3/8" OD 84" pipe mounts included.	1473.0		
103984	Low -Profile Telescoping Platform, 10'-6"- Flanged. Tw elve 2-3/8" OD x 108" pipe mounts included.	1557.0		
Low-Prof	ile Telescoping Platform, 12' (10-3/4" - 40"	OD)		
103985	Low -Profile Telescoping Platform, 12'-Flanged. Pipe mounts not included.	1108.0		
103986	Low -Profile Telescoping Platform, 12'- Flanged. Nine 2-3/8" OD x 84" pipe mounts included.	1419.0		
103987	Low -Profile Telescoping Platform, 12'- Flanged. Nine 2-3/8" OD x 108" pipe mounts included.	1482.0		
103988	Low -Profile Telescoping Platform, 12'- Flanged. Tw elve 2-3/8" OD x 84" pipe mounts included.	1523.0		
103989	Low -Profile Telescoping Platform, 12'- Flanged. Tw elve 2-3/8" OD x 108" pipe mounts included.	1607.0		
Low-Prof	ile Telescoping Platform, 14' (10-3/4" - 48"	OD)		
105624	Low -Profile Telescoping Platform, 14'- Flanged. Pipe mounts not included.	1154.0		
103990	Low -Profile Telescoping Platform, 14'- Flanged. Nine 2-3/8" OD x 84" pipe mounts included.	1465.0		
103991	Low -Profile Telescoping Platform, 14'- Flanged. Nine 2-3/8" OD x 108" pipe mounts included.	1528.0		
103992	Low -Profile Telescoping Platform, 14'- Flanged. Tw elve 2-3/8" OD x 84" pipe mounts included.	1569.0		
103994	Low -Profile Telescoping Platform, 14'- Flanged. Tw elve 2-3/8" OD x 108" pipe mounts included.	1653.0		

Low-Profile Telescoping Square Platforms

Material Included:	Hot dip galv steel frame and hardw are. Available w ith or w ithout mounting	Design:	Welded corners with telescoping center arms
Order Seperately:	pipes. Pipes and Support Rail Kit	Mounts to:	10-3/4" to 48" tapered or straight poles

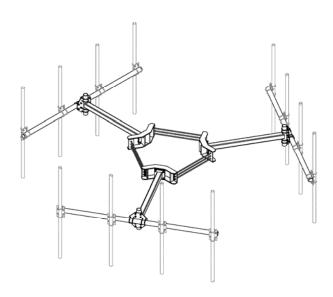


Part #	Description	Weight (Lbs)		
Low-Profile Telescoping Square Platform, 10'-6"				
104385	Low-Profile Telescoping Square Platform, 10'-6". Pipe mounts not included.	2254.0		
104386	Low -Profile Telescoping Square Platform, 10'-6". Nine 2-3/8" OD x 84" pipe mounts included.	2887.0		
104387	Low -Profile Telescoping Square Platform, 10'-6". Nine 2-3/8" OD x 108" pipe mounts included.	2953.0		
104388	Low - Profile Telescoping Square Platform, 10'-6". Tw elve 2-3/8" OD x 84" pipe mounts included.	2986.0		
104389	Low-Profile Telescoping Square Platform, 10'-6". Tw elve 2-3/8" OD x 108" pipe mounts included.	3074.0		
Low-Prof	ile Telescoping Square Platform, 12'			
104390	Low-Profile Telescoping Square Platform, 12'. Pipe mounts not included.	2380.0		
104391	Low -Profile Telescoping Square Platform, 12'. Nine 2-3/8" OD x 84" pipe mounts included.	3084.0		
104392	Low -Profile Telescoping Square Platform, 12'. Nine 2-3/8" OD x 108" pipe mounts included.	3150.0		
104393	Low -Profile Telescoping Square Platform, 12'. Tw elve 2-3/8" OD x 84" pipe mounts included.	3183.0		
104394	Low -Profile Telescoping Square Platform, 12'. Tw elve 2-3/8" OD x 108" pipe mounts included.	3271.0		
Low-Prof	ile Telescoping Square Platform, 14'			
104395	Low-Profile Telescoping Square Platform, 14'. Pipe mounts not included.	2553.0		
104396	Low - Profile Telescoping Square Platform, 14'. Nine 2-3/8" OD x 108" pipe mounts included.	3429.0		
104397	Low -Profile Telescoping Square Platform, 14'. Tw elve 2-3/8" OD x 84" pipe mounts included.	3462.0		
104398	Low-Profile Telescoping Square Platform, 14'. Tw elve 2-3/8" OD x 108" pipe mounts included.	3550.0		
104399	Low -Profile Telescoping Square Platform, 14'. Nine 2-3/8" OD x 84" pipe mounts included.	3363.0		

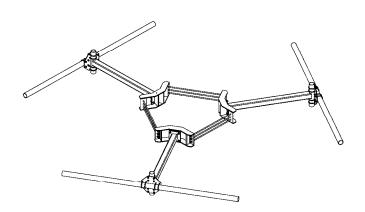


Support Arms for Clamp Rings

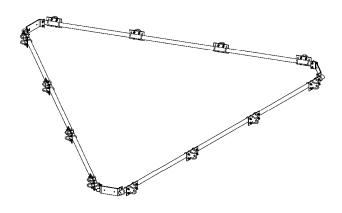
Material Included:	Hot dip galv steel clamp ring, support arm, pipe	Design:	Complete co- location kit. 60" support arm
	frame with or without pipe mounts		length.
Order Seperately:	Pipe mounts and work platforms	Mounts to:	10-3/4" to 48" tapered or straight poles

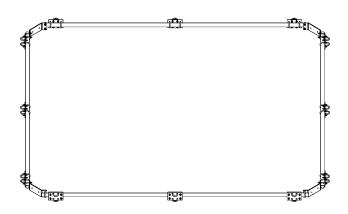


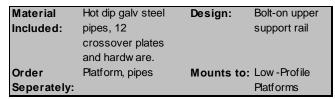
Part #	Description	Weight (Lbs)	
T-Arm Co	T-Arm Co-location Kit, 10'-6"		
104000	T-Arm Co-location Kit, 10'-6". Pipe mounts not included.	760.0	
104001	T-Arm Co-location Kit, 10'-6". Nine 2-3/8" OD x 84" pipe mounts included.	1068.0	
104002	T-Arm Co-location Kit, 10'-6". Nine 2-3/8" OD x 108" pipe mounts included.	1134.0	
104003	T-Arm Co-location Kit, 10'-6". Tw elve 2-3/8" OD x 84" pipe mounts included.	1170.0	
104004	T-Arm Co-location Kit, 10'-6". Tw elve 2-3/8" OD x 108" pipe mounts included.	1258.0	
T-Arm Co	o-location Kit, 12'		
104005	T-Arm Co-location Kit, 12'. Pipe mounts not included.	794.0	
104006	T-Arm Co-location Kit, 12'. Nine 2-3/8" OD x 84" pipe mounts included.	1102.0	
104007	T-Arm Co-location Kit, 12'. Nine 2-3/8" OD x 108" pipe mounts included.	1168.0	
104008	T-Arm Co-location Kit, 12'. Tw elve 2-3/8" OD x 84" pipe mounts included.	1205.0	
104009	T-Arm Co-location Kit, 12'. Tw elve 2-3/8" OD x 108" pipe mounts included.	1292.0	
T-Arm Co	o-location Kit, 14'		
104010	T-Arm Co-location Kit, 14'. Pipe mounts not included.	838.0	
104011	T-Arm Co-location Kit, 14'. Nine 2-3/8" OD x 84" pipe mounts included.	1146.0	
104012	T-Arm Co-location Kit, 14'. Nine 2-3/8" OD x 108" pipe mounts included.	1212.0	
104013	T-Arm Co-location Kit, 14'. Tw elve 2-3/8" OD x 84" pipe mounts included.	1249.0	
104014	T-Δrm Co-location Kit 14' Twelve 2-3/8" OD x		



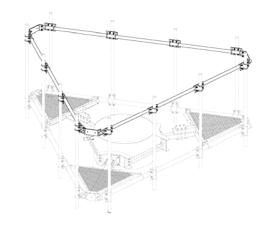
T-Arm Co-location Kits



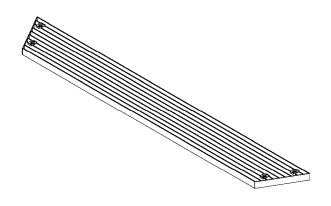




Part #	Description	Weight (Lbs)
Low-Prof	file Platform, Triangular	
103995	Low -Profile Support Rail Kit, 10'-6"	263.2
103996	Low -Profile Support Rail Kit, 12'	268.7
103997	Low -Profile Support Rail Kit, 14'	
Low-Prof	file Platform, Square	
109388	Low -Profile Support Rail Kit (Square), 10'-6"	286.0
109389	Low -Profile Support Rail Kit (Square), 12'	310.0
109380	Low -Profile Support Rail Kit (Square), 14'	338.0



Low-Profile Platform Support Rails

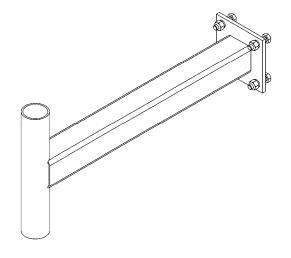


Material	Hot dip galv steel	Design:	Bolt-on bridge
Included:	grating and		to span
	hardw are.		corners of
			platform
Order	Platform, pipes	Mounts to:	Low - Profile
Seperately:			Platforms

Part #	Description	Weight (Lbs)
103998	Low -Profile Bridge Kit, 10'-6"	36.3
103999	Low -Profile Bridge Kit, 12'	53.3
100468	Low -Profile Bridge Kit, 14'	75.0



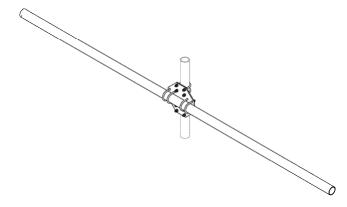
Work Platforms



Material	Hot dip galv steel	Design:	3 or 4 sector
Included:	clamp rings and		
	threaded rod		
Order	Arms, platforms	Mounts to:	Fits tapered or
Seperately:	and pipe		straight poles

Part #	Description	Weight (Lbs)		
T-Arm Strut Kits				
109900	109900 3' Strut for T-Arm Assembly			
109907	5' Strut for T-Arm Assembly	68.0		

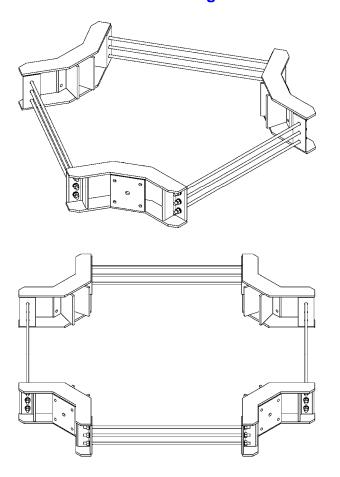
Work Platforms

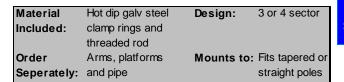


Material	Hot dip galv steel	Design:	3 or 4 sector
Included:	clamp rings and		
	threaded rod		
Order	Clamp ring, strut,	Mounts to:	T-Arm strut
Seperately:	antenna pipe and		
	w ork platforms		

Part #	Description	Weight (Lbs)	
T-Arm Cr	oss Arm Kits		
109899	Antenna Pipe Frame, 10'-6", for T-Arm	102.0	
103033	Mounting. No Antenna Pipes	102.0	
107605	Antenna Pipe Frame, 12'-6", for T-Arm	117.0	
Mounting. No Antenna Pipes		117.0	
107604	Antenna Pipe Frame, 14'-0", for T-Arm	128.0	
107004	Mounting. No Antenna Pipes	120.0	

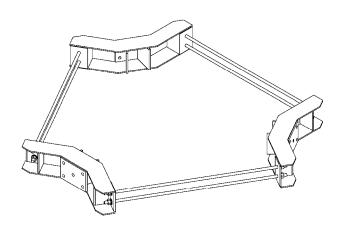
Low-Profile Platform Bridge Kit





Part #	Description	Weight (Lbs)
3-Sector	Universal Clamp Ring	
101175	Universal Clamp Ring, 3 Sector. 10-3/4" to 48" OD.	255.6
104015	Universal Clamp Ring, 3 Sector. 42" to 60" OD.	255.6
4-Sector	Universal Clamp Ring	
104016	Universal Clamp Ring, 4 Sector. 10-3/4" to 60" OD.	352.9
104017	Universal Clamp Ring, 4 Sector. 42" to 60" OD.	352.9

T-Arm Components

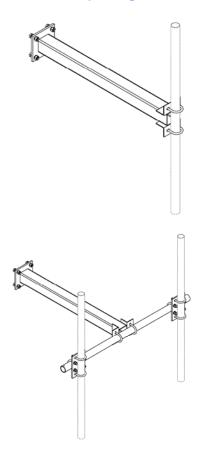


Material	Hot dip galv steel	Design:	3 or 4 sector
Included:	clamp rings and		lightw eight
	threaded rod		design for
			small load
			applications
Order	Arms and pipe	Mounts to:	Fits tapered or
Seperately:			straight poles
			•

Part #	Description	Weight (Lbs)			
3-Sector	3-Sector Universal Clamp Ring, Lightweight				
109289	Universal Clamp Ring, Lightweight - 3 Sector. 10-3/4" to 48" OD	134.0			
4-Sector	4-Sector Universal Clamp Ring, Lightweight				
109642	Universal Clamp Ring, Lightweight - 4 Sector. 10-3/4" to 48" OD	178.0			



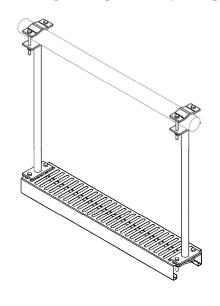
Universal Clamp Rings



Material	Hot dip galv steel	Design:	Single or
Included:	arm hardw are		double pipe
			arms
Order	Clamp Rings and	Mounts to:	Clamp Rings
Seperately:	antenna pipes		

Part #	Description	Weight (Lbs)
Single Pip	pe Support Arm	
104018	Clamp Ring Stand-Off Arm, 24" Long. Includes hardw are and U-bolts for 2-3/8" OD round	32.3
104019	Clamp Ring Stand-Off Arm, 48" Long. Includes hardw are and U-bolts for 2-3/8" OD round	51.2
104020	Clamp Ring Stand-Off Arm, 72" Long. Includes hardw are and U-bolts for 2-3/8" OD round	70.1
Double P	ipe Support Arm	
104021	Clamp Ring Stand-Off Arm, 24" Long-double. Includes hardware and U-bolts for 2-3/8" OD	66.1
104022	Clamp Ring Stand-Off Arm, 48" Long-double. Includes hardware and U-bolts for 2-3/8" OD	84.9
104023	Clamp Ring Stand-Off Arm, 72" Long-double. Includes hardware and U-bolts for 2-3/8" OD	103.8

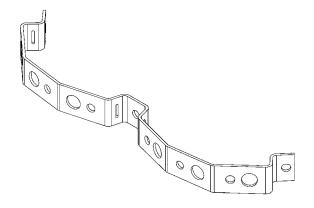
Universal Lightweight Clamp Rings



Material	Galv steel	Design:	Safety grated
Included:	platform and		w ork platform
	clamps		
Order		Mounts to:	Support Arms
Seperately:			

Part #	Description	Weight (Lbs)
104026	Work Platform for Support Arm, 9" x 36"	44.0
100824	Work Platform for Support Arm, 9" x 48"	49.0
104027	Work Platform for Support Arm, 9" x 60"	54.0
103314	Work Platform for Support Arm, 9" x 120"	77.0

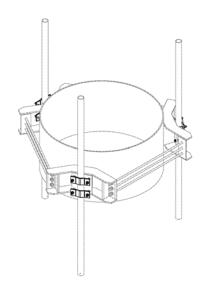
Universal Round Member Support Brackets



Material	Hot dip galv steel	Design:	Coax support
Included:	bracket		for round
			members
Order	Banding	Mounts to:	Round
Seperately:			members

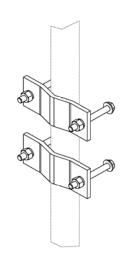
Part #	Description	Weight (Lbs)
102935	Universal Round Member Support Bracket - 10 pack	11.0

Pipe Mount Adapter for Clamp Rings



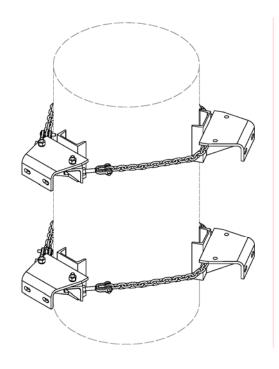
Material Included:	Hot dip galv steel bracket and hardware	Design:	Plate design
Order Seperately:	Clamp Rings and antenna pipes	Mounts to:	Clamp Ring

Part #	Description	Weight (Lbs)
104028	Pipe Mount Adapter Plate for Clamp Rings, 1-1/4" OD to 4-1/2" OD.	5.0





Low-Profile Chain Mounts

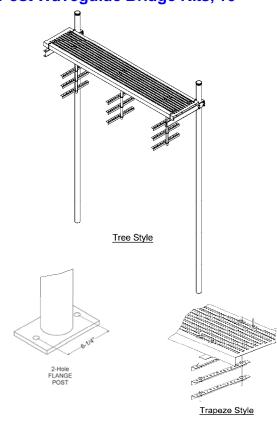


Material	Hot dip galv steel	Design:	Welded pipe
Included:	brackets, chain		support with
	and hardw are		pivot chain
			connection
Order	Antenna pipes up	Mounts to:	8" to 60" OD
Seperately:	to 3-1/2" OD		

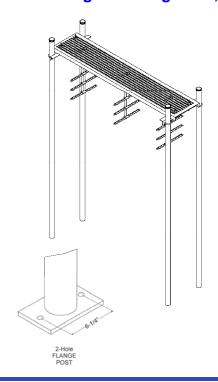
Part #	Description	Weight (Lbs)
104148	Low-Profile Chain Mount. Pipe mounts not	68.0
101110	included.	00.0
104149	Low - Profile Chain Mount. Three 2-3/8" OD x	173.0
104143	84" pipe mounts included.	173.0
104150	Low - Profile Chain Mount. Three 2-3/8" OD x	197.0
104130	108" pipe mounts included.	197.0



2 Post Waveguide Bridge Kits, 10'



4 Post Waveguide Bridge Kits, 10'



Material	Hot dip galv steel	Design:	Tw o post
Included:	pipe, channel,		bridge design.
	supports, caps,		
	trapeze and		
	hardw are		
Order	Additional	Mounts to:	n/a
Seperately:	accessories		

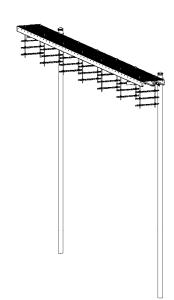
Part #	Description	Weight (Lbs)
12" Wide	Bridge Kits	
104355	Tw o Post Waveguide Bridge Kit, 12" x 10'. No trapeze, tw o 14' burial posts.	267.0
104356	Tw o Post Waveguide Bridge Kit, 12" x 10'. Triple level trapeze, tw o 14' burial posts.	287.0
104357	Tw o Post Waveguide Bridge Kit, 12" x 10'. No trapeze, tw o 10'-6" flange posts.	226.0
104358	Tw o Post Waveguide Bridge Kit, 12" x 10'. Triple level trapeze, tw o 10'-6" flange posts.	245.0
24" Wide	Bridge Kits	
100884	Tw o Post Waveguide Bridge Kit, 24" x 10'. No trapeze, tw o 14' burial posts.	346.0
100131	Tw o Post Waveguide Bridge Kit, 24" x 10'. Triple level trapeze, tw o 14' burial posts.	375.0
107623	Tw o Post Waveguide Bridge Kit, 24" x 10'. Triple level tree brackets, tw o 14' burial posts.	406.0
104359	Tw o Post Waveguide Bridge Kit, 24" x 10'. No trapeze, tw o 10'-6" flange posts.	305.0
100915	Tw o Post Waveguide Bridge Kit, 24" x 10'. Triple level trapeze, tw o 10'-6" flange posts.	333.6

Material	Hot dip galv steel	Design:	Four post
Included:	pipe, channel,		bridge design.
	supports, caps,		
	trapeze and		
	hardw are		
Order	Additional	Mounts to:	n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)	
104360	Four Post Waveguide Bridge Kit, 24" x 10'. No	550.0	
	trapeze, (4) 14' burial posts.		
104361	Four Post Waveguide Bridge Kit, 24" x 10'.	588.0	
104001	Triple level tree bracket, (4) 14' burial posts.		
104362	Four Post Waveguide Bridge Kit, 24" x 10'. No	467.0	
104302	trapeze, (4) 10'-6" flange posts.		
	Four Post Waveguide Bridge Kit, 24" x 10'.		
104363	Triple level tree brackets, (4) 10'-6" flange	506.0	
	posts.		



2 Post Waveguide Bridge Kits, 20'

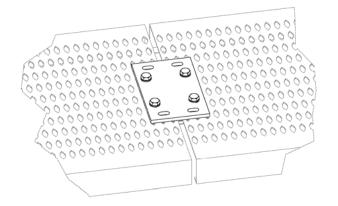


Material	Hot dip galv steel	Design:	Tw o post
Included:	pipe, channel,		bridge design.
	supports, caps,		
	trapeze and		
	hardw are		
Order	Additional	Mounts to:	n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)
104353	Two Post Waveguide Bridge Kit, 18" x 20'. No trapeze, two 14' burial posts.	506.0
100318	Tw o Post Waveguide Bridge Kit, 18" x 20'. Triple level, tw o 14' burial posts.	563.0
104354	Two Post Waveguide Bridge Kit, 27" x 20'. No trapeze, two 14' burial posts	661.0
100319	Tw o Post Waveguide Bridge Kit, 27" x 20'. Triple Level, tw o 14' burial posts.	729.0



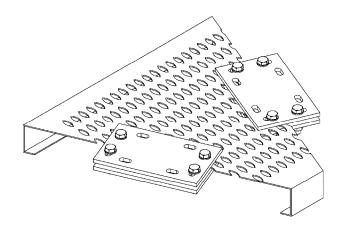
Waveguide Bridge Splice, Straight



Material	Hot dip galv steel	Design:	Bolt-on splice
Included:	plate and		plates
	hardw are		
Order	n/a	Mounts to:	12" and 24"
Seperately:			w aveguide
			bridge
			channel

Part #	Description	Weight (Lbs)
104351	Waveguide Bridge Splice Assembly, Straight	12.0

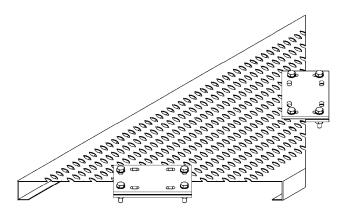
Waveguide Bridge Splice, 45 Degrees



Material Included:	Hot dip galv steel corner and hardw are	Design:	Bolt-on splice corner
Order	n/a	Mounts to:	24"
Seperately:			w aveguide
			bridge
			channel

Part #	Description	Weight (Lbs)
104350	Waveguide Bridge Splice Assemby, 45 degrees - 24"	34.9

Waveguide Bridge Splice, 90 Degrees

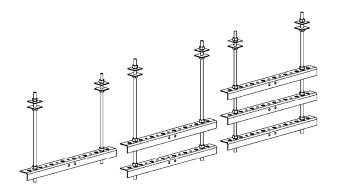


Material	Hot dip galv steel	Design:	Bolt-on splice
Included:	corner and		corner
	hardw are		
Order	n/a	Mounts to:	24"
Seperately:			w aveguide
			bridge
			channel

Part #	Description	Weight (Lbs)
103470	Waveguide Bridge Splice Assembly, 90 degrees - 24"	45.0



Waveguide Bridge Trapeze Kits



Material	Hot dip galv steel	Design:	4 and 8 hole
Included:	channel and		channel
	hardw are		design
Order	n/a	Mounts to:	w aveguide
Seperately:			bridge
			channel

Part #	Description	Weight (Lbs)
100905	4 Hole Trapeze Kit, Single	3.8
100906	4 Hole Trapeze Kit, Double	5.8
100907	4 Hole Trapeze Kit, Triple	7.1
100222	8 Hole Trapeze Kit, Single	5.1
100297	8 Hole Trapeze Kit, Double	8.3
100200	8 Hole Trapeze Kit, Triple	11.0

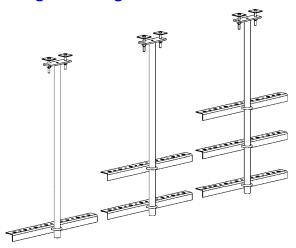
Material	Hot dip galv steel	Design:	8 hole design
Included:	channel and		w ith
	hardw are		adjustable
			levels
Order	n/a	Mounts to:	w aveguide
Seperately:			bridge
			channel

Part #	Description	Weight (Lbs)
101304	8 Hole Tree Bracket Kit, Single	6.2
101303	8 Hole Tree Bracket Kit, Double	8.8
101109	8 Hole Tree Bracket Kit, Triple	11.0

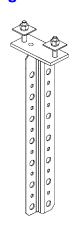
Material	Hot dip galv steel	Design:	8 and 14 hole
Included:	bracket and		design.
	hardw are		
Order	n/a	Mounts to:	w aveguide
Seperately:			bridge
			channel

Part #	Description	Weight (Lbs)
104349	8 Hole T-Line Bracket Kit for Waveguide Bridge	4.3
101053	14 Hole T-Line Bracket Kit for Waveguide Bridge	5.5

Waveguide Bridge Tree Bracket Kits

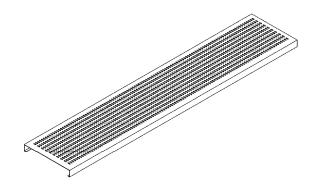


Waveguide Bridge T-Line Bracket Kits





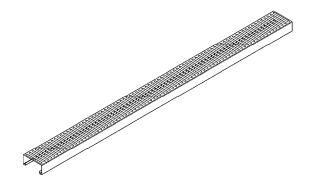
Grip Strut Waveguide Bridge Channel



Material	G90 galvanzied	Design:	Multi-diamond
Included:	channel		grip strut
Order	Posts and	Mounts to:	n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)
100908	Grip Strut Waveguide Bridge Channel, 12" x 10'- 1 1/2"	31.0
100129	Grip Strut Waveguide Bridge Channel, 24" x 10'	111.0

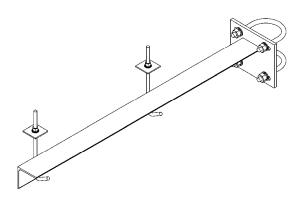
Grated Waveguide Bridge Channel



Material	G90 galvanized	Design:	Grated
Included:	channel		channel, 4"
			deep.
Order	Posts and	Mounts to:	n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)
100470	Grated Waveguide Bridge Channel, 9" x 10'	47.0
100221	Grated Waveguide Channel, 9" x 20'	112.0

Waveguide Bridge Support Kits

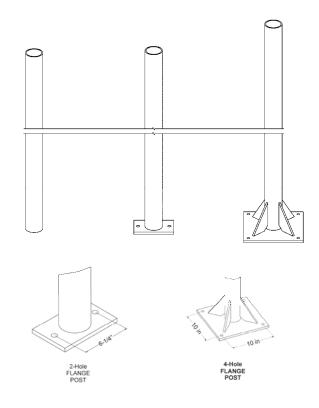


Material	Hot dip galv	Design:	Universal		
Included:	support and		design for		
	hardw are		bridge support		
Order	Posts and	Mounts to:	3-1/2" to 4-		
Seperately:	accessories		1/2" OD Pipe		
			columns		

Part #	Description	Weight (Lbs)
100909	Waveguide Bridge Support Kit, 18" Long. 3-1/2" OD	12.0
100199	Waveguide Bridge Support Kit, 36" Long. 3-1/2" OD	17.0
100999	Waveguide Bridge Support Kit, 36" Long. 4-1/2" OD	18.0



Waveguide Bridge Pipe Columns



Material	Hot dip galv	Design:	Support pipe
Included:	columns		with and
			w ithout base
			flanges
Order	Waveguide bridge	Mounts to:	n/a
Seperately:	accessories and		
	anchors		

Part #	Description	Weight (Lbs)	
Base Plat	Base Plate Post		
101270	Base Plate Pipe Column, 10-6" Long - 2 Hole	85.2	
101320	Base Plate Pipe Column, 14' Long - 2 Hole	111.8	
100265	Base Plate Pipe Column, 11' Long - 4 Hole	108.6	
101231	Base Plate Pipe Column, 15' Long - 4 Hole	139.0	
Direct Burial Post			
100454	3" Sch. 40 Galvanized Pipe - 10'-6"	80.0	
102455	3" Sch. 40 Galvanized Pipe - 12'-0"	91.0	
107670	3" Sch. 40 Galvanized Pipe - 14'-0".	106.0	
100198	3" Sch. 40 Galvanized Pipe - 16'-0"	121.0	

Pipe Caps

Material Hot dip galv pipe Design: Cap designed Included: cap to slip over 3-1/2" OD pipe

Order n/a Mounts to: n/a
Seperately:

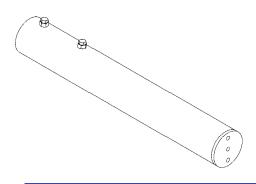
Part #	Description	Weight (Lbs)
100146	3" Pipe Cap	0.6

Material	Hot dip galv pipe	Design:	Bolt-on head
Included:	head and		for pipe
	hardw are		columns for
			24" extension.
Order	n/a	Mounts to:	3-1/2" OD Pipe
Seperately:			

Part #	Description	Weight (Lbs)
100961	Pipe Head, 24" Long	29.6



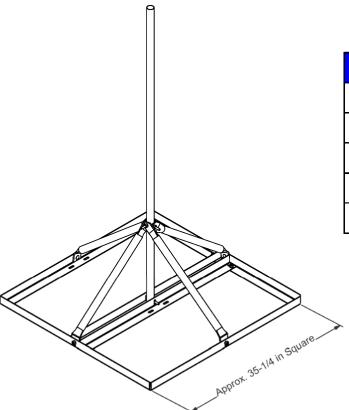
Pipe Head



Roof-Top Applications

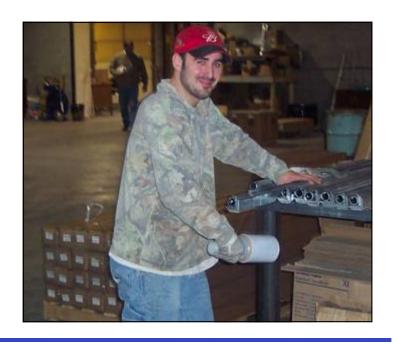


Non-Penetrating Flat Roof Mounts



Material	Pre galvanized	Design:	Designed for
Included:	mast, base and		DSS support
	hardw are		
Order	Rubber Mat	Mounts to:	n/a
Seperately:			

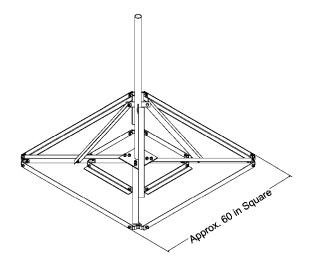
Part #	Description	Weight (Lbs)
103489	FRM Non-Penetrating Roof Mount (1.25" O.D. Tubing, 60" Overall Mast Height)	31.0
103490	FRM Non-Penetrating Roof Mount (1.50" O.D. Tubing, 30" Overall Mast Height)	29.0
103491	FRM Non-Penetrating Roof Mount (1.66" O.D. Tubing, 30" Overall Mast Height)	30.0
103492	FRM Non-Penetrating Roof Mount (2.375" O.D. Tubing, 30" Overall Mast Height)	32.0
103493	FRM Non-Penetrating Roof Mount (2.375" O.D. Tubing, 60" Overall Mast Height)	37.0

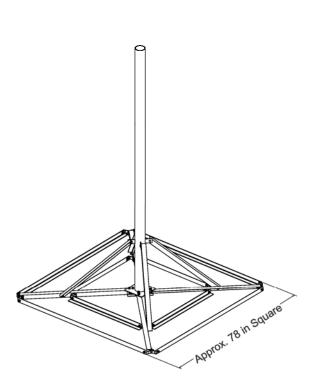


Roof-Top Applications



Non-Penetrating Flat Roof Mounts - Heavy Duty

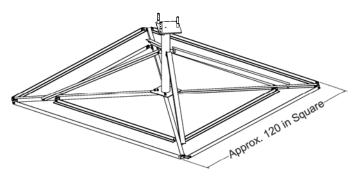




Material	Hot dip	Design:	Designed for
Included:	galvanized mast,		large
	base and		dish/antenna
	hardw are		support
Order	Rubber Mat	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)	
60" Square Footprint			
103798	JRM Non-Penetrating Roof Mount (2.375 OD	111.0	
	Tubing, 5' Overall Mast Height)		
107460	JRM Non-Penetrating Roof Mount (2.875 OD	121.0	
	Tubing, 5' Overall Mast Height)		
103799	JRM Non-Penetrating Roof Mount (2.375 OD	129.0	
	Tubing, 10' Overall Mast Height)		
103801	JRM Non-Penetrating Roof Mount (2.875 OD	150.0	
	Tubing, 10' Overall Mast Height)		
78" Square Footprint			
107146	BRM Non-Penetrating Roof Mount, 2-3/8" OD x	161.0	
	120" Pipe Mount		
107145	BRM Non-Penetrating Roof Mount, 3-1/2" OD x	200.0	
	120" Pipe Mount		
106913	BRM Non-Penetrating Roof Mount, 4-1/2" OD x	233.0	
	120" Pipe Mount		

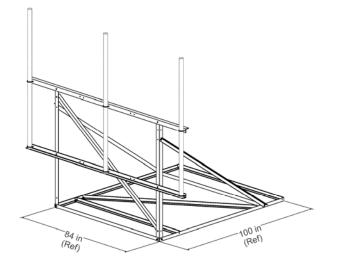
Non-Penetrating Flat Roof Mount for 25N



Material	Hot dip	Design:	Designed for
Included:	galvanized mast,		15N/20N/25N
	base and		support
	hardw are		
Order	Rubber Mat	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
102815	Non Penetrating Roof Top for 25N	287.6

Non-Penetrating Roof Frames

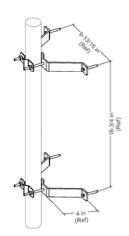


Material	Hot dip galv.	Design:	Single sector
Included:	frame, pipes and		roof mount
	hardw are		
Order	Rubber mats and	Mounts to:	n/a
Seperately:	pipe mounts		

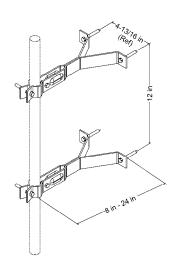
Part #	Description	Weight (Lbs)		
Non-Penetrating Roof Frame, 10'-6" Wide				
104126	Non-Penetrating Roof Frame, 10'-6". 2-3/8" OD pipe not included.	295.0		
107640	Non-Penetrating Roof Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	374.0		
104127	Non-Penetrating Roof Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included.	396.0		
104128	Non-Penetrating Roof Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included.	400.0		
104129	Non-Penetrating Roof Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included.	429.0		
Non-Pene	etrating Roof Frame, 12' Wide			
104130	Non-Penetrating Roof Frame, 12'-6". 2-3/8" OD pipe not included.	324.0		
104131	Non-Penetrating Roof Frame, 12'-6". Three 2-3/8" OD x 84" pipe mounts included.	403.0		
104132	Non-Penetrating Roof Frame, 12'-6". Three 2-3/8" OD x 108" pipe mounts included.	425.0		
104133	Non-Penetrating Roof Frame, 12'-6". Four 2-3/8" OD x 84" pipe mounts included.	429.0		
104134	Non-Penetrating Roof Frame, 12'-6". Four 2-3/8" OD x 108" pipe mounts included.	458.0		
Non-Pene	etrating Roof Frame, 15' Wide			
104135	Non-Penetrating Roof Frame, 15'. 2-3/8" OD pipe not included.	404.0		
104136	Non-Penetrating Roof Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included.	483.0		
104137	Non-Penetrating Roof Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included.	505.0		
104138	Non-Penetrating Roof Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included.	509.0		
104139	Non-Penetrating Roof Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included.	538.0		



Wall Mount Brackets



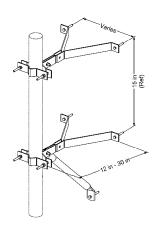
Part # 102643

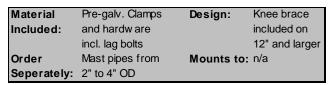


MaterialPre-galv. ClampsDesign:Knee braceIncluded:and hardwareincluded onincl. lag bolts12" and largerOrderMast pipes up toMounts to: n/aSeperately:1-3/4" OD

Part #	Description	Weight (Lbs)
102643	Double Wall Mount Kit, 4" Wide, Fits 1" O.D. to 2" O.D. Mast	2.1
102850	Double Wall Mount Kit, 8" - Standard, Fits 1.25" O.D. to 1.75" O.D. Mast	0.8
103024	Double Wall Mount Kit, 12" - Standard, Fits 1.25" O.D. to 1.75" O.D. Mast	4.0
104367	Double Wall Mount Kit, 18" - Standard, Fits 1.25" O.D. to 1.75" O.D. Mast	6.0
103026	Double Wall Mount Kit, 24" - Standard, Fits 1.25" O.D. to 1.75" O.D. Mast	7.0

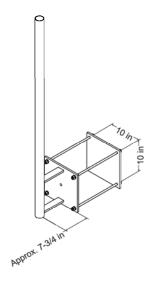
Wall Mount Brackets, Heavy Duty





Part #	Description	Weight (Lbs)
102986	Double Wall Mount Kit, 12" Wide, Fits 2" O.D. to 4" O.D. Mast	4.0
103025	Double Wall Mount Kit, 18" Wide, Fits 2" O.D. to 4" O.D. Mast	6.0
102987	Double Wall Mount Kit, 24" Wide, Fits 2" O.D. to 4" O.D. Mast	7.0
102791	Single Wall Mount Kit, 30" Wide, Fits 2" O.D. to 4" O.D. Mast	4.0

Universal Wall Mount

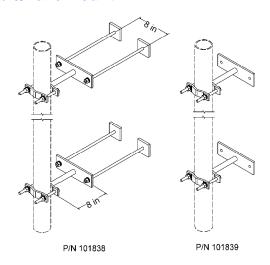


Material	Hot dip	Design:	Welded dual
Included:	galvanized w all		support arm
	mount and		w ith 2-3/8"
	hardw are for		OD mast pipe.
	hollow wall.		
Order	Wall anchors for	Mounts to:	Hollow or
Seperately:	solid w alls		solid w all

Part #	Description	Weight (Lbs)	
101842	Wall Mount Assembly, Hollow Walls (2-3/8"	68.0	
.0.0.2	OD x 0.154" WT x 63" Long)		
101843	Wall Mount Assembly, Solid Walls (2-3/8" OD x	43.0	
101043	0.154" WT x 63" Long)	45.0	
101844	Wall Mount Assembly, Hollow Walls (2-3/8"	70.0	
101044	OD x 0.154" WT x 72" Long)	70.0	
101845	Wall Mount Assembly, Solid Walls (2-3/8" OD x	46.0	
101043	0.154" WT x 72" Long)	-1 0.0	



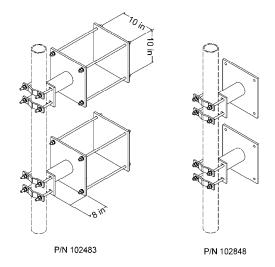
Gable/Eave Mount



Material	Hot dip	Design:	Welded
Included:	galvanized		brackets with
	brackets and		mast size up
	hardw are for		to 3-1/2" OD.
	hollow walls.		
Order	Pipe mast and	Mounts to:	Hollow or
Seperately:	solid w all		solid w all
	anchors		

Part #	Description	Weight (Lbs)
101838	Wall Mount Brackets for Hollow Walls. 1-1/2" to 3-1/2" OD. Kit of 2.	22.2
101839	Wall Mount Brackets for Solid Walls. 1-1/2" to 3-1/2" OD. Kit of 2.	13.1

Pole Wall Mount



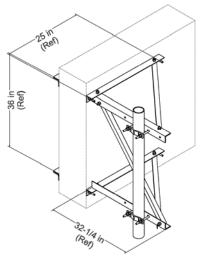
Material	Tw o hot dip	Design:	Welded dual
Included:	galvanized		level brackets.
	brackets and		4 bolt pattern.
	hardw are		
Order	Wall anchors for	Mounts to:	Hollow or
Seperately:	solid w alls		solid w all

Part #	Description	Weight (Lbs)
102483	Heavy Duty Wall Mount Brackets for Hollow Walls. 1-1/2" to 4-1/2" OD. Kit of 2.	112.0
102484	Heavy Duty Wall Mount Brackets for Solid Walls. 1-1/2" to 4-1/2" OD. Kit of 2.	64.0



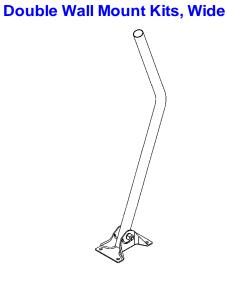
N.E. L. L. O. CORPORATION

Wall Mounts



Material	Hot dip galv	Design:	Variable mast
Included:	angles, clamps		pipe location.
	and hardware		2-7/8" to 5"
			OD
Order	Mast pipe and	Mounts to:	n/a
Seperately:	w all attachment		
	hardw are		

Part #	Description	Weight (Lbs)
102506	Pole Wall Mount Assembly	83.3



 Material
 Pow der coated
 Design:
 Universal

 Included:
 mast pipe, base
 design with

 plate and
 1.66" OD mast

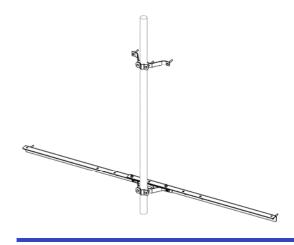
 hardware
 pipe.

 Order
 Wall anchor

 Seperately:
 Mounts to: n/a

Part #	Description	Weight (Lbs)
102342	Universal Wall Mount, 1.66" OD Mast Pipe	3.0

Double Wall Mount Kits, Standard

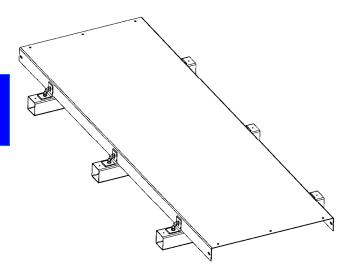


Material Included:	Galvanized steel support braces	Design:	Adjustable design with
iliciadea.	and connecting		two support
	hardw are.		locations
Order	Wall anchors and	Mounts to:	Gable/Eave
Seperately:	1-1/4" mast		location
	tubing.		

Part #	Description	Weight (Lbs)
102642	Adjustable Gable/Eave Mount (Adjusts 40"-60")	6.9



Roof-Top Coax Bridge Kits



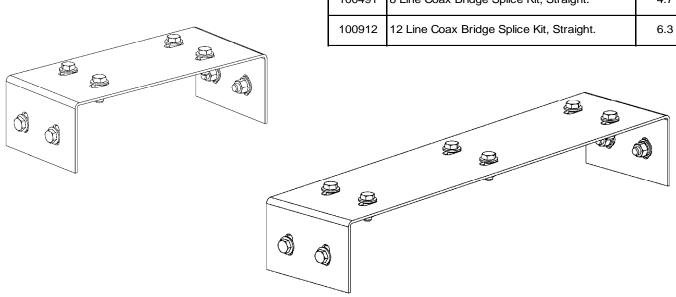
Material	Galv steel	Design:	4, 8, 12 run
Included:	channel, 3		version. Solid
	sleepers and		cover with
	hardw are		PVC sleepers
Order	n/a	Mounts to:	Non-
Seperately:			penetrating
			design

Part #	Description	Weight (Lbs)
100914	4 Line Coax Bridge Kit.	68.0
100477	8 Line Coax Bridge Kit.	103.0
100913	12 Line Coax Bridge Kit.	138.0

Coax Bridge Splice Kits, Straight

Material	Galv steel	Design:	4, 8, 12 run
Included:	channel and		version.
	hardw are		
Order	n/a	Mounts to:	Roof-top
Seperately:			bridge kit

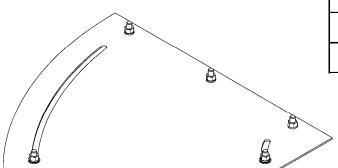
Part #	Description	Weight (Lbs)
101145	4 Line Coax Bridge Splice Kit, Straight.	2.9
100491	8 Line Coax Bridge Splice Kit, Straight.	4.7
100912	12 Line Coax Bridge Splice Kit, Straight.	6.3



Coax Bridge Splice Kits, 0 - 45 degrees

MaterialGalv steel spliceDesign:4, 8, 12 runIncluded:and hardwareversion.Ordern/aMounts to:Roof-topSeperately:bridge kit

Part #	Part # Description	
100947	4 Line Coax Bridge Splice Kit, 0 - 45 degrees.	3.3
100490	8 Line Coax Bridge Splice Kit, 0 - 45 degrees.	9.0
100948	12 Line Coax Bridge Splice Kit, 0 - 45 degrees.	17.6



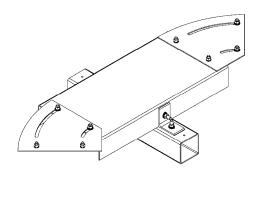
Coax Bridge Splice Kits, 0 - 90 degrees

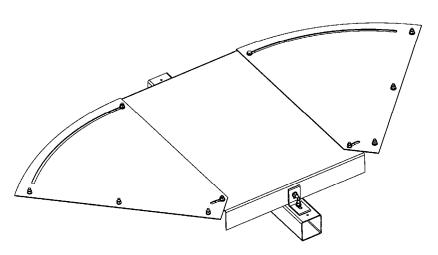
MaterialGalv steelDesign:4, 8, 12 runIncluded:channel andversion.

splices. Sleeper and hardware

Order n/a Mounts to: Roof-top Seperately: bridge kits

Part #	Description	Weight (Lbs)
101170	4 Line Coax Bridge Splice Kit, 0 - 90 degrees.	24.0
101139	8 Line Coax Bridge Splice Kit, 0 - 90 degrees.	45.4
101154	12 Line Coax Bridge Splice Kit, 0 - 90 degrees.	71.6

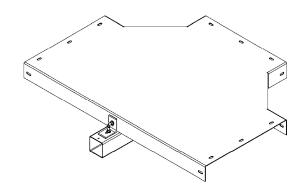






bridge kits

Coax Bridge Splice Kits, T-Splice

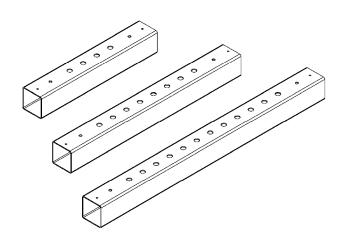


Material	Galv steel	Design:	4, 8, 12 run
Included:	channel and		version.
	splices. Sleeper		
	and hardw are		
Ordor	n/a	Mounto to	. Poof ton

Part #	Description	Weight (Lbs)
101167	4 Line Coax Bridge Splice Kit, T-Splice.	31.0
101140	8 Line Coax Bridge Splice Kit, T-Splice.	58.1
101164	12 Line Coax Bridge Splice Kit, T-Splice.	71.3

Seperately:

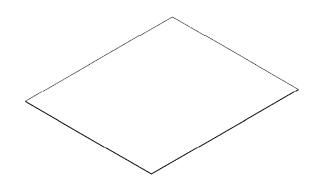
PVC Sleepers



Material	PVC sleeper	Design:	4, 8, 12 run
Included:			version.
Order	n/a	Mounts to:	Roof-top
Seperately:			bridge kits

Part #	Description	Weight (Lbs)
101057	4 Hole PVC Sleeper	1.8
100488	8 Hole PVC Sleeper	2.8
101092	12 Line PVC Sleeper	3.4

Rubber Mats



Material	Rubber mat	Design:	Helps to
Included:			protect roof
			surface
Order	n/a	Mounts to:	Roof-top
Seperately:			bridge kits and
			Non-pens.

Part #	Description	Weight (Lbs)
102758	Rubber Mat, 1/8" x 36" x 42"	7.3
101852	Rubber Mat, 1/4" x 4" x 10'	5.4
100557	Rubber Mat, 1/2" x 18" x 48"	19.5





Penetrating Tripod Mounts



Material	Pre galvanized	Design:	Various sizes,
Included:	tube legs,		fully
	corrosion resistint		assembled
	clamps and		
	hardw are		
Order	Mast pipe	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
102633	Penetrating Tripod Mount, 36"	7.0
102634	Penetrating Tripod Mount, 60"	12.0
102637	Penetrating Tripod Mount - 120"	27.0
105307	Penetrating Tripod Mount - 120", Fits up to 2-1/4" Tubing	30.0

Heavy Duty Penetrating Tripod Mount

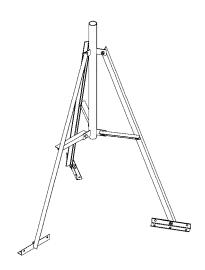


Material	Pre galvanized	Design:	Fully
Included:	tube legs,		assembled
	corrosion resistint		
	clamps and		
	hardw are		
Order	n/a	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
102657	Penetrating Tri-Mast Mount, 60"	7.0



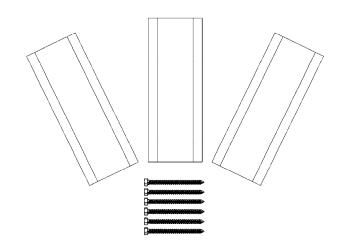
Penetrating Trimast Mounts



Material Included:	Galvanized steel support angles, support mast and hardw are.	Design:	Heavy duty design for larger antenna applications. 2" mounting pipe.
Order Seperately:	Roof anchors	Mounts to:	n/a

Part #	Description	Weight (Lbs)
106245	Penetrating Tripod Mount, 60" - Heavy Duty	42.0

Tri-Sector Mount

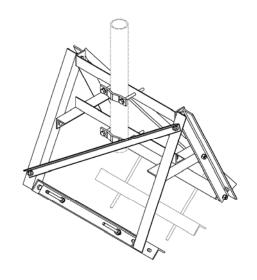


Material	Rubber pads,	Design:	Moisture/cushi
Included:	screws and glue		on barrier
			betw een
			mount and
			mounting
			surface.
Order	n/a	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
104104	Roof Pad kits	0.5

N. E. L. CORPORA

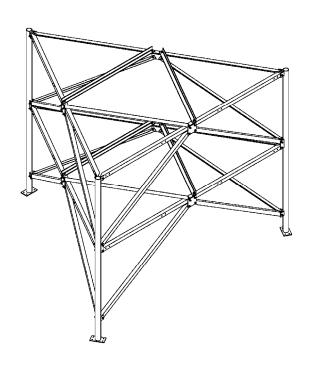
Pitch Pad Kit



Material	Hot dip	Design:	Supports 1-
Included:	galvanized angle		1/4" to 4-1/2"
	and hardw are		OD mast
			pipes.
Order	mast pipes and	Mounts to:	Flat or peaked
Seperately:	anchor hardware		roofs to 45
			degrees

Part #	Description	Weight (Lbs)
102712	Saw -Horse Penetrating Roofmount Assembly	120.9

Square Chimney Mount

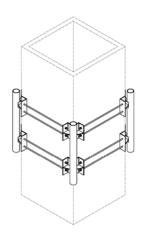


Material	Hot dip frame	Design:	13'-6" w ide
Included:	members and		face, 10' and
	hardw are		15' tall.
Order	pipe mounts and	Mounts to:	Roofs or
Seperately:	roof beams		platforms

Part #	Description	Weight (Lbs)
101252	Tri-Sector Rooftop Assembly, 10' Tall	923.3
104352	Tri-Sector Rooftop Assembly, 15' Tall	1370.0

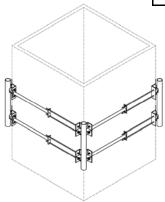


Round Chimney Mount

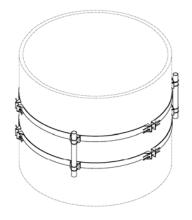


Material Included:	Hot dip galvanized pipe corners, threaded rod and hardw are.	Design:	Four 4-1/2" OD x 48" corner mounting pipes
Order Seperately:	Cross arms and pipe mounts	Mounts to:	Square or rectangular sections from 12" to 91"

Part #	Description	Weight (Lbs)
101268	Chimney Mount Assembly, square. 12" - 48" face.	465.6
102042	Chimney Mount Assembly, square. 48" - 91" Chimney.	605.4



Wall Anchor

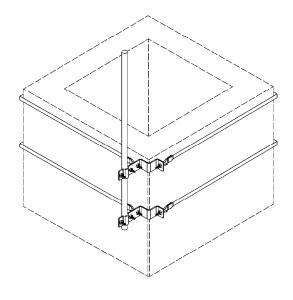


Material	Hot dip	Design:	Three 4-1/2"
Included:	galvanized pipe	OD x 48" 12	
	sectors, threaded		degree sector
	rod and		mounting
	hardw are.		pipes
Order	Cross arms and	Mounts to:	Diameters
Seperately:	pipe mounts		from 8' to 11'-
			6"

Part #	Description	Weight (Lbs)
102277	Chimney Mount Assembly, round. 8' - 11.5' diameter	1020.0

N E L L O CORPORATION

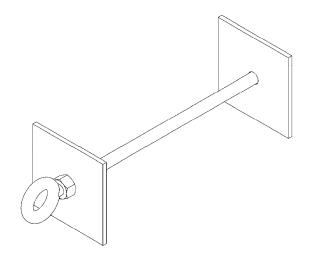
Light Duty Chimney Mount



Material	Pre-galvanized	Design:	Lightw eight
Included:	material and		design with
	hardw are.		tw o mast
			supports
Order	1-1/4" mast tubing	Mounts to:	Various
Seperately:			Chimney sizes
			up a 12'
			circumference
			/perimeter

Part #	Description	Weight (Lbs)
104760	Z-Type Chimney Mount for up to 1-1/2" Dia. Tubing	1.0

Penetrating Saw Horse Mount



Material	5/8" THD eye-bolt,	Design:	Threaded eye-
Included:	nuts and wall		bolt design
	plates.		allows allows
			for adjustable
			w all/roof
			thicknesses
Order	n/a	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
105010	Threaded Wall Anchor (5/8" x 18" Wall Anchor)	5.4



Nello Stackable Hangers



Material	Stainless steel	Design:	Stackable
Included:	hanger and latch		design
Order	n/a	Mounts to:	3/4" hole
Seperately:			

Part #	Description	Weight (Lbs)
100341	1-5/8" Nello Stackable Snap-In, 10 pack	2.0
100272	1-5/8" Nello Stackable Snap-In, 100 pack	20.0

Product Description

The Nello Patent Pending hanger is designed to attach and support a variety of brands of coaxial cable to support members .120" to .150" thick with 3/4" diameter holes. The unique design of the NelloTM hanger allows easy installation of the snap-in hanger first, which also provides easy installation of the coax. The NelloTM hanger is also stackable, reducing the need for additional support brackets.

- 1. Squeeze center tabs of the Nello[™] hanger together and insert into 3/4" hole of support member. Then squeeze center tabs at the opening to fully snap the hanger into the support member making sure both tabs are engaged securely. (see photos #1 and #2)
- Install coax into the Nello[™] hanger and latch retainer making sure that the retainer is pushed past the locking tab. (see photos #3 and #4)
- 3. To Stack, repeat steps #1 and #2 using the 3/4" hole on the retainer latch on the installed Nello[™] hanger. (see photos #5 and #6) Do not stack more than two 1-5/8" coaxial lines.













No Epokation

Snap-In Hangers



Material Included:	Stainless steel hanger.	Design:	One piece hanger design
Order Seperately:	n/a	Mounts to:	3/4" holes

Part #	Description	Weight (Lbs)
100715	1/2" Snap-In Hanger (10 pack)	0.7
100716	7/8" Snap-In Hanger (10 pack)	1.2
100717	1-1/4" Snap-In Hanger (10 pack)	1.3
100718	1-5/8" Snap-In Hanger (10 pack)	1.5
100719	2-1/4" Snap-ln Hanger (10 pack)	1.7

Material	Stainless steel	Design:	Bolt-on single
Included:	hanger and set		run hanger
	bolts		
Order	Hanger bracket	Mounts to:	7/16" hole
Seperately:	: kits		

Part #	Description	Weight (Lbs)
108318	1/2" Butterfly Hanger, Hardware Included (10	1.3
	pack)	
108319	7/8" Butterfly Hanger, Hardware Included (10	1.5
100313	pack)	1.5
109849	1-1/4" Butterfly Hanger, Hardware Included	1.1
109049	(10 pack)	1.1
108320	1-5/8" Butterfly Hanger, Hardware Included	1.8
100320	(10 pack)	1.0
109850	2-1/4" Butterfly Hanger, Hardware Included	1.5
109000	(10 pack)	1.5

Butterfly Hangers



Hanger Hardware Kits



Material	Stainless steel	Design:	Hardw are kit
Included:	bolt and washer		for hanger
	w / optional nut		attachment
Order	Hangers	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
100726	3/8" x 1/2" Fillister Head Screws and Lock	0.6
100720	Washers (10 Pack)	0.0
100727	3/8" x 3/4" Fillister Head Screws, Lock	0.6
100727	Washers, and Nuts (10 Pack)	0.0
100728	3/8" x 1" Fillister Head Screws, Lock	0.7
100720	Washers, and Nuts (10 Pack)	0.7



Lace-Up Hoisting Grips

 Material
 Tinned bronze
 Design:
 Mesh grip

 Included:
 grip, clip and tape
 w ith single eye support

 Order
 n/a
 Mounts to: n/a

 Seperately:
 N/a



Part #	Description	Weight (Lbs)
101259	Hoisting Grip to suit 1/2" cable - Lace Up	0.3
101260	Hoisting Grip to suit 7/8" cable - Lace Up	0.2
101261	Hoisting Grip to suit 1-1/4" cable - Lace Up	0.2
101262	Hoisting Grip to suit 1-5/8" cable - Lace Up	1.3
101263	Hoisting Grip to suit 2-1/4" cable - Lace Up	1.3

Pre-Laced Hoisting Grips

 Material
 Tinned bronze
 Design:
 Mesh grip

 Included:
 grip, clip and tape
 w ith single eye support

 Order
 n/a
 Mounts to: n/a

 Seperately:
 N/a



Part #	Description	Weight (Lbs)
101254	Hoisting Grip to suit 1/2" cable - Pre Laced	0.4
101255	Hoisting Grip to suit 7/8" cable - Pre Laced	0.5
101256	Hoisting Grip to suit 1-1/4" cable - Pre Laced	0.5
101257	Hoisting Grip to suit 1-5/8" cable - Pre Laced	1.3
101258	Hoisting Grip to suit 2-1/4" cable - Pre Laced	1.3

No. Epokation

Adapts

Design:

Stand-Off Adaptors, Universal



Material

Stainless steel

- management	Part #	Description	Weight (Lbs)
	100693	Stand-Off Adaptor, Universal, 1-1/2" - 3" OD (10 pack)	3.7
	100694	Stand-Off Adaptor, Universal, 2" - 3" OD (10 pack)	3.9
	100695	Stand-Off Adaptor, Universal, 3" - 4" OD (10 pack)	4.1
	100696	Stand-Off Adaptor, Universal, 4" - 5" OD (10 pack)	4.2
	100697	Stand-Off Adaptor, Universal, 5" - 6" OD (10 pack)	4.2
	100698	Stand-Off Adaptor, Universal, (10 pack)	2.9

Stand-Off Adaptors



Material	Stainless steel	Design:	Adapts
Included:	stand-off, avail.		hangers to
	w/o round		round
	member adapter		members
Order	Hangers	Mounts to:	1-1/2" to 6"
Seperately:			OD

Part #	Description	Weight (Lbs)
100701	Stand-off Adapter,3/8" Hardware, 1" - 2" OD (10 Pack)	3.6
100702	Stand-Off Adapter, 3/8" Hardw are, 2" - 3" OD (10 pack)	3.8
100703	Stand-Off Adapter, 3/8" Hardw are, 3" - 4" OD (10 pack)	4.0
100704	Stand-off Adapter, 3/8" Hardware, 4" to 5" OD (10 pack)	4.1
100705	Stand-Off Adapter, 3/8" Hardw are, 5" to 6" OD Members (10 pack)	4.1
100706	Stand-Off Adapter, 3/8" Hardware, (10 pack)	2.8



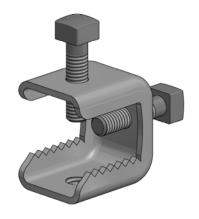
Angle Adaptors, Universal



Material	Stainless steel	Design:	Adapts
Included:	adapter,		hangers to
	hardw are and		angle
	insert		members
Order	n/a	Mounts to:	Up to 7/8"
Seperately:			angle

Part #	Description	Weight (Lbs)
104157	Angle Adapters, Universal (10 pack)	4.9

Angle Adaptors, 3/8" Tapped Hole



Material	Stainless steel	Design:	Adapts
Included:	adapter and		Hangers to
	hardw are		angle
			members
Order	Hangers	Mounts to:	Up to 7/8"
Seperately:			angle

Part #	Description	Weight (Lbs)
100669	Angle Adapter, 3/8" Tapped Hole (10 pack)	5.4



Round Member Adaptors



Coax Support Blocks, Double

Material	Polypropylene	Design:	Supports two
Included:	blocks		runs of coax
Order	Hanger kits	Mounts to:	3/8" threaded
Seperately:			rod



Part #	Description	Weight (Lbs)
101540	Coax Support Blocks for 1/2" corrugated	1.0
101540	coax, double. 10 pack	1.0
101544	Coax Support Blocks for 7/8" corrugated	1.2
101044	coax, double. 10 pack	1.2
101547	Coax Support Blocks for 1-1/4" corrugated	1 4
101047	coax, double. 10 pack	
101549	Coax Support Blocks for 1-5/8" corrugated	1.8
101049	coax, double. 10 pack	1.0

Coax Support Blocks Mounting Hardware



MaterialStainless steelDesign:Screw usedIncluded:hose clampfor tighteningOrderHangersMounts to: 1-1/2" to 6"Seperately:OD

Part #	Description	Weight (Lbs)
100721	Round Member Adapter, 1" - 2" (10 pack)	0.8
100722	Round Member Adapter, 2" - 3" (10 pack)	1.0
100723	Round Member Adapter, 3" - 4" (10 pack)	1.2
100724	Round Member Adapter, 4" - 5" (10 pack)	1.3
100725	Round Member Adapter, 5" - 6" (10 pack)	1.3

Coax Support Blocks, Single

Material	Polypropylene	Design:	Supports one
Included:	blocks		run of coax
Order	Hanger kits	Mounts to:	3/8" threaded
Seperately:			rod



Part #	Description	Weight (Lbs)
101555	Coax Support Blocks for 1/2" corrugated coax, single. 10 pack	0.5
101333	coax, single. 10 pack	0.5
101556	Coax Support Blocks for 7/8" corrugated	1.0
101330	coax, single. 10 pack	1.0
101557	Coax Support Blocks for 1-1/4" corrugated	1.3
101331	coax, single. 10 pack	1.5
101558	Coax Support Blocks for 1-5/8" corrugated	1.8
101330	coax, single. 10 pack	1.0

Material	3/8" galvanized	Design:	1,2 or 3 runs
Included:	threaded rod and		of coax
	hardw are		support
Order	Coax supports	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
104430	3/8" Galvanized Hardware Kit for one Coax	1.8
104430	Support Block. 10 pack.	1.0
104431	3/8" Galvanized Hardware Kit for two Coax	2.3
104431	Support Blocks. 10 pack.	2.0
104432	3/8" Galvanized Hardware Kit for three Coax	2.8
104432	Support Blocks. 10 pack.	2.0



Weight

cable sizes

Mounts to: Coax outer

Universal Weatherproofing



Universal Ground Kits



Clip On Ground Kits



Standard Ground Kits



Material	Butyl and vinyl.	Design:	Tape kit for
Included:	Five rolls butyl		multi-layer
	mastic, one roll		w rap
	2"x20' and tw o		
	rolls of 3/4"x44'		
	tape		
Order	n/a	Mounts to	: n/a
Seperately:			

rait#		Description			(Lbs)
100347	Universal Weather Proofing Kit				3.4
	Material Included:	Copper ground kit, lugs and w eatherproffing	Design:	de	niversal esign works ith most

	Seperately:	conductor
Part #	Description	Weight (Lbs)
100346	Universal Ground Kit, 5' lead w / unattached 1/4" & 3/8" tw o-hole lugs.	1.9

kit

n/a

Order

Material	Copper clip on	Design:	One-piece clip
Included:	strap, ground kit,		on style.
	lug and		Quick
	w eatherproofing		installation.
	kit		
Order	n/a	Mounts to:	Coax outer
Seperately:			conductor

Part #	Description	Weight (Lbs)
101626	Clip-on Ground Kit for 7/8" corrugated coax. 5'	1.4
101020	lead w ith unattached 3/8" tw o-hole lug.	1.4
101628	Clip-on Ground Kit for 1-1/4" corrugated coax.	
101028	5' lead w ith unattached 3/8" tw o-hole lug.	1.4
101630	Clip-on Ground Kit for 1-5/8" corrugated coax.	1.5
101030	5'lead w ith unattached 3/8" tw o-hole lug.	1.5
101632 Clip-on Ground Kit for 2-1/4" corrugated co		1.5
101032	5' lead w ith unattached 3/8" tw o-hole lug.	1.5

Material	Copper bolt on	Design:	Bolt on strap
Included:	strap, ground kit,		for secure
	lug and		connection.
	w eatherproofing		
	kit		
Order	n/a	Mounts to:	Coax outer
Seperately:			conductor

Part #	Description	Weight (Lbs)
108321	Bolt-on Ground Kit for 3/8" corrugated coax. 5'	1.8
100321	lead with unattached 3/8" two-hole lug.	1.0
108322	Bolt-on Ground Kit for 5/8" corrugated coax. 5'	
100322	lead with unattached 3/8" two-hole lug.	1.8
108323	Bolt-on Ground Kit for 7/8" corrugated coax. 5'	1.8
100323	lead with unattached 3/8" two-hole lug.	1.0
108324	Bolt-on Ground Kit for 1-5/8" corrugated coax.	1.8
100324	5' lead w ith unattached 3/8" tw o-hole lug.	1.0



4" Entry Panels

Material	Aluminum port,	Design:	Entry plates
Included:	caps and		with round
	mounting		ports
	hardw are.		
Order	4" boot	Mounts to:	Walls
Seperately:	assemblies		



Part #	Description	Weight (Lbs)
101350	Entry Panel, 1 port, 1x1, Standard	1.0
101351	Entry Panel, 1 port, 1x1, Compact	0.6
101352	Entry Panel, 2 port, 1x2	2.3
101353	Entry Panel, 3 port, 1x3	2.9
101354	Entry Panel, 4 port, 1x4	3.5
101355	Entry Panel, 4 port, 2x2, Standard	4.2
101356	Entry Panel, 4 port, 2x2, Compact	4.0
101357	Entry Panel, 6 port, 2x3	6.1
101358	Entry Panel, 6 port, 1x6	6.0
101359	Entry Panel, 8 port, 2x4, Standard	6.0
101360	Entry Panel, 8 port, 2x4, Large	6.0
101361	Entry Panel, 9 port, 3x3	7.1
101362	Entry Panel, 10 port, 2x5	7.4
101363	Entry Panel, 12 port, 3x4, Standard	8.5
101364	Entry Panel, 12 port, 3x4, Large	7.0
101365	Entry Panel, 12 port, 2x6	0.2
101366	Entry Panel, 16 port, 4x4	9.1
101367	Entry Panel, 18 port, 3x6	13.0
101368	Entry Panel, 20 port, 4x5	11.0
101369	Entry Panel, 24 port, 4x6	15.8



Part #	Description	Weight (Lbs)
101439	4" Boot Assembly, cushion not included	1.3

Material	EPDM rubber boot	Design:	Compression
Included:	and two hose		boot kit for
	clamps		aluminum
			entry panels
Order	4" entry panels	Mounts to:	4" engtry
Seperately:	and cushion		panels
	insert		



4" Boot Kits

Material	EPDM rubber	Design:	Compression
Included:	boot, cushion and		boot kit for
	tw o hose clamps		aluminum
			entry panels
Order	4" entry panels	Mounts to:	4" engtry
Seperately:			panels



Part #	Description	Weight (Lbs)
101377	Boot Assembly Kit, 4" w / 1 Hole for 1/2" corrugated coax	1.6
101378	Boot Assembly Kit, 4" w / 2 Holes for 1/2" corrugated coax	1.6
101379	Boot Assembly Kit, 4" w / 3 Holes for 1/2" corrugated coax	1.6
101380	Boot Assembly Kit, 4" w / 4 Holes for 1/2" corrugated coax	1.6
101381	Boot Assembly Kit, 4" w / 5 Holes for 1/2" corrugated coax	1.6
101382	Boot Assembly Kit, 4" w / 1 Hole for 1/2" flex coax	1.6
101383	Boot Assembly Kit, 4" w / 2 Holes for 1/2" flex coax	1.6
101384	Boot Assembly Kit, 4" w / 3 Holes for 1/2" flex coax	1.6
101385	Boot Assembly Kit, 4" w / 4 Holes for 1/2" flex coax	1.6
101386	Boot Assembly Kit, 4" w / 1 Hole for 5/8" corrugated coax	1.6
101387	Boot Assembly Kit, 4" w / 2 Holes for 5/8" corrugated coax	1.6
101388	Boot Assembly Kit, 4" w / 3 Holes for 5/8" corrugated coax	1.6
101389	Boot Assembly Kit, 4" w / 1 Hole for 7/8" corrugated coax	1.6
101390	Boot Assembly Kit, 4" w / 2 Holes for 7/8" corrugated coax	1.6
101391	Boot Assembly Kit, 4" w / 3 Holes for 7/8" corrugated coax	1.6
101392	Boot Assembly Kit, 4" w / 4 Holes for 7/8" corrugated coax	1.6
101393	Boot Assembly Kit, 4" w / 1 Hole for 1-1/4" corrugated coax	1.6
101394	Boot Assembly Kit, 4" w / 1 Hole for 1-5/8" corrugated coax	1.6
101395	Boot Assembly Kit, 4" w / 1 Hole for 2-1/4" corrugated coax	1.6



Boot Inserts

Material	EPDM rubber	Design:	Compression
Included:	boot, cushion and		boot kit for
	tw o hose clamps		aluminum
			entry panels
Order	4" entry panels	Mounts to:	4" engtry
Seperately:			panels



Boot Insert Plugs

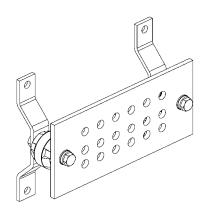
Material	EPDM rubber plug	Design:	Plugs for
Included:			unused insert
			holes
Order	Boot inserts or	Mounts to:	Boot inserts
Seperately:	assemblies		

Part #	Description	Weight (Lbs)
101495	Boot Insert Plug for 1/2" corrugated coax	0.1
101499	Boot Insert Plug for 5/8" corrugated coax	0.1
101500	Boot Insert Plug for 7/8" corrugated coax	0.2
101503	Boot Insert Plug for 1-1/4" corrugated coax	0.4
101505	Boot Insert Plug for 1-5/8" corrugated coax	0.7

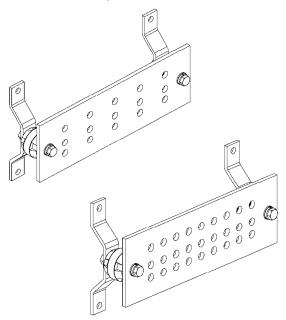


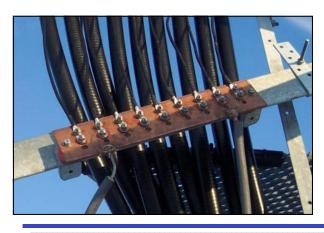
Part #	Description	Weight (Lbs)
101441	Boot Insert, Blank (no holes)	0.4
101447	Boot Insert with 1 Hole for 1/2" corrugated coax	0.4
101448	Boot Insert with 2 Holes for 1/2" corrugated coax	0.4
101449	Boot Insert with 3 Holes for 1/2" corrugated coax	0.4
101450	Boot Insert with 4 Holes for 1/2" corrugated coax	0.4
101451	Boot Insert with 5 Holes for 1/2" corrugated coax	0.4
101452	Boot Insert with 1 Hole for 1/2" flex coax	0.4
101453	Boot Insert with 2 Holes for 1/2" flex coax	0.4
101454	Boot Insert with 3 Holes for 1/2" flex coax	0.4
101455	Boot Insert with 4 Holes for 1/2" flex coax	0.4
101464	Boot Insert with 1 Hole for 5/8" corrugated coax	0.4
101465	Boot Insert with 2 Holes for 5/8" corrugated coax	0.4
101466	Boot Insert with 3 Holes for 5/8" corrugated coax	0.4
101467	Boot Insert with 4 Holes for 5/8" corrugated coax	0.4
101469	Boot Insert with 1 Hole for 7/8" corrugated coax	0.4
101470	Boot Insert with 2 Holes for 7/8" corrugated coax	0.3
101471	Boot Insert with 3 Holes for 7/8" corrugated coax	0.3
101472	Boot Insert with 4 Holes for 7/8" corrugated coax	0.2
101480	Boot Insert with 1 Hole for 1-1/4" corrugated coax	0.3
101482	Boot Insert with 1 Hole for 1-5/8" corrugated coax	0.3
101483	Boot Insert with 1 Hole for 2-1/4" corrugated coax	0.2

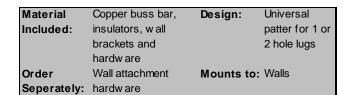
Buss Bar Kits, 1/4" x 4" x 9"



Buss Bar Kits, 1/4" x 4" x 12"







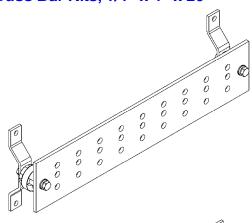
Part #	Description	Weight (Lbs)	
Bare Cop	per		
100684	1/4" x 4" x 9" Copper Buss Bar Kit, 18 holes.	3.4	
100662	1/4" x 4" x 9" Copper Buss Bar, 18 holes. Bar only.	2.9	
Tinned C	Tinned Copper		
102280	1/4" x 4" x 9" Tinned Copper Buss Bar Kit, 18 holes.	3.4	
104420	1/4" x 4" x 9" Tinned Copper Buss Bar, 18 holes. Bar only.	2.7	

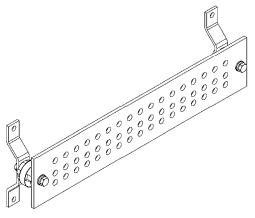
Material	Copper buss bar,	Design:	Universal
Included:	insulators, wall		patter for 1 or
	brackets and		2 hole lugs.
	hardw are		15 or 27 hole
			design.
Order	Wall attachment	Mounts to:	Walls
Seperately:	hardw are		

Part #	Description	Weight (Lbs)
Bare Cop	per	
104421	1/4" x 4" x 12" Copper Buss Bar Kit, 15 holes.	4.4
104422	1/4" x 4" x 12" Copper Buss Bar, 15 holes. Bar only.	3.7
104423	1/4" x 4" x 12" Copper Buss Bar Kit, 27 holes.	4.2
104114	1/4" x 4" x 12" Copper Buss Bar, 27 holes. Bar only.	3.5
Tinned C	opper	
104424	1/4" x 4" x 12" Tinned Copper Buss Bar Kit, 15 holes.	4.4
104425	1/4" x 4" x 12" Tinned Copper Buss Bar, 15 holes - Bar only.	3.7
104426	1/4" x 4" x 12" Tinned Copper Buss Bar Kit, 27 holes.	4.2
104427	1/4" x 4" x 12" Tinned Copper Buss Bar, 27 holes- Bar only.	3.5



Buss Bar Kits, 1/4" x 4" x 20"



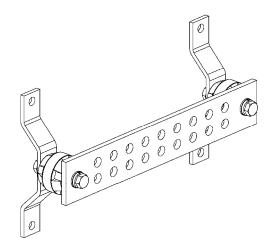


Material	Copper buss bar,	Design:	Universal
Included:	insulators, wall		pattern for 1
	brackets and		or 2 hole lugs.
	hardw are		27 or 51 hole
			design.
Order	Wall attachment	Mounts to:	Walls
Seperately:	hardw are		

Part #	Description	Weight (Lbs)
Bare Cop	per	
100686	1/4" x 4" x 20" Copper Buss Bar Kit, 27 holes.	6.8
100661	1/4" x 4" x 20" Copper Buss Bar, 27 holes. Bar only.	6.4
100685	1/4" x 4" x 20" Copper Buss Bar Kit, 51 holes.	6.5
100663	1/4" x 4" x 20" Copper Buss Bar, 51 holes. Bar only.	6.4
Tinned C	opper	
102281	1/4" x 4" x 20" Tinned Copper Buss Bar Kit, 27 holes.	6.8
104428	1/4" x 4" x 20" Tinned Copper Buss Bar, 27 holes - Bar only.	6.1
102282	1/4" x 4" x 20" Tinned Copper Buss Bar Kit, 51 holes.	6.5
104429	1/4" x 4" x 20" Tinned Copper Buss Bar, 51 holes - Bar only.	5.8



Buss Bar Kits, 1/4" x 2" x 12"



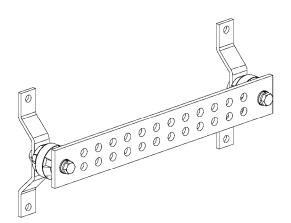
 Material
 Copper buss bar, insulators, wall strackets and hardware
 Design: 1" hole spacing.

 Order
 Wall attachment Wounts to: Walls

 Seperately:
 hardware

Part #	Description	Weight (Lbs)	
Bare Cop	per		
101639	1/4" x 2" x 12" Copper Buss Bar Kit, 18 hole.	2.4	
101640	1/4" x 2" x 12" Copper Buss Bar, 18 hole. Bar only.	1.7	
Tinned C	Tinned Copper		
101641	1/4" x 2" x 12" Tinned Copper Buss Bar Kit, 18 hole.	2.4	
101642	1/4" x 2" x 12" Tinned Copper Buss Bar, 18 hole. Bar only.	1.7	

Buss Bar Kits, 1/4" x 2" x 15"



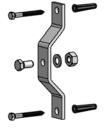
Material Copper buss bar, Design: 1" hole Included: insulators, wall spacing. brackets and hardware

Order Wall attachment Mounts to: Walls
Seperately: hardware

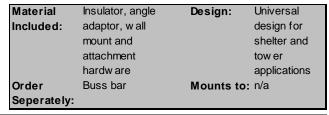
Part #	Description	Weight (Lbs)	
Bare Cop	per		
101648	1/4" x 2" x 15" Copper Buss Bar Kit, 24 hole.	2.8	
101649	1/4" x 2" x 15" Copper Buss Bar, 24 hole. Bar only.	2.1	
Tinned Copper			
101650	1/4" x 2" x 15" Tinned Copper Buss Bar Kit, 24 hole.	2.8	
101651	1/4" x 2" x 15" Tinned Copper Buss Bar, 24 hole. Bar only.	2.1	

Universal Buss Bar Attachment Kit





Non-Insulated Shelter



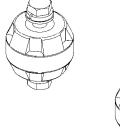
Part #	Description	Weight (Lbs)
101672	Universal Buss Bar Hardw are Kit (2 required for each buss bar)	2.1
	. 5. 545 2455 24.,	

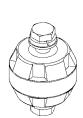




Insulated Tower

Buss Bar Insulators

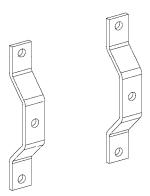




Material	Pair of insulators	Design:	n/a
Included:	w ith stainless		
	steel attachment		
	hardw are		
Order	Buss bar and	Mounts to:	n/a
Seperately:	attachments.		

Part #	Description	Weight (Lbs)
104418	Buss Bar Insulator Kit, 2 pack Assembly	0.5

Buss Bar Wall Brackets



Seperately:		mounts to.	VValio
Order	brackets Buss bar and	Mounts to:	Walls
Included:	or stainless steel		
Material	Pair of aluminum	Design:	n/a

Part #	Description	Weight (Lbs)
104419	Buss Bar Mounting Bracket Kit, 2 Pack	0.3
104419	Assembly	0.3

N E L L D

Ground Clamps / Kits



P/N 101972



P/N 101973



P/N 101974

Weight Part # Description (Lbs) **Ground Kits** Anchor Wire grounding Kit (3 Anchors) -102777 25.0 Galvanized Rods (For Use w/N-Series 102779 25N/45N/55N/65N Base Grounding Kit 18.0 **Ground Clamps** 101972 Ground Rod to Copper Wire Clamp 0.5 101973 0.3 Ground Wire to Guy Cable Clamp Ground Wire Clamp #2 or #1 (Includes 5/16" x 101974 0.5 2" bolt for tow er connection) Ground Wire Clamp #0 or #2/0 (Includes 5/16" 101975 0.6 x 2" bolt for tow er connection) Guy Wire Ground Clamp (for use with 3/16" -102776 0.0 1/2" w ire)

Grounding Rods



Ground Wire

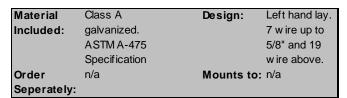


Part #	Description	Weight (Lbs)
101966	5/8" x 8' Copperclad Ground Rod	8.0
101967	5/8" x 10' Copperclad Ground Rod	10.0
101968	3/4" x 10' Copperclad Ground Rod	12.0
101969	3/4" x 10' Galvanized Ground Rod	12.0

Part #	Description	Weight/1,000' (Lbs)
101959	#10 Bare Copper Ground Wire	31.0
101960	#4 Bare Copper Ground Wire	126.3
101961	Ground Wire, # 6 Stranded - Green Jacket	81.0
101962	#2 Bare Copper Ground Wire	200.9
101047	#2 Bare Solid Tinned	200.9
101963	#1/0 Bare Copper Ground Wire	319.5
101964	#2/0 Bare Copper Ground Wire	402.8
101965	#4/0 Bare Copper Ground Wire	640.5
101970	2" Copper Ground Flat Strap - 2" Wide x 0.016" thick	124.0
101971	4" Copper Ground Flat Strap - 4" Wide x 0.016" Thick.	248.1

EHS Cable





Part #	Description	Weight/1,000' (Lbs)	Breaking Strength (Lbs)
102148	3/16" EHS Guy Cable (LHL)	72.9	3,990
102474	1/4" EHS Guy Cable (LHL)	93.8	6,740
101043	5/16" EHS Guy Cable (LHL)	205.0	11,200
102965	3/8" EHS Guy Cable (LHL)	273.0	15,400
100581	7/16" EHS Guy Cable (LHL)	399.0	20,800
100647	1/2" EHS Guy Cable (LHL)	517.0	26,900
100582	9/16" EHS Guy Cable (LHL)	671.0	35,000
100583	5/8" EHS Guy Cable (LHL)	796.0	42,400
104509	11/16" EHS Guy Cable (LHL)	1000.0	42,400
101016	3/4" EHS Guy Cable (LHL)	1155.0	58,300
102430	7/8" EHS Guy Cable (LHL)	1581.0	79,700
102431	1" EHS Guy Cable (LHL)	2073.0	104,500

Part #	Description	Weight/1,000' (Lbs)	Breaking Strength (Lbs)
102635	1/8" Guy Wire 6-20 Vinyl Coated, 1,000'	30.0	3,990
103761	3/16" EHS Guy Cable (LHL), 500'	364.5	3,990
102823	3/16" EHS Guy Cable (LHL), 1000'	729.0	3,990
103759	1/4" EHS Guy Cable (LHL), 500'	46.9	6,740



Thimbles

 Material
 Hot dip
 Design:
 Heavy duty

 Included:
 galvanized thimble

 Order
 n/a
 Mounts to: n/a

 Seperately:



Part #	Description	Weight (Lbs)
102766	1/4" Thimble, Standard	0.1
103167	1/4" Thimble, Heavy Duty	0.1
101039	5/16" Thimble, Heavy Duty	0.1
102756	3/8" Thimble, Heavy Duty	0.2
102772	7/16" Thimble, Heavy Duty	0.3
100593	1/2" Thimble, Heavy Duty	0.5
101048	9/16" Thimble, Heavy Duty	0.5
100594	5/8" Thimble, Heavy Duty	0.8
100595	3/4" Thimble, Heavy Duty	1.6
102435	7/8" Thimble, Heavy Duty	1.8
102436	1" Thimble, Heavy Duty	3.1

Cable Clips

Material	Hot dip galv.	Design:	Malleable or
Included:	Base, u-bolt and		forged base
	hardw are		
Order	n/a	Mounts to	: EHS cable
Seperately			



Part #	Description	Weight (Lbs)
Malleable	Base	
102767	3/16" Cable Clamp, Malleable	0.1
102774	1/4" Cable Clamp, Malleable	0.2
Forged B	ase	
102816	3/16" Cable Clamp, Forged	0.9
101042	5/16" Cable Clamp, Forged	0.3
104497	3/8" Cable Clamp, Forged	0.5
103137	7/16" Cable Clamp, Forged	0.8
103138	1/2" Cable Clamp, Forged	0.1
103139	9/16" Cable Clamp, Forged	1.1
103140	5/8" Cable Clamp, Forged	1.1
104498	3/4" Cable Clamp, Forged	1.4



Shackles

Shackle, thin Material Included:

head bolt, nut and

Forged Design:

cotter pin

shackle with bolt-type

anchor

Order n/a

Seperately:

Mounts to: n/a



Part #	Description	Weight (Lbs)	Inside Width at Pin	Pin Dia.	Breaking Load (Lbs)
100950	1/4" Shackle	0.1	1/2"	5/16"	5,000
101040	3/8" Shackle	0.3	5/8"	7/16"	7,500
100759	1/2" Shackle	0.8	13/16"	5/8"	20,000
100596	5/8" Shackle	1.7	1-1/6"	3/4"	32,500
100597	3/4" Shackle	2.7	1-1/4"	7/8"	47,500
101017	7/8" Shackle	4.0	1-7/16"	1"	65,000
102438	1" Shackle	6.4	1-11/16"	1-1/8"	85,000



Turnbuckle (Jaw-Jaw)



 Material
 Glavanized
 Design:
 Jaw -Jaw

 Included:
 turnbuckle
 design. 12" to 18" of adjustment

 Order
 n/a
 Mounts to: n/a

 Seperately:

Part #	Description	Weight (Lbs)	Pin Dia.	Breaking Load (Llbs)
104506	1/2" x 12" Jaw - Jaw Turnbuckle	2.4	3/8	11,000
102968	5/8" x 12" Jaw - Jaw Turnbuckle	3.9	1/2	17,500
100590	3/4" x 12" Jaw - Jaw Turnbuckle	6.6	5/8	26,000
100591	7/8" x 12" Jaw - Jaw Turnbuckle	8.2	3/4	36,000
100592	1" x 12" Jaw - Jaw Turnbuckle	12.2	7/8	50,000
104508	1-1/4" x 12" Jaw -Jaw Turnbuckle	20.6	1 1/8	76,000
102977	1-1/2" x 18" Jaw - Jaw Turnbuckle	36.8	1 3/8	107,000

Turnbuckle (Jaw-Eye)



MaterialGalvanizedDesign:Jaw -EyeIncluded:turnbuckledesign. 6" -18" of
adjustmentOrdern/aMounts to: n/aSeperately:

Part #	Description	Weight (Lbs)	Pin Dia.	Breaking Load (Llbs)
101041	3/8" x 6" Jaw - Eye Turnbuckle	0.8	5/16	6,000
102473	1/2" x 12" Jaw - Eye Turnbuckle	2.1	3/8	11,000
102775	5/8" x 12" Jaw - Eye Turnbuckle	3.6	1/2	17,500
104499	3/4" x 18" Jaw - Eye Turnbuckle	7.0	5/8	26,000
102837	7/8" x 12" Jaw to Eye Turnbuckle	8.4	3/4	36,000
104500	7/8" x 18" Jaw - Eye Turnbuckle	9.8	3/4	36,000
104501	1" x 18" Jaw - Eye Turnbuckle	13.3	1 1/8	50,000
101018	1-1/4" x 18" Jaw - Eye Turnbuckle	24.2	1 1/8	76,000



Turnbuckle (Eye-Eye)



MaterialGalvanizedDesign:Eye-EyeIncluded:turnbuckledesign. 6" -12" of
adjustmentOrdern/aMounts to:n/aSeperately:

Part #	Description	Weight (Lbs)	Pin Dia.	Breaking Load (Llbs)
102150	3/8" x 6" Eye-to-Eye Turnbuckle	0.8	5/16	6,000
102817	1/2" x 12" Eye-Eye Turnbuckle	2.1	3/8	11,000
103770	5/8" x 12" Eye-to-Eye Turnbuckle	3.4	1/2	17,500



Dead-End Grips

MaterialGalvanizedDesign:n/aIncluded:preformOrdern/aMounts to:EHS cableSeperately:



Part #	Description	Weight (Lbs)
102149	3/16" Dead End Grip	0.3
102755	1/4" Dead End Grip	0.5
102770	5/16" Dead End Grip	0.8
104518	3/8" Dead End Grip	1.3
100584	7/16" Dead End Grip	1.9
100648	1/2" Dead End Grip	3.2
100585	9/16" Dead End Grip	4.8
100586	5/8" Dead End Grip	6.5
104519	11/16" Dead End Grip	10.1
102974	3/4" Dead End Grip	11.0
102976	7/8" Dead End Grip.	15.0

End Sleeve

Material	Hot dip	Design:	n/a
Included:	galvanized end		
	sleeve		
Order	n/a	Mounts to:	EHS cable
Seperately:			



Part #	Description	Weight (Lbs)
102749	3/16" End Sleeve	0.1
102846	1/4" End Sleeve	0.1
102847	5/16" End Sleeve	0.1
102969	3/8" End Sleeve	0.1
100587	7/16" End Sleeve	0.1
100649	1/2" End Sleeve	0.1
100588	9/16" End Sleeve	0.1
100589	5/8" End Sleeve	0.2
106762	11/16" End Sleeve	0.1
102975	3/4" End Sleeve	0.2
102433	7/8" End Sleeve	0.2



Porcelain Guy Wire Insulators



Material	Porcelain	Design:	n/a
Included:	insulator. Also		
	know as johnny		
	ball		
Order	n/a	Mounts to:	EHS cable
Seperately:			

Part #	Description	Weight (Lbs)
102153	502 Porcelain Insulator (10,000#)	1.1
102154	504 Porcelain Insulator (12,000#)	1.7
102155	506 Porcelain Insulator (20,000#)	4.3

Base Insulators



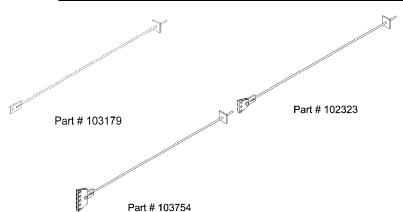
Material	Base insulator.	Design:	n/a
Included:			
Order	n/a	Mounts to:	Tow er Base
Seperately:			

Part #	Description	Weight (Lbs)
102464	A4197L Base Insulator	35.0



Guy Anchor Kits

Part #	Description	Price	Weight	Length	Turnbuck	de Range	# of	Tensile
			(Lbs)	(Ft)	Min.	Max.	Holes	Capacity (Kips)
103179	Guy Anchor Weldment, 5/8", 3/4" and 7/8" Turnbuckles. 1-Hole, 7' Long	\$50.00	12.1	7.0	5/8"	7/8"	1	8.8
102323	Guy Anchor Assembly, 3/8" and 1/2" Turnbuckles. 3-Hole, 7' Long	\$72.00	15.3	7.0	3/8"	1/2"	3	8.8
103754	Guy Anchor Assembly, 3/8" and 1/2" Turnbuckles. 5-Hole, 7' Long	\$75.00	18.2	7.0	3/8"	1/2"	5	8.8

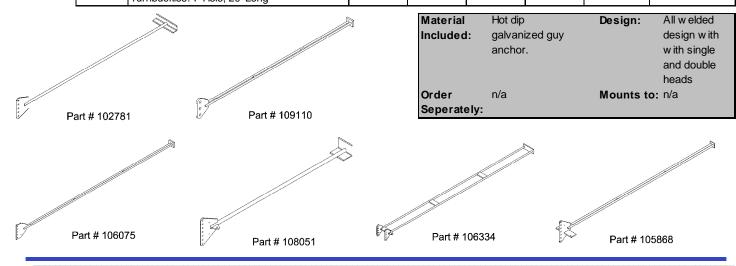


Material Hot dip Single rod Design: Included: galvanized guy design with anchor, equalizer bolt-on plates and equalizer hardware. plates Order n/a Mounts to: n/a Seperately:

Guy Anchors

Note: Allow able tensile strengths are based on AISC-ASD Steel Construction Manual and **include a 1/3 increase in allow ble stress**.

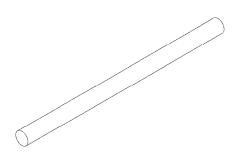
Part #	Description	Weight	Length	Turnbuckle Range		# of	Tensile
		(Lbs)	(Ft)	Min.	Max.	Holes	Capacity (Kips)
102781	Guy Anchor Weldment, 1/2", 5/8" and 3/4" Turnbuckles. 5-Hole, 7' Long	29.0	7.0	1/2"	3/4"	5	22.6
109110	Guy Anchor Weldment, 1-1/4" and 1-1/2" Turnbuckles. 3-Hole, 10' Long	85.0	10.0	1-1/4"	1-1/2"	3	45.2
106075	Guy Anchor Weldment, 5/8" and 3/4" Turnbuckles. 5-Hole, 12.5' Long	86.7	12.5	5/8"	3/4"	5	45.2
108051	Guy Anchor Weldment, 7/8" and 1" Turnbuckles. 7-Hole, 10' Long	209.0	10.0	7/8"	1"	7	159.0
106334	Guy Anchor Weldment, Double Head, 7/8", 1" and 1-1/4" Turnbuckles. 10-Hole, 20' Long	456.0	20.0	7/8"	1-1/4"	10	192.4
105868	Guy Anchor Weldment, 1-1/4" and 1-1/2" Turnbuckles, 7-Hole, 20' Long	592.0	20.0	1-1/4"	1-1/2"	7	251.3



Guy Cable & Materials

No E La Lion

Anchor Accessories

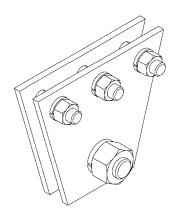


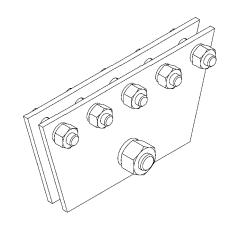
U	⚠ WARNING ® ଛ ଛ °
	This structure must be installed, climbed, modified, and dismantled only by a professional tower installation company. Climbing or working on this structure is dangerous and can cause serious injury or death.
	 Follow all safety instructions provided with structure. Be sure you read and understand all safety information. Favor de seguir rodus las instrucciones de seguirdad que se suministran con la estructura. Favor de asegurar que les y comprende toda la información de seguirarmición de seguiramición de seguiran.
	 Suivaz toutes les indications de sécurité relatives à cette structure. Lisez avec attention et comprenez tous les renseignements de sécurité.
	 Alle mitgelieferten Sicherheitsanweisungen befolgen, Sicherstellen, daß Sie alle Sicherheitshinweise gelesen und verstanden haben.
	This sign must be attached in a prominent position on the structure to be easily seen by any person attempting to climb this structure. Attach during installation, and keep on the structure for the life of the structure.
	If this structure is disposed of, this sign and all other sofety information must be provided to the new owner. If this sign should become detoced in any way, contact NELLO CORP, for immediate replacement.
_	NELLO CORP., P.O. Box 376, Nappanee, IN 46550, U.S.A. • Phone: 800-806-3556 • Fax: 574-773-5840

Material	Hot dip	Design:	Single rod
Included:	galvanized guy		design with
	anchor.		with welded-
			on equalizer
			plate
Order	n/a	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
102783	3/4" x 12" Pier Pin	1.5
102754	1/2" X 12" Base Bolt Assembly. Includes hook bolt and two nuts (A36)	0.8
102151	Turnbuckle Safety Kit, Single Anchor (3/8" to 7/8" Turnbuckles)	1.3
102465	Anti-Climb Warning Sign	0.1

Part #	Description	Weight	Turnbuckle Range		# of	Capacity	
Fail #	Description	(Lbs)	Min.	Max.	Holes	(Kips)	
103766	3-Hole Equalizer Plate Assembly	3.8	3/8"	1/2"	3	8.8	
103767	5-Hole Equalizer Plate Assembly	6.1	3/8"	1/2"	5	8.8	





15N / 20N Series



Part #	Description	Weight (Lbs)
105858	15N Section Assembly (10' Long)	37.9



Part #	Description	Weight (Lbs)
102300	20N Section Assembly (10' Long)	29.0



Part #	Description	Weight (Lbs)
	15N Tapered Top Section w / ACWS (10'	
107731	15N Tapered Top Section w / ACWS (10' Long - 2" OD x 8-1/2" mast) (Special Order-Allow 60 days for delivery)	38.0
	Order-Allow 60 days for delivery)	



Part #	Description	Weight (Lbs)
107719	20N Tapered Top Section w / ACWS (9'-3/16" Long - 2" OD x 8-1/2" mast)	27.0



Part #	Description	Weight (Lbs)
	15N Flat Top Section w / ACWS (9' Long -	
105943	2" OD x 8-1/2" mast) (Special Order-	41.9
	15N Flat Top Section w / ACWS (9' Long - 2" OD x 8-1/2" mast) (Special Order-Allow 60 days for delivery)	



Part #	Description	Weight (Lbs)
	20N Flat Top Section w / ACWS (9' Long -	
102299	2" OD x 8-1/2" mast) (Special Order-	31.0
	20N Flat Top Section w / ACWS (9' Long - 2" OD x 8-1/2" mast) (Special Order-Allow 60 days for delivery)	

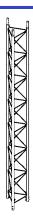
25N Series - Parts List

Part #	Description	Weight (Lbs)
100957	25N Section Assembly (10' Long)	39.0
103732	25N Section Assembly (7' Long)	28.2
104555	25N Anti-Climb Section Assembly (10' Long)	73.0
107711	25N Tapered Top Section w/ ACWS (9'-0" Long - 2" OD x 8-1/4" mast)	34.0
107713	25N Tapered Top Section w / ACWS (8'-2 7/8" Long No Mast) (Special Order-Allow 60 days for delivery)	40.0
107715	25N Tapered Top Section w / ACWS (9'-3 1/4" Long - 2 1/4" OD x 12" mast) (Special Order-Allow 60 days for delivery)	37.0
107717	25N Tapered Top Section w / ACWS (9'-9 1/4" Long - 2 1/4" OD x 18" mast)	37.0
108017	25N Tapered Top Section w / ACWS (9'-4 1/4" Long - 1.660" OD x 12" mast w / 1-1/4" N.P.T Threads) (Special Order-Allow 60 days for delivery)	37.0
102301	25N Flat Top Section w / ACWS (9'-0 7/16" Long - 2" OD x 8-1/4" Mast) (Special Order-Allow 60 days for delivery)	37.7
102460	25N Flat Top Section w / ACWS(9'-9 15/16" Long - 2-1/4" OD x 18" Mast) (Special Order-Allow 60 days for delivery)	40.2
102687	25N Flat Top Section w / ACWS (9'-3 15/16" Long - 2-1/4" OD x 12" mast) (Special Order-Allow 60 days for delivery)	39.3
102719	25N Flat Top Section w / ACWS (8'-3 7/8" Long w / Top Plate) (Special Order-Allow 60 days for delivery)	34.0
103731	25N Flat Top Section w / ACWS (8'-4 7/16" Long No Mast) (Special Order-Allow 60 days for delivery)	42.9
102322	25N Base Section w / ACWS (Short 3'-4" Long)	12.2
102457	25N Base Section w / ACWS (Short 5' Long)	18.1
102305	25N Concrete Base Plate Assembly w / ACWS	13.0
105026	25N Self Supporting Concrete Base Plate w / ACWS	52.0
102629	25N Hinged Short Base w / ACWS (3'-4" Long)	16.0
102744	25N Flat Roof Mount Assembly w / ACWS	19.3
102458	25N Hinged Base Plate Assembly w / ACWS	22.0
102928	25N Single Drive Base Assembly w / ACWS	22.0



25N Series - Parts List

Part #	Description	Weight (Lbs)
102745	25N Guy Bracket Assembly	9.0
102302	25N Adjustable House Bracket Assembly (15")	8.1
102303	25N Adjustable House Bracket Assembly (24")	10.7
102304	25N Adjustable House Bracket Assembly (36")	14.5
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0
102459	25N Accessory Shelf Assembly	3.0
102463	25N Rotor Post Assembly (Special)	1.9
102622	25N Anti-Climb Panels (3) w / Hardware & ACWS	36.3
102630	25N Rotor Mount Post Assembly	2.1
102631	25N Joint Bolt Kit	0.1
102641	25N Universal Eave Bracket Assembly	6.2
102732	25N Bearing/Accessory Shelf Assembly	14.0
102733	25N Antenna Support Assembly - 1-1/2" OD 16 Ga. Tube, 3' Long	23.1
105235	25N Antenna Support Assembly - 2" Sch 40 Pipe, 3' Long	31.1
103219	25N Beacon Plate Assembly w / ACWS	12.7
103730	25N Channel Torque Arm Assembly	39.4
104192	25N Bearing Plate Assembly w / ACWS	11.0
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 2-3/8" O.D. x 48" Long Pipe (Angle)	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 3-1/2" O.D. x 60" Long Pipe (Angle)	67.0
104581	25N Single Arm Mount Assembly	10.1
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7
106264	25N Work Platform - Angle Style (Weldment)	15.0
106750	25N Peak Roof Mount Assembly	19.0
106774	25N Bearing Plate Adapter Assembly	6.0
103908	Tow er Bushing (1-1/4" ID x 2" OD)	0.2



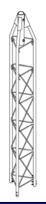
Part #	Description	Weight (Lbs)
100957	25N Section Assembly (10' Long)	39.0
103732	25N Section Assembly (7' Long)	28.2



Part #	Description	Weight (Lbs)
104555	25N Anti-Climb Section Assembly (10' Long)	73.0



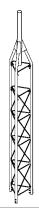
Part #	Description	Weight (Lbs)
107711	25N Tapered Top Section w / ACWS (9'-0" Long - 2" OD x 8-1/4" mast)	34.0
	Long - 2" OD x 8-1/4" mast)	04.0



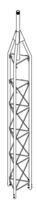
Part #	Description	Weight (Lbs)
107713	25N Tapered Top Section w / ACWS (8'-2 7/8" Long No Mast) (Special Order-Allow	40.0
	60 days for delivery)	



Part #	Description	Weight (Lbs)
107715	25N Tapered Top Section w / ACWS (9'-3 1/4" Long - 2 1/4" OD x 12" mast) (Special Order-Allow 60 days for delivery)	37.0



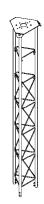
Part #	Description	Weight (Lbs)
107717	25N Tapered Top Section w / ACWS (9'-9 1/4" Long - 2 1/4" OD x 18" mast)	37.0



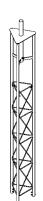
Part #	Description	Weight (Lbs)
108017	25N Tapered Top Section w / ACWS (9'-4 1/4" Long - 1.660" OD x 12" mast w / 1-1/4" N.P.T Threads) (Special Order-Allow 60 days for delivery)	37.0



Part #	Description	Weight (Lbs)
102460	25N Flat Top Section w / ACWS(9'-9 15/16" Long - 2-1/4" OD x 18" Mast) (Special Order-Allow 60 days for delivery)	40.2
	Order-Allow 60 days for delivery)	



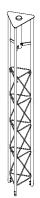
Part #	Description	Weight (Lbs)
	25N Flat Top Section w / ACWS (8'-3 7/8" Long w / Top Plate) (Special Order-Allow	
102719	Long w / Top Plate) (Special Order-Allow	34.0
	60 days for delivery)	



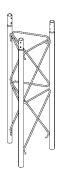
Part #	Description	Weight (Lbs)
102301	25N Flat Top Section w / ACWS (9'-0 7/16" Long - 2" OD x 8-1/4" Mast) (Special Order-	37.7
	Allow 60 days for delivery)	



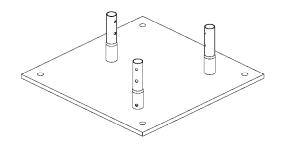
Part #	Description	Weight (Lbs)
	25N Flat Top Section w / ACWS (9'-3 15/16"	
102687	Long - 2-1/4" OD x 12" mast) (Special	39.3
	Order-Allow 60 days for delivery)	



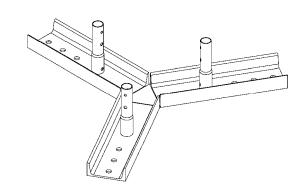
Part #	Description	Weight (Lbs)
103731	25N Flat Top Section w / ACWS (8'-4 7/16" Long No Mast) (Special Order-Allow 60	42.9
	days for delivery)	



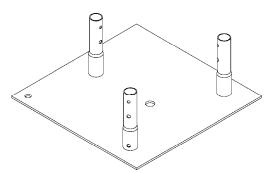
Part #	Description	Weight (Lbs)
102322	25N Base Section w / ACWS (Short 3'-4" Long)	12.2
102457	25N Base Section w / ACWS (Short 5' Long)	18.1



Part #	Description	Weight (Lbs)
105026	25N Self Supporting Concrete Base Plate w / ACWS	52.0



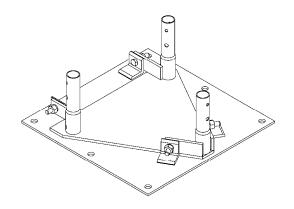
Part #	Description	Weight (Lbs)
102744	25N Flat Roof Mount Assembly w / ACWS	19.3



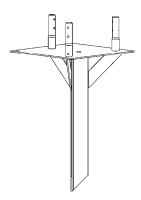
Part #	Description	Weight (Lbs)
102305	25N Concrete Base Plate Assembly w/ ACWS	13.0



Part #	Description	Weight (Lbs)
102629	25N Hinged Short Base w / ACWS (3'-4" Long)	16.0



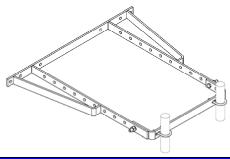
Part #	Description	Weight (Lbs)
102458	25N Hinged Base Plate Assembly w / ACWS	22.0



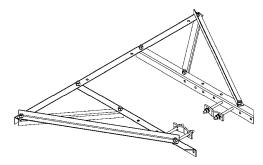
Part #	Description	Weight (Lbs)
102928	25N Single Drive Base Assembly w / ACWS	22.0



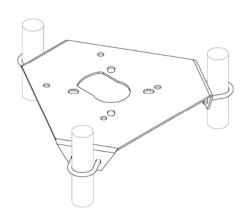
Part #	Description	Weight (Lbs)
102745	25N Guy Bracket Assembly	9.0



Part #	Description	Weight (Lbs)
102302	25N Adjustable House Bracket Assembly (15")	8.1
102303	25N Adjustable House Bracket Assembly (24")	10.7
102304	25N Adjustable House Bracket Assembly (36")	14.5



Part #	Description	Weight (Lbs)
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0
102731	Assembly (25N, 45N & 55N)	31.0



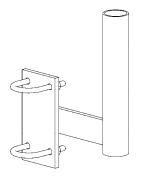
Part #	Description	Weight (Lbs)
102459	25N Accessory Shelf Assembly	3.0



Part #	Description	Weight (Lbs)
102463	25N Rotor Post Assembly (Special)	1.9



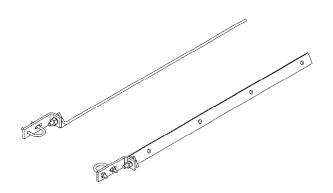
Part #	Description	Weight (Lbs)
102622	25N Anti-Climb Panels (3) w/ Hardware & ACWS	36.3



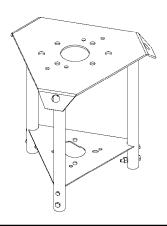
Part #	Description	Weight (Lbs)
102630	25N Rotor Mount Post Assembly	2.1



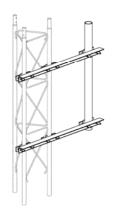




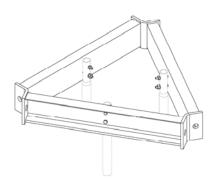
Part #	Description	Weight (Lbs)
102641	25N Universal Eave Bracket Assembly	6.2



Part #	Description	Weight (Lbs)
102732	25N Bearing/Accessory Shelf Assembly	14.0



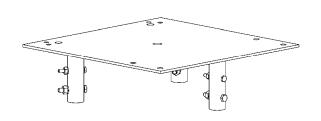
Part #	Description	Weight (Lbs)
102733	25N Antenna Support Assembly - 1-1/2" OD 16 Ga. Tube, 3' Long	23.1
105235	25N Antenna Support Assembly - 2" Sch 40 Pipe, 3' Long	31.1



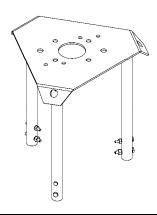
Part #	Description	Weight (Lbs)
103730	25N Channel Torque Arm Assembly	39.4



Part #	Description	Weight (Lbs)
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 2-3/8" O.D. x 48" Long Pipe	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 3-1/2" O.D. x 60" Long Pipe	67.0



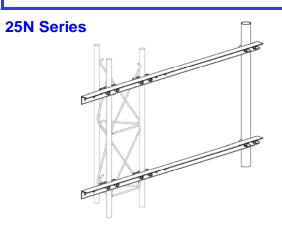
Part #	Description	Weight (Lbs)
103219	25N Beacon Plate Assembly w / ACWS	12.7



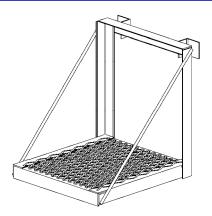
Part #	Description	Weight (Lbs)
104192	25N Bearing Plate Assembly w / ACWS	11.0



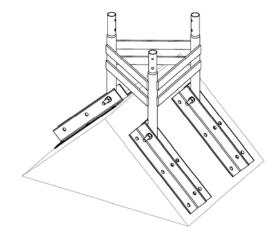
Part #	Description	Weight (Lbs)
104581	25N Single Arm Mount Assembly	10.1



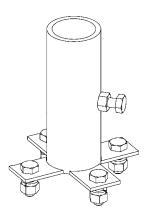
Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7
	x 30 Long Tube (2314, 4314, 3314 & 6314)	



Part #	Description	Weight (Lbs)
106264	25N Work Platform - Angle Style (Weldment)	15.0



Part #	Description	Weight (Lbs)
106750	25N Peak Roof Mount Assembly	19.0



Part #	Description	Weight (Lbs)
106774	25N Bearing Plate Adapter Assembly	6.0



Part #	Description	Weight (Lbs)
103908	Tow er Bushing (1-1/4" ID x 2" OD)	0.2

Nello Corporation

Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com www.nelloinc.com
Na 1-8 572 sal

Nello Catalog 25N Guy Towers - 70 MPH, No Ice

0

Ш

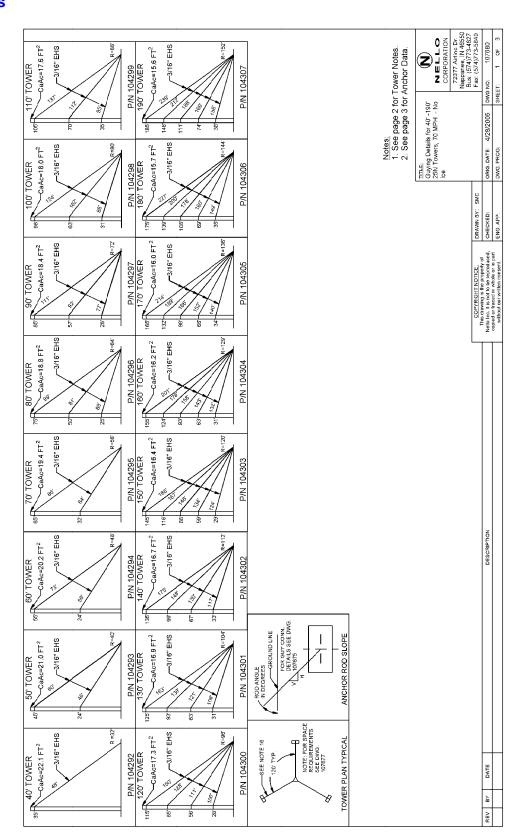
Z

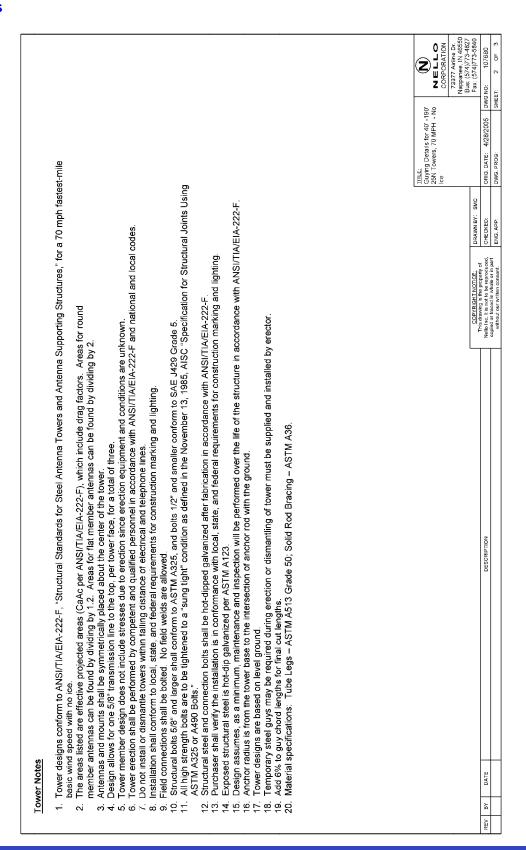
Shear (lbs) Shear (lbs) Shear (lbs) Upliff (lbs) 100 Inner Anchor Outs 100 1,000 1,000 100 1,000 1,000 100 1,100 1,400 100 1,400 1,400	Upliff (lbs) Shear (lbs) Inner Anchor	Upliff (lbs) Shear (lbs) Inner Anchor	Upliff (lbs) Shear (lbs) Inner Anchor	Upliff (lbs) Shear (lbs) Inner Anchor	Upliff (lbs) Shear (lbs) Inner Anchor	Shear (lbs)	Shear (lbs)	Shear (lbs)	Shear (lbs)
						Inner Anch	Inner Anch	Inner Anch	Inner Anch
100 100 100 100 100	0000000								
100 100 100 100 100 100 100 100 100 100					 				
	9999	00 1 100 100 100 100 100 100 100 100 10	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100
2,200 2,400 3,000 3,200									
2,400 3,000 3,200	2,400 3,000 3,200 3,300	2,400 3,000 3,200 3,300 3,400	2,400 3,000 3,200 3,300 3,400 4,100	2,400 3,000 3,200 3,300 3,400 4,100 4,300	2,400 3,000 3,200 3,300 3,400 4,300 4,500	2,400 3,000 3,200 3,200 3,300 4,400 4,500 5,300	2,400 3,000 3,200 3,200 3,300 4,100 4,500 5,300 5,500	2,400 3,000 3,000 3,200 3,400 4,100 4,500 5,300 5,700	2,400 3,000 3,200 3,200 3,400 4,100 4,500 5,300 5,500 5,900
19,4	19.4 18.8 18.4 18.0	19.4 18.8 18.4 17.6	19.4 18.8 18.4 17.6 17.6	19.4 18.8 18.4 17.6 17.6 16.9	19.4 18.8 18.4 18.0 17.6 17.3 16.9	19.4 18.8 18.4 17.6 17.3 16.9 16.7	19.4 18.8 18.4 17.6 17.3 16.9 16.9 16.4	194 188 180 17.6 17.3 16.9 16.7 16.7 16.0	19.4 18.8 18.4 18.0 17.3 16.9 16.7 16.7 16.7
18.8	18.8 18.4 18.0	18.8	18.8 18.4 18.0 17.6 17.3	18.4 18.4 18.0 17.6 17.3	18.8 18.4 18.0 17.6 17.3 16.9	18.8 18.4 18.0 17.6 17.3 16.9 16.7	18.8 18.0 17.6 17.3 16.9 16.4	18.8 18.4 18.0 17.6 17.3 16.9 16.7 16.2 16.2	18.8 18.4 18.0 17.6 17.3 16.9 16.7 16.4 16.2 16.2

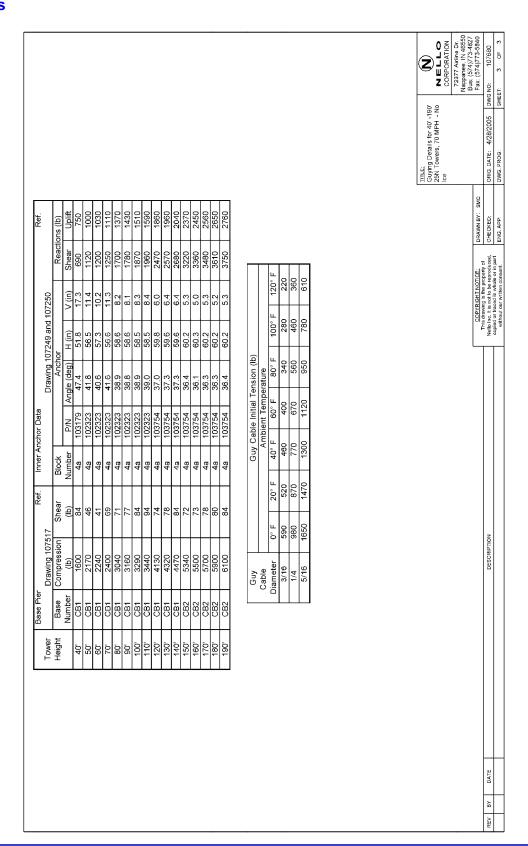
- "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures."
- The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 2.
 - Antennas and mounts shall be symmetrically placed about the center of the tower
 - Design allows for one 5/8" transmission line to the top, per tower face for a total of three
- Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.
 - Tower erection shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes
 - Do not install or dismantle towers within falling distance of electrical and telephone lines.
- Installation shall conform to local, state, and federal requirements for construction marking and lighting Field connections shall be bolted. No field welds shall be allowed.
- Exposed structural steel is hot-dip galvanized per ASTM A123.
- Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.
 - Anchor radius is from the tower base to the intersection of anchor rod with the ground.
 - Tower designs are based on level ground.
- Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

				2
	RCH	12720/2004	25N Guy Catalog Tower	3
	CHECKED		ZO MPH,)
	RCH	12/21/2004		
	MFG			CORPORA
				72377 Airline
	APPROVED			Nappanee, IN
	DDA	1/25/2005		Bus: (574)773
CODVBIGHT NOTICE:	WEIGHT			Fax: (574)773
This drawing is the property of			OWG NO	
Nello Inc. It is not to be reproduced,			106711	
copied or traced in whole or in part			CNING	
without our written consent.			543	SHEET 1 OF

e Dr. 46550 3-4827 REV









P 40

25N Series

Nello Catalog 25N Guy Towers - 90 MPH, No Ice

Nappanee, IN 46550 sales@nelloinc.com 574-773-5840 FAX 1-800-80-NELLO

0

Ш

Z

Nello Corporation www.nelloinc.com

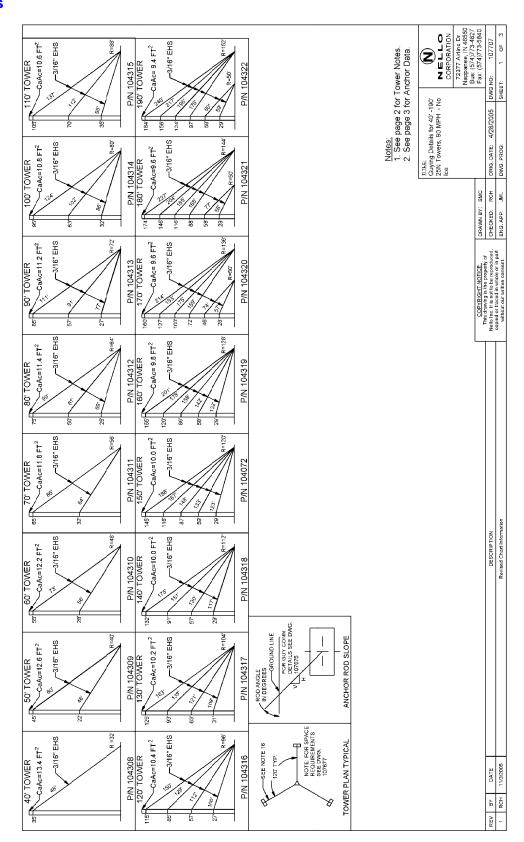
Tourse	100	Allowable Projected Area (sq. ft.)	Base Reactions	ions		Anchor Reactions	teactions	
Tower	Number	Tourse Lon	Companion (lbc)	Choos (lho)	Uplift (lbs)	Shear (lbs)	Uplift (lbs)	Shear (lbs)
(iii) IIIGIBII	in in in	do lesso	colliplession (ibs)	GIIGAI (IDS)	Inner A	Inner Anchor	Outer Anchor	Anchor
40	104308	13.4	1900	200			006	800
20	104309	12.6	2400	100			1200	1300
09	104310	12.2	2500	100			1300	1400
70	104311	11.8	2700	100			1400	1600
80	104312	11.4	3500	100			1700	2100
06	104313	11.2	3700	100			1800	2300
100	104314	10.8	3900	100			1900	2400
110	104315	10.6	4200	100			2100	2600
120	104316	10.4	4900	100			2400	3200
130	104317	10.2	5200	100			2600	3400
140	104318	10	5400	100			2600	3600
150	104072	10	6500	100			3200	4300
160	104319	9.8	0099	100			3200	4500
170	104320	9.6	7800	100	800	1100	2800	3500
180	104321	9.6	0006	100	1000	1200	3500	3900
190	104322	9.4	9400	100	1100	1300	3600	4100

iri	
2	
7	
×	

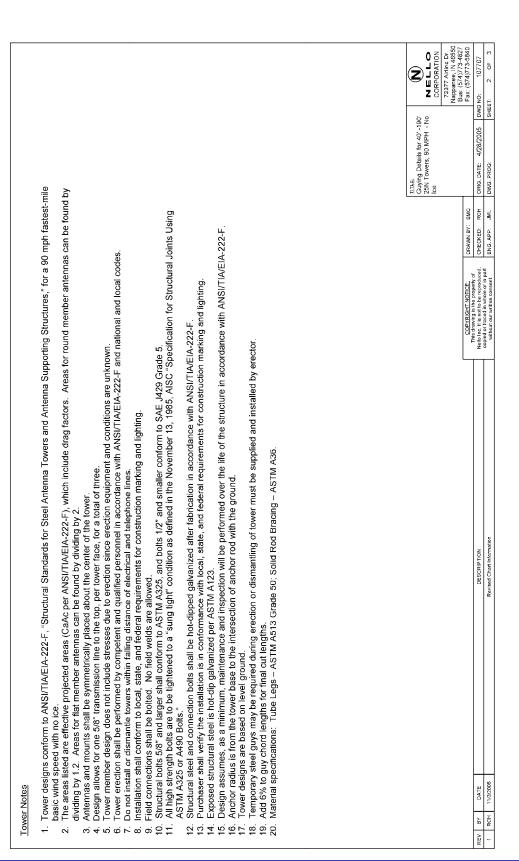
- "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." Tower designs conform to ANSI/TIA/EIA-222-F,
- The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be
 - found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 2.
- Design allows for one 5/8" transmission line to the top per tower face for a total of three.
- Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.
 Tower erection shall be performed by competent and qualified personnel in accordance with ANSVITA/EIA-222-F and national and local codes. 6.44.69.78.89
 - Do not install or dismantle towers within falling distance of electrical and telephone lines.
- Installation shall conform to local, state, and federal requirements for construction marking and lighting Field connections shall be bolted. No field welds shall be allowed.
 - Exposed structural steel is hot-dip galvanized per ASTM A123. 10
- Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.
 - Anchor radius is from the tower base to the intersection of anchor rod with the ground
- Tower designs are based on level ground.
- Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

	RCH	12/20/2004 25N	25N Guy Catalog Tower -	_
	RCH	12/21/2004	NPT OR	ш <u>ё</u>
	9JW			72377
	APPROVED			Nappane
	DDA	1/25/2005		Bus. (57
OBVEIGHT NOTICE	WEIGHT			Fax: (57
his drawing is the property of			OMCINC	
Nello Inc. It is not to be reproduced.			106712	
copied or traced in whole or in part without our written consent.			PRJ NO 543	SHEET 1

N ORATION







Kel. Drawing 10/31/	7517	30018		Ref. Drawing 10	Drawing 107249 and 107250	107250	Posetions (II)	(lh)	A Sold		Outer Anchor Data Ref. Drawing 107249 and 107250	Outer Anchor Data awing 107249 and	107250	Posetions (Ib)	(H) 96
pressi (lb)		Number	N/d	Angle (dea)	H (in)	V (in)	Shear	Unlift	Number	NA	Angle (deg)	(ii)	V (in)	Shear	(all) sulling
1870	170	4a	103179	47.3	51.9	17.2	830	006			6			┰	
2370	80	4a	102323	40.6	57.3	10.2	1340	1150							
اہا	110	4a	102323	41.2	56.9	10.8	1440	1260							
اہ	120	4a	102323	41.1	57.0	10.7	1560	1360						-	
	110	4a	102323	38.5	58.8	7.8	2110	1680							
3680	120	4a	102323	38.5	58.8	7.8	2260	1800							
	140	4a	102323	38.7	28.7	8.0	2410	1930						_	
_	150	4a	102323	38.5	58.8	7.8	2580	2050							
_	120	4a	103754	36.9	29.8	6.0	3220	2420							
٦.	130	4a	103754	37.1	59.7	6.2	3410	2580							
5370	130	4a	103754	35.9	60.5	4.7	3610	2610							
6500		49	102781	36.2	60.2	5.2	4310	3160							
		4a	102781	35.7	9.09	4.5	4530	3250							
7830		4a	102323	35.8	60.5	4.6	1110	800	4a	102781	39.1	58.4	8.5	3490	2840
9010		4a	102323	40.2	57.7	9.7	1220	1030	4 a	102781	41.6	9.99	11.3	3910	3470
9350	06 0	4 a	102323	40.7	57.3	10.2	1280	1100	4 a	102781	41.7	9.99	11.3	4080	3630
		L	Ouv		9 Ang	Guv Cable Initial Tension (Ib)	Tension (<u> </u>							
		, යී 	Cable			Ambient Temperature	nperature								
		Diar	L	0°F 20°F	40,	= 60° F	F 80° F	H	100° F 12	120° F					
		<u> </u>	H	590 520	460	400	H	L	280	220					
										360					
			ļ.,	ľ	L	ŀ	ŀ	-		810					
			_	-	-	-	-	-	_						
												TITLE: Guying Details for 40' -190' 25N Towers, 90 MPH - No Ince	s for 40' -190' 90 MPH - No	-	
												3		Zu	72377 Airline Dr. appanee, IN 4655ius: (574773-4827
- 1								2 int	COPYRIGHT NOTICE: This drawing is the property of	-	1 : - 1		- 1	Fax: (57-	4)773-5840
		1	DESCRIPTION					Nello I	no. It is not to be		- 1	- 1	4/28/2005 D	DWG NO:	107701
		Revise	Revised Chart Information	_				-	The state of the state of		ENG. APP: JML	DWG PROG	-	CHEET. 3	P S

Dr. 2550 3550 840 REV

25N Series

Nello Corporation 1301 Stahly Dr.

Nappanee, IN 46550 574-773-5840 FAX I-800-80-NELLO

Nello Catalog 25N Guy Towers - 110 MPH, No Ice

sales@nelloinc.com www.nelloinc.com		Shear (lbs)	Anchor	1,000	1,700	1,900	2,100	2,700	3,000	3,200
sales www.l	eactions	Uplift (Ibs)	Outer Anchor	1,200	1,500	1,600	1,800	2,200	2,400	2,600
	Anchor Reactions	Shear (Ibs)	Anchor							
		Uplift (Ibs)	Inner Anchor							
	Base Reactions	Shoar (lhe)	Sileai (ilbs)	400	100	100	200	200	200	200
		Compression (lbc) Shoar (lbc)	compression (ins)	2,500	2,900	3,200	3,600	4,300	4,600	5,000
	Allowable Projected Area (sq. ft.)	Towns T		11.2	10.0	9.8	9.6	9.4	9.2	0.6
-		Nimbor		104323	104324	104325	104326	104327	104328	104329

Height (ft)

Z

8 2 4

8

288

Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.

The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by dividing by 1.2. Areas for flat member antennas can be found by dividing by

Antennas and mounts shall be symmetrically placed about the center of the tower.

Design allows for one 5/8" transmission line to the top per tower face for a total of three.

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.

Tower erection shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes 5.

Do not install or dismantle towers within falling distance of electrical and telephone lines.

Installation shall conform to local, state, and federal requirements for construction marking and lighting œ.

Field connections shall be bolted. No field welds shall be allowed. Ö.

Exposed structural steel is hot-dip galvanized per ASTM A123.

Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.

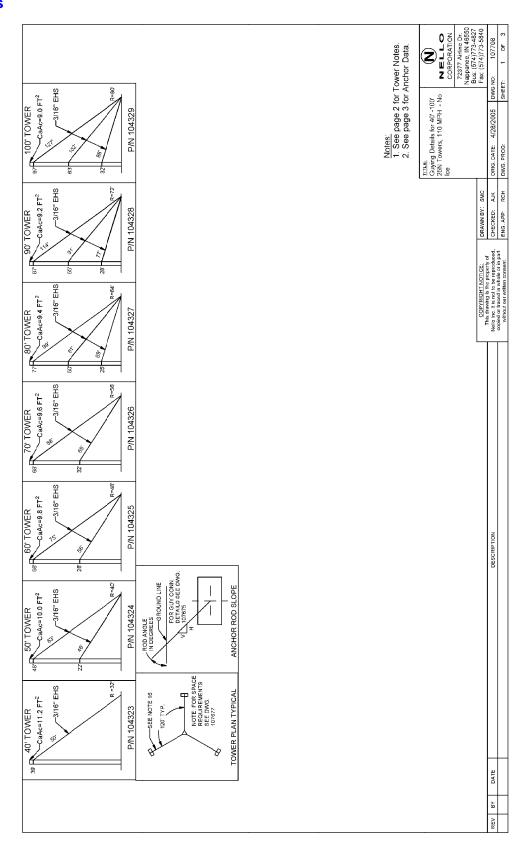
Anchor radius is from the tower base to the intersection of anchor rod with the ground.

Tower designs are based on level ground.

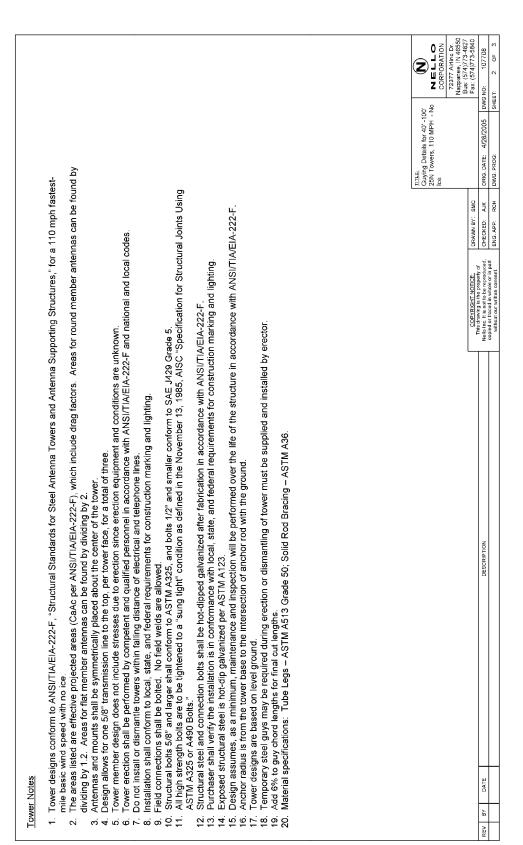
<u>ფ</u>

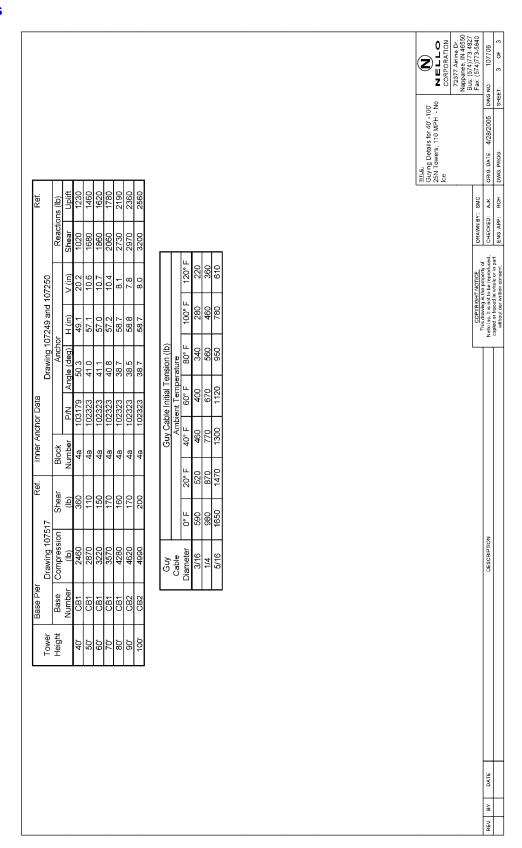
femporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector.

		12/21/2004	12/21/2004 25N Guy Catalog Tower -	2
	OHEOKED RCH	12/21/2004	110 MPH	NEL(O
	MFG			CORPORATION
				72377 Airline D
	APPROVED			Nappanee, IN 46
	DDA	1/25/2005		Bus: (574)773-48
COBYRIGHT NOTICE:	WEIGHT			Fax: (574)773-58
This drawing is the property of			OWC NO	
Nello Inc. It is not to be reproduced,			106713	
copied or traced in whole or in part without our written consent			PRJNO 543	SHEET 1 OF 1
The second secon				





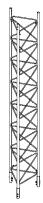




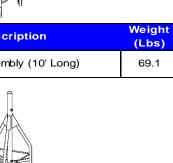


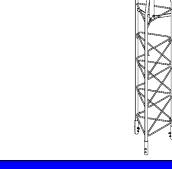
45N Series - Parts List

Part #	Description	Weight (Lbs)
102144	45N Section Assembly (10' Long)	69.1
102375	45N Anti-climb Section Assembly (10' Long)	141.4
107721	45N Tapered Top Section w / ACWS (9' Long - 2" OD x 12" mast)	54.0
107723	45N Tapered Top Section w / ACWS (9' 7/16" Long - 1.660" OD x 12" mast w / 1-1/4" N.P.T Threads)	57.0
107725	45N Tapered Top Section w / ACWS (8' 11 5/8" Long - 2-1/4" OD x 12" mast)	56.0
107727	45N Tapered Top Section w / ACWS (9'-5 1/2" Long - 2 3/8" OD x 18" mast)	56.0
107729	45N Tapered Top Section w / ACWS (10'-3 1/2" Long - 2 3/8" OD x 28" mast)	59.0
103447	45N Flat Top Section w / ACWS (9' Long - 2" OD x 12" mast) (Special Order-Allow 60 days for delivery)	65.8
102366	45N Flat Top Section w / ACWS. (Mast tube is 1-1/4" galv. pipe, threaded on top projecting 12" above apex of side rails) (Special Order-Allow 60 days for delivery)	69.0
102367	45N Flat Top Section w / ACWS (9'-6" Long - 2 3/8" OD x 18" mast) (Special Order-Allow 60 days for delivery)	76.7
102786	45N Flat Top Section w / ACWS (9' Long - 2-1/4" OD x 12" mast) (Special Order-Allow 60 days for delivery)	67.6
102369	45N Flat Top Section w / ACWS (7'-8" Long w / Top Plate) (Special Order-Allow 60 days for delivery)	62.8
105135	45N Flat Top Section w / ACWS (10'-4" Long - 2 3/8" OD x 28" mast) (Special Order-Allow 60 days for delivery)	80.0
102145	45N Tapered Base Section w / ACWS (10' - For use with Pier Pins and Insulators)	98.5
102461	45N Base Section w / ACWS (5' Long - Embedment in Concrete)	30.2
106743	45N Self-Supporting Base Plate w / ACWS	151.0
102478	45N Concrete Base Plate w / ACWS	35.5
102480	45N Hinged Base Plate w/ ACWS	90.0
102757	45N Flat Roof Mount w / ACWS	24.0
102764	45N Channel Torque Arm Assembly	53.5
103462	45N Channel Torque Arm Assembly (U-Bolt Style)	53.8
102477	45N Beacon Plate Assembly (w / Stubs & ACWS)	25.0
104744	45N Bearing Plate w / ACWS Assembly	24.9
102765	45N/55N Accessory Shelf Assembly	6.0
105864	45N/55N Work Platform Assembly	39.4
102147	45N Guy Bracket Assembly	20.9
102376	45N Anti-Climb Panels (3) w / Hardware & ACWS	48.0
102377	45N Joint Bolt Kit	0.1
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 2-3/8" O.D. x 48" Long Pipe (Angle)	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 3-1/2" O.D. x 60" Long Pipe (Angle)	67.0
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0

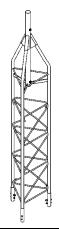


Part #	Description	Weight (Lbs)
102144	45N Section Assembly (10' Long)	69.1





Part #	Description	Weight (Lbs)
107721	45N Tapered Top Section w / ACWS (9' Long - 2" OD x 12" mast)	54.0
	Long - 2" OD x 12" mast)	54.0



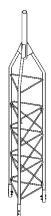
Part #	Description	Weight (Lbs)
107725	45N Tapered Top Section w / ACWS (8' 11 5/8" Long - 2-1/4" OD x 12" mast)	56.0
107725	11 5/8" Long - 2-1/4" OD x 12" mast)	36.0



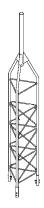
Part #	Description	Weight (Lbs)
102375	45N Anti-climb Section Assembly (10' Long)	141.4



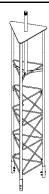
Part #	Description	Weight (Lbs)
107723	45N Tapered Top Section w / ACWS (9' 7/16" Long - 1.660" OD x 12" mast w / 1-1/4" N.P.T Threads)	57.0



Part #	Description	Weight (Lbs)
107727	45N Tapered Top Section w / ACWS (9'-5 1/2" Long - 2 3/8" OD x 18" mast)	56.0
107727	5 1/2" Long - 2 3/8" OD x 18" mast)	30.0



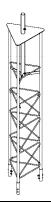
Part #	Description	Weight (Lbs)
107729	45N Tapered Top Section w / ACWS (10'- 3 1/2" Long - 2 3/8" OD x 28" mast)	59.0



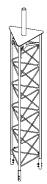
Part #	Description	Weight (Lbs)
102366	45N Flat Top Section w / ACWS. (Mast tube is 1-1/4" galv. pipe, threaded on top projecting 12" above apex of side rails) (Special Order-Allow 60 days for delivery)	69.0



Part #	Description	Weight (Lbs)
400700	45N Flat Top Section w / ACWS (9' Long - 2-1/4" OD x 12" mast) (Special Order-	07.0
102786	Allow 60 days for delivery)	67.6



Part #	Description	Weight (Lbs)
103447	45N Flat Top Section w / ACWS (9' Long - 2" OD x 12" mast) (Special Order-Allow 60 days for delivery)	65.8



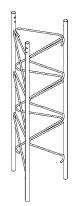
Part #	Description	Weight (Lbs)
	45N Flat Top Section w / ACWS (9'-6"	
102367	Long - 2 3/8" OD x 18" mast) (Special	76.7
	45N Flat Top Section w / ACWS (9'-6" Long - 2 3/8" OD x 18" mast) (Special Order-Allow 60 days for delivery)	



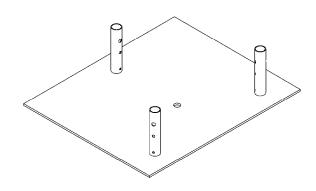
Part #	Description	Weight (Lbs)
	45N Flat Top Section w / ACWS (7'-8"	
102369	Long w / Top Plate) (Special Order-Allow	62.8
	45N Flat Top Section w / ACWS (7'-8" Long w / Top Plate) (Special Order-Allow 60 days for delivery)	



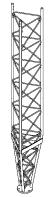
Part #	Description	Weight (Lbs)
105135	45N Flat Top Section w / ACWS (10'-4" Long - 2 3/8" OD x 28" mast) (Special	80.0
103133	Order-Allow 60 days for delivery)	80.0



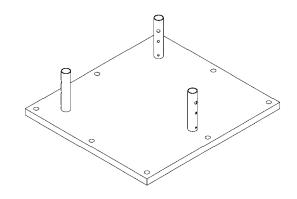
Part #	Description	Weight (Lbs)
102461	45N Base Section w / ACWS (5' Long -	30.2
	Embedment in Concrete)	30.2



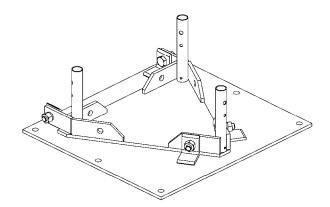
Part #	Description	Weight (Lbs)
102478	45N Concrete Base Plate w / ACWS	35.5



Part #	Description	Weight (Lbs)
	45N Tapered Base Section w / ACWS	
102145	45N Tapered Base Section w / ACWS (10' - For use w ith Pier Pins and	98.5
	Insulators)	

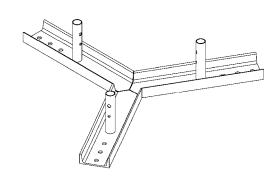


Part #	Description	Weight (Lbs)
106743	45N Self-Supporting Base Plate w/ ACWS	151.0

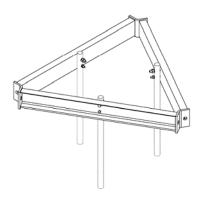


Part #	Description	Weight (Lbs)
102480	45N Hinged Base Plate w / ACWS	90.0

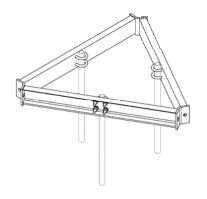
N.E.L.D. CORPORATION



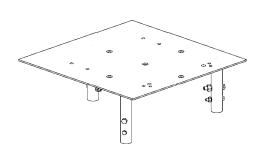
Part #	Description	Weight (Lbs)
102757	45N Flat Roof Mount w / ACWS	24.0



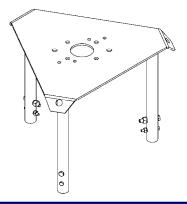
Part #	Description	Weight (Lbs)
102764	45N Channel Torque Arm Assembly	53.5



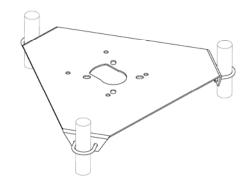
Part #	Description	Weight (Lbs)
103462	45N Channel Torque Arm Assembly (U-	53.8
	Bolt Style)	33.0



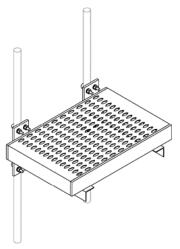
Part #	Description	Weight (Lbs)
102477	45N Beacon Plate Assembly (w / Stubs & ACWS)	25.0



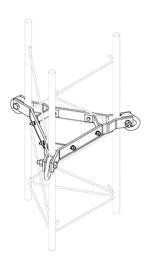
Part #	Description	Weight (Lbs)
104744	45N Bearing Plate w / ACWS Assembly	24.9



Part #	Description	Weight (Lbs)
102765	45N/55N Accessory Shelf Assembly	6.0



Part #	Description	Weight (Lbs)
105864	45N/55N Work Platform Assembly	39.4



Part #	Description	Weight (Lbs)
102147	45N Guy Bracket Assembly	20.9



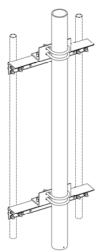




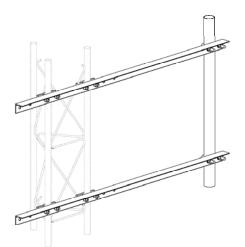




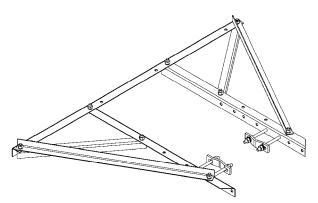
Part #	Description	Weight (Lbs)
102377	45N Joint Bolt Kit	0.1



Part #	Description	Weight (Lbs)
	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 2-3/8" O.D. x 48"	
109739	45N, & 55N Tow er, 2-3/8" O.D. x 48"	43.0
	Long Pipe (Angle)	
	Face Dish Mount Assembly for 25N,	
109738	45N, & 55N Tow er, 3-1/2" O.D. x 60"	67.0
	Long Pipe (Angle)	



Part #	Description	Weight (Lbs)
	Universal Side Arm Assembly, 2-1/4"	
105845	O.D. x 36" Long Tube (25N, 45N, 55N &	26.7
	65N)	



Part #	Description	Weight (Lbs)
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0

Nello Corporation 1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloino.com

Nello Catalog 45N Guy Towers - 70 MPH, No Ice

0

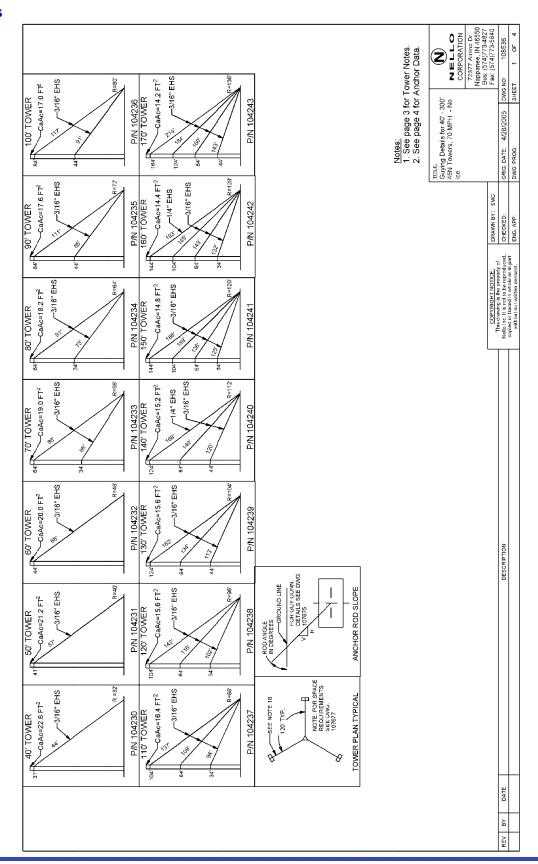
Z

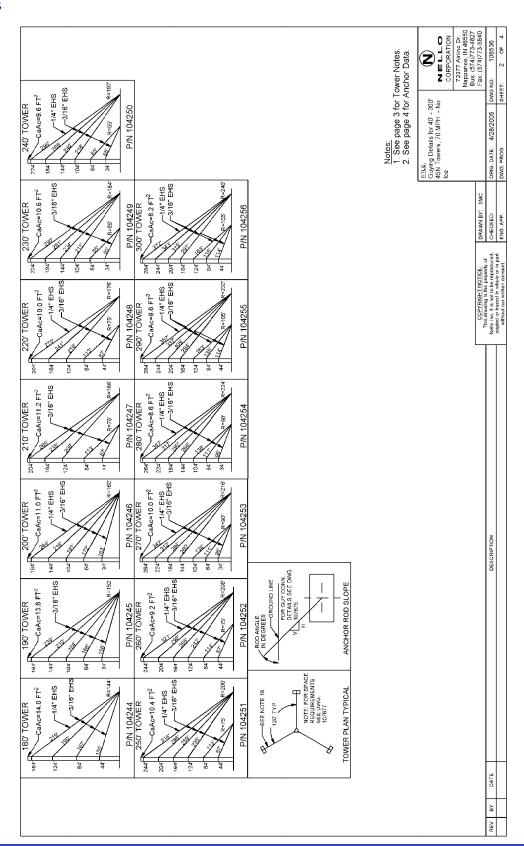
45N Series

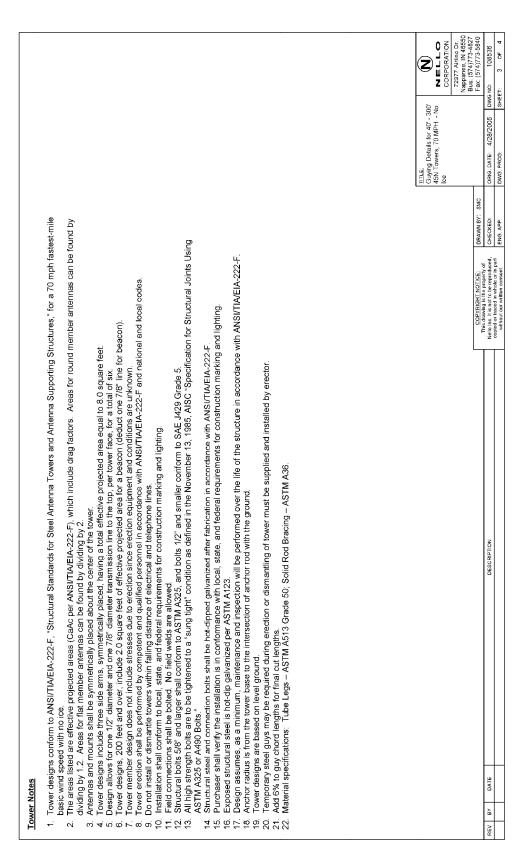
	100	Allowable Projected Area (sq. ft.)	Base Reactions	-		Anchor F	Anchor Reactions	
lower ight (#)	Mimbor	Tomot	Compression (lbc)	Choar /lhel	Upliff (lbs)	Shear (lbs)	Uplift (lbs)	Shear (lbs)
(iii) iiilililililililililililililililili		do lawo	(equi) linesaidilino	olledi (ibə)	luner	Inner Anchor	Outer /	Outer Anchor
8	104230	22.6	2,400	100			1,000	1,100
20	104231	21.2	2,600	100			1,100	1,100
99	104232	20.02	2,800	100			1,200	1,300
70	104233	19.0	3,200	100			1,400	1,500
80	104234	18.2	3,600	100			1,500	1,700
06	104235	17.6	3,700	100			1,600	1,700
8	104236	17.0	4,000	100			1,700	1,900
110	104237	16.4	4,600	100			1,900	2,300
20	104238	15.8	4,900	100			2,000	2,500
130	104239	15.6	5,200	200			2,200	2,600
140	104240	15.2	5,600	200			2,400	2,900
150	104241	14.8	6,100	100			2,600	3,300
160	104242	14.4	009'9	100			2,800	009'E
170	104243	14.2	6,700	200			2,900	3,600
180	104244	14.0	7,200	200			3,100	006'E
06	104245	13.6	7,700	100			3,300	4,400
500	104246	11.0	8,300	100			3,500	4,700
210	104247	11.2	9,200	100	1,100	1,300	3,000	3,100
220	104248	10.0	9,800	100	1,100	1,400	3,300	3,400
230	104249	10.6	10,400	100	1,000	1,100	3,700	4,100
240	104250	9.6	11,000	100	1,000	1,100	3,900	4,500
250	104251	10.4	11,600	100	1,100	1,300	4,200	4,500
260	104252	9.2	11,800	100	1,100	1,300	4,200	4,700
270	104253	10.0	13,000	100	1,500	1,900	4,400	4,700
380	104254	8.6	13,100	100	1,500	2,000	4,500	4,900
290	104255	9.6	14,000	100	1,700	2,200	4,700	4,900
300	104258	ca	00777		100	0000		***

votes. 1. Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures."		
The areas listed are effective projected areas (CaAc per ANSITIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by dividing by 12. Arease for farmenber antennes can be found by dividing by 12. Arease for farmenber antennes can be found by dividing by 2. Artherias shall be symmetrically blaced about the confirm of the tower.	9	
Design allows for one 1/2" and one 7/8" transmission line to the top per tower face for a total of six. Tower member design does not include stresses due to avertion since exerction equipment and conditions are unknown		
 Tower erection shall be performed by comprehent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes. To one install or dismardle towers within falling distance of electrical and telephone lines. 	•	
Installation shall conform to local, state, and federal requirements for construction marking and lighting. Field connections shall be bolted. No field welds shall be allowed.		
 Exposed structural steel is hot-dip galvanized per ASTM A123. Tolerance on tower steel height is plue 1% or minus 1%. 		
 Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222.F. Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANSI/TIA/EIA-222.F.). 	IA-222-F).	
 Tower designs, 200° and over, include 2.0 square feet of projected area for a beacon at top of tower. A proper retains in form that however beach the independent of projected area for a beacon at top of tower. 		
is, Archor ladius is not the tower base to the intersection of archor for with the ground. 16. Tower designs are based on level ground.		
 Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector. 		
DRAWM		ORIG DATE TITLE 12/21/2004 45N Guy Catalog Tower -
GHECKED		70 MPH
MFG		
APPR(APPROVED DDA 1/25/2005	
THOUNG THE	17	

NELCO CORPORATION 72377 Airline Dr. Nappanee, IN 46550 Bus; (574)773-4827 Fax; (574)773-5840







	Reactions (lb)	Shear Uplift																			3430 3280			4510 4170	4660 4200		+	4910 46/0	9090 4700							Z	Ž		72377 Airline Dr.	Nappanee, In 4000	Nappanee, IN 46550 Bus: (574)773-4827 Fax: (574)773-5840
Data and 107250		V (in)																		14.0	13.6	11.4	11.0	12.5	11.7	13.1	12.3	13.4	17.7							TITLE:	Guying Details for 40 - 300 45N Towers, 70 MPH - No				
Outer Anchor Data Ref. Drawing 107249 and 107250	Anchor	(in)																		54.6	55.0	9:99	56.8	25.7	56.3	55.3	55.9	55.1	22.0							III.	45N	lce		_	OMS
O Ref. Draw	An	Angle (deg)																		44.2	43.7	41.7	41.4	42.8	42.0	43.2	42.5	43.6	47.3												DRAWN BY:
		P/N																		102323	102323	102781	102781	102781	102781	102781	102781	102/81	107701		T	120° F	220	360	610						COPYRIGHT NOTICE:
	Block	Number																		48	4a	4 a	4a	4p	4p	4	₽;	4	4D			100° F	╀	460	780						COPYRIG
	Reactions (lb)	Uplift	1040	1120	1200	1390	1490	1580	1680	1930	2010	2170	2400	2560	2800	2850	3110	3260	3520	1120	1140	1000	1000	1120	1120	1470	1480	1/10	07/1	(dl) uoise	(1) (10)	80° F	340	560	950						
	React	Shear	1070	1100	1290	1510	1720	1700	1890	2330	2470	2570	2890	3290	3640	3580	3940	4370	4750	1340	1360	1130	1130	1330	1340	1950	1950	21/0	7 180	Guv Cable Initial Tension (Ib)	Tomor Towns	F 60°F 80	400	670	1120						
ata and 107250		(in)	14.0	15.4	12.7	12.4	10.5	12.7	11.3	9.1	8.5	2.6	9.2	7.1	6.7	7.8	7.5	2.2	5.5	9.4	9.5	11.2	11.2	9.6	9.4	6.1	6.3	7.5	ς: /	GIIV Ca	Joseph A	40° F	460	770	1300						
Inner Anchor Data Drawing 107249 and 107250	Anchor	(in)	54.6	53.5	55.6	55.8	57.1	55.6	56.6	58.0	58.4	57.7	58.0	59.2	59.4	58.8	59.0	0.09	60.1	57.9	57.8	26.7	26.7	27.7	57.9	59.8	59.7	29.0	0.80			20° ₽	ł	870	╁	┨					
Inr Ref. Draw	And	Angle (deg)	44.2	45.5	42.9	42.6	40.9	42.9	41.6	39.6	39.1	40.2	39.7	37.9	37.6	38.5	38.3	36.7	36.5	39.9	40.0	41.5	41.5	40.1	39.9	37.0	37.2	38.2	38.3			ater 0° F	ł	+	<u> </u>	$\frac{1}{2}$					
		P/N	103179	103179	103179	102323	102323	102323	102323	102323	102323	102323	102323	103754	103754	103754	102781	102781	102781	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	AIS	(gao	Diameter	3/16	1/4	5/16						
	Block	Number	4a	4a	4a	4a	4a	4 a	ta,	49	48																														
17	Shear	(qI)	20	70	20	80	70	130	130	120	130	160	160	130	130	160	150	120	120	130	130	100	100	120	120	100	100	120	071												
Base Pier Ref. Drawing 107517	Compression	(qI)	2350	2590	2810	3210	3570	3720	4030	4640	4920	5170	5650	6120	0099	0899	7210	7670	8270	9210	9760	10350	10970	11610	11760	12980	13130	13960	14110												
Rei	Base	Number	CB2	CB2	CB2	CB2	CB2	CB3	CB3	3 6	283																														
Tower	Height		40,	50'	.09	70,	.08	,06	100,	110'	120'	130'	140'	150'	160'	170'	180'	190'	200'	210'	220'	230'	240'	250'	260'	270'	280'	290.	2000												

	Nello Corporation
	1301 Stahly Dr.
	Nappanee, IN 46550
Towers - 90 MPH No Ice	1-800-80-NELLO
	574-773-5840 FAX

Nello Catalog 45N Guy

0

Ш Z

sales@nelloinc.com www.nelloinc.com

Tower	Part	Allowable Projected Area (sq. ft.)	Base Reactions	lions		Anchor K	Anchor Reactions	
oioht (ff)	2	Tower	Compression (lbs)	Shoot (lhe)	Uplift (Ibs)	Shear (Ibs)	Upliff (Ibs)	Shear (lbs)
הוויווה. -			(equi) lipasaidilipa	Siledi (IDS)	Inner	Inner Anchor	Outer Anchor	Anchor
40	104257	21.6	3,500	100			1,700	1,800
93	104258	20.2	3,800	100			1,800	1,800
99	104259	19.0	4,400	100			2,100	2,300
70	104260	18.2	4,700	200			2,200	2,400
80	104261	17.4	5,100	200			2,400	2,600
06	104262	16.8	5,500	200			2,600	2,800
100	104073	16.0	6,200	200			2,900	3,400
110	104263	15.4	6,600	200			3,100	3,600
120	104264	15.0	2,000	200			3,200	3,800
130	104265	14.6	7,400	200			3,400	4,100
140	104266	14.0	8,200	200			006'E	4,800
150	104267	13.6	8,700	200			4,100	5,000
160	104268	13.2	9,100	200			4,300	008'9
170	104269	12.8	10,000	200			4,700	6,100
180	104270	12.4	10,900	200			006'5	002'9
190	104271	12.0	11,500	200			5,500	7,000
200	104272	9.4	12,100	100			008'5	006,7
210	104273	9.2	14,500	100	1,400	1,500	5,700	6,200
220	104274	8.6	15,500	100	1,400	1,700	6,200	002'9
230	104275	8.4	16,200	100	1,000	1,600	006'9	7,800
240	104276	8.2	16,600	200	1,000	1,600	001'2	8,100

1. Tower designs conform to ANSI/TIA/E/A-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." 2. The areas listed are effective projected areas (CAA) per ANSI/TIA/FIA 272-F, which include data factors. Areas for round member antennas	 	r antennas
1. Tower designs conform to ANSVTIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting 2. The areas listed are affective projected areas (23Ac per ANSVITA/FIA-222-F), which incline dran Sardors. Areas for roun	g Structure	nd membe
1. Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna 2. The areas listed are effective projected areas (Cado per ANSI/TIA/FIA-2772-F), which include dran Sartors. An	Supporting	lior roll
1. Tower designs conform to ANSVTIA/EIA-222-F, "Structural Standards for Steel Antenna Towers an 2 The areas listed are effective projected areas (CAAc per ANSVTIA/EIA-272-F), which inclined dran 5	d Antenna	actors Are
Tower designs conform to ANSVTIA/EIA-222-F, "Structural Standards for Steel Antenna 2 The areas listed are effective projected areas (CaAc per ANSVTIA/EIA-222-F), which inc.	Towers an	lide drad f
1. Tower designs conform to ANS/TIA/EIA-222-F, "Structural Standards for Stee 2. The areas listed are effective projected areas (CaAc per ANS/TIA/FIA-272)-F).	el Antenna	which inc
1. Tower designs conform to ANSVTIA/EIA-222-F, "Structural Standar 2. The areas listed are effective projected areas (CaAc per ANSVTIA/F).	ds for Stee	-IA-222-F)
1. Tower designs conform to ANSI/TIA/EIA-222-F, "Structul 7. The areas listed are effective projected areas (CaAc per	ral Standaı	ANSI/TIA/F
The areas listed are effective projected areas is	; "Structu	CaAc per
Tower designs conform to ANSI/TIA The areas listed are effective project.	/EIA-222-F	ted areas
The areas listed are effect	ANSI/TIA	tive project
1. Tower designs 2. The areas lister	conform to	d are effec
1. Tow	er designs	areas liste.
	1. Tow	2 The

s can be

itive projected aleas (Can be remission of the found by dividing by 2.)

Areas for flat member antennas can be found by dividing by 2.

Antennas and mounts shall be symmetrically placed about the center of the tower. Design allows for one 1/2" and one 7/8" transmission line to the top per tower face for a total of six.

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.

Tower erection shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Do not install or dismantle towers within falling distance of electrical and telephone lines.

Installation shall conform to local, state, and 'electar requirements' for construction marking and lighting. Field connections shall be botted. No field welds shall be allowed.

Exposed structural steel is hot-dip galvanized per ASTM A123. Tolerance on tower steel height is plus 1% or minus 12%

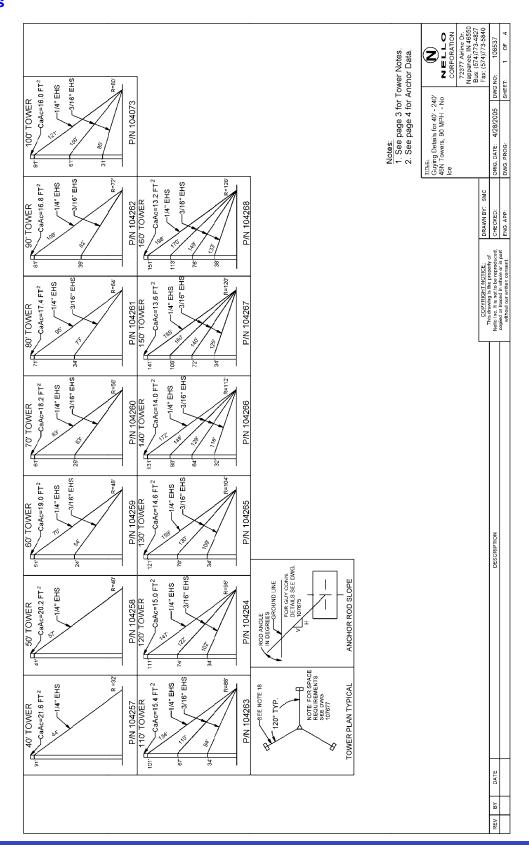
Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.
Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANSI/TIA/EIA-222-F).
Tower designs, 200° and over, include 2.0 square feet of projected area for a beacon at top of tower.

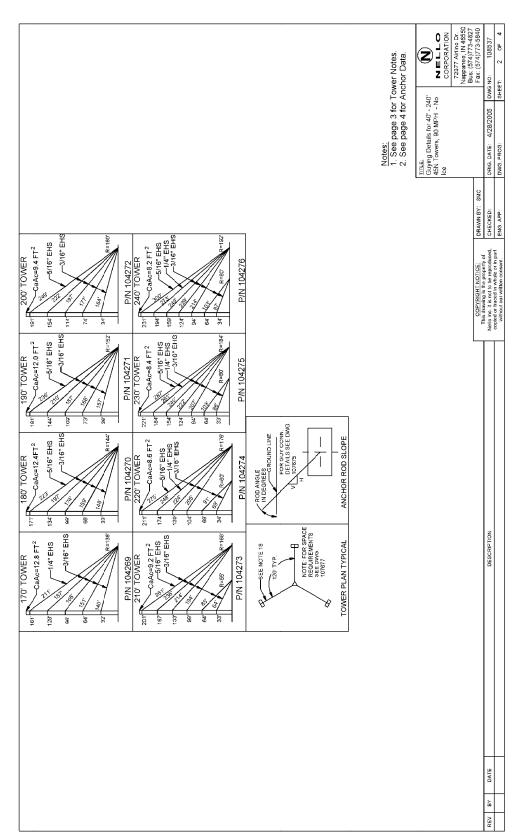
ら G C B B D T T D T T T D D T

Anchor radius is from the tower base to the intersection of anchor rod with the ground. Tower designs are based on level ground.

Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

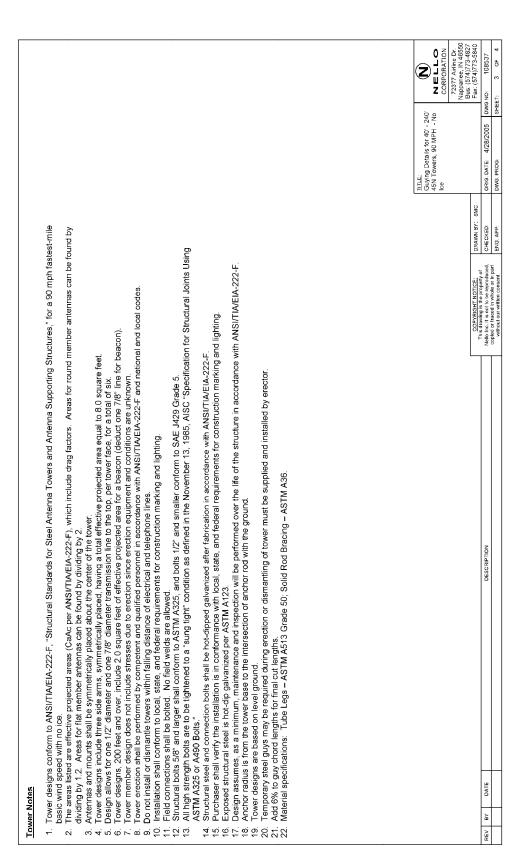
	RCH	12/21/2004	12/21/2004 45N Guy Catalog Tower -	Z
	CHECKED		90 MPH	NELLO NELLO
	RCH	12/21/2004		MOITVACABOO
	MFG			72277 Ainline De
				. LO Allille DI.
	APPROVED			Nappanee, IN 46550
	DDA	1/25/2005		Bus: (574)773-4827
COBYRIGHT NOTICE:	WEIGHT			Fax: (574)773-5840
This drawing is the property of			ON DMG	REV
Nello Inc. It is not to be reproduced,			106715	-
copied or traced in whole or in part			PRJ NO 643	SHEET 1 OF 1
A LOCAL COLLEGE COLLEG				





ORPORATION

N Series



																																	Z		CORPORATION	72377 Airline Dr.	Nappanee, IN 46550 Bus: (574)773-4827	4)773-5840	108537	4 OF 4
	Reactions (lb)	Uplift																		5740	6190	0/89	7120											2	CORP.	72377	Nappani Bus: (57	Fax: (57	DWG NO:	SHEET: 4
	Reaction	Shear																		6220	6720	7750	8100											APH - No						ő
107250		V (in)																		12.5	12.4	11.2	11.0											Guying Details for 40 - 240 45N Towers, 90 MPH - No					ORIG. DATE: 4/28/2005	ROG:
nor Data 249 and		H (ii)																		55.8	55.8	26.7	56.8										HLE	Guying 45N To	eo_			_	ORIG. D	DWG. PROG:
Outer Anchor Data Ref. Drawing 107250	Anchor	Angle (deg)																		42.7	42.6	41.6	41.3															DRAWN BY: SMC	CHECKED:	ENG. APP:
Ref		P/N																		102781	102781	102781	102781			L	120° F	220	360	610								TICE:	reproduced,	le of in part
	Block	Number																		40	4	40	4d			l co	100° F	280	460	780								COPYRIGHT NOTICE:	olno. It is not to be	aidd Or maced in wird
	Reactions (lb)	Uplift	1690	1840	2070	2230	2390	2560	2880	3060	3230	3400	3850	4060	4270	4740	5290	5550	5760	1360	1420	066	980	(41)	(all) (liu)	ı a	80° F	340	260	920									- Ma	3
		Shear	1750	1800	2270	2400	2570	2750	3350	3560	3820	4090	4770	5040	5290	9100	6710	7030	7350	1550	1660	1640	1609	(41) aniona T loitin oldo o O	Ambiont Tomporphiso	el ipelali	60° F	400	670	1120										
107250		V (in)	⊢	15.5	12.1	12.7	12.7	12.7	10.3	10.3	9.7	9.2	8.3	8.2	8.3	7.0	7.5	7.6	7.3	10.9	10.1	-1.1	-0.8	140	Cable IIII		-													
nor Data 249 and		H (in)	-	53.4	56.0	55.6	55.6	55.6	57.3	57.3	57.6	58.0	58.6	58.6	58.5	59.3	59.0	59.0	59.1	56.9	57.4	62.8	62.7		ر و	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	40° F	460	770	1300										
Inner Anchor Data Drawing 107249 and 107250	Anchor	Angle (deg)		45.6	42.4	42.9	42.9	43.0	40.7	40.7	40.2	39.7	38.9	38.9	38.9	37.8	38.3	38.3	38.1	41.3	40.5	31.1	31.3			1 000	20° F	520	870	1470										
Ref		N/A	103179	103179	102323	102323	102323	102323	102323	102323	102781	102781	102781	102781	102781	102781	102781	102781	102781	102323	102323	102323	102323	_			4		086	1650									NOIL	
	Block	Number	4a	4p	49	4c	4c	4c	49	4a	4a	4a	į	Sed Sed Sed Sed Sed Sed Sed Sed Sed Sed	Caple 1	Diameter	3/16	1/4	5/16									DESCRIPTION												
517	Shear	(al)	30	130	100	150	190	220	180	210	190	170	180	190	210	180	170	170	150	140	130	140	60																	
Base Pier Ref. Drawing 107517	Compression	(Q)	3500	3850	4370	4700	2080	5490	6220	6570	0269	7390	8210	8660	9100	0666	10920	11490	12080	14500	15550	16240	16650																	
Ref	Base C	Number	CB2	CB3	CB3	CB3	CB3																																	
Tower	Height	ļ	40,	50'	,09	.02	80,	,06	100,	110	120'	130'	140'	150'	160'	170,	180	190'	200,	210	220'	230'	240'																DATE	
																																	•						REV BY	

45N Series

	Nello Corporation
	1301 Stahly Dr.
	Nappanee, IN 46550
Nello Catalog 45N Guy Towers - 110 MPH No Ice	1-800-80-NELLO
	574-773-5840 FAX

0

Ш

Z

sales@nelloinc.com

www.nelloinc.com

leight (ff) Number Tower Top 40 104278 13.0 50 104289 11.0 60 104281 11.6 70 104282 11.6 90 104283 9.6 100 104284 9.4 110 104286 8.6 120 104286 8.6 130 104287 8.2 140 104288 8.6 140 104287 8.2 140 104288 7.8 140 104289 7.4	שומאמוני בוסליכונים אינים	200000000000000000000000000000000000000	-		Anchor Reactions	teactions	
104278 104279 104280 104281 104282 104283 104284 104286 104286 104286 104288	2	(July morning (lbc)	Chorr (lho)	Uplift (lbs)	Shear (Ibs)	Uplift (Ibs)	Shear (Ibs)
	<u> </u>	Compression (nos)	onear (nos)	Inner/	Inner Anchor	Outer	Outer Anchor
104279 104280 104281 104283 104283 104284 104286 104286 104286 104289 104289		4,100	300			2,000	1,900
104280 104281 104283 104283 104284 104286 104286 104288 104289		4,600	400			2,300	2,000
104281 104283 104284 104284 104286 104286 104287 104289		5,300	200			2,600	2,800
104282 104283 104284 104285 104286 104287 104289		5,800	200			2,800	3,100
104283 104284 104285 104286 104287 104289		6,400	300			3,100	3,400
104284 104285 104286 104287 104289 104289		6,900	300			3,300	3,700
104285 104286 104287 104288 104289		7,700	200			3,700	4,400
104286 104287 104288 104289		8,400	300			4,000	4,700
104287 104288 104289		9,400	200			4,600	5,400
104289		10,100	300			5,000	000'9
104289		11,300	200			5,700	7,000
104000		12,000	200			6,000	7,400
047401		12,700	300			6,300	7,800
170 104291 7.0		14,000	200			7,000	8,900

	gns conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures."	isted are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be
	er designs conform	as listed are el
;	1. Tower de	2. The are

Areas for flat member antennas can be found by dividing by 2.

Antennas and mounts shall be symmetrically placed about the center of the tower

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Design allows for one 1/2" and one 7/8" transmission line to the top per tower face for a total of six

Tower erection shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes.

Installation shall conform to local, state, and federal requirements for construction marking and lighting Do not install or dismantle towers within falling distance of electrical and telephone lines.

No field welds shall be allowed Field connections shall be bolted.

Exposed structural steel is hot-dip galvanized per ASTM A123.

Tolerance on tower steel height is plus 1% or minus 12%

Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.

Tower designs, 200' and over, include 2.0 square feet of projected area for a beacon at top of tower

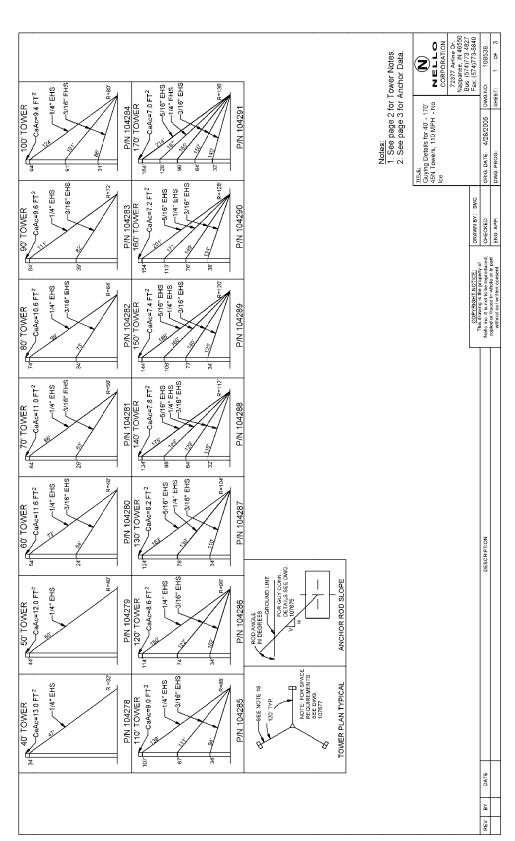
Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANS/ITIA/EIA-222-F)

Anchor radius is from the tower base to the intersection of anchor rod with the ground.

Tower designs are based on level ground.

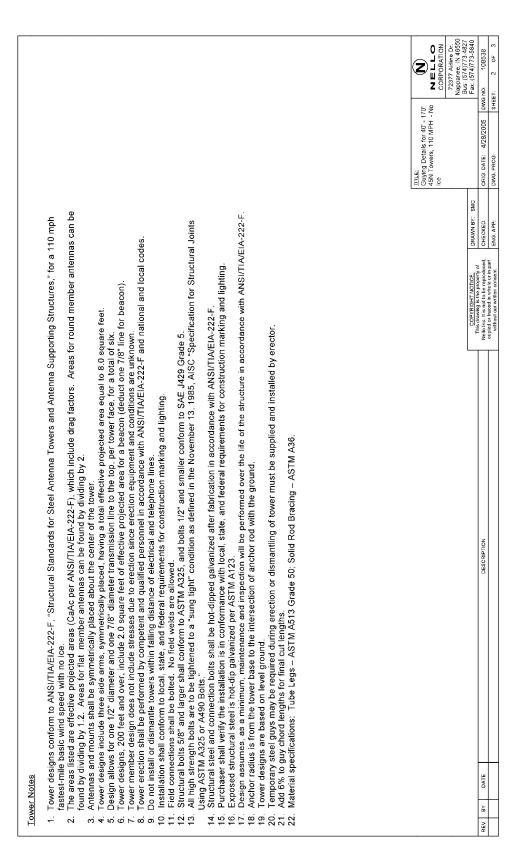
Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	72377 Airline Dr.	Nappanee, IN 46550	Bus: (574)773-4827	Fax: (574)773-5840	REV	1	SHEET 1 OF 1
12/21/2004 45N Guy Catalog Tower - 12/21/2004 110 MPH					ON DWG	106716	PRJNO 543
12/21/2004			1/25/2005				
RCH CHECKED RCH	MFG	APPROVED	DDA	WEIGHT			
				COPYRIGHT NOTICE:	This drawing is the property of	Nello Inc. It is not to be reproduced.	copied or traced in whole or in part without our written consent.

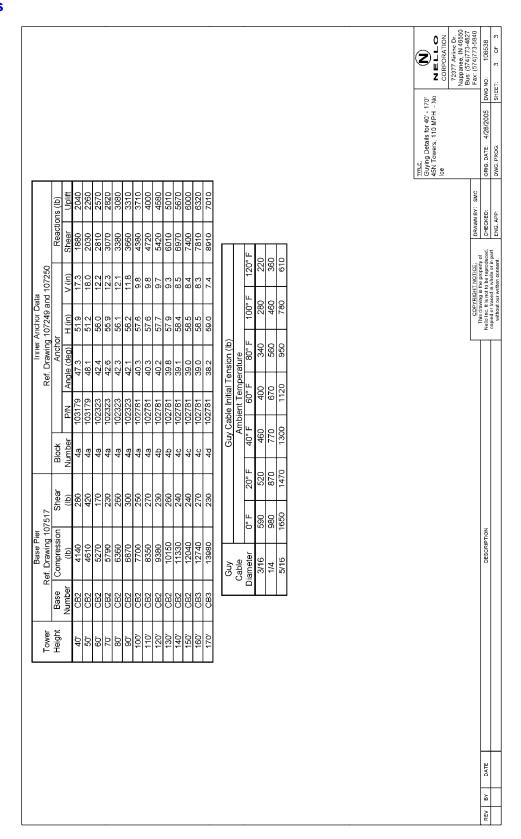


ORPORATION

N Series







55N Series - Parts List

Part #	Description	Price	Weight (Lbs)
103134	55N Section Assembly (10' Long)	394.00	92.6
104551	55N Anti-climb Section Assembly (10' Long)	784.00	185.0
103136	55N Tapered Base Section w / ACWS (10' - For use with Pier Pins and Insulators)	957.00	137.0
103757	55N Base Section w / ACWS (5' Long - Embedment in Concrete)	176.00	41.2
102462	55N Concrete Base Plate w / ACWS	148.00	37.0
106744	55N Self-Supporting Base Plate w / ACWS	456.00	152.0
102927	55N Guy Bracket Assembly	190.00	24.4
103135	55N Joint Bolt Kit	6.00	0.2
103463	55N Bearing Plate w / ACWS Assembly	149.00	28.3
103779	55N Anti-Climb Panels (3) w/ Hardw are & ACWS	268.00	48.0
105361	55N Beacon Plate Assembly (w / Stubs & ACWS)	142.00	27.0
105818	65N to 55N Transition Assembly	450.00	110.0
104141	55N Torque Arm Stabilizer Assembly	222.00	54.1
102765	45N/55N Accessory Shelf Assembly	113.00	6.0
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	170.00	26.7
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	125.00	31.0
105864	45N/55N Work Platform Assembly	165.00	39.4
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 2-3/8" O.D. x 48" Long Pipe (Angle)	172.00	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 3-1/2" O.D. x 60" Long Pipe (Angle)	268.00	67.0

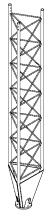
N E L LO



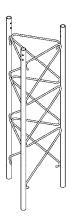
Part #	Description	Weight (Lbs)
103134	55N Section Assembly (10' Long)	92.6



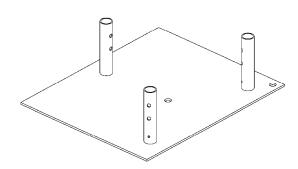
Part #	Description	Weight (Lbs)
104551	55N Anti-climb Section Assembly (10' Long)	185.0



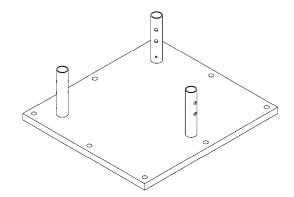
Description	Weight (Lbs)
55N Tapered Base Section w/ ACWS (10' -	137.0
E	Description 55N Tapered Base Section w/ ACWS (10' - For use with Pier Pins and Insulators)



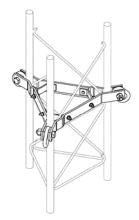
Part #	Description	Weight (Lbs)
103757	55N Base Section w / ACWS (5' Long - Embedment in Concrete)	41.2



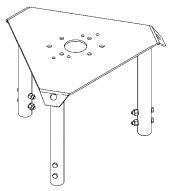
Part #	Description	Weight (Lbs)
102462	55N Concrete Base Plate w / ACWS	37.0



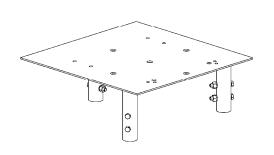
Part #	Description	Weight (Lbs)
106744	55N Self-Supporting Base Plate w / ACWS	152.0



Part #	Description	Weight (Lbs)
102927	55N Guy Bracket Assembly	24.4



Part #	Description	Weight (Lbs)
103463	55N Bearing Plate w / ACWS Assembly	28.3



Part #	Description	Weight (Lbs)
105361	55N Beacon Plate Assembly (w/ Stubs & ACWS)	27.0



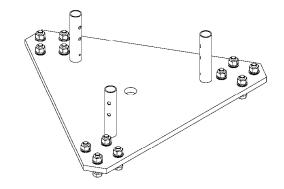




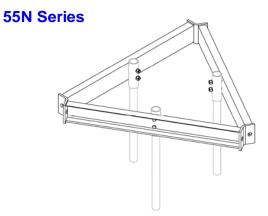
Part #	Description	Weight (Lbs)
103135	55N Joint Bolt Kit	0.2



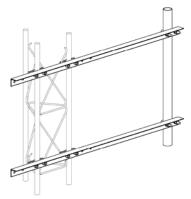
Part #	Description	Weight (Lbs)
103779	55N Anti-Climb Panels (3) w/ Hardw are & ACWS	48.0



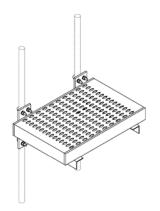
Part #	Description	Weight (Lbs)
105818	65N to 55N Transition Assembly	110.0



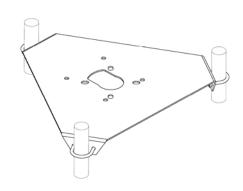
Part #	Description	Weight (Lbs)
104141	55N Torque Arm Stabilizer Assembly	54.1



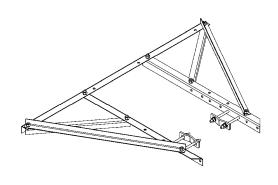
Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x	26.7
	36" Long Tube (25N, 45N, 55N & 65N)	



Part #	Description	Weight (Lbs)
105864	45N/55N Work Platform Assembly	39.4



Part #	Description	Weight (Lbs)
102765	45N/55N Accessory Shelf Assembly	6.0

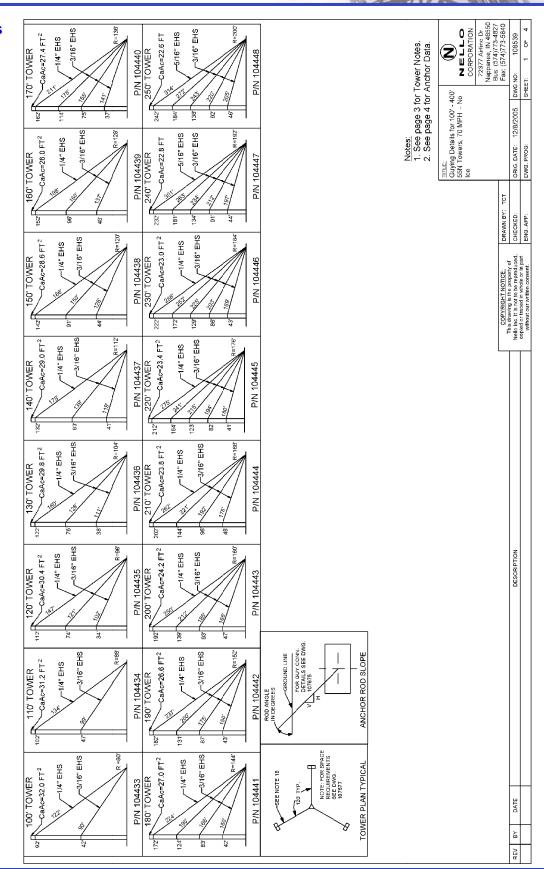


Part #	Description	Weight (Lbs)
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0



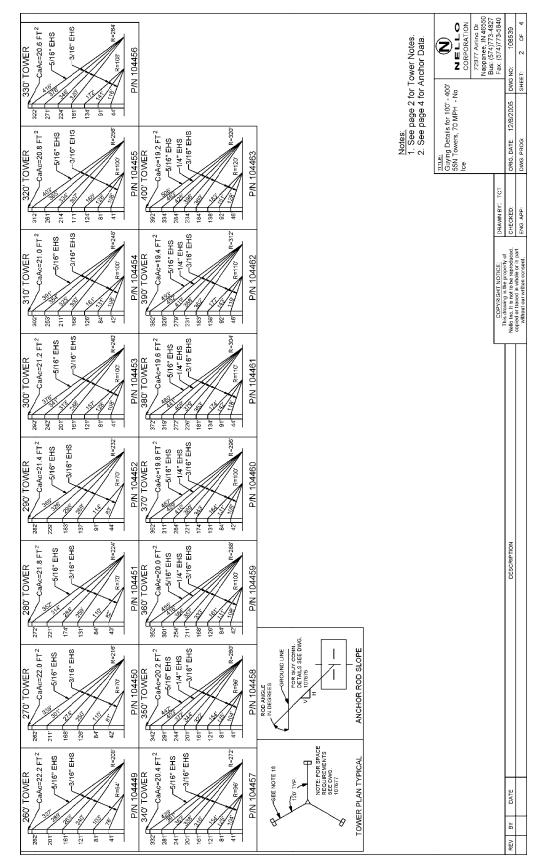
Part #	Description	Weight (Lbs)
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tower, 2-3/8" O.D. x 48" Long Pipe	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 3-1/2" O.D. x 60" Long Pipe	67.0

Tower Height (ft)		L D	log 55N Guy	Nello Catalog 55N Guy Towers - 70 MPH, No Ice	70 MPH, N	lo Ice	1-800 5747 5747 sales www	vappanee, in 1-200- 1-200-30-NELLO 574773-5840 FAX sales@nelloinc.com www.nelloinc.com		
Height (ft)	Tre d	Allowable Projected Area (sq. ft.)	Base Reactions	tions		Anchor Reactions	eactions			
901	z	Tower Top	Compression (lbs)	Shear (Ibs)	Uplift (Ibs)	bs) Shear (lbs)	Uplift (Ibs) She	Shear (lbs)		
	104433	32:00	5,300	100			2,200	2,400		
110	104434	31.8	5.600	200			2,400	3,500		
136	104436	29.80	009'9	8 8			2,700	3,200		
140	104437	29.00	006'9	100			2,900	3,300		
<u>ල</u> ද	104438	28.60 28.00	7,200	300			3,000	3,500		
128	9445	27.40	8,200	001			3,500	4,200		
180	104441	27.00	8,600	200			3,600	4,400		
190	104442	26.60	8,900	200			3,700	4,600		
200	104444	23.80	9,400	200			3,900	5,000		
82	104445	23.40	10,600	300			4,400	5,700		
230	104446	3.8	11,000	300			4,600	2,900		
250	10448	22.63	12.200	200 200			5,100	6,600		
260	104449	22.20	14,200	100	1,300	1,400	5,200	5,600		
270	104450	22.8	14,600	100	1,300	1,400	5,300	5,800		
290	104452	21.40	15,800	3 5	1,400	1,500	5,700	6,100		
300	104453	21.20	16,800	100	1,800	2,300	5,700	6,000		
310	104454	21.00	17,500	100	1,900	2,300	5,900	6,200		
320	104455	33.80	17,900	901	1,900	2,300	6,100	6,400		
340	104457	20.40	19,300	300	1,800	2,300	6.900	2,500		
320	104458	20.20	20,300	001	1,800	2,200	7,300	8,100		
380	104459	20.00	20,900	100	1,900	2,300	7,500	8,300		
380	104461	19.60	21,900	8 8	2,000	2.400	006.7	8.700		
390	104462	19.40	22,400	100	2,000	2,500	8,100	8,900		
400	104463	19.20	22,500	100	1,900	2,500	8,200	9,100		
	es. Tower designs conform to The areas listed are effect found by adding by 1.2. Artennas and mounts sin Design allows for two 7/8	ANSI/TIA/EIA-222-F, tive projected areas (C Areas for flat member all be symmetrically p "transmission lines to	"Situratural Standards for Steel Antenna Towers and Antenna Supporting Structures." aAc per ANS/TTA/ED-A222-5), which include drag factors. Areas for round member as antennas can be found by adding by 2. The control of the tower. The con per tower face for a total of six.	Antenna Towers : Hich include dra ng by 2. er. of six.	and Antenna Su gractors. Areas	porting Structures for round member:	antennas can be			
5. Tower	member des	Design auton to two transmissions may be used to the top part were take to a solar or solar. Tower member design does not include stresses due to enection since erection equipment and conditions are unknown. The control of the conformed by commonlying the control of the conformed by commonlying the conformed by commonlying the control of the conformed by commonlying the control of the conformed by commonlying the conformation of the conformed by commonlying the conformation of the	rection since erection	equipment and c	conditions are un	Known.	order los			
	install or dia	to not install or dismanife towers within falling distance of electrical and telephone lines	f electrical and telepho	ine lines.			00000			
8. Installa 9. Field c	ation shall co	Installation shall conform to local, state, and federal requirements for construction marking and lighting. Field connections shall be botted. No feld welds shall be allowed.	ements for constructic allowed.	in marking and	ignting.					
	Exposed structural steel	steel is hot-dip galvanized per ASTM A123	123.							
11. Tolerar 12. Mainte	ice on tower	Tolerance on tower steel height is plus 1% or minus ½%. Maintenance and inspection shall be performed over the life of the structure in accordance with ANSUTIA/FIA.222-F	e of the structure in a	cordance with A	NSI/TIA/FIA-22	ų		•		
	Jesigns incl	Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANSUTAVEIA-222-F).	ced, having a total effe	ctive projected a	rea equal to 8.0	square feet (CaAc	per ANSI/TIA/EIA	-222-F) .		
14. Tower of	Tower designs, 200' and ove area for a mid level beacon	3' and over, include 2:0 square feet of pr I beacon	ojected area for a bea	con at top of tow	er. Tower desig	ns 350° and over, in	clude 2.0 square	feet of projected		
15. Anchor	Anchor radius is from the	om the tower base to the intersection of anchor rod with the ground.	anchor rod with the gr	round.						
	designs are rary steel gu	Tower designs are based on level ground. Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector	dismantling of tower m	nst be supplied	and installed by	erector.		•		
								N.		
								RCH CHECKED	55N Guy Catalog Tower - 70 MPH	0
								RCH	1	CORPORATION
								APPROVED		72377 Airline Dr appanee, IN 465
						COPYRIGHT NOTK		WEIGHT		Bus: (5/4)//3-482/ Fax: (574)773-5840
						This drawing is the property of	property of			
						NOTION INC. IN TOTAL OF	ne lebionnoen		106717	

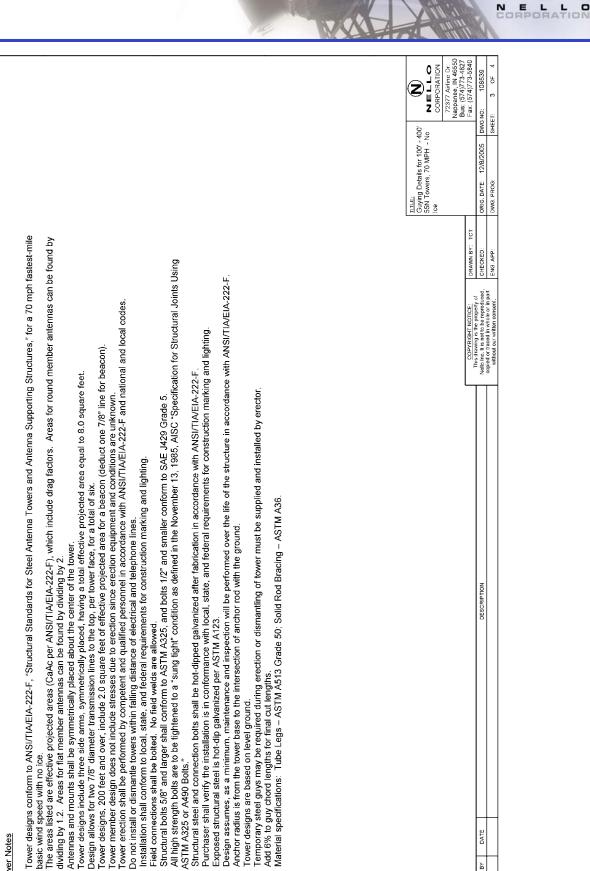


N E L L O

N Series

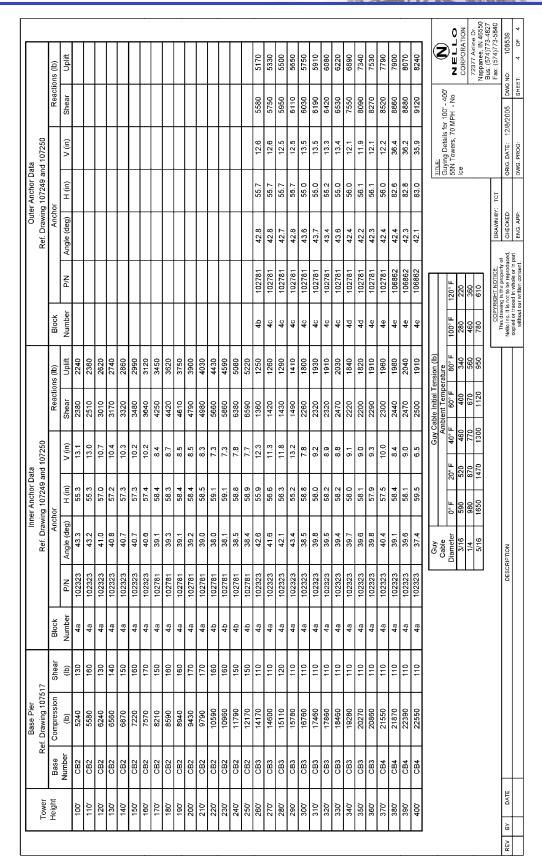


55N Series



dividing by 1.2.

Fower Notes



Nello Corporation 1301 Stahly Dr. Nappanee, IN 46550 574-773-5840 FAX 1-800-80-NELLO

sales@nelloinc.com www.nelloinc.com

Nello Catalog 55N Guy Towers - 90 MPH, No Ice

0

Ш

Z

		Allowable Projected Area (sq. ft.)	Base Reactions	ions		Anchor F	Anchor Reactions	
Tower	Part	Tomot	(cdl) acionomor	Chan (lha)	Uplift (lbs)	Shear (lbs)	Uplift (lbs)	Shear (lbs)
(m) mgna	NUMBER	lower lop	compression (10s)	Suear (IDS)	lnner	Inner Anchor	Outer Anchor	Anchor
100	104464	19.20	006'9	200			3,200	3,600
110	104465	18.60	7,400	200			3,400	4,100
120	104466	18.20	8,000	200			3,600	4,400
130	104467	17.80	8,500	200			3,800	5,100
140	104468	17.20	9,300	200			4,200	5,400
150	104469	16.80	008'6	200			4,400	6,000
160	104470	16.40	10,800	200			5,000	6,300
170	104471	16.20	11,200	200			5,100	6,300
180	104472	15.80	12,100	200			5,700	7,100
190	104473	15.60	13,300	200			6,300	7,800
200	104474	13.20	14,000	200			6,500	8,100
210	104475	13.00	14,600	200			6,800	8,500
220	104476	12.80	17,800	100	1,700	1,900	6,700	7,200
230	104477	12.60	18,300	100	2,300	1,900	7,000	7,500
240	104478	12.40	19,800	100	2,500	2,800	7,200	7,400
250	104479	12.20	20,700	100	2,500	3,000	7,400	7,700
260	104480	12.00	21,500	200	2,600	3,100	7,700	7,900
270	104481	11.80	22,600	100	2,300	2,700	8,600	008'6
280	104482	11.60	24,000	100	2,400	2,900	9,100	006'6
290	104483	11.40	24,900	200	2,500	3,000	9,400	10,200
300	104484	11.20	26,100	100	2,500	3,200	10,100	10,900

"Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." Tower designs conform to ANSI/TIA/EIA-222-F,

The areas listed are effective projected areas (CaAc per ANS/ITIA/EIA-222-F), which include drag factors. Areas for round member antennas can be

found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 2.

Antennas and mounts shall be symmetrically placed about the center of the tower. Design allows for two 7/8" transmission lines to the top per tower face for a total of six.

8443974991<u>1</u>

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Tower erection shall be performed by competent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes.

Do not install or dismantle towers within falling distance of electrical and telephone lines

state, and federal requirements for construction marking and lighting. No field welds shall be allowed. Installation shall conform to local, state, and federal requiremer Field connections shall be bolted. No field welds shall be allow Exposed structural steel is hot-dip galvanized per ASTM A123.

Tolerance on tower steel height is plus 1% or minus 1/2%.

Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/ITIA/EIA-222-F.

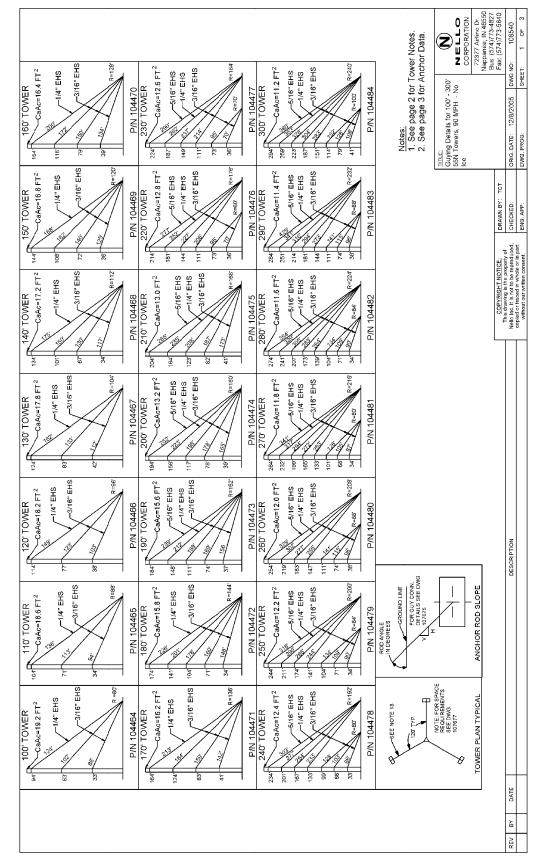
Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANS/ITIA/EIA-222-F).

Tower designs, 200' and over, include 2.0 square feet of projected area for a beacon at top of tower.

Anchor radius is from the tower base to the intersection of anchor rod with the ground

remporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

		12/21/2004 55N	12/21/2004 55N Guy Catalog Tower -	2
	CHECKED RCH	12/21/2004	90 MPH	0 F 2 C C C C C C C C C C C C C C C C C C
	MFG			72377 Airline Dr.
	APPROVED			Nappanee, IN 46550
	DDA	1/25/2005		Bus: (574)773-4827
COPYRIGHT NOTICE:	WEIGHT			Fax: (574)773-5840
This drawing is the property of			OWG NO	REV
Nello Inc. It is not to be reproduced,			106718	-
copied or traced in whole or in part without our written consent.			PRJ NO 543	SHEET 1 OF 1



72377 Airline Dr. Nappanee, IN 46550 Bus: (574)773-4827 Fax: (574)773-5840

108540 P

DWG NO:

ORIG. DATE:

DWG.

NELLO

Z

- 300' - No

ing Details for 100'. Towers, 90 MPH -

Guying S5N T Ice



55N Series

Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 90 mph fastest-mile

Tower Notes

The areas listed are effective projected areas (CaAc per ANS//TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by Areas for flat member antennas can be found by dividing by 2.

Antennas and mounts shall be symmetrically placed about the center of the tower.

Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet

Tower designs, 200 feet and over, include 2.0 square feet of effective projected area for a beacon (deduct one 7/8" line for beacon). Design allows for two 7/8" diameter transmission lines to the top, per tower face, for a total of six.

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.

Tower erection shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes Do not install or dismantle towers within falling distance of electrical and telephone lines

Installation shall conform to local, state, and federal requirements for construction marking and lighting Field connections shall be bolted. No field welds are allowed

Structural bolts 5/8" and larger shall conform to ASTM A325, and bolts 1/2" and smaller conform to SAE J429 Grade 5.

All high strength bolts are to be tightened to a "sung tight" condition as defined in the November 13, 1985, AISC "Specification for Structural Joints Using or A490 Bolts.

steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F.

shall verify the installation is in conformance with local, state, and federal requirements for construction marking and lighting.

structural steel is hot-dip galvanized per ASTM A123

as a minimum, maintenance and inspection will be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F. radius is from the tower base to the intersection of anchor rod with the ground

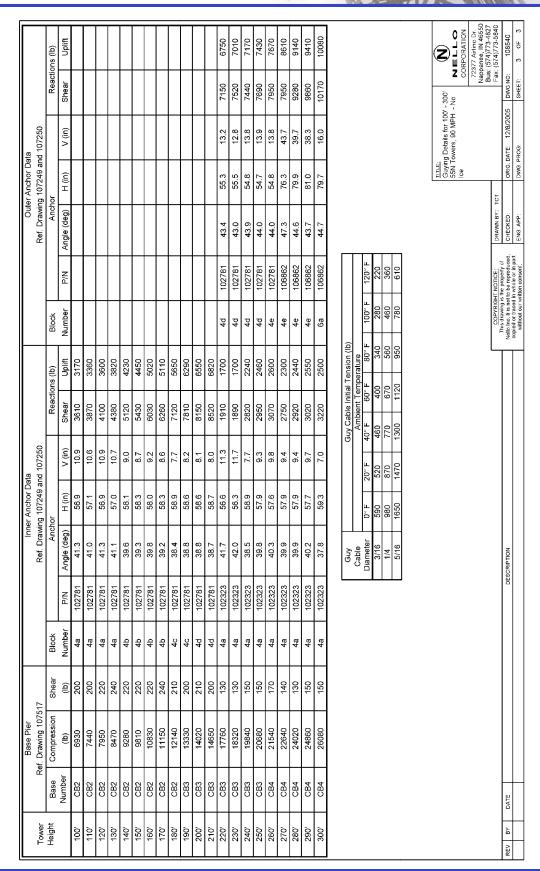
Tower designs are based on level ground

Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

Add 6% to guy chord lengths for final cut lengths.

specifications: Tube Legs – ASTM A513 Grade 50; Solid Rod Bracing – ASTM A36 14. 15. 17. 17. 20. 22. 22. DRAWN BY: CHECKED:

DESCRIPTION DATE ğ REV



sales@nelloinc.com Nello Corporation 1-800-80-NELLO

Nello Catalog 55N Guy Towers - 110 MPH, No Ice

0

Ш

Z

www.nelloinc.com

Towor	#***	Allowable Projected Area (sq. ft.)	Base Reactions	tions		Anchor F	Anchor Reactions	
Loisht (#)	Nimbor	Tomot Ton		Choar (lhe)	Uplift (Ibs)	Shear (Ibs)	Uplift (lbs)	Shear (lbs)
(າເ) າແຄເລມ	Maliber	dol Jawo	combinession (nos)	Siledi (ibs)	luner	Inner Anchor	Outer ,	Outer Anchor
100	104485	14.60	009'6	400			4,700	5,300
110	104486	14.20	10,300	400			5,000	5,700
120	104487	13.60	11,000	400			5,300	6,100
130	104488	12.00	11,600	400			5,600	6,500
140	104489	11.00	12,700	300			6,200	7,500
150	104492	10.00	13,400	300			6,500	7,900
160	104493	9.80	14,300	300			6,900	8,400
170	104494	09.6	15,200	400			7,400	9,100
180	104495	9.20	16,600	300			8,200	10,300
190	104496	00.6	17,700	300			8,700	10,900

Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.

The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be

found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 2. Antennas and mounts shall be symmetrically placed about the center of the tower

Design allows for two 7/8" transmission lines to the top per tower face for a total of six

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown.

Installation shall conform to local, state, and federal requirements for construction marking and lighting

Tower erection shall be performed by competent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes Do not install or dismantle towers within falling distance of electrical and telephone lines

Field connections shall be bolted. No field welds shall be allowed. Exposed structural steel is hot-dip galvanized per ASTM A123. 84667899747777

Tolerance on tower steel height is plus 1% or minus 12%.

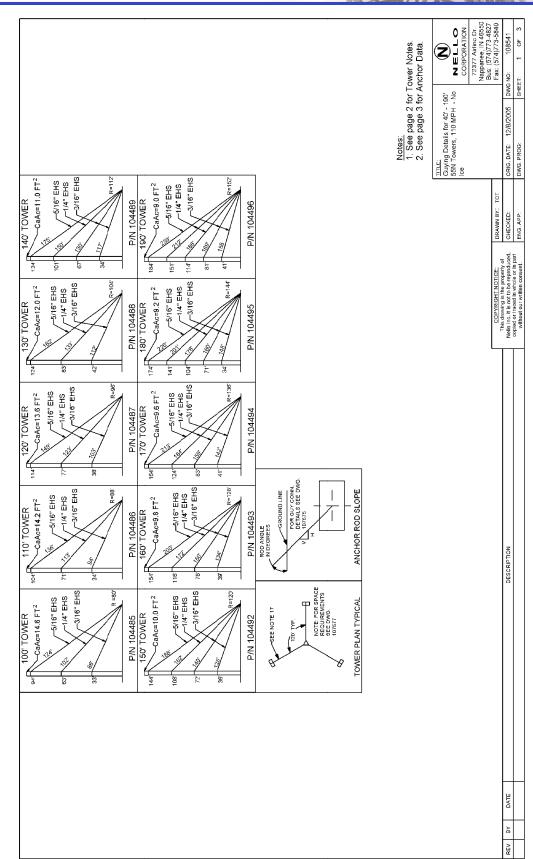
Maintenance and inspection shall be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F

Tower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet (CaAc per ANSI/TIA/EIA-222-F) Anchor radius is from the tower base to the intersection of anchor rod with the ground.

Fower designs are based on level ground

femporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

	RCH	12/21/2004	12/21/2004 55N Guy Catalog Tower -	3
	CHECKED	40040004	110 MPH	NELLO
	22	1272 172024		CORPORATION
	9.			72377 Airline Dr.
	APPROVED			Nappanee, IN 46550
	DDA	1/25/2005		Bus: (574)773-4827
COBYRIGHT NOTICE	WEIGHT			Fax: (574)773-5840
This drawing is the property of			ON SMG	REV
Nello Inc. It is not to be reproduced,			106719	-
copied or traced in whole or in part without our written consent.			PRJ NO 543	SHEET 1 OF 1





ORPORATION

NELLO Z

190. - No

TITLE: Guying Details for 40' - 1 55N Towers, 110 MPH - Ice

55N Series

Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 110 mph fastest-

Tower Notes

listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by The areas

Antennas and mounts shall be symmetrically placed about the center of the tower Areas for flat member antennas can be found by dividing by 2 dividing by 1.2.

rower designs include three side arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet.

Design allows for two 7/8" diameter transmission lines to the top, per tower face, for a total of six.

Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Tower erection shall be performed by competent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes. Do not install or dismantle towers within falling distance of electrical and telephone lines. Do not i

Installation shall conform to local, state, and federal requirements for construction marking and lighting.

Field connections shall be bolted. No field welds are allowed.

Structural bolts 5/8" and larger shall conform to ASTM A325, and bolts 1/2" and smaller conform to SAE J429 Grade 5

All high strength bolts are to be tightened to a "sung tight" condition as defined in the November 13, 1985, AISC "Specification for Structural Joints Using 8 6 7 7

Structural steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F.
Purchaser shall verify the installation is in conformance with local, state, and federal requirements for construction marking and lighting.
Exposed structural steel is hot-dip galvanized per ASTM A123. A325 or A490 Bolts

as a minimum, maintenance and inspection will be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F

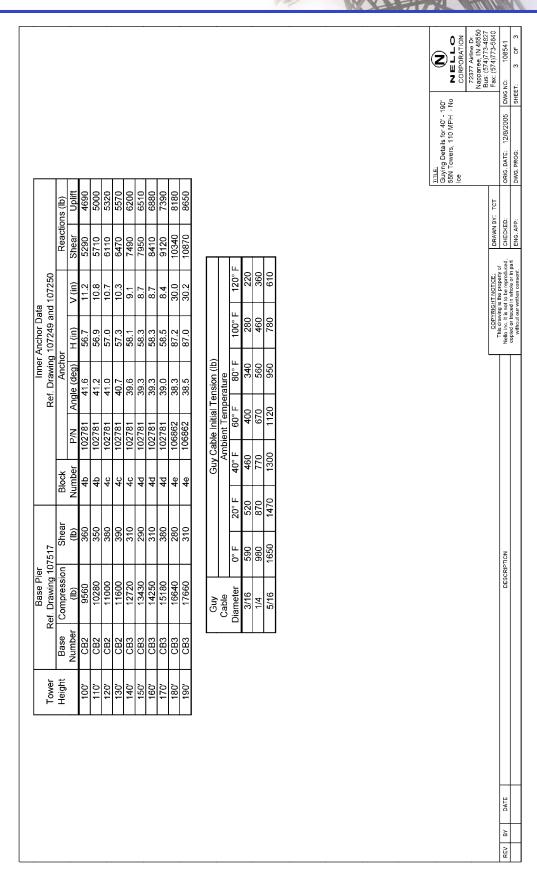
radius is from the tower base to the intersection of anchor rod with the ground.

Femporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector

specifications: Tube Legs - ASTM A513 Grade 50; Solid Rod Bracing - ASTM A36 6% to guy chord lengths for final cut lengths.

Nappanee, IN 46550 Bus: (574)773-4827 Fax: (574)773-5840

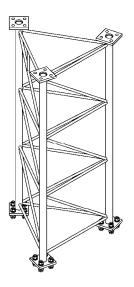
1301 Stahly Dr. - PO Box 376 - Nappanee, IN 46550 - 800-80-NELLO - Fax: 574-773-5840 - sales @nelloinc.com - www.nelloinc.com



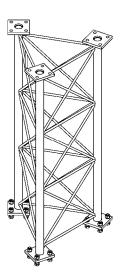


65N Series - Parts List

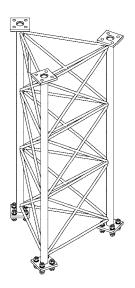
Part #	Description	Weight (Lbs)
106830	65N 5' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	108.0
105772	65N 5' Double Braced Special Section w / NSX Footpads - 2" Sch 80 Pipe (2.375" OD) (Assembly)	197.8
106953	65N 5' Heavy Double Braced Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	144.0
104584	65N 10' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	172.5
105773	65N 10' Heavy Transition Section to an NSX - NSX Footpad at Bottom - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	211.0
106291	65N 12' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	220.1
103213	65N 20' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	341.5
105044	65N 20' Heavy Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	396.3
105397	65N 20' Heavy Double Braced Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	481.9
104567	65N Tapered Base Section w/ ACWS	203.2
104570	65N Tapered Base Section - for A41971 Base Insulator	232.9
104573	65N Tapered Base Section w / ACWS (10' - For use w ith A4722B Insulator)	250.0
103214	65N 5' Standard Base Embedment Section - 1-1/2" Sch 40 (1.900" O.D.) (Assembly)	96.8
105822	65N Anchor Steel Assembly - 5/8" Anchor Bolts	76.0
103742	65N Joint Bolt Kit	0.9
104571	65N Cap Plates for a lightning rod (Set of 3 w / hardware)	12.0
104568	Bolt-on Guy Lug Assembly for up to 1/2" EHS and 2.375" Legs.	24.0
105894	NSX-2 Transition to a 65N Section (Assembly)	46.0
105389	Face Dish Mount Assembly for 65N - 2-3/8" O.D. Mounting Pipe	54.0
105390	Face Dish Mount Assembly for 65N - 3-1/2" O.D. Mounting Pipe	77.0
103215	65N Anti-Climb Panels (3) w / Hardware & ACWS	71.6
106957	65N Wall Mount Base Support Assembly	268.0
106960	65N Wall Mount Upper Support Assembly	92.0
105483	65N Torque Arm Assembly	195.0
104963	HD Universal House Bracket Assembly (65N)	103.0
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7
105818	65N to 55N Transition Assembly	110.0
106949	65N Side Arm Assembly	82.0

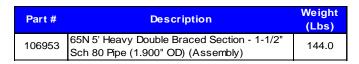


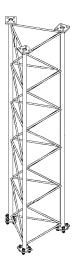
Part #	Description	Weight (Lbs)
106830	65N 5' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	108.0



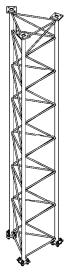
Part #	Description	Weight (Lbs)
105772	65N 5' Double Braced Special Section w / NSX Footpads - 2" Sch 80 Pipe (2.375" OD)	197.8



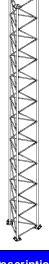




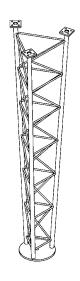
Part #	Description	Weight (Lbs)
	(1.900 OD) (Assembly)	172.5
105773	65N 10' Heavy Transition Section to an NSX - NSX Footpad at Bottom - 1-1/2" Sch 80 Pipe	211.0



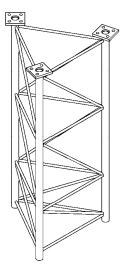
Part #	Description	Weight (Lbs)
106291	65N 12' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	220.1



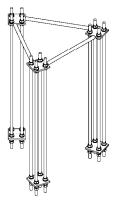
Part #	Description	Weight (Lbs)
103213	65N 20' Standard Section - 1-1/2" Sch 40 Pipe	341.5
103213	(1.900" OD) (Assembly)	341.3
105044	65N 20' Heavy Section - 1-1/2" Sch 80 Pipe	396.3
100044	(1.900" OD) (Assembly)	000.0
105397	65N 20' Heavy Double Braced Section - 1-1/2"	481.9
100001	Sch 80 Pipe (1.900" OD) (Assembly)	401.3



Part #	Description	Weight (Lbs)
104567	65N Tapered Base Section w / ACWS	203.2
104570	65N Tapered Base Section - for A41971 Base Insulator	232.9
104573	65N Tapered Base Section w / ACWS (10' - For use with A4722B Insulator)	250.0



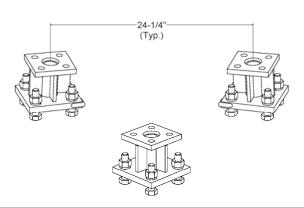
Part #	Description	Weight (Lbs)
103214	65N 5' Standard Base Embedment Section - 1-1/2" Sch 40 (1.900" O.D.) (Assembly)	96.8



Part #	Description	Weight (Lbs)
105822	65N Anchor Steel Assembly - 5/8" Anchor Bolts	76.0







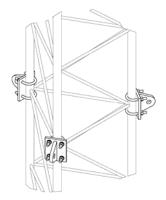
Part #	Description	Weight (Lbs)
105894	NSX-2 Transition to a 65N Section (Assembly)	46.0







Part #	Description	Weight (Lbs)
103742	65N Joint Bolt Kit	0.9



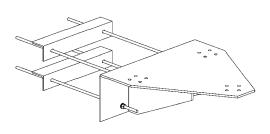
Part #	Description	Weight (Lbs)
104568	Bolt-on Guy Lug Assembly for up to 1/2" EHS and 2.375" Legs.	24.0



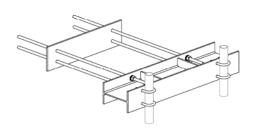
Part #	Description	Weight (Lbs)
100000	Face Dish Mount Assembly for 65N - 2-3/8" O.D. Mounting Pipe	54.0
105390	Face Dish Mount Assembly for 65N - 3-1/2" O.D. Mounting Pipe	77.0



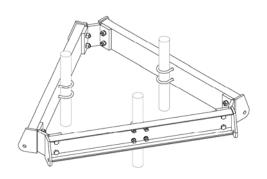
Part #	Description	Weight (Lbs)
103215	65N Anti-Climb Panels (3) w/Hardware &	71.6
	ACWS	71.0



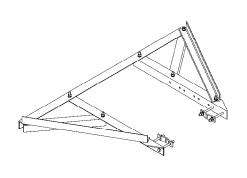
Part #	Description	Weight (Lbs)
106957	65N Wall Mount Base Support Assembly	268.0



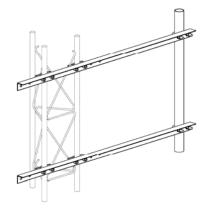
Part #	Description	Weight (Lbs)
106960	65N Wall Mount Upper Support Assembly	92.0



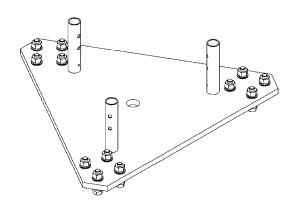
Part #	Description	Weight (Lbs)
105483	65N Torque Arm Assembly	195.0



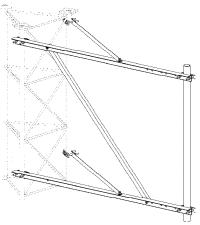
Part #	Description	Weight (Lbs)
104963	HD Universal House Bracket Assembly (65N)	103.0



Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7



Part #	Description	Weight (Lbs)
105818	65N to 55N Transition Assembly	110.0



Part #	Description	Weight (Lbs)
106949	65N Side Arm Assembly	82.0

SELF-SUPPORTING TOWERS ALLOWABLE ANTENNA AREAS

(SQ.FT. - CAAA)

		9 P	135.0	85.0	49.0	37.7	25.0	17.2	8.0	2.6	0:0	0:0	0.0
	٠	25N	57.0	26.0	9:0	5.7							
	1/2" Ice	45N	30.0	10.0									
	`	25N	70.5	2.1									
90 MPH		20N											
₩ 06		N99	103.6	65.0	40.0	32.2	24.1	17.7	74.5	2.7	3.3	0.0	0'0
		55N	45.0	23.0	12:0	9.4	0.4	2.2					
	No Ice	45N	25.0	110	4.0	10							
		25N	5.01	6.9	1.7								
		20N											
		N29	174.3	105.0	65.0	53.4	39.0	28.8	19.1	11.4	4.1	0.0	0.0
		55N	74.0	35.0	15.0	12.4	2.5						
	1/2" 100	45N	40.0	15.0	2.7								
	-	25N	5.5	7.1									
80 MPH		20N											
80 N		65N	133.0	85.0	55.8	44.0	34.1	26.2	19.7	14.5	9.4	13	0.0
		55N	57.0	30.0	17.0	14.5	8.0	5.9	15				
	0 N	45N	30.0	16.0	7.5	4.7	4.						
	-	25N	14.3	9.0	3.7	17							
		20N											
		65N	231.4	150.0	95.0	76.4	59.1	45.7	33.5	25.0	16.0	1.9	0.0
		N99	0'66	52.0	27.0	22.2	8.0	5.5					
	1/2" 100	45N	55.0	25.0	9.0	4.7							
	1/4	25N	22.8	4.4	2.5								
H		20N											
70 MPH		N29	175.9	17.0	76.2	612	48.8	39.0	29.3	24.4	18.4	8.7	6.0
		55N	75.0	43.0	26.0	219	0.0	11.4	6.5	4.0			
	No Ice	45N	42.5	22.0	12.0	8.7	5.7	2.3					
		25N	7.61	24.	6.4	3.6	री						
		20N											
		Height (Ft.)	O.	20	30	35	40	45	50	55	09	70	80

s with ANSI/TIA/EIA-222-F and must be verified by others prior to installation

. Structural steel shall be hot dipped galvanized after fabrication in accordance with ANS/IT/A/EN 222 F.
Purchaser shall verify the installation is in conformance with local, state and federal requiements for construction marking and lighting.

nance and inspection will be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.

©. To wer must have "fixed" base. Prinned base must not be used.

10. Design assumes two 70°F transmission limes to neart hace of tower for a total of six lines.

14. Antennas and mounts are assumed to be symmetrically placed at tower apex.

15. Do not tristall or dismantle towers within falling distance of electrical and/or telephone lines.

15. Install Anti-climb varning sign in highly visible location.

	ROH	8/25/2004 N-S	N-Series Self-Supporting	2
	CHECKED		Towers Allowable Antenna	Д П П
	RCH	8/25/2004	Area	NO EVO
	MFG			TOOT SHIP
				72377 AITINE Dr.
	APPROVED			Nappanee, IN 46550
	DOI	8/25/2004		Bus: (574)773-4827
COPVBIGHT NOTICE:	WEIGHT			Fax: (574)773-5840
This drawing is the property of			ON DWG	REV
Nello Inc. It is not to be reproduced,			106378	(9)
copied or traced in whole or in part without our written consent.			PRJNO	SHEET 1 OF 1

Towns No	Overturning moment	Max. Allowable	19/	Concrete Required
OWEI NO.	Foot Pounds	Shear pounds		Cu. Yds.
20N	008'9	200		2.4
25N	6,800	700	40,,	2.4
45N	12,800	1,600	5'-3"	4.1
92N	22,900	1,600	6'-0"	5.3
N59	49,600	3,800	19,,	8.9

1 Foundation Designs are in accordance with ANSI/EIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", Section 7, for "Normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 psf per lineal foot of depth to a maximum of 4000 PSF.

2. Foundation designs assume that a field inspection will be performed in order to verify that the actual site soil parameters meet or exceed EIA "Normal" soil parameters and that the depth of standard foundations are adequate based on the frost penetration and/or zone of seasonal moisture variation at the site.

 Concrete material shall conform to the appropriate state requirements for exposed structural concrete. Reinforcement shall be deformed and conform to the requirements of ASTM A815 Grade 60
unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise indicated

Welding is prohibited on reinforcing steel and embedments

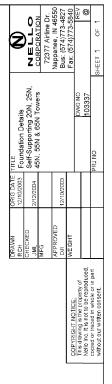
6. Foundation designs assume structural backfill to be compacted in 12" Lifts to a 97% of maximum dry density at optimum moisture content in accordance with ASTM D698.

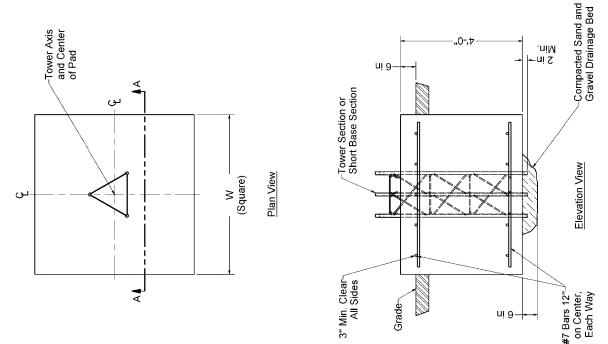
. Foundation designs assume level ground at tower site.

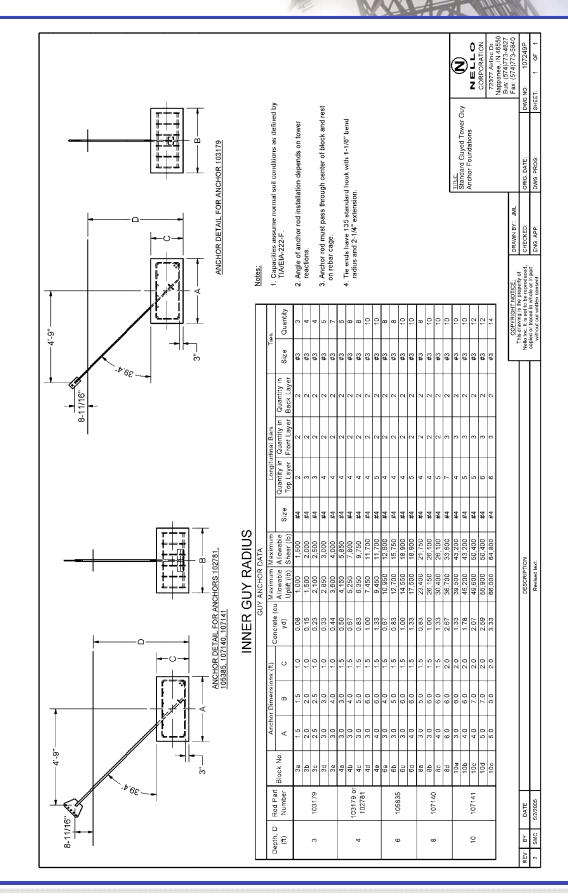
8. Loose material shall be removed from bottom of excavation prior to concrete placement.

9. Concrete cover from exposed surface of concrete to surface of reinforcement shall not be less than β° .

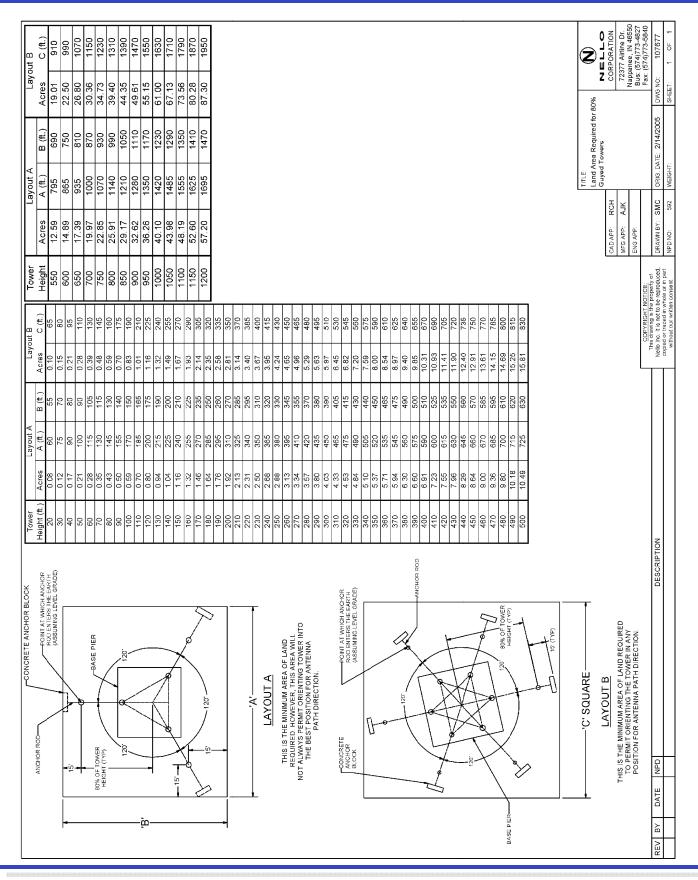
10. Concrete shall develop a minimum compressive strength of 3,000 psi in 28 days.

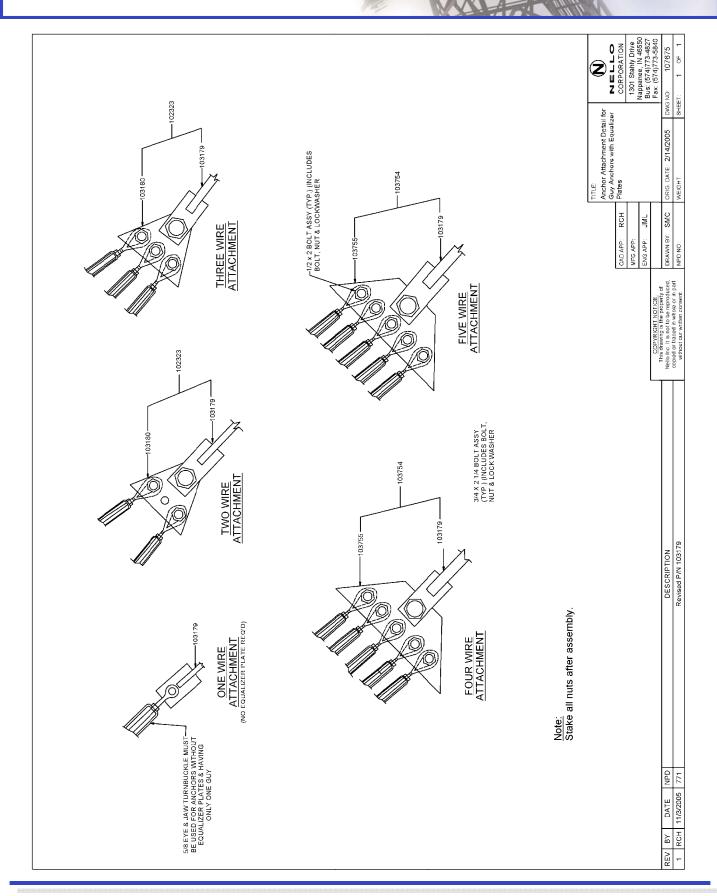




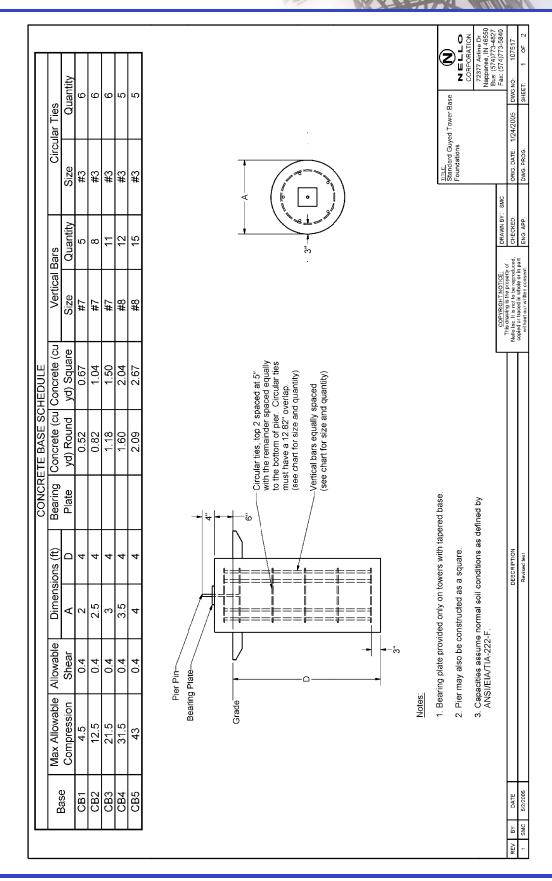


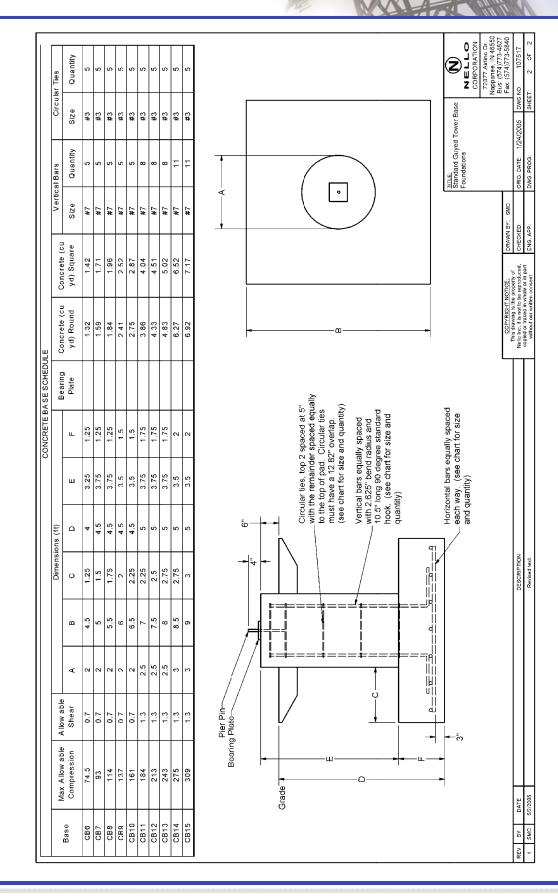
ORPORATION











DELLO CORPORATION 1301 Stahly Drivo Nappanee, IN 46550 Bus (574)773-58407 Fax. (574)773-58407

ORIG. DATE:

DRAWN BY:

TITLE: Standard Tower Foundation

V Series Towers

Foundation Notes

1. Foundation design assumes normal soil conditions as defined by ANSI/EIA/TIA-222-F. Normal soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 psf and an allowable net horizontal pressure of 400 psf per lineal foot of depth to a maximum of 4000 psf. 2. A field inspection shall be performed in order to verify that the actual site soil parameters meet or exceed the assumed soil parameters and that the depth of standard foundations are adequate based on the frost penetration and groundwater depth. Local frost depth must be no deeper than the bottom of the base foundation or top of the anchor.

Reinforcement shall be deformed and conform to the requirements of ASTM A615 Grade 60 unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise indicated.

4. Welding is prohibited on reinforcing steel and anchorage.

Structural backfill must be compacted in 12" loose lifts to a 97% of maximum dry density at optimum moisture content in accordance with ASTM D698. Backfill must be clean and free of organic and frozen soils and foreign materials.

Foundation designs assume level ground at tower site.

7. Loose material shall be removed from bottom of excavation prior to concrete placement.

Concrete cover from exposed surface of concrete to surface of reinforcement shall not be less than

 Concrete and reinforcement installation must conform to ACI 318, "Building Code Requirements for Structural Concrete."

Concrete shall develop a minimum compressive strength of 3000 psi in 28 days.

11. Concrete shall be placed on the same day that the excavation is made.

Telescoping Masts

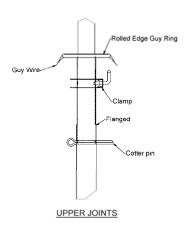


Telescoping Masts

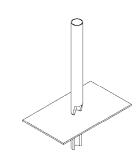


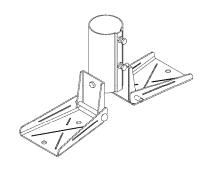
Material	Pre-galvanized	Design:	Lightw eight
Included:	pipe sections.		masts for
	Clamps and guy		quick
	rings.		installation
Order	Bases and wire	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
103541	20' Telescoping Mast	15.0
103542	30' Telescoping Mast	24.0
103543	40' Telescoping Mast	32.0
102527	50' Telescoping Mast	42.0



Mast Accessories





Part #	Description	Weight (Lbs)	
105285	Drive-in Telescoping Ground Mount	1.7	

Part #	Description	Weight (Lbs)
105164	Universal Ridge Mount (Fits up to 1-3/8" Mast)	1.3
105163	Universal Ridge Mount (Fits up to 1-7/8" Mast)	1.8
104755	Universal Ridge Mount (for 2-1/4" Mast)	2.1

Telescoping Masts



Mast Accessories



Part #	Description	Weight (Lbs)
104722	Earth Screw Anchor,11/16" x 48" Long	6.5



Part #	Description	Weight (Lbs)
103584	6 Strand, 18 Ga. Guy Wire, 1000'	31.5
103585	6 Strand, 20 Ga. Guy Wire, 1000'	25.0

Lighting



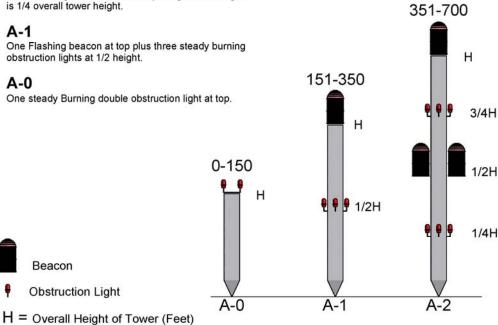
Red Light Kits

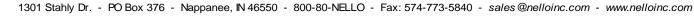
These FAA Red Obstruction Lighting Systems provide a complete tow er lighting solution for up to 700'. In addition to the beacons and OB lights each kit includes a controller, photocell and all junction boxes, conduit and related hardware. These systems comply with FAA Advisory Circular AC 70/7460-1K.

Part #	Description	Weight (Lbs)	Height Range (Ft)	FAA Type	Beacons	OB Levels
107704	A-O Red Double Obstruction Light Kit, 150'.	0.0	0 - 150	A-0	0	1
107049	A-1 Red Incandescent Light Kit,151' - 350'. TWR	775.0	151 - 350	A-1	1	1
106779	A-2 Red Incandescent Light Kit,351' - 700'.	955.0	351 - 700	A-2	2	2

A-2

Flashing beacon at two levels. Three steady burning obstruction lights at two levels. Spacing between light is 1/4 overall tower height.





Lighting



Medium Intensity Dual Light Kits

These FAA Medium Intensity Dual Light Kits provide a complete tow er lighting solution for up to 500'. In addition to the dual strobe and OB lights each kit includes a controller, photocell, Flashhead Cable, side light cable and all associated hardware. These systems with FAA Advisory Circular AC 70/7460-1K.

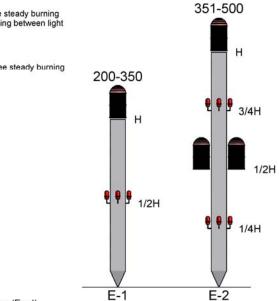
Part #	Description	Weight (Lbs)	Height Range (Ft)	FAA Type	Beacons	OB Levels
TWR						
109743	FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (TWR)	500.0	0 - 200	E-1	1	1
103744	FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (TWR)	500.0	201 - 250	E-1	1	1
109744	FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (TWR)	500.0	251 - 300	E-1	1	1
104726	FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR)	500.0	200 - 350	E-1	1	1
109745	FAA E-2 Dual Lighting kit with alarms 351'-400' (50' extra cable) (TWR)	1500.0	351 - 400	E-2	3	2
109746	FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (TWR)	1500.0	351 - 500	E-2	3	2
Honeywe	II					
109747	FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (Honeywell)	400.0	0 - 200	E-1	1	1
109748	FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (Honeywell)	400.0	201 - 250	E-1	1	1
109749	FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (Honeywell)	400.0	251 - 300	E-1	1	1
109750	FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeywell)	400.0	200 - 350	E-1	1	1
109751	FAA E-2 Dual Lighting kit with alarms 351'-400' (50' extra cable) (Honeywell)	770.0	351 - 400	E-2	3	2
109752	FAA E-2 Dual Lighting kit with alarms 401'-500' (50' extra cable) (Honeywell)	770.0	401 - 500	E-2	3	2

E-2

Flashing beacon at two levels. Three steady burning obstruction lights at two levels. Spacing between light is 1/4 overall tower height.

E-1

One Flashing beacon at top plus three steady burning obstruction lights at 1/2 height.





Beacon

Obstruction Light

H = Overall Height of Tower (Feet)

Lighting

CORPORATION

Weight

(Lbs)

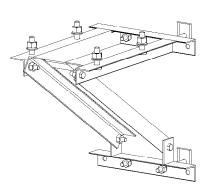
Beacons and Accessories



Material Included:	Frame, red lens and hardware.	Design:	Beacon complies with
			FAA requirements.
Order	Bulbs, external	Mounts to:	Beacon mount
Seperately:	flasher unit and mount		

Part #	Description	Weight (Lbs)	FAA Type
105565	300mm Red Incandescent Beacon	100.0	L864

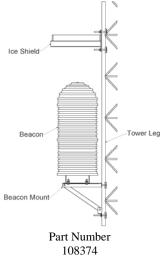
Part #



Part Number 100610



Part Number 100473



Beacon R	Beacon Replacement Parts			
105566	Beacon Bulb, 620 w att w ith Durex Glass	1.0		
103582	Red Beacon Filter Lens	3.0		
109894	Red Flashing Beacon Dome Lens	9.0		
109895	Red Flashing Beacon Upper Lens	15.0		
109896	Red Flashing Beacon Low er Lens	10.0		
109897	Red Flashing Beacon Gasket Kit	1.0		
109898	Red Flashing Beacon Lamp Receptacle	1.0		

Description

Part #	Description	Weight (Lbs)
Beacon A	ccessories	
100610	Beacon Side Mount Assembly, Tapered or Straight (1-1/2 to 4-1/2" OD)	22.0
108374	Beacon Platform Mount Assembly, 1-1/2 to 4-1/2" OD	67.0
100473	Beacon Stacker Assembly	38.0

Paint

Tower Paint

Detailed specifications covering tow er marking can be found in the latest revision to FAA Advisory Circular AC 70/7460-1, "Obstruction marking and Lighting". Alernate sections of avaiation oragne and aviation white paint provide maximum visibility of a structure by contrasting color. To be effective, paint should meet specific color requirements when freshly applied to a structure. However, all outdoor paints deteriorate with time. While it is not practical to give a maintenance schedule for all climates, surfaces shold be repainted when the color changes noticeably or its effectiveness is reduced by scaling, oxidation,k chipping or layers of industrial contamination. Toerance charts are available for determining when repainting is required. The color should be sampled on the upper half of the structure since weathering is greater there.

Part #	Description	Weight (Lbs)
104833	FAA Orange Paint - 1 Gallon	11.0
104834	FAA White Paint - 1 Gallon	11.0
106777	Paint Mitt	0.2

Color Band Characteristics

- 1. Band Width is one-seventh of height of towers 700 feet or less. For each additional 200 feet, or fraction thereof, add two additional bands.
- 2. Bands are equal in width, provided each band is not more than 100 feet.
- 3. There will be an odd number of bands, perpendicular to the axis, with bands at top and bottom ends colored orange.

Tower Height	Band Width
Up to 700 Feet	1/7 of Height
701 to 900 Feet	1/9 of Height
901 to 1100 Feet	1/11 of Height
1101 to 1300 Feet	1/13 of Height

Cold Galvanizing Spray

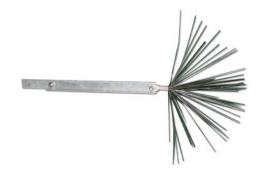


Part #	Description	Weight (Lbs)
100230	Cold Galvanizing Spray (1 Can)	0.8

Dissipaters

N. E. L. D. CORPORATION

Gila Stat Dissipaters



Material	Dissipater. Mount	Design:	1/8" Stainless
Included:	included for		steel rods on
	applications over		applications
	100'		over 100'
Order	Mounts for	Mounts to:	Tow er legs,
Seperately:	applications		roof mounts,
	under 100'		guy wires and
			beacon mounts

Part #	Description	Weight (Lbs)	Height Range (Ft)
110001	Gila Stat GS-1	1.0	0 - 100
110002	Gila Stat GS-3 w ith leg mount	8.0	101 - 200
110003	Gila Stat Eagles Nest with mount	30.0	201+





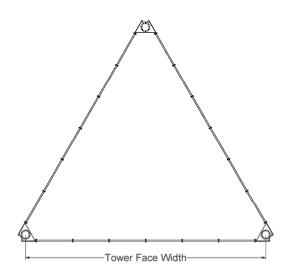
The *GILA-STAT* is an improved version of a design that has had great success for more than 15 years. Constructed of stainless steel and high quality aluminum, it is extremely rugged to survive the worst weather conditions for many years. Unile some dissipaters that are made with thin wires that can be damaged by wind, ice and hail, the *GILA-STAT* is made with 1/8" stainless steel individually sharpened rods which will not be damaged by weather, birds or other hazzards.

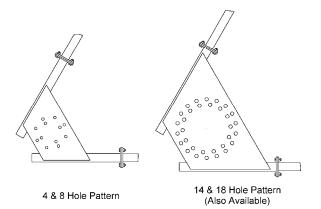
Included is a mount which is custom manufactured to suit the customer's application. Normally a ground wire is not needed if there is an adequate path for the small electrical current, but ground wire and ground rods can be supplied. The must be a path of low resistance to the current to ground, but this is not difficult to attain.

The **GILA-STAT** can be used singly or as a system of dissipaters for large facilities such as tall broadcast or communication tow ers.

Templates

NSX Tower Universal Templates



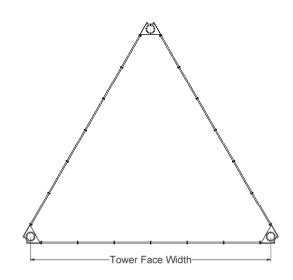


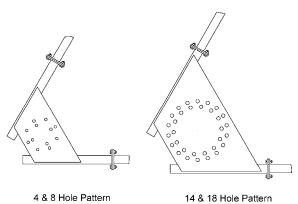
Material Included:	Corner templates, spacers and hardw are	Design:	Universal design with dual hole patterns
Order Seperately:	N/A	Mounts to:	N/A

Part #	Description	Weight (Lbs)	Face Width (Ft)
Unversal	4 - 8 Hole Pattern		
106193	NSX Tow er Template Assembly - NSX-3.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	122.9	3.5
106194	NSX Tow er Template Assembly - NSX-5.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	149.9	5.0
106195	NSX Tow er Template Assembly - NSX-6.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	166.4	6.5
106196	NSX Tow er Template Assembly - NSX-8.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	193.4	8.0
106197	NSX Tow er Template Assembly - NSX-9.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	199.3	9.5
106198	NSX Tow er Template Assembly - NSX-11.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	226.3	11.0
106199	NSX Tow er Template Assembly - NSX-12.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	242.8	12.5
106200	NSX Tow er Template Assembly - NSX-14.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	269.8	14.0
106201	NSX Tow er Template Assembly - NSX-15.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	275.7	15.5
106202	NSX Tow er Template Assembly - NSX-17.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	302.7	17.0
106203	NSX Tow er Template Assembly - NSX-18.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	319.2	18.5
106204	NSX Tow er Template Assembly - NSX-20.0 (Universal 4 - 8 Hole Pattern) (Pipe Style)	346.2	20.0
106205	NSX Tow er Template Assembly - NSX-21.5 (Universal 4 - 8 Hole Pattern) (Pipe Style)	352.1	21.5

Templates

NSX Tower Universal Templates





Material Corner templates, Design: Universal Included: spacers and design with dual hardware for various face widths

Order N/A Mounts to: N/A Seperately:

Part #	Description	Weight (Lbs)	Face Width (Ft)
Unversal	14 - 18 Hole Pattern		
106482	NSX Tow er Template Assembly - NSX-11 (Universal 14 - 18 Hole Pattern) (Pipe Style)	338.1	11.0
106208	NSX Tow er Template Assembly - NSX-12.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	354.6	12.5
106209	NSX Tow er Template Assembly - NSX-14.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	381.6	14.0
106210	NSX Tow er Template Assembly - NSX-15.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	387.5	15.5
106211	NSX Tow er Template Assembly - NSX-17.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	414.5	17.0
106212	NSX Tow er Template Assembly - NSX-18.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	431.0	18.5
106213	NSX Tow er Template Assembly - NSX-20.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	458.0	20.0
106214	NSX Tow er Template Assembly - NSX-21.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	463.9	21.5
106215	NSX Tow er Template Assembly - NSX-23.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	490.9	23.0
106216	NSX Tow er Template Assembly - NSX-24.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	507.4	24.5
106217	NSX Tow er Template Assembly - NSX-26.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	534.4	26.0
106218	NSX Tow er Template Assembly - NSX-27.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	540.3	27.5
106219	NSX Tow er Template Assembly - NSX-29.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	567.3	29.0
106220	NSX Tow er Template Assembly - NSX-30.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	583.8	30.5
106221	NSX Tow er Template Assembly - NSX-32.0 (Universal 14 - 18 Hole Pattern) (Pipe Style)	610.8	32.0
106222	NSX Tow er Template Assembly - NSX-33.5 (Universal 14 - 18 Hole Pattern) (Pipe Style)	616.7	33.5

NSX Tower Multi-Universal Templates

Material Included:	Corner templates, spacers and hardware for various face widths	Design:	Universal design w ith dual hole patterns
Order Seperately:	N/A	Mounts to:	N/A

Part #	Description	Weight	Face Width Range	
Part # Description (Lbs)		(Lbs)	Min. (Ft)	Max. (Ft)
Multi-Unv	versal 4 - 8 Hole Pattern			
106412	NSX Tow er Template Assembly (Pipe Style)	422.4	3.5	21.5
100+12	(Multi-Universal) - NSX-3.5 to NSX-21.5	422.4	5.5	21.0
Mulit-Unv	versal 14 - 18 Hole Pattern			
106347	NSX Tower Template Assembly (Pipe Style)	687.0	12.5	33.5
100347	(Multi-Universal) - NSX-12.5 to NSX-33.5	007.0	12.5	33.3

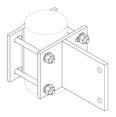
Safety Climbs

N. E. L. L. CORPORATION

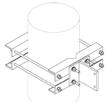
Safety Climbs, Self Supporting and Pole Towers



Guyed Version Pictured



Part Number 103376

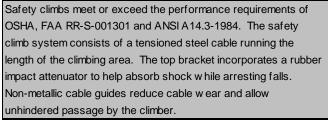




Part Number 104041



Part Number 104042



Part #	Description	Weight (Lbs)
Safety Cl	imbs, Self Supporting and Pole Towers	
103583	NSX Safety Climb Kit, 100'. Includes Cable and Guides.	50.0
103574	NSX Safety Climb Kit, 200'. Includes Cable and Guides.	70.0
103574	NSX Safety Climb Kit, 200'. Includes Cable and Guides.	70.0
106414	NSX Safety Climb Kit, 400'. Includes Cable and Guides.	130.0
Safety Cl	imbs, Guyed Towers	
106054	NGX Safety Climb Kit, 100'. Includes Cable, Guides and Top/Bottom Mounting Brackets	60.0
103712	NGX Safety Climb Kit, 200'. Includes Cable, Guides and Top/Bottom Mounting Brackets	90.0
103709	NGX Safety Climb Kit, 300'. Includes Cable, Guides and Top/Bottom Mounting Brackets	125.0
103711	NGX Safety Climb Kit, 400'. Includes Cable, Guides and Top/Bottom Mounting Brackets	150.0
106053	NGX Safety Climb Kit, 500'. Includes Cable, Guides and Top/Bottom Mounting Brackets	190.0
Safety Cl	imb Mountng Brackets	
103376	Bolt-on Safety Climb Assembly (1-1/2" OD to 4-1/2" OD)	14.0
103377	Bolt-on Safety Climb Assembly (5" OD to 13" OD)	41.0
Safety Cl	imb Accessories	
104041	2D Full Body Harness	5.0
104042	Small Autolock Carabiner	2.0
104868	Wire Grab Fall Arrestor	2.0



Part Number 104868

Hardware



Weight

(Lbs)

Bolts

Material	Hot dip	Design:	Grade 5 and
Included:	galvanized bolt		A325
Order	Nuts and	Mounts to:	n/a
Seperately:	washers		



100137	3/8"-16 x 1" Grade 5 bolt, HDG (1" Thd)	0.1		
100233	3/8"-16 x 1-1/2" Grade 5 bolt, HDG (1" Thd)	0.1		
100406	3/8"-16 x 2" Grade 5 bolt, HDG (1-1/8" Thd)	0.1		
100242	1/2"-13 x 1-1/2" Grade 5 bolt, HDG (Full Thd)	0.1		
100110	1/2"-13 x 2" Grade 5 bolt, HDG (1-1/4" Thd)	0.2		
100580	1/2"-13 x 2" A325 HDG Bolt (1" Thd)	0.2		
100302	1/2"-13 x 2-1/2" A325 Bolt, HDG (1" Thd)	0.2		
100111	1/2"-13 x 4-1/2" Grade 5 bolt, HDG (Full Thd)	0.3		
100112	1/2"-13 x 6" Grade 5 bolt, HDG Full Thread	0.4		
100450	1/2"-13 x 10" Grade 5 bolt, HDG (1-1/2" Thd)	0.6		
100191	5/8"-11 x 2-1/4" A325 bolt, HDG (Full Thd)	0.3		
100379	5/8"-11 x 4-1/2" A325 Bolt, HDG (1-1/4" Thd)	0.5		
100237	3/4"-10 x 2" A325 Bolt HDG (1-3/8" Thd)	0.4		
100377	3/4"-10 x 2-1/2" A325 Bolt, HDG (1-3/8" Thd)	0.5		
Flat W	Flat Washers			

Description

Nuts

Material	Hot dip	Design:	ASTM A563
Included:	galvanized nut		specification
Order	Bolts and	Mounts to:	n/a
Seperately:	washers		



Part #	Description	Weight (Lbs)
100114	3/8"-16 Grade DH Nut HDG	0.1
100115	1/2"-13 Grade DH Nut - HDG	0.1
100192	5/8"-11 Grade DH Nut - HDG	0.1
100380	3/4"-10 Grade DH Nut - HDG	0.2

Part #

Material	Galvanized lock	Design:	helical spring
Included:	washer		design
Order	Bolts and nuts	Mounts to:	n/a
Seperately:			



Part #	Description	Weight (Lbs)
100120	3/8" Lock Washer HDG or MG	0.1
100121	1/2" Lock Washer HDG or MG	0.1
100194	5/8" Lock Washer HDG or MG	0.1
100381	3/4" Lock Washer HDG or MG	0.1

Hardware

N E L L D

Lock Washers

MaterialGalvanizedDesign:ASTM F436Included:w asherspecification.OrderBolts and nutsMounts to: n/aSeperately:



Part #	Description	Weight (Lbs)
100117	3/8" Flat Washer HDG or MG	0.1
100118	1/2" Flat Washer F436 HDG or MG	0.1
100193	5/8" Flat Washer F436 - HDG or MG	0.1
100236	3/4" Hard Round Washer F436 HDG	0.1

U-Bolt Kit



Threaded Rod

Material	Galvanized	Design:	ASTM
Included:	threaded rod		specifications
			shown below
Order	Nuts and	Mounts to:	n/a
Seperately:	washers		



Part #	Description	Weight (Lbs)
100105	1/2"-13 x 13" Threaded Rod, Grade 2 - HDG	0.7
100147	1/2"-13 x 18" A449 Threaded Rod - HDG	1.0
100106	1/2"-13 x 24" Threaded Rod, Grade 2 - HDG	1.3
100107	1/2"-13 x 36" Threaded Rod, Grade 2 - HDG	2.0
102279	5/8"-11 x 8-3/8" Threaded Rod, A449 - HDG	0.7
101716	5/8"-11 x 10-1/2" Threaded Rod, A449 - HDG	0.9
101935	5/8"-11 x 14" Threaded Rod, A449 - HDG	1.2
101234	5/8"-11 x 21" Threaded Rod, A449 - HDG	1.8

 Material
 Galvanized Ubolt, Included:
 Design: ASTM A36

 Included:
 w ashers, lock specifications with DH nuts nuts

 Order
 n/a

 Mounts to: n/a

 Seperately:

Part #	Description	Weight (Lbs)
	1/2"-13 U-Bolt 1/2"-13 x 3-3/8" x 1-3/4" x	
100216	2" (DxLxCxT) Galvanized, Assembled with	0.5
	Nuts	
	1/2"-13 U-Bolt 1/2"-13 x 4" x 2-1/2" x 2"	
100100	(DxLxCxT) Galvanized, Assembled with	0.6
	Nuts	
	1/2"-13 U-Bolt 1/2"-13 x 5" x 3-5/8" x 2"	
105625	(DxLxCxT) Galvanized, Assembled with	0.7
	Hardw are.	
	1/2"-13 U-Bolt 1/2"-13 x 6" x 4-5/8" x 2"	
105626	(DxLxCxT)(Grade 5) Galvanized,	0.9
	Assembled with Hardware.	

Hardware



J-Bolt Kit



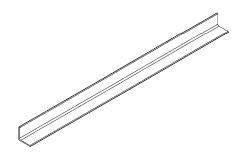
Material	Galvanized J-bolt	Design:	SAE J429 Gr.
Included:	and nut		2
			specifications
Order	Washers	Mounts to:	n/a
Seperately:			

Part #	Description	Weight (Lbs)
	3/8" J-Bolt 3/8"-16 x 9" x 1-1/2" x 7" x 60	0.4
	deg. HDG, Assembled with DH Nut	0.4

Angle, Pipe & Tube



Angle



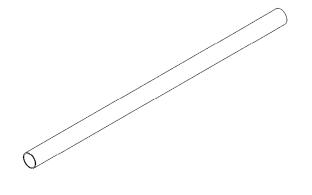
Part #	Description	Weight
Pre-Cut F	Plain End Pipe	(Lbs)
100203	1-1/4" Sch. 40 Galvanized Pipe - 10'-6"	24.0
100204	1-1/4" Sch. 40 Galvanized Pipe - 12'-0"	27.0
100618	2" Sch. 40 Galvanized Pipe - 6'-0"	22.0
100201	2" Sch. 40 Galvanized Pipe - 7'-0"	26.0
100615	2" Sch. 40 Galvanized Pipe - 8'-0"	29.0
100282	2" Sch. 40 Galvanized Pipe - 9'-0"	33.0
100266	2" Sch. 40 Galvanized Pipe - 10'-6"	38.0
100348	2" Sch. 40 Galvanized Pipe - 12'-0"	44.0
103686	2" Sch. 40 Galvanized Pipe - 13'-6"	49.0
100267	2" Sch. 40 Galvanized Pipe - 15'-0"	55.0
100879	3" Sch. 40 Galvanized Pipe - 5'-0"	38.0
100454	3" Sch. 40 Galvanized Pipe - 10'-6"	80.0
102455	3" Sch. 40 Galvanized Pipe - 12'-0"	91.0
100128	3" Sch. 40 Galvanized Pipe - 14'-0"	106.0
100198	3" Sch. 40 Galvanized Pipe - 16'-0"	121.0
101247	3" Sch. 40 Galvanized Pipe - 16'-6"	125.0
100166	4" Sch. 40 Galvanized Pipe - 5'-2" Long	56.0
Bulk Pipe		
102507	2" Sch. 40 Galvanized Pipe - 21'-0"	77.0
103341	3" Sch. 40 Galvanized Pipe - 21'-0"	159.0
102508	4" Sch. 40 Galvanized Pipe - 21'-0"	227.0

Material	Hot dip	Design:	A36
Included:	galvanized angle		
Order	n/a	Mounts to	: n/a
Seperatel	y:		

Part #	Description	Weight (Lbs)
Bulk Ang	le	
104533	Angle, 2" x 2" x 3/16", 20' Long. Galvanized	48.8
104534	Angle, 2-1/2" x 2-1/2" x 3/16", 20' Long. Galvanized	63.0
104535	Angle, 3" x 3" x 3/16", 20' Long. Galvanized	75.0

Pipe

Material	Hot dip	Design:	Schedule 40.
Included:	galvanized pipe		A500 Grade B
Order Seperately:	n/a	Mounts to:	n/a

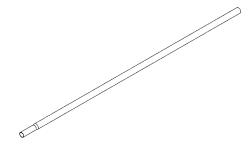




Angle, Pipe & Tube



1-1/4" Tubing, Swaged



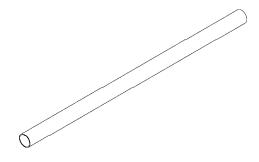
MaterialHot dipDesign:Schedule 40.Included:galvanized pipeA500 Grade BOrdern/aMounts to: n/aSeperately:

Part #	Description	Weight (Lbs)
102639	1-1/4" OD x 18 Ga x 5' Pre-Galv. Tubing -	3.1
	Sw aged End	
102841	1-1/4" OD x 18 Ga x 10' Pre-Galv. Tubing -	6.3
102041	Sw aged End	0.5
102325	1-1/4" OD x 16 Ga x 5' Galv. Tubing - Sw aged	4.1
102323	End	4.1
102842	1-1/4" OD x 16 Ga x 10' Galv. Tubing -	8.2
102042	Sw aged End	0.2
102640	1-1/4" OD x 16 Ga x 10' Pre-Galv. Tubing -	8.2
102040	Sw aged End	0.2

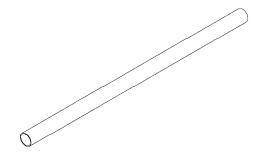
Material	Hot dip	Design:	Schedule 40.
Included:	galvanized pipe		A500 Grade B
Order Seperately:	n/a	Mounts to:	n/a

Part #	Description	Weight (Lbs)
102646	1.66" OD x 18 Ga x 5' Pre-Galv. Tubing	4.2
102348	1.66" OD x 18 Ga x 10' Pre-Galv. Tubing	8.4

1.66" OD Tubing



2" OD Tubing



Material	Hot dip	Design:	Schedule 40.
Included:	galvanized pipe		A500 Grade B
Order Seperately:	n/a	Mounts to:	n/a

Part #	Description	Weight (Lbs)
100495	2" OD x 18 Ga x 6' Pre-Galv. Tubing	16.3



Part Number	Weight (Lbs)	Page Number
100100	0.6	185
100105	0.7	185
100106	1.3	185
100107	2.0	185
100108	0.4	186
100110	0.2	184
100111	0.3	184
100112	0.4	184
100114	0.1	184
100115	0.1	184
100117	0.1	185
100118	0.1	185
100120	0.1	184
100121	0.1	184
100128	106.0	187
100129	111.0	59
100131	375.0	55
100137	0.1	184
100146	0.6	60
100147	1.0	185
100151	35.0	38
100152	37.0	38
100153	39.0	38
100166	56.0	187
100167	97.0	33
100172	147.0	33 42
100184 100191	7.5	184
100191	0.3	184
100193	0.1	185
100193	0.1	184
100194	28.0	36
100198	121.0	187
100199	17.0	59
100200	11.0	58
100201	26.0	187
100203	24.0	187
100204	27.0	187
100216	0.5	185
100218	72.0	33
100221	112.0	59
100222	5.1	58
100223	119.0	33
100224	84.0	37
100228	41.9	37
100230	0.8	179
100233	0.1	184
100236	0.1	185
100237	0.4	184
100242	0.1	184
100265	108.6	60
100266	38.0	187
100267	55.0	187 76
100272	20.0 33.0	76 187
100282 100297	8.3	58
100297	125.0	31
100298	177.9	31
100302	0.2	184
100302	563.0	56
100319	729.0	56
100320	23.2	42
100322	192.0	31
100323	245.1	31
100341	2.0	76

	7.7	BOX
Part Number	Weight (Lbs)	Page Number
100344	1.1	40
100346	1.9	82
100347	3.4	82
100348	44.0	187
100377	0.5	184
100379	0.5	184
100380	0.2	184
100381	0.1	184
100406	0.1	184
100410	102.5	32
100447	1,130.0	45
100450	0.6	184
100454	80.0	187
100468	75.0	49
100470	47.0	59
100473	38.0	178
100477	103.0	68
100488	2.8	70
100490	9.0	69
100491	4.7	68
100495	16.3	188
100513	75.0	37
100521	10.1	35
100527	4.8	35
100528	4.3	35
100529	7.5	35
100531	8.6	36
100557	19.5	70
100580	0.2	184
100581	0.4	91
100582	0.7	91
100583	0.8	91
100584	1.9	96
100585	4.8	96
100586	6.5	96
100587	0.1	96
100588	0.1	96
100589	0.2	96
100590	6.6	94
100591	8.2	94
100592	12.2	94
100593	0.5	92
100594	0.8	92
100595	1.6	92
100596	1.7	93
100597	2.7	93
100610	22.0	178
100615	29.0	187
100618	22.0	187
100647	0.5	91
100648	3.2	96
100649	0.1	96
100661	6.4	87
100662	2.9	86
100663	6.4	87
100669	5.4	80
100684	3.4	86
100685	6.5	87
100686	6.8	87
100693	3.7	79
100694	3.9	79
100695	4.1	79
100696	4.2	79
100697	4.2	79
100698	2.9	79
.00000		

Part Number	Woight (Lhs)	Page Number
100701	Weight (Lbs)	79
100701	3.8	79
100702	4.0	79 79
100703		
100704	4.1 4.1	79 79
		79
100706	2.8	
100715	0.7	77 77
100716	1.2	
100717	1.3 1.5	77
100718		77
100719 100721	1.7	77
	0.8	81
100722	1.0	81
100723	1.2	81
100724	1.3	81
100725	1.3	81
100726	0.6	77
100727	0.6	77
100728	0.7	77
100759	0.8	93
100824	49.0	52
100879	38.0	187
100884	346.0	55
100905	3.8	58
100906	5.8	58
100907	7.1	58
100908	31.0	59
100909	12.0	59
100912	6.3	68
100913	138.0	68
100914	68.0	68
100915	333.6	55
100947	3.3	69
100948	17.6	69
100950	0.1	93
100953	0.3	41
100957	39.0	103
100961	29.6	60
100999	18.0	59
101016	1.2	91
101017	4.0	93
101018	24.2	94
101039	0.1	92
101040	0.3	93
101041	0.8	94
101042	0.3	92
101043	0.2	91
101047	0.2	90
101048	0.5	92
101053	5.5	58
101057	1.8	70
101062	80.0	37
101092	3.4	70
101109	11.0	58
101139	45.4	69
101140	58.1	70
101145	2.9	68
101154	71.6	69
101164	71.3	70
101167	31.0	70
101170	24.0	69
101175	255.6	51
101231	139.0	60
101234	1.8	185
101243	18.3	42



Part Number	Weight (Lbs)	Page Number
101247	125.0	187
101252	923.3	73
101254	0.4	78
101255	0.5	78
101256	0.5	78
101257	1.3	78
101258	1.3	78
101259	0.3	78
101260	0.2	78
101261	0.2	78
101262	1.3	78
101263	1.3	78
101268	465.6	74
101270	85.2	60
101296	9.9	35
101303	8.8	58
101304	6.2	58
101320	111.8	60
101344 101350	17.2 1.0	35 83
101350		
101351	0.6 2.3	83 83
101352	2.3	83
101353	3.5	83
101355	4.2	83
101356	4.0	83
101357	6.1	83
101358	6.0	83
101359	6.0	83
101360	6.0	83
101361	7.1	83
101362	7.4	83
101363	8.5	83
101364	7.0	83
101365	0.2	83
101366	9.1	83
101367	13.0	83
101368	11.0	83
101369	15.8	83
101377	1.6	84
101378	1.6	84
101379	1.6	84
101380	1.6	84
101381	1.6	84
101382	1.6	84
101383	1.6	84
101384	1.6	84
101385	1.6	84
101386	1.6	84
101387	1.6	84
101388	1.6	84
101389	1.6	84
101390	1.6	84
101391	1.6	84
101392	1.6	84
101393	1.6	84
101394 101395	1.6 1.6	84
		84
101439 101441	1.3 0.4	83 85
	0.4	85 85
101447 101448	0.4	85 85
101448	0.4	85
101449	0.4	85 85
101450	0.4	85
101451	0.4	85 85
101402	0.4	65

		100
Part Number	Weight (Lbs)	Page Number
101453	0.4	85
101454	0.4	85
101455	0.4	85
101464	0.4	85
101465	0.4	85
101466	0.4	85
101467	0.4	85
101469	0.4	85
101470	0.3	85
101471	0.3	85
101472	0.2	85
101480	0.3	85
101482		
	0.3	85
101483	0.2	85
101495	0.1	85
101499	0.1	85
101500	0.2	85
101503	0.4	85
101505	0.7	85
101540	1.0	81
101544	1.2	81
101547	1.4	81
101549	1.8	81
101555	0.5	81
101556	1.0	81
101557	1.3	81
101558	1.8	81
101626	1.4	82
101628	1.4	82
101630	1.5	82
101632	1.5	82
101639	2.4	88
101640	1.7	88
101641	2.4	88
101642	1.7	88
101648	2.8	88
101649	2.1	88
101650	2.8	88
101651	2.1	88
101672	2.1	89
101673	260.0	25
101674	366.0	25
101675	377.0	25
101676	388.0	25
101677	401.0	25
101678	415.0	25
101679	430.0	25
101680	271.0	25
101681		25
	377.0	
101682	388.0	25
101683	399.0	25
101684	412.0	25
101685	426.0	25
101686	441.0	25
101687	293.0	25
101688	399.0	25
101689	410.0	25
101699	421.0	25
101691	434.0	25
101692	448.0	25
101693	463.0	25
101694	209.0	24
101695	315.0	24
101696	326.0	24
101697	337.0	24
101698	350.0	24
101030	550.0	47

Part Number	Weight (Lbs)	Page Number
101699	364.0	24
101700	379.0	24
101701	220.0	24
101702	326.0	24
101703	337.0	24
101704	348.0	24
101705	361.0	24
101706	375.0	24
101707	390.0	24
101708	242.0	24
101709	348.0	24
101710	359.0	24
101711	370.0	24
101712	383.0	24
101713	397.0	24
101714	412.0	24
101716	0.9	185
101723	334.0	29
101727	439.5	29
101728	451.0	29
101729	461.5	29
101730	474.7	29
101731	490.0	29
101732	504.0	29
101733	345.0	29
101738	450.4	29
101739	462.0	29
101740	472.4	29
101741	485.6	29
101742	501.0	29
101743	515.0	29
101749	255.4	28
101754	361.0	28
101755	372.0	28
101756	383.0	28
101757	396.2	28
101758	410.0	28
101759 101760	425.6 266.4	28 28
101765	372.0	
101765	383.0	28 28
101767	394.0	28
101768	407.2	28
101769	421.0	28
101703	436.5	28
101770	22.2	66
101839	13.1	66
101842	68.0	65
101843	43.0	65
101844	70.0	65
101845	46.0	65
101852	5.4	70
101935	1.2	185
101959	0.0	90
101960	0.1	90
101961	0.1	90
101962	0.2	90
101963	0.3	90
101964	0.4	90
101965	0.6	90
101966	8.0	90
101967	10.0	90
101968	12.0	90
101969	12.0	90
101970	0.1	90
101971	0.2	90



Part Number	Weight (Lbs)	Page Number
101972	0.5	90
101973	0.3	90
101974	0.5	90
101975	0.6	90
102042	605.4	74
102144	69.1	123
102145	98.5	125
102147	20.9	127
102148	0.1	91
102149	0.3	96
102150	0.8	95
102151	1.3	99
102153	1.1	97
102154	1.7	97
102155	4.3	97
102277	1,020.0	74
102279	0.7	185
102280	3.4	86
102281	6.8	87
102282	6.5	87
102299	31.0	100
102300	29.0	100
102301	37.7	104
102302	8.1	106
102303	10.7	106
102304	14.5	106
102305	13.0	105
102322	12.2	105
102323	15.3	98
102325	4.1	188
102342	3.0	67
102348	8.4	188
102366	69.0	124
102367	76.7	124
102369	62.8	124
102375	141.4	123
102376	48.0	127
102377	0.1	127
102430	1.6	91
102431	2.1	91
102433	0.2	96
102435	1.8	92
102436	3.1	92
102438	6.4	93
102455	91.0	187
102457	18.1	105
102458	22.0	105
102459	3.0	106
102460	40.2	104
102461	30.2	125
102462	37.0	144
102463	1.9	107
102464	35.0	97
102465	0.1	99
102473	2.1	94
102474	0.1	91
102477	25.0	126
102478	35.5	125
102480	90.0	125
102483	112.0	66
102484	64.0	66
102506	83.3	67
102507	77.0	187
102508	227.0	187
102527	42.0	174
102622	36.3	107

	100	IN.
Part Number	Weight (Lbs)	Page Number
102629	16.0	105
102630	2.1	107
102631	0.1	107
102633	7.0	71
102634	12.0	71
102635 102637	30.0 27.0	91 71
102637	3.1	188
102640	8.2	188
102641	6.2	107
102642	6.9	67
102643	2.1	64
102646	4.2	188
102657	7.0	71
102687	39.3	104
102712	120.9	73
102719	34.0	104
102731 102732	31.0 14.0	106 107
102732	23.1	107
102733	19.3	105
102745	9.0	106
102749	0.1	96
102754	0.8	99
102755	0.5	96
102756	0.2	92
102757	24.0	126
102758	7.3	70
102764	53.5	126
102765	6.0	126
102766 102767	0.1	92 92
102767	0.8	96
102770	0.3	92
102774	0.2	92
102775	3.6	94
102776	0.0	90
102777	25.0	90
102779	18.0	90
102781	29.0	98
102783	1.5	99
102786	67.6	124
102791	4.0	65
102815	287.6 0.9	63 92
102816	2.1	95
102823	729.0	91
102837	8.4	94
102841	6.3	188
102842	8.2	188
102846	0.1	96
102847	0.1	96
102850	0.8	64
102927	24.4	145
102928	22.0	106
102935	11.0	53 91
102965 102968	0.3 3.9	91
102969	0.1	96
102974	11.0	96
102975	0.2	96
102976	15.0	96
102977	36.8	94
102986	4.0	65
102987	7.0	65
103024	4.0	64

Part Number	Weight (Lbs)	Page Number
103025	6.0	65
103026	7.0	64
103134	92.6	144
103135	0.2	145
103136	137.0	144
103137	0.8	92
103138	0.1	92
103139	1.1	92
103140	1.1	92
103167	0.1	92
103174	71.4	43
103179	12.1	98
103213	341.5	162
103214	96.8	162
103215	71.6	164
103219	12.7	108
103314	77.0	52
103341	159.0	187
103376	14.0	181
103377	41.0	181
103447	65.8	124
103462	53.8	126
103463	28.3	145
103470	45.0	57
103489	31.0	61
103490	29.0	61
103491	30.0	61
103492	32.0	61
103493	37.0	61
103541	15.0	174
103542	24.0	174
103543	32.0	174
103574	70.0	181
103582	3.0	178
103583	50.0	181
103584	31.5	175
103585	25.0	175
103686	49.0	187
103709	125.0	181
103711	150.0	181
103712	90.0	181
103730	39.4	108
103731	42.9	104
103732	28.2	103
103742	0.9	163
103743	100.0	181
103744	500.0	177
103754	18.2	98
103757	41.2	144
103759	46.9	91
103761	364.5	91
103766	3.8	99
103767	6.1	99
103770	3.4	95
103779	48.0	145
103798	111.0	62
103799	129.0	62
103801	150.0	62
103855	288.4	28
103856	394.0	28
103857	416.0	28
103858	429.2	28
103860	458.5	28
103861	367.0	29
103862	472.4	29
103863	494.4	29



Part Number	Weight (Lbs)	Page Number
103864	507.6	29
103865	536.9	29
103866	151.0	30
103867	274.0	30
103868	291.0	30
103869	315.0	30
103870	344.0	30
103871	162.0	30
103872	285.0	30
103873	307.0	30
103874	326.0	30
103875	355.0	30
103876	184.0	30
103877	307.0	30
103878	329.0	30
103879	348.0	30
103880	377.0	30
103881	94.0	31
103882	137.8	31
103883	161.0	31
103884	214.2	31
103885	101.0	32
103886	50.2	32
103887	59.0	32
103888	72.9	32
103889	72.9	32
103890	87.5	32
103891	59.5	33
103892	63.1	33
103893	66.8	33
103894	72.3	33
103899	5.9	36
103900	7.7	36
103902	8.9	36
103903	9.9	36
103904	10.0	36
103905	12.0	36
103906	13.0	36
103907	16.0	36
103908	0.2	109
103916	35.0	34
103917	31.8	34
103918	37.0	37
103919	39.2	37
103920	72.0	38
103921	77.0	38
103922	81.0	38
103923	35.0	39
103924	37.0	39
103925	39.0	39
103926	69.0	39
103927	75.0	39
103928	77.0	39
103929	32.0	40
103930	35.0	40
103931	37.0	40
103932	68.0	40
103933	72.0	40
103934	77.0	40
103940	2.4	41
103941	7.0	41
103942	8.0	41
103943	2.7	41
103944	4.0	41
103945	3.7	41
103946	8.0	41

	200	100
Part Number	Weight (Lbs)	Page Number
103947	9.0	41
103948	4.0	41
103949	5.0	41
103950	6.2	42
103951	22.0	42
103964	1,035.0	45
103965	1,346.0	45
103966	1,409.0	45
103967	1,450.0	45
103968	1,534.0	45
103969	1,086.0	45
103970	1,397.0	45
103971	1,460.0	45
103972	1,501.0	45
103973	1,585.0	45
103975	1,441.0	45
103977	1,504.0	45
103978	1,545.0	45
103979	1,629.0	45
103980	1,058.0	46
103981 103982	1,369.0	46 46
	1,432.0	
103983 103984	1,473.0 1,557.0	46 46
103985	1,108.0	46
103986	1,419.0	46
103987	1,482.0	46
103988	1,523.0	46
103989	1,607.0	46
103990	1,465.0	46
103991	1,528.0	46
103992	1,569.0	46
103994	1,653.0	46
103995	263.2	49
103996	268.7	49
103997	276.3	49
103998	36.3	49
103999	53.3	49
104000	760.0	48
104001	1,068.0	48
104002	1,134.0	48
104003	1,170.0	48
104004	1,258.0	48
104005	794.0	48
104006	1,102.0	48
104007	1,168.0	48
104008	1,205.0	48
104009	1,292.0	48
104010	838.0	48
104011	1,146.0	48
104012	1,212.0	48
104013	1,249.0	48
104014	1,337.0	48
104015	255.6	51
104016	352.9	51
104017	352.9	51
104018	32.3	52
104019	51.2	52
104020	70.1	52
104021	66.1	52
104022	84.9	52 52
104023	103.8	52 52
104026	44.0	52 52
104027 104028	54.0 5.0	52
104026	5.0	181
10-10-1	0.0	101

Part Number	Weight (Lbs)	Page Number
104042	2.0	181
104072	1,108.0	114
104073	1,121.0	134
104104	0.5	72
104114	3.5	86
104116	139.0	34
104117	147.0	34
104118	150.0	34
104119	154.0	34
104120	183.0	34
104121	193.0	34
104122	198.0	34
104123	203.0	34
104126	295.0	63
104127	396.0	63
104128	400.0	63
104129	429.0	63
104130	324.0	63
104131	403.0	63
104132	425.0	63
104133 104134	429.0 458.0	63 63
104135 104136	404.0 483.0	63 63
104137	505.0	63
104137	509.0	63
104139	538.0	63
104141	54.1	146
104148	68.0	54
104149	173.0	54
104150	197.0	54
104157	4.9	80
104192	11.0	108
104230	531.0	129
104231	606.0	129
104232	679.0	129
104233	817.0	129
104234	890.0	129
104235	970.0	129
104236	1,046.0	129
104237	1,189.0	129
104238	1,264.0	129
104239	1,352.0	129
104240	1,443.0	129
104241	1,593.0	129
104242	1,685.0	129
104243	1,772.0	129
104244	1,883.0	129
104245	2,059.0	129
104246	2,166.0	129
104247 104248	2,233.0	129
	2,329.0	129
104249	2,515.0	129 129
104250 104251	2,612.0 2,724.0	129
104251	2,724.0	129
104252	2,802.0	129
104253	3,053.0	129
104255	3,169.0	129
104256	3,250.0	129
104257	535.0	134
104258	611.0	134
104259	745.0	134
104260	827.0	134
104261	906.0	134
104262	982.0	134
		·



Part Number	Weight (Lbs)	Page Number
104263	1,202.0	134
104264	1,316.0	134
104265	1,394.0	134
104266	1,551.0	134
104267	1,638.0	134
104268	1,722.0	134
104269	1,898.0	134
104270	2,040.0	134
104271	2,138.0	134
104272	2,243.0	134
104273	2,442.0	134
104274	2,545.0	134
104275	2,724.0	134
104276	2,821.0	134
104278	535.0	139
104279	611.0	139
104280	748.0	139
104281	827.0	139
104282	906.0	139
104283	985.0	139
104284	1,168.0	139
104285	1,252.0	139
104286	1,376.0	139
104287	1,466.0	139
104288	1,638.0	139
104289	1,722.0	139
104290	1,808.0	139
104291	1,994.0	139
104292	312.0	110
104293	398.0	110
104294	447.0	110
104295	495.0	110
104296	584.0	110
104297	635.0	110
104298	686.0	110
104299	737.0	110
104300	851.0	110
104301	904.0	110
104302	957.0	110
104303	1,077.0	110
104304	1,140.0	110
104305	1,198.0	110
104306	1,249.0	110
104307	1,315.0	110
104308	312.0	114
104309	398.0	114
104310	447.0	114
104311	495.0	114
104312	584.0	114
104313	635.0	114
104314	686.0	114
104315	737.0	114
104316	851.0	114
104317	904.0	114
104318	957.0	114
104319	1,172.0	114
104320	1,314.0	114
104321	1,370.0	114
104322	1,433.0	114
104323	312.0	118
104324	398.0	118
104325	447.0	118
104326	495.0	118
104327	587.0	118
104328	641.0	118
104329	689.0	118

	200	100
Part Number	Weight (Lbs)	Page Number
104349	4.3	58
104350	34.9	57
104351	12.0	57
104352	1,370.0	73
104353	506.0	56
104354	661.0	56
104355	267.0	55
104356	287.0	55
104357	226.0	55
104358	245.0	55
104359	305.0	55
104360	550.0	55
104361	588.0	55
104362	467.0	55
104363	506.0	55
104367	6.0	64
104385	2,254.0	47
104386 104387	2,887.0	47
	2,953.0	47
104388	2,986.0	47
104389 104390	3,074.0 2,380.0	47 47
	,	47
104391 104392	3,084.0	47
104392	3,150.0 3,183.0	47
104393	3,163.0	47
104394	2,553.0	47
104395	3,429.0	47
104396	3,429.0	47
104397	3,550.0	47
104399	3,363.0	47
104401	356.0	43
104402	389.0	43
104403	488.0	43
104404	554.0	43
104405	620.0	43
104418	0.5	89
104419	0.3	89
104420	2.7	86
104421	4.4	86
104422	3.7	86
104423	4.2	86
104424	4.4	86
104425	3.7	86
104426	4.2	86
104427	3.5	86
104428	6.1	87
104429	5.8	87
104430	1.8	81
104431	2.3	81
104432	2.8	81
104433	1,396.0	147
104434	1,504.0	147
104435	1,687.0	147
104436	1,791.0	147
104437	1,902.0	147
104438	2,012.0	147
104439	2,122.0	147
104440	2,352.0	147
104441	2,465.0	147
104442	2,578.0	147
104443	2,693.0	147
104444	2,804.0	147
104445	3,028.0	147
104446	3,138.0	147
104447	3,337.0	147

104448 3,455.0 147 104449 3,678.0 147 104450 3,800.0 147 104451 3,922.0 147 104452 4,041.0 147 104453 4,260.0 147 104454 4,379.0 147 104455 4,499.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 <th>Part Number</th> <th>Weight (Lbs)</th> <th>Page Number</th>	Part Number	Weight (Lbs)	Page Number
104450 3,800.0 147 104451 3,922.0 147 104452 4,041.0 147 104453 4,260.0 147 104454 4,379.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104467 1,827.0 152 104468 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,765.0 152 <td></td> <td></td> <td>_</td>			_
104451 3,922.0 147 104452 4,041.0 147 104453 4,260.0 147 104454 4,379.0 147 104455 4,499.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104463 5,831.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 <td>104449</td> <td>3,678.0</td> <td>147</td>	104449	3,678.0	147
104452 4,041.0 147 104453 4,260.0 147 104454 4,379.0 147 104455 4,634.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,236.0 152 <td>104450</td> <td>3,800.0</td> <td>147</td>	104450	3,800.0	147
104453 4,260.0 147 104454 4,379.0 147 104455 4,499.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,030.0 152 <td></td> <td></td> <td></td>			
104454 4,979.0 147 104455 4,499.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104463 5,831.0 147 104463 5,831.0 147 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,030.0 152 <td></td> <td></td> <td></td>			
104455 4,499.0 147 104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,236.0 152 104476 3,236.0 152 104477 3,564.0 152 <td></td> <td></td> <td></td>			
104456 4,634.0 147 104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,030.0 152 104476 3,236.0 152 104477 3,354.0 152 <td></td> <td></td> <td></td>			
104457 4,873.0 147 104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,667.0 152 <td></td> <td></td> <td></td>			
104458 5,040.0 147 104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,030.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,667.0 152 104479 3,684.0 152 104480 3,807.0 152 <td></td> <td></td> <td></td>			
104459 5,153.0 147 104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104481 4,181.0 152 104482 4,368.0 152 <td></td> <td></td> <td></td>			
104460 5,268.0 147 104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 <td></td> <td></td> <td></td>			
104461 5,560.0 147 104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104481 4,181.0 152 104482 4,368.0 152 <td></td> <td></td> <td></td>			
104462 5,670.0 147 104463 5,831.0 147 104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 <td></td> <td></td> <td></td>			
104464 1,495.0 152 104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 <td>104462</td> <td></td> <td>147</td>	104462		147
104465 1,606.0 152 104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 <td>104463</td> <td>5,831.0</td> <td>147</td>	104463	5,831.0	147
104466 1,717.0 152 104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 <td>104464</td> <td>1,495.0</td> <td>152</td>	104464	1,495.0	152
104467 1,827.0 152 104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104489 2,104.0 156 104499 2,214.0 156 <td>104465</td> <td>1,606.0</td> <td>152</td>	104465	1,606.0	152
104468 2,017.0 152 104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 <td>104466</td> <td>1,717.0</td> <td>152</td>	104466	1,717.0	152
104469 2,129.0 152 104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104483 4,485.0 152 104484 1,556.0 156 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104499 2,104.0 156 <td>104467</td> <td>1,827.0</td> <td>152</td>	104467	1,827.0	152
104470 2,304.0 152 104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104493 2,332.0 156 104494 2,470.0 156 <td></td> <td></td> <td></td>			
104471 2,370.0 152 104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104494 2,470.0 156 <td></td> <td></td> <td></td>			
104472 2,576.0 152 104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104493 2,332.0 156 104494 2,470.0 156 104494 2,470.0 156 104494 2,470.0 156 104496 2,955.0 156 <td></td> <td></td> <td></td>			
104473 2,765.0 152 104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 <td></td> <td></td> <td></td>			
104474 3,003.0 152 104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 <tr< td=""><td>_</td><td></td><td></td></tr<>	_		
104475 3,003.0 152 104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94		,	
104476 3,236.0 152 104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94			
104477 3,354.0 152 104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94			
104478 3,567.0 152 104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 20.6 94 1045			
104479 3,684.0 152 104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 20.6 94 104509 1.0 91 104518 <td></td> <td></td> <td></td>			
104480 3,807.0 152 104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 20.6 94 104509 1.0 91 104518 <td></td> <td></td> <td></td>			
104481 4,181.0 152 104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104531			
104482 4,368.0 152 104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104533 48.8 187 104534 <t< td=""><td></td><td></td><td></td></t<>			
104483 4,485.0 152 104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104533 48.8 187 104534 63.0 187 104534 6			
104484 4,685.0 152 104485 1,556.0 156 104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104533 48.8 187 104534 63.0 187 104534 63.0 187 104535 75.0			
104486 1,674.0 156 104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104557 203.2			
104487 1,789.0 156 104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0	104485	1,556.0	156
104488 1,899.0 156 104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 20.6 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104568 24.0 163 104570 232.9	104486		156
104489 2,104.0 156 104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 20.6 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104557 203.2 162 104568 24.0 163 104570 232.9 162	104487	1,789.0	156
104492 2,214.0 156 104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104508 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162	104488	1,899.0	156
104493 2,332.0 156 104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162	104489	2,104.0	156
104494 2,470.0 156 104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162	104492	2,214.0	156
104495 2,806.0 156 104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162		2,332.0	156
104496 2,955.0 156 104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104497 0.5 92 104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104498 1.4 92 104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104499 7.0 94 104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104567 203.2 162 104568 24.0 163 104570 232.9 162			
104500 9.8 94 104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104501 13.3 94 104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104506 2.4 94 104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104508 20.6 94 104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104509 1.0 91 104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104518 1.3 96 104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104570 232.9 162			
104519 10.1 96 104533 48.8 187 104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162			
104534 63.0 187 104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162			
104535 75.0 187 104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162	104533	48.8	187
104551 185.0 144 104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162	104534	63.0	187
104555 73.0 103 104567 203.2 162 104568 24.0 163 104570 232.9 162	104535	75.0	187
104567 203.2 162 104568 24.0 163 104570 232.9 162	104551	185.0	144
104568 24.0 163 104570 232.9 162	104555	73.0	103
104570 232.9 162	104567	203.2	162
104571 12.0 163	104571	12.0	163



Part Number	Weight (Lbs)	Page Number
104573	250.0	162
104581	10.1	108
104584	172.5	161
104722	6.5	175
104726	500.0	177
104734	99.4	5
104744	24.9	126
104755	2.1	174
104760 104833	1.0 11.0	75 179
104833	11.0	179
104868	2.0	181
104927	137.0	34
104928	145.0	34
104929	148.0	34
104930	152.0	34
104931	169.0	34
104932	180.0	34
104933	185.0	34
104934	190.0	34
104963	103.0	164
105010	5.4	75
105026 105044	52.0 396.3	105 162
105044	80.0	125
105163	1.8	174
105163	1.3	174
105235	31.1	108
105285	1.7	174
105307	30.0	71
105361	27.0	145
105389	54.0	163
105390	77.0	163
105397	481.9	162
105483	195.0	164
105565	100.0	178
105566	1.0	178
105584 105585	570.0 670.0	4
105586	1,000.0	4
105587	1,100.0	4
105588	1,680.0	4
105589	1,780.0	4
105590	2,370.0	4
105591	2,470.0	4
105592	3,200.0	4
105593	3,300.0	4
105594	4,060.0	4
105595	4,160.0	4
105596	5,300.0	4
105597	5,400.0	4
105598	6,660.0	4
105599 105600	6,760.0 800.0	4
105601	990.0	4
105602	1,480.0	4
105603	1,670.0	4
105604	2,170.0	4
105605	2,360.0	4
105606	3,000.0	4
105607	3,190.0	4
105608	3,860.0	4
105609	4,050.0	4
105610	5,100.0	4
105611	5,290.0	4
105612	6,460.0	4

	10	1000
Part Number	Weight (Lbs)	Page Number
105613	6,650.0	4
105614	8,050.0	4
105615	8,240.0	4
105624	1,154.0	46
105625	0.7	185
105626	0.9	185
105772	197.8	161
105773	211.0	161
105818	110.0	145
105822	76.0	163
105845	26.7	109
105858	37.9	100
105864	39.4	127
105868	592.0	98
105881	81.0	32
105882	88.0	32
105883	102.0	32
105884	109.0	32
105885	116.0	32
105894	46.0	163
105943	41.9	100
106053	190.0	181
106054	60.0	181
106075 106193	86.7 122.9	98 182
106193	149.9	182
106194	166.4	182
106195	193.4	182
106197	199.3	182
106198	226.3	182
106199	242.8	182
106200	269.8	182
106201	275.7	182
106202	302.7	182
106203	319.2	182
106204	346.2	182
106205	352.1	182
106208	354.6	183
106209	381.6	183
106210	387.5	183
106211	414.5	183
106212	431.0	183
106213	458.0	183
106214	463.9	183
106215	490.9	183
106216	507.4	183
106217	534.4	183
106218	540.3	183
106219	567.3	183
106220	583.8	183
106221	610.8	183
106222	616.7	183
106245	42.0	72
106264	15.0	109
106291	220.1	162
106334	456.0	98
106347	687.0	183
106412	422.4	183
106414	130.0	181
106482	338.1	183
106743	151.0	125
106744	152.0	144
106750	19.0	109
106762	0.1	96
106774	6.0	109
106777	0.2	179

Part Number	Weight (Lbs)	Page Number
106779	955.0	176
106830	108.0	161
106913	233.0	62
106949	82.0	165
106953	144.0	161
106957	268.0	164
106960	92.0	164
107049	775.0	176
107145	200.0	62
107146	161.0	62
107460	121.0	62
107604	128.0	50
107605	117.0	50
107623	406.0	55
107640	374.0	63
107670	106.0	60
107704	0.0	176
107711	34.0	103
107713	40.0	103
107715	37.0	103
107717	37.0	103
107719	27.0	100
107721	54.0	123
107723	57.0	123
107725	56.0	123
107727	56.0	123
107729	59.0	124
107731	38.0	100
108017	37.0	104
108051	209.0	98
108215	2,379.0	11
108216	2,016.0	11
108217	1,653.0	11
108218	1,349.0	11
108219	1,109.0	11
108220	898.0	11
108221	730.0	11
108222 108223	571.0 440.0	11 11
108223	293.0	11
108224	1.3	77
108319	1.5	77
108320	1.8	77
108321	1.8	82
108321	1.8	82
108323	1.8	82
108323	1.8	82
108374	67.0	178
108602	1,147.0	44
108603	1,274.0	44
108931	356.0	13
108932	344.0	13
108933	277.0	13
108934	228.0	13
108935	190.0	13
108936	161.0	13
108937	147.0	13
108938	124.0	13
108939	114.0	13
108940	57.0	13
108941	53.0	13
108942	49.0	13
108943	41.0	13
109098	2,345.0	11
109099	2,317.0	11
109100	1,982.0	11
-		



Part Number	Weight (Lbs)	Page Number
109101	2,299.0	11
109102	1,619.0	11
109103	1,954.0	11
109104	2,301.0	11
109105	1,315.0	11
109106	2,258.0	11
109107	1,287.0	11
109108	2,194.0	11
109109 109110	1,269.0 85.0	11 98
109170	67.0	13
109180	100.0	13
109181	107.0	13
109182	119.0	13
109183	126.0	13
109184	140.0	13
109185	159.0	13
109186	186.0	13
109187	205.0	13
109188	212.0	13
109289	134.0	51
109380	338.0	49
109388	286.0	49
109389	310.0	49
109429	259.0	26 26
109430 109431	364.0 376.0	26
109431	388.0	26
109433	399.0	26
109434	415.0	26
109435	431.0	26
109436	270.0	26
109437	375.0	26
109438	387.0	26
109439	399.0	26
109440	410.0	26
109441	426.0	26
109442	442.0	26
109443	292.0	26
109444 109445	397.0	26
	409.0	26
109446 109447	421.0 432.0	26 26
109448	448.0	26
109449	464.0	26
109450	272.0	27
109451	377.0	27
109452	389.0	27
109453	401.0	27
109454	412.0	27
109455	428.0	27
109456	444.0	27
109457	283.0	27
109458	388.0	27
109459	400.0	27
109460 109461	412.0 423.0	27 27
109461	423.0	27
109463	455.0	27
109463	305.0	27
109465	410.0	27
109466	422.0	27
109467	434.0	27
109468	445.0	27
109469	461.0	27
109470	477.0	27
		-

Part Number	Weight (Lbs)	Page Number
109642	178.0	51
109738	67.0	108
109739	43.0	108
109743	500.0	177
109744	500.0	177
109745	1,500.0	177
109746	1,500.0	177
109747	400.0	177
109748	400.0	177
109749	400.0	177
109750	400.0	177
109751	770.0	177
109752	770.0	177
109849	1.1	77
109850	1.5	77
109859	1,453.0	44
109860	1,525.0	44
109861	1,555.0	44
109862	1,651.0	44
109863	1,181.0	44
109864	1,487.0	44
109865	1,559.0	44
109866	1,589.0	44
109867	1,685.0	44
109868	1,580.0	44
109869	1,652.0	44
109870	1,682.0	44
109871	1,778.0	44
109871	1,226.0	44
109873	1,532.0	44
109873	1,604.0	44
109874	1,634.0	44
109876	1,730.0	44
109894	9.0	178
109895	15.0	178
109896		178
	10.0	
109897	1.0	178
109898	1.0	178
109899	102.0	50 50
109900	49.0	50
109907	68.0	50
	1.0	180
110002	8.0	180
110003	30.0	180
110272	405.0	28
110273	443.0	28
110274	484.0	29
110275	523.0	29
NSX11	1,261.0	5
NSX12.5	1,468.0	5
NSX3.5	635.0	5
NSX5	648.0	5
NSX6.5	776.0	5
NSX8	799.0	5
NSX9.5	1,089.0	5



TERMS AND CONDITIONS OF SALE AND CREDIT

Nello Corporation P.O. Box 376 Nappanee, IN 46550

Phone: (574) 773-4827 Fax: (574) 773-5840

Buyer:		
Ship to Address:		
Bill to Address:		
Phone:	Fax:	
Tax ID #:	D&B DUNS#:	
Years in Business:	Number of Employees:	Annual Sales:
Check One:	Corporation LLC Partner	rship Limited Partnership Proprietorship
Accounts Payable Contact:		Tax Exempt?
Phone:	Fax:	Email:
Bank Name:		Account #:
Mailing Address:		Zip:
Contact Name:	Phone:	Fax:
Trade Reference:	Address:	
Phone:	Fax:	Account #:
Trade Reference:	Address:	
Phone:	Fax:	Account #:
Trade Reference:	Address:	
Phone:	Fax:	Account #:
Buyer hereby authorizes Nello and such other persons as Selle persons contacted by Seller for tion concerning Buyer possess credit or otherwise, shall be sub-	Corporation (hereinafter "Seller") and its represent deems necessary to obtain credit and finant the purposes of determining Buyer's credit was by such person. All sales of Product (defoject to the terms and conditions set forth hereing the product of the terms are the product of the terms and conditions are the product of the terms	dit by Buyer from Seller and is warranted to be true and correct. esentatives and successors to contact the persons above identified cial information concerning Buyer. Buyer further authorizes all worthiness to disclose to Seller any credit and financial informationed on the reverse side hereof) by Seller to Buyer, whether on an and on the reverse side hereof. **DNAL TERMS OF AGREEMENT.** Its that he or she is lawfully entitled so to do and that execution
Signature of Owner or Offic	eer:	Date:
Print Name:		Title:
hereby absolutely unconditional payment, of nonperformance of The liability of Guarantor shall hereof or by the discharge or r and on the reverse side hereof a	ally guarantees payment of all sums owed by r the amount of indebtedness outstanding at an l not be affected by any extension, modificative lease of the obligation of the Buyer. Guaran	cts to Buyer, the undersigned guarantor (hereinafter "Guarantor") Buyer to Seller. Notice of acceptance of this guarantee, of non-y time, of protest, demand, or other remedy is expressly waived. on, indulgence, compromise, settlement or variation of any term nand further agrees to be bound to each and every term contained herein n and further agrees to pay all costs of collection against Guarantws.
Signature of Guaran	tor:	Date:
Print Name:		

Terms and Conditions of Sales and Credit

- 1. Sales: Seller agrees to sell to Buyer such products and services as Seller may determine to sell, deal in, and provide in the ordinary course of its business subject to the terms set forth in this Agreement (hereinafter "Products"). Such sales shall be exclusively for Buyer's business use. Buyer represents and warrants that no purchase hereunder will be made for the personal, family or household use of Buyer. This Agreement is not intended to require Buyer to purchase any products or services from Seller nor is it intended to require Seller to: a.maintain or continue to maintain an inventory of any particular type of product; b. deal in or continue to deal in any particular type of product; or c. provide or continue to provide any particular type of service. Seller may refuse to sell Products to Buyer at any time without cause or orior notice.
- 2. Pricing: Price quotations and terms shall remain in effect for thirty (30) days from date of issuance. Seller reserves the right to change published pricing at any time.
- 3. Credit Limits: Credit limits shall be determined and modified at the sole discretion of the Seller. In the event that Buyer is delinquent in payment or has exceeded the credit limit established by Seller, Seller may refuse to sell Products to Buyer, suspend any shipment or delivery or refuse to manufacture any Products or provide any services until the indebtedness of Buyer to Seller has been reduced, or all past due amounts, including finance charges, have been paid in full, as Seller determines necessary.
- 4. Taxes: Purchaser is responsible for all sales, use and similar taxes unless Seller agrees in writing to pay the same.
- 5. Payment Terms: Buyer shall pay sums owed Seller within thirty (30) calendar days of the date of Seller's invoice. Buyer further agrees that the purchase price shall be increased for any purchase for which payment in full has not been timely made, such increase to be interest on the unpaid balance due of each such invoice equal to the lesser of the maximum rate of interest permitted by law or two percent (2%) per month. Buyer agrees to pay, in addition, all costs of collection, including attorney fees, court costs, and other expenses incurred by Seller to enforce the terms of the Agreement. Seller does not hereby agree to payment after the due date and may demand payment in full any time. Buyer waives all claims for relief under valuation and appraisement laws.
- 6. Buyer's Agents: Buyer agrees to have only individuals who are authorized agents of Buyer execute documents on Buyer's behalf for purchases or deliveries. Buyer agrees that any person in Buyer's employ may accept or acknowledge delivery of products or services to Buyer.
- 7. Buyer's Inspection: Buyer or its designated representative shall inspect all Products within seven (7) calendar days after delivery of Products (hereinafter "Inspection Period") and Buyer shall notify Seller of any defects, shortages, overshipments, or nonconformance in any of the Products within the Inspection Period. Any Products not rejected by Buyer within the Inspection Period shall be deemed to have been accepted by Buyer.
- 8. Shipping Terms: Shipping terms for shipments within the United States are F.O.B. Seller's Point of Shipment. Shipping terms for international shipments are EXW Seller's Point of Shipment (Incoterms 2000). In the event that Buyer specifies in writing the shipping carrier, type of service, and payment method (collectively hereinafter "Mode of Shipment"), freight costs shall be charged in a manner consistent with Buyer's specification. In the event that Buyer has not specified a Mode of Shipment in writing, at the sole discretion of Seller, such charges may be prepaid by Seller and added to Seller's invoice to Buyer. All claims for transportation damage shall be filed and processed by the Buyer. Buyer agrees to pay for all Products purchased without regard to whether the same are damaged during shipment.
- Title and Risk of Loss: Title to and risk of loss and damage to the Products shall pass to Buyer immediately upon delivery of the Products to a common carrier, or to an employee or other agent of Buyer, at Seller's facility.
- 10. Warranty: Seller warrants that the Products will conform to the description contained on the invoice therefor and (b) will be free from defects in material and workmanship, under normal use and service when correctly installed and maintained for a period of two (2) years from tender of delivery. Seller shall not be deemed or held to be obligated or accountable upon or under any warranties or guaranties expressed, or implied, statutory, by operation of law, or otherwise, in any manner or form, beyond the foregoing express warranty. Seller's liability under any warranty is limited solely to replacing, repairing or issuing credit for Products subject to warranty, as Seller shall elect. In the event any Products is determined to be defective during the warranty period, Buyer shall (1) notify Seller promptly in writing of any warranty claim, and (ii) provide Seller with an opportunity to inspect and test Products claimed to be defective. In no event shall Seller be liable for any defective products if examination discloses that the defective condition of such products was caused by the design or other criteria supplied by Buyer to Seller or was caused by misuse, abuse, improper installation or application, improper maintenance or repair, alteration, accident or negligence in use, improper temperature, humidity or other environmental condition, storage, transportation or handling. Seller makes no other warranty either expressed or implied with respect to any Products.
- 11. Manufacturer's Warranties: Some of the Products are manufactured by others and warranties by some manufacturers of the Products provide remedies greater than those provided hereunder by Seller. Buyer agrees to make no claim against Seller under the manufacturer's warranty or to make any claim against Seller except under the warranties hereunder provided. Seller shall not be liable for any damages for breach of any warranty other than those damages expressly agreed to by Seller.
- 12. Patents and Copyrights: No representation is made that the products or their use or sale do not infringe any patents, trademarks or trade names or other rights of third parties.
- 13. Buyer's Indemnity: Buyer agrees to indemnify and hold Seller harmless for any claim, damage, loss or other expense paid by or claimed against Seller and all costs of defending the same (including, without limiting the generality of the foregoing, the fees of attorneys, expert witnesses and investigators and travel expenses) arising, in whole or in part, from through or in any manner related to Products manufactured by Seller at Buyer's specific request pursuant to Buyer's design or other criteria ("Custom Products"), except when such claim arises exclusively as a result of Seller's negligence or breach of Seller's warrant y above set forth.
- 14. Cancellation: All requests for cancellation or changes to an order for Products must be submitted in writing by Buyer. In the event that Buyer cancels or changes an order for Products, Buyer agrees to pay a restocking fee of not

- less than 35% for standard Products and 100% for Custom Products of the cost of the Products to which such cancellation or change is applicable.
- 15. No products may be returned to Seller without Seller's prior consent. All requests by Buyer for authorization to return Products must be submitted in writing to Seller utilizing Seller's Return Request Form. Seller may, at its sole discretion, issue Buyer written authorization to return Product to Seller (hereinafter "Return Authorization") for inspection and refund. All shipping costs for the return of Products are the responsibility of the Buyer. In the event that, upon inspection, Seller determines that the Products are subject to the terms of Seller's warranty Seller shall waive any restocking fees and shall issue a credit to Buyer for any shipping costs for the shipment of warranted Products back to Seller. Seller shall have no obligation to consider return requests received later than ninety (90) calendar days after shipment of Products to Buyer.
- 16. Seller's Inspection: Upon receipt of Products returned for warranty claims or pursuant to a Return Authorization, Seller shall inspect the Products and, at its sole discretion, accept or deny the return of such Products. In the event that Seller accepts the return of Products from Buyer pursuant to a Return Authorization, Seller shall issue a credit to Buyer in the amount of the original invoice amount for the Products less a restocking charge of not less than 35% for standard Products and 100% for Custom Products. In the event that Seller denies the return of Products from Buyer, Seller shall ship Products back to Buyer at Buyer's sole expense.
- 17. Force Majeure: Seller shall not be liable for failure to perform any of its obligations under this Agreement to the extent such failure is caused by fire; flood; explosion; war; riot; embargo; labor disputes; compliance with any laws, regulations, orders, acts or requirements from the government, civil or military authorities; acts of God or the public enemy, or any act or event of any nature beyond Seller's reasonable control. In no event shall Seller be liable to Buyer for any special, incidental or consequential damages as a result of delay in performance or failure to perform hereunder.
- 18. Conflict of Forms: In the event of conflict between this Agreement and the terms printed on the face or reverse side of Buyer's order form, the terms and conditions of this Agreement shall control. If this Agreement is silent as to a particular matter, the terms which appear on the reverse side of Seller's invoice shall control, and Seller's acceptance is conditional upon Buyer's assent to the terms which appear on the reverse side of Seller's invoice. This agreement may be modified by either separate written modification hereof or by the addition of terms in Seller's invoice.
- 19. Notices: A notice to Buyer or Seller shall be valid if it is in writing and if delivered via any method, public or private, which requires the recipient to acknowledge delivery of the same. If failure to send a notice before the end of a time period waives a right, the notice is effective when sent. All other notices are effective upon receipt unless recipient refuses delivery. If delivery is refused, the notice is effective when sent.
- 20. Limitations on Time and Damages: Any claim that either Seller or Buyer may have against the other shall be barred if demand therefor is not made within 180 days of the date of the occurrence of the event giving rise thereto and a demand for arbitration is not made within 180 days of the date of the aforementioned demand. Notwithstanding the foregoing, the limitation on time provided in this paragraph shall not apply to the recovery by Seller of any sum owed by Buyer to Seller. Neither party shall be liable for special, incidental, indirect or consequential damages, including, without limiting the generality of the foregoing, lost profits, whether or not caused by breach of warranty or resulting from negligence or any other cause. In the event that a defective Product causes damages or injuries to the Product, to Buyer's business, to the end-user's business, to other equipment, to a factory or place of business, or to employees or other persons, Seller's liability to Buyer shall be limited (except as provided by law) to the remedies provided above under paragraph 10 if the warranty period described in such paragraph 10 has not expired. If such warranty period has expired, Seller shall not be liable for such damages or injuries, provided, however, that if a court of competent jurisdiction shall find as a matter of law that any clause of this paragraph is unlawful, it is agreed that Seller's liability shall be limited solely to a U.S. dollar amount equal to the cost of the defective Product to Buyer. The remedies provided in this paragraph shall be exclusive and shall be Buyer's sole remedies.
- 21. Governing Law: This Agreement shall be construed under and in accordance with the laws of the State of Indiana except for those principals of conflicts of law which may have the effect rejecting venue as consented to hereinafter.
- 22. WAIVER OF JURY TRIAL: BUYER AND SELLER HEREBY WAIVE, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT THEY OR EITHER OF THEM MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT.
- 23. CONSENT TO VENUE: ALL LITIGATION BETWEEN THE PARTIES SHALL BE COMMENCED AND MAINTAINED IN EITHER THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF INDIANA OR ANY INDIANA STATE COURT SITTING IN ST. JOSEPH COUNTY, INDIANA. BUYER AND SELLER CONSENT TO VENUE IN AND THE JURISDICTION OF THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF INDIANA AND TO VENUE IN AND THE JURISDICTION OF ANY INDIANA STATE COURT SITTING IN ST. JOSEPH COUNTY, INDIANA FOR ALL LITIGATION WHICH MAY BE BROUGHT TO ENFORCE A JUDGEMENT OF THE ARBITRATION PANEL PURSUANT TO SECTION 24 OR FOR ANY OTHER PURPOSE ARISING FROM, THROUGH OR IN ANY MANNER RELATED TO THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF BUYER AND SELLER HEREUNDER. NOTWITHSTANDING THE FOREGOING, EACH PARTY SHALL HAVE THE RIGHT TO BRING AN ACTION TO ENFORCE A JUDGMENT OR THE AWARD OF ARBITRATORS IN ANY COURT HAVING JURISDICTION OVER THE PARTY OR THE PROPERTY OF THE AWARD OF ARBITRATIONS UCH AWARD OR JUDGMENT WAS ENTERED. THIS PROVISION IS NOT A WAIVER OF THE REQUIREMENT OF ARBITRATION.
- 24. Arbitration: Any dispute between Buyer and Seller shall be settled by binding arbitration in accordance with the Rules of the American Arbitration Association ("AAA"). The expedited rules of the AAA shall apply and judgment upon the decision of the arbitrators may be entered in any court having jurisdiction thereof. The arbitration shall be conducted in St. Joseph County, Indiana. Any arbitration award must be accompanied by a written statement of the arbitrator giving an explanation as to the basis for the determination of the award. Each Party shall pay one-half (½) of the charge for the arbitrators and one-half (½) of any other charge imposed by AAA. Notwithstanding the foregoing, Seller may, but need not, submit to arbitration any action to collect any sum owed by Buyer to Seller. In the event Seller elects to seek a judgment against Buyer or other relief as provided herein without arbitration, Buyer agrees that any counter-claim against Seller shall be, nonetheless, submitted to arbitration.

Seller makes no warranties, expressed or implied, except as otherwise specifically herein provided. No implied warranty of merchantability is made; and, no warranty of fitness is made. Seller shall have no obligation to Buyer for special, incidental, indirect or consequential damages of any kind, including lost profits.

Notes	N E L L O CORPORATION

Notes	N E L L O CORPORATION

