

NELLO CORPORATION

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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.

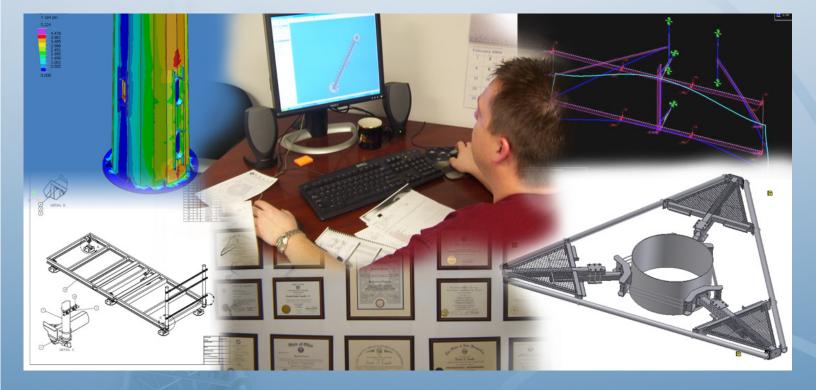
I am proud to be a part of a team that is dedicated to the mission of becoming your single source for communication equipment support needs. At Nello we believe in what we do and, as always, we listen to our customer's needs.

Sincerely,

Dan Ianello, PE President

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)

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.

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Applicat

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Applications

Application

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Coa

Grounding Solutions

Towers & Platforms



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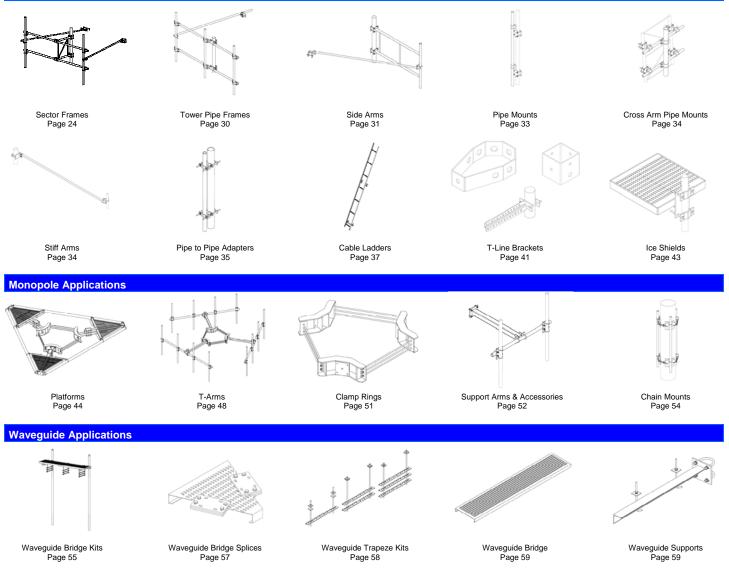
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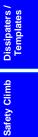
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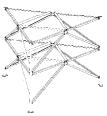
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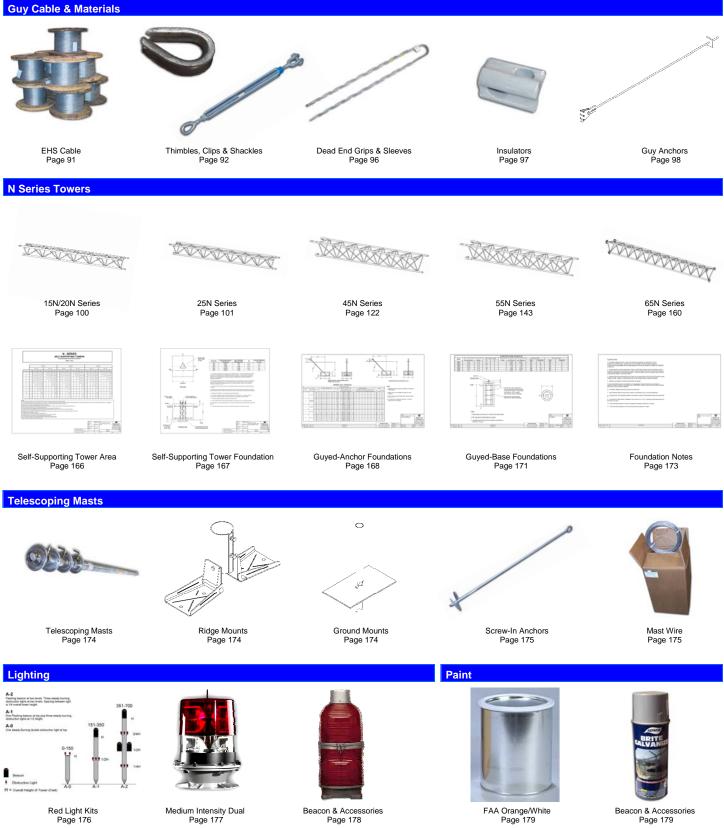
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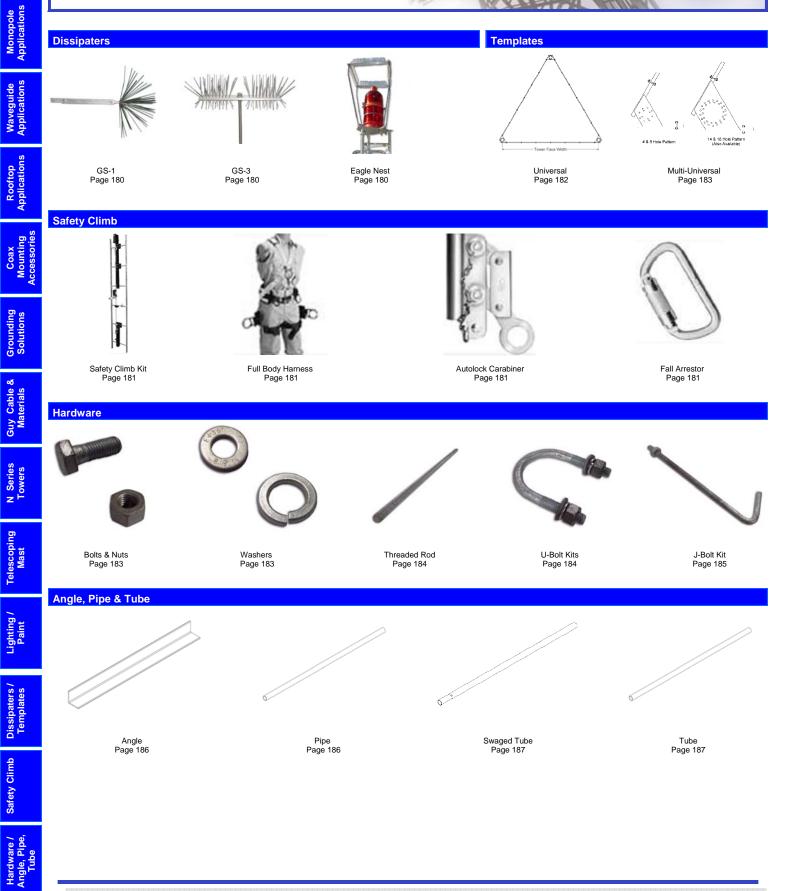
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Hardware / Angle, Pipe, Tube

Applications

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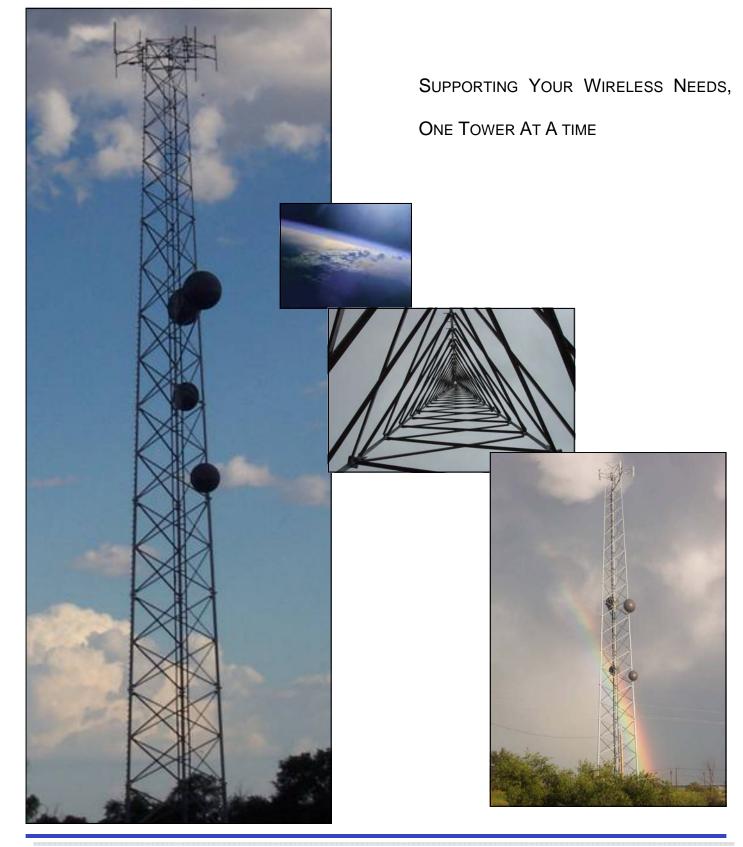
Guy Cable & Materials

N Series Towers

Telescoping Mast

Lighting / Paint









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 Ic	e
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 Tow er	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 Tow er	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	9
Height, ft.	Part Number	Description	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.

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



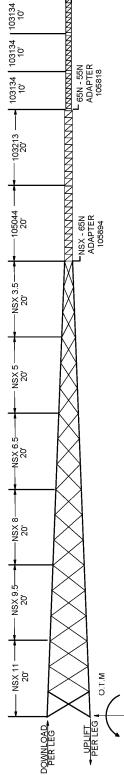
NSX Catalog Tower Sections, 70 MPH - No Ice

Part #	Description	Weigh (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:

SHEAR

- 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.



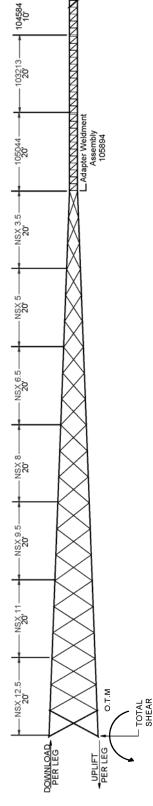


NSX Catalog Tower Sections, 90 MPH - No Ice

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.



Tower Allowable Projected Area (et i) Allowable Projected Area (et i) Base Reactions Height (ft) Number Tower Tower Allowable Projected Area (et i) Uptif (fb) Total Shear (1P) Orth (ft-Ib) 40 105656 17* 2.0 20.0 23.00 19.00 1.000 25.00 70 105656 17* 2.0 18.0 22.0 23.00 24.00 14.00 1.000 25.00 70 105656 17* 2.0 18.0 22.0 23.00 24.00 14.00 18.00 24.00 14.00 12.0 20.00 24.00 14.00 18.00 25.00 24.00 14.00 18.00 25.00 24.00 14.00 14.00 14.00 18.00 25.00 24.00 14.00			د د		lo Catalog	NSX Tower	Nello Catalog NSX Towers - 70 MPH, No Ice	, No Ice	8 1 2 3 4 6 2 3 3 4 6 2 3 2 4 6 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	Nello Corporation 1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com
	Tower		Eare	or coard	Allowable Broi	acted Area (ed #)		C C C C C C C C C C C C C C C C C C C		w.nelloinc.com
	Height (#		Ton	Base	Tower Ton	30' Below Top	_	Unlift (lb)	Total Shear (Ib	L
	40'		17"	2.0'	20.0	24.0	_	14,100	1.100	
	50'	105585	17"	2.0	18.0	22.0	20,500	19,700	1.200	35,200
	60'	105586	17"	2.0'	18.0	22.0	29,000	28,100	1,300	49,900
	70,	105587	17"	2.0'	16.0	20.0	35,600	34,600	1,400	61,400
	80'	105588	17"	3.5	16.0	20.0	27,800	26,400	1,800	82,400
	-06	105589	17"	3.5	14.0	18.0	32,100	30,600	1,800	95,000
	100	105590	17"	5.0'	14.0	18.0	29,500	27,500	2,300	124,100
	110'	105591	17"	5.0'	12.0	17.0	32,900	30,900	2,400	138,900
	120'	105592	17"	6.5'	12.0	17.0	32,800	30,000	2,900	178,800
	130'	105593	17"	6.5'	11.0	16.0	36,200	33,300	3,000	197,400
	140'	105594	17"	8.0'	11.0	16.0	37,500	33,900	3,600	251,000
	150'	105595	17"	8.0'	10.0	15.0	40,500	36,800	3,700	271,500
	160'	105596	17"	9.5'	10.0	15.0	43,100	38,300	4,500	341,300
	170'	105597	17"	9.5'	9.0	15.0	46,200	41,300	4,600	366,600
	180'	105598	17"	11.0'	9.0	15.0	50,000	43,700	5,500	456,400
	190'	105599	17"	11.0'	8.0	14.0	52,500	46,200	5,600	480,600
		r designs col areas listed a d by dividing t mas and mo mas and mo gn allows for i r member de r erection shi r connections sed structura ance on towe ienance and i	nform to AN re effective 1 oy 1.2. Area one 21/8" transition all be perforn ismantle tov conform to lc shall be bol all steel is brol inspection s inspection s	IS/TIA/EIA- IS/TIA/EIA- projected ar as for flat m as for flat m namission I namission I ned by con vers within i real, state, a real, state,	222-F, "Structural reas (CaAc per A) nember antennas (ically placed abou ically placed abou ically placed abou ically placed abou ically placed abou ically be and and federal requirt ald welds shall be: and velds shall be: and velds shall be: icad per ASTM A % or minus <i>%</i> %. iomed over the life	I Standards for Ste- NSITIA/EIA-222-F) can be found by div the center of the 1 the conter of the 1 the 70% transmis the personnel in ac electrical and telet ements for construc allowed. 123.	el Antenna Towers , which include dra diding by 2. tower. tower. tower. tower and c on equipment and c coordance with ANS shone lines.	and Antenna Su g factors. Areas ow the top, one si/TIA/EIA-222-F ighting. \NSI/TIA/EIA-222	upporting Structure is for round membe per tower face for and national and 2-F.	es." er antennas can be a total of three. local codes.
								12 14 1		
MFG MFG DDA 1722205							THORADO	r-		
1/25/2005							This drawing	is the property of		DWC NO

N E L CORPORA

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Self-Supporting Towers

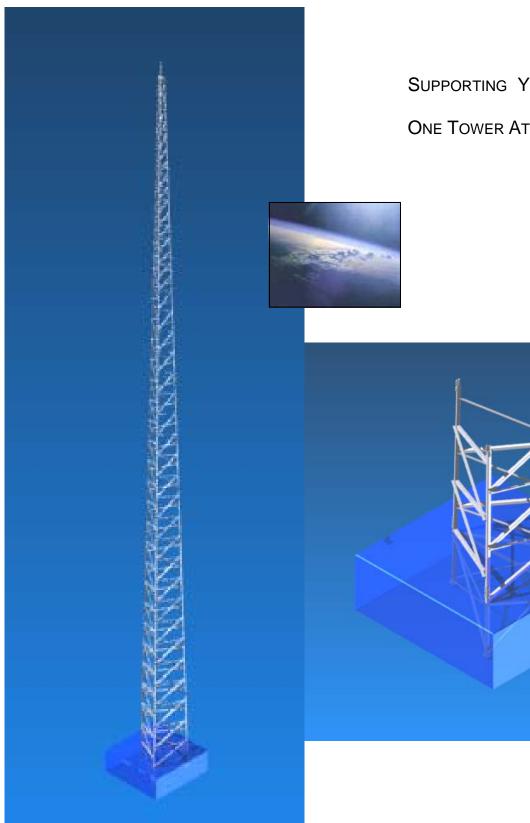
1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com	www.nelloinc.com	ar (Ib) OTM (ft-Ib)	44,100										_		0 832,900	3 890,500	ctures." smber antennas can be e for a total of three. and local codes.	DATE TITLE 2004 NSX Catalog Towers - 2004 90 MPH No Ice	005
	Base Reactions	Total Shear (Ib)	2,000	noise 2.0 2.0 2.0 2.0 2.00 2.															
, No Ice	Base F	Uplift (Ib)	24,800	35,800	28,000	36,800	33,000 39,600	37,700	43,700	44,100	49,400	51,100 56,700	56,/00	65,000	69,600	74,900	and Antenna Su g factors. Areas ow the top, one onditions are ur si/TIA/EIA-222-F ghting. NSI/TIA/EIA-22	ORA CHE RCIC HEC AFF	-
H dM 06 - 1		Download (lb)	25,600	36,700	29,400	38,300	35,100	40,800	46,900	48,300	53,700	56,800 C0 500	62,500	72,600	79,400	84,700	Antenna Towers (which include drag ing by 2. wer. non lines to 30' bek available and c equipment and c protance with ANS on marking and li on marking and li ccordance with A		
Nello Catalog NSX Towers - 90 MPH, No Ice	cted Area (sq ft)	-	24.0	19.0	21.0	21.0	19.0	16.0	15.0	14.0	14.0	12.0	12.0	10.0	9.0	9.0	tandards for Steel ir/TIA/EIA-222-F), v n be found by divid he center of the to vo 7/8" transmission over 7/8" transmission d personnel in acco d personnel in acco d personnel in acco d personnel to acco d		
Catalog N	Allowable Projected Area (sq ft)	Tower Top	20.0	20.0	17.0	17.0	15.0	12.0	12.0	10.0	9.0	8.0	8.0	7.0	6.0	6.0	2-F, "Structural S as (CaAc per ANS mber antennas ca illy placed about th e to the top and ty esses due to erec ensent and qualified ing distance of el nd federal requirerr welds shall be all ed per ASTM A12 or minus ½%. med over the life of		
Nello		e e	2.0'	2.0'	3.5'	3.51 	5.0	6.5	6.5	8.0'	8.0'	9.5	9.5.	11.0	12.5'	12.5'	I/TIA/EIA-22 ojected area s for flat men symmetrics symmetrics sinission lin tinclude str ted by comp area within fa area. No field dip galvaniz dip galvaniz tall be perfor		
ں د	Face Spread	Top	2.0'	2.0'	2.0'	i 0,	2 0. 2 0.	5.0,	2.0'	2.0'	2.0'	5 Q	ŭ c i z	5 0, i	2.0'	2.0'	orm to ANS effective pr 1.2. Area: 1.2. Area		
	Part	Number	105600	105601	105602	105603	105604 105605	105606	105607	105608	105609	105610	105617 105612	105613	105614	105615	designs confidential signal configuration of the set of		
ш 2	Tower	Height (ft)	40'	50'	60'	,o 20,	6 80	30	110'	120'	130'	140	150'	170	180'	190'	Notes: 1. Tower of 2. The are found b 3. Antern 5. Antern 6. Tower of 6. Tower of 8. Installa 9. Field co 11. To not 11. To not 11. To not 12. Maintern		

N E L CORPORA

Self-Supporting Towers



Lightweight Self-Supporting Towers



SUPPORTING YOUR WIRELESS NEEDS,

ONE TOWER AT A TIME



Lightweight Self-Supporting Towers



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

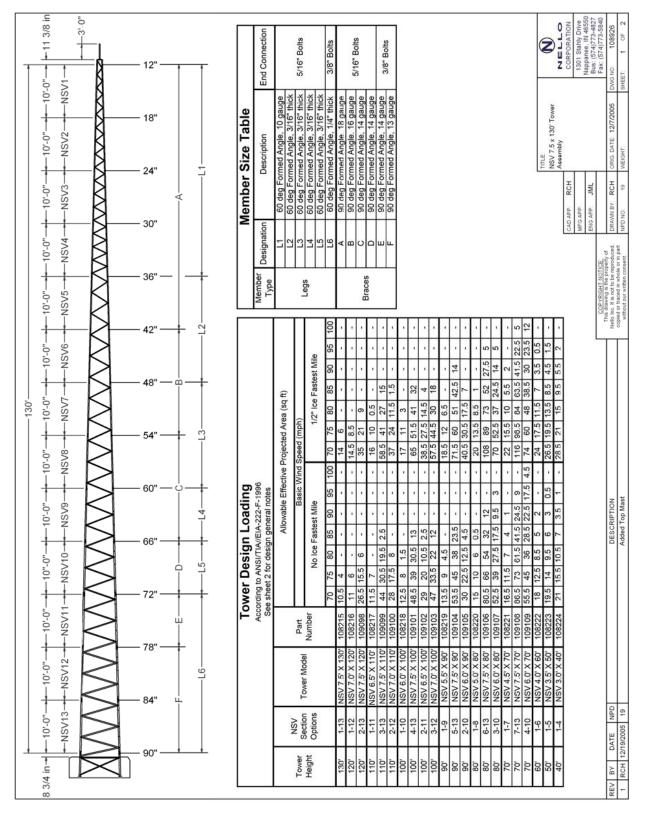
NSV Towers are available with a multitude of engineered accessories including:

- 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





Tower Notes

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. Nello Corporation designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel

2. Antennas and mounts are assumed to be symmetrically involved and work. We show to we are supply of antennas and mounts does not exceed 300 pounds. Local 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 4

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. 5

Tower and foundation installation shall be in accordance with ANSI/TIA/EIA-222-F. 9

Field connections shall be bolted. No field welds shall be allowed 2.

Structural bolts shall conform to SAE J429 Grade 5. ŝ Structural steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F. 6

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."

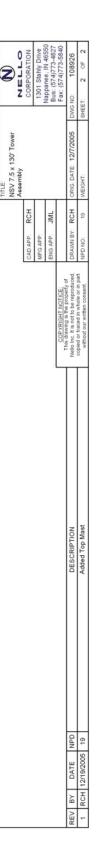
Purchaser shall verify the installation is in conformance with local, state and federal requirements for construction marking and lighting. 1

Tolerance on tower steel height is equal to plus 1% or minus ½%.

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

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.

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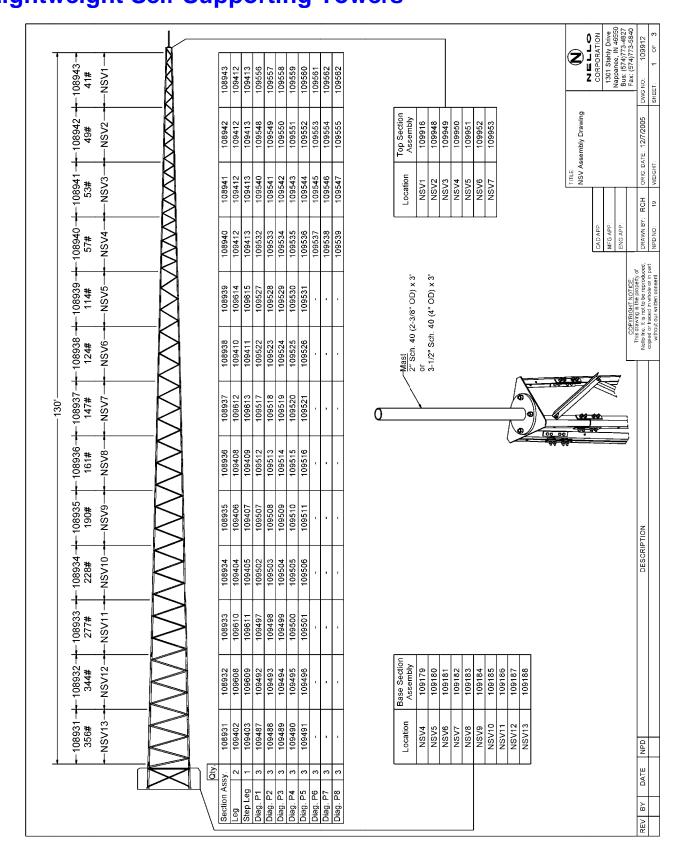
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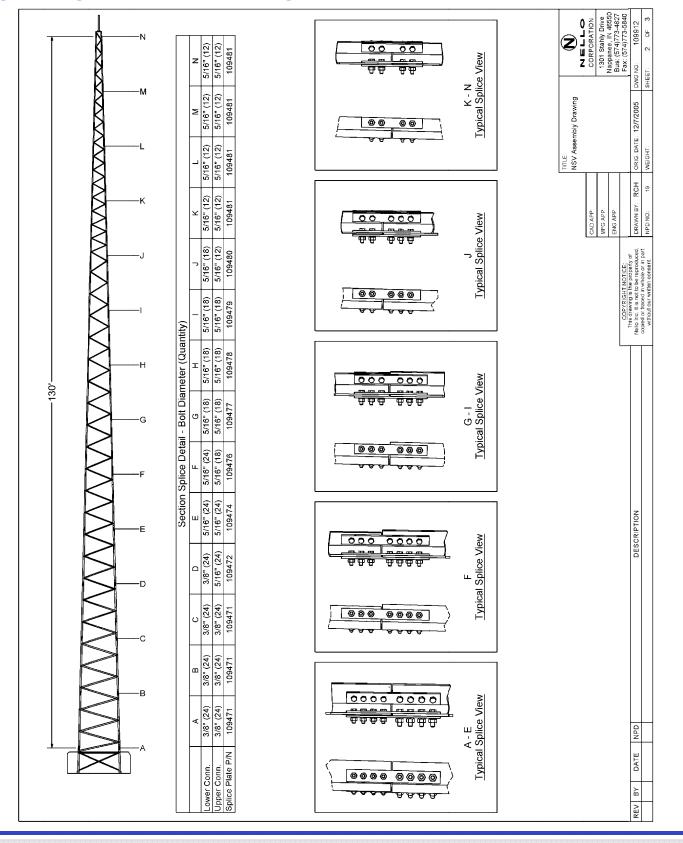
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Lightweight Self-Supporting Towers



Lightweight Self-Supporting Towers



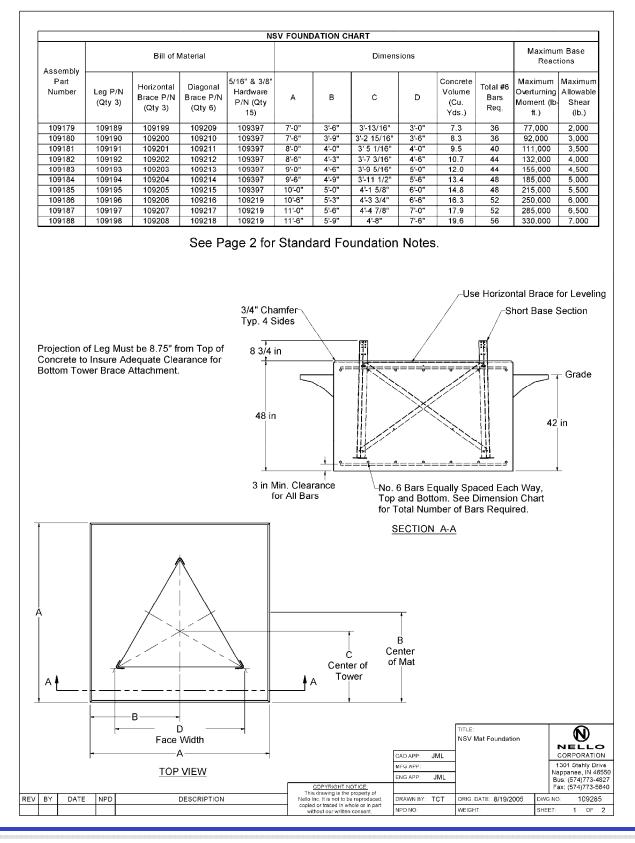


Lightweight Self-Supporting Towers

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		NPD NO: WEIGHT: 3 OF																			



Lightweight Self-Supporting Towers





Lightweight Self-Supporting Towers

													-
	F	Foundatio	on No	tes									
	c	cohesive	soil v	vith an allowa		al bearing ca	as defined by ANS pacity of 4000 psf						
	F	paramete	rs an	d that the de	oth of standar	rd foundation	rify that the actual s are adequate bas of the base founda	sed or					
							he requirements of therwise indicated		M A615 GI	ade 6	0 unless otherwi	se not	ted.
	4	4. Weldii	ng is	prohibited on	reinforcing st	teel and anch	orage.						
							lifts to a 97% of ma and free of organic						itent in
	6	3. Found	lation	designs ass	ume level gro	und at tower	site.						
	7	7. Loose	mate	erial shall be i	emoved from	bottom of ex	cavation prior to c	oncret	te placeme	ent.			
	8	B. Concr	ete co	over from exp	osed surface	of concrete	to surface of reinfo	rceme	ent shall no	ot be l	ess than 3".		
	ę	9. Concr	ete a	nd reinforcen	ent installatio	on must confe	orm to ACI 318, "Bi	uilding	g Code Re	quiren	nents for Structu	al Co	ncrete."
		10. Cond	rete	shall develop	a minimum c	compressive :	strength of 3000 ps	si in 28	3 days.				
		11. Cond	rete	shall be place	ed on the sam	ie day that th	e excavation is ma	de.					
											TITLE:		
											NSV Mat Foundation		NELLC
									CAD APP: MFG APP:	JML	}		CORPORATION 1301 Stahly Driv
							COPYRIGHT NOTIO		ENG APP:	JML	1		Nappanee, IN 465 Bus: (574)773-48 Fax: (574)773-58
RE	/ BY	DATE	NPD		DESCRIPTION		This drawing is the prop Nello Inc. It is not to be rep copied or traced in whole	oroduced, or in part	DRAWN BY:	тст	ORIG. DATE: 8/19/2005	DWG	NO: 109285
		I	I				without our written con	aent.	NPD NO:		WEIGHT:	SHE	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





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

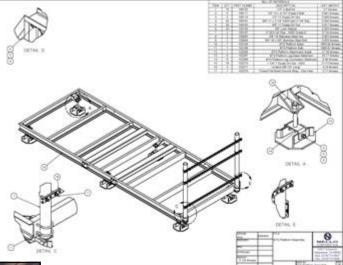
NTP TOWER FEATURES

- 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.

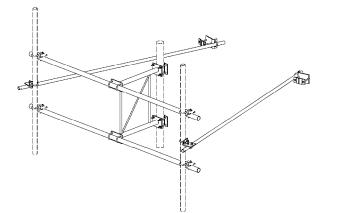






KD Sector Frames

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



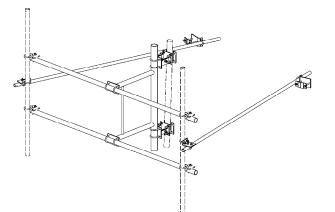
Part #	Description	Weight (Lbs)
KD Sector	r Frame, 10'-6" Wide	
101694	KD Sector Frame, 10'-6". Pipe mounts not included.	209.0
101695	KD Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	315.0
101696	KD Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	326.0
101697	KD 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 Sector	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 Sector	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

N E L L D

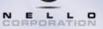
Universal KD Sector Frames

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



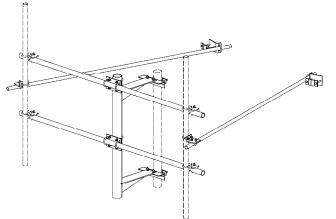
Part #	Description	Weight (Lbs)
Universal	KD Sector Frame, 10'-6" Wide	
101673	Universal KD Sector Frame, 10'-6". Pipe mounts not included.	260.0
101674	Universal KD Sector Frame, 10'-6". Three 2- 3/8" OD x 84" pipe mounts included.	366.0
101675	Universal KD Sector Frame, 10'-6". Three 2- 3/8" OD x 96" 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 w ith or w /o mounting	Design:	Welded strut with azimuth adjusting face.
Order Seperately:	pipes. Pipes and large leg/angle adapter	Mounts to:	1-1/4" to 4-1/2" OD - staight legs

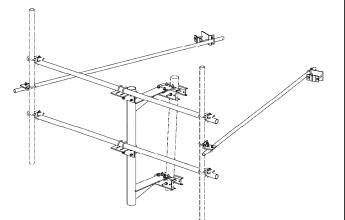


Part #	Description	Weight (Lbs)				
Sector Fr	ame, 10'-6" Wide					
109429	Sector Frame, 10'-6". Pipe mounts not included.	259.0				
109430	Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	364.0				
109431	Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included.	376.0				
109432	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 Fr	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 Fr	ame, 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				

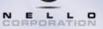
N E L L D

Universal Sector Frames

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

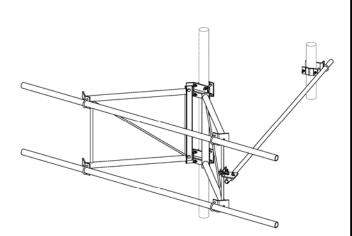


Part #	Description	Weight
		(Lbs)
Universa	Sector Frame, 10'-6" Wide	
109450	Universal Sector Frame, 10'-6". Pipe mounts not included.	272.0
109451	Universal Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included.	377.0
109452	Universal Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts 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	Hot dip galv steel	Design:	Tw o w elded
Included:	frame, clamps,		strut design -
	stiff arms,		extra stability
	available with or		
	w ithout mounting		
	pipes.		
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg/angle adapter		OD - staight
			legs



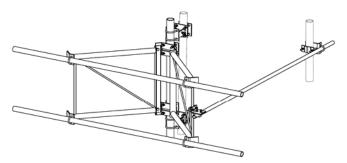
V-Sector Frame, 10'-6" Wide 255.4 101749 V-Sector Frame, 10'-6". Pipe mounts not included. 255.4 101754 V-Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included. 361.0 101755 V-Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included. 383.0 101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 266.4 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 407.2 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 421.0 101769 V-Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included. 436.5 101769	Part #	Description	Weight (Lbs)
101749 V-Sector Frame, 10'-6". Pipe mounts not included. 255.4 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" pipe mounts included. 372.0 101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 425.6 V-Sector Frame, 12' Wide 266.4 383.0 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 372.0 101765 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 407.2 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 421.0 101769 V-Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included. 436.5	V-Sector	Frame. 10'-6" Wide	
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" pipe mounts included. 372.0 101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 425.6 101760 V-Sector Frame, 12'. Pipe mounts not included. 266.4 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 421.0 101769 V-Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 V-Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 <td></td> <td>V-Sector Frame, 10'-6". Pipe mounts not</td> <td>255.4</td>		V-Sector Frame, 10'-6". Pipe mounts not	255.4
101754 pipe mounts included. 361.0 101755 V-Sector Frame, 10'-6". Three 2-3/8" OD x 96" pipe mounts included. 372.0 101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 84" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 V-Sector Frame, 12'. Wide 266.4 372.0 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 394.0 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 421.0 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 426.5 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 426.5 101770 V-Sector Frame, 15'. Three 2-3/8" OD x 108" pipe mounts included. 436.5 103855 <td< td=""><td></td><td></td><td></td></td<>			
101755 pipe mounts included. 372.0 101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 V-Sector Frame, 12' Wide 266.4 410.0 101760 V-Sector Frame, 12". Three 2-3/8" OD x 84" pipe mounts included. 372.0 101761 V-Sector Frame, 12". Three 2-3/8" OD x 96" pipe mounts included. 394.0 101766 V-Sector Frame, 12". Three 2-3/8" OD x 108" pipe mounts included. 394.0 101767 V-Sector Frame, 12". Four 2-3/8" OD x 84" pipe mounts included. 407.2 101768 V-Sector Frame, 12". Four 2-3/8" OD x 84" pipe mounts included. 407.2 101769 V-Sector Frame, 12". Four 2-3/8" OD x 96" pipe mounts included. 421.0 101770 V-Sector Frame, 15". Four 2-3/8" OD x 94" pipe mounts included. 406.5 103855 V-Sector Frame, 15". Three 2-3/8" OD x 84" pipe mounts included. 394.0 103856 V-S	101754	pipe mounts included.	361.0
101756 V-Sector Frame, 10'-6". Three 2-3/8" OD x 108" pipe mounts included. 383.0 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 V-Sector Frame, 12' Wide 266.4 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101765 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 421.0 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 436.5 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 101855 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 103856 V-Sector Frame, 15'. Three 2-	101755		372.0
108" pipe mounts included. 2000 101757 V-Sector Frame, 10'-6". Four 2-3/8" OD x 84" pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 101760 V-Sector Frame, 12'. Wide 266.4 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 101770 V-Sector Frame, 15'. Four 2-3/8" OD x 84" pipe mounts included. 405.0 101770 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 103855 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 405.0 103856 V-Sector Frame, 15'. Thr	404750	• •	202.0
101737 pipe mounts included. 396.2 101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 101760 V-Sector Frame, 12'. Pipe mounts not included. 266.4 101765 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101767 V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101770 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 421.0 101770 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 446.5 103855 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 446.0 103856 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 446.0 103857 V-Sector	101756		383.0
101758 V-Sector Frame, 10'-6". Four 2-3/8" OD x 96" pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 V-Sector Frame, 12' Wide 266.4 101760 V-Sector Frame, 12'. Pipe mounts not included. 266.4 101765 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101767 V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 407.2 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 V-Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 103855 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 436.5 103856 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 405.0 103857 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mount	101757		396.2
101758 pipe mounts included. 410.0 101759 V-Sector Frame, 10'-6". Four 2-3/8" OD x 108" pipe mounts included. 425.6 V-Sector Frame, 12' Wide 266.4 101760 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 372.0 101765 V-Sector Frame, 12'. Three 2-3/8" OD x 84" pipe mounts included. 383.0 101766 V-Sector Frame, 12'. Three 2-3/8" OD x 96" pipe mounts included. 394.0 101767 V-Sector Frame, 12'. Three 2-3/8" OD x 108" pipe mounts included. 394.0 101768 V-Sector Frame, 12'. Four 2-3/8" OD x 84" pipe mounts included. 407.2 101769 V-Sector Frame, 12'. Four 2-3/8" OD x 96" pipe mounts included. 436.5 101770 V-Sector Frame, 12'. Four 2-3/8" OD x 108" pipe mounts included. 436.5 101770 V-Sector Frame, 15'. Four 2-3/8" OD x 108" pipe mounts included. 288.4 103855 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 394.0 10272 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 405.0 103857 V-Sector Frame, 15'. Three 2-3/8" OD x 84" pipe mounts included. 416.0 103858 V-Sector Frame, 15'. Four 2-3/8"			
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103860 458.5	110210		440.0
pipe mounts included.	103860		458.5
		pipe mounts included.	



N E L L D

Universal V-Sector Frames

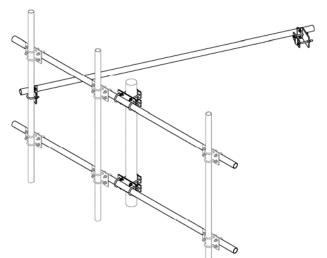
Material	Hot dip galv steel	Design:	Tw o w elded
Included:	frame, clamps,		strut design -
	stiff arms,		extra stability.
	available with or		Taper and
	w ithout mounting		azimuth
	pipes.		adjusting.
Order	Pipes and large	Mounts to:	1-1/4" to 4-1/2"
Seperately:	leg/angle adapter		OD



		Weight
Part #	Description	(Lbs)
Universa	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
Universa	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

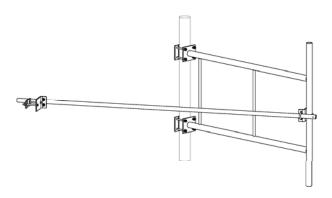
Tower Pipe Frames

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



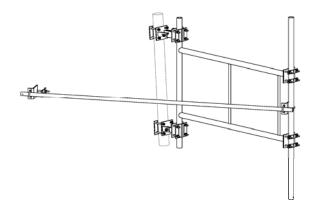
Part #	Description	Weight (Lbs)
Tower Pi	pe Frame, 10'-6" Wide	
TOWCITI	Tow er Pipe Frame, 10'-6". Pipe mounts not	
103866	included Fits 1-1/4" to 4-1/2" O.D. Round	151.0
	Member.	
	Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x	
103867	84" pipe mounts included Fits 1-1/4" to 4-1/2"	274.0
	O.D. Round Member.	
	Tow er Pipe Frame, 10'-6". Three 2-3/8" OD x	
103868	108" pipe mounts included Fits 1-1/4" to 4-	291.0
	1/2" O.D. Round Member.	
	Tow er Pipe Frame, 10'-6". Four 2-3/8" OD x	
103869	84" pipe mounts included Fits 1-1/4" to 4-	315.0
	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-	344.0
	1/2" O.D. Round Member.	
Tower Pi	pe Frame, 12' Wide	
	Tow er Pipe Frame, 12'. Pipe mounts not	
103871	included Fits 1-1/4" to 4-1/2" O.D. Round	162.0
	Member.	
	Tow er Pipe Frame, 12'. Three 2-3/8" OD x 84"	
103872	pipe mounts included Fits 1-1/4" to 4-1/2"	285.0
	O.D. Round Member.	
400070	Tow er Pipe Frame, 12'. Three 2-3/8" OD x	007.0
103873	108" pipe mounts included Fits 1-1/4" to 4-	307.0
	1/2" O.D. Round Member. Tow er Pipe Frame, 12'. Four 2-3/8" OD x 84"	
103874	pipe mounts included Fits 1-1/4" to 4-1/2"	326.0
103074	O.D. Round Member.	520.0
	Tow er Pipe Frame, 12'. Four 2-3/8" OD x 108"	
103875	pipe mounts included Fits 1-1/4" to 4-1/2"	355.0
100070	O.D. Round Member.	000.0
Tower Pi	pe Frame, 15' Wide	
	Tow er Pipe Frame, 15'. Pipe mounts not	
103876	included Fits 1-1/4" to 4-1/2" O.D. Round	184.0
	Member.	
	Tow er Pipe Frame, 15'. Three 2-3/8" OD x 84"	
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	
103878	108" pipe mounts included Fits 1-1/4" to 4-	329.0
	1/2" O.D. Round Member.	
	Tow er Pipe Frame, 15'. Four 2-3/8" OD x 84"	
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"	
103880	pipe mounts included Fits 1-1/4" to 4-1/2"	377.0
	O.D. Round Member.	

Side Arms



lr O	laterial ncluded: order eperately:	•	Design: Mounts to:	1-1/4 3/4"	OD or
_	_	leg/angle adapter	_	angle	
Part #	ŧ	Descriptio	n		Weight (Lbs)
10388 [,]	1 3' Side A	3' Side Arm, 1-1/4" to 4-1/2" OD-Straight.		94.0	
103882	2	3' Side Arm w ith LLA, 1-1/4" to 10-3/4" OD- Straight.		137.8	
100298	8 6' Side A	6' Side Arm, 1-1/4" to 4-1/2" OD-Straight.		125.0	
100300	6' Side A Straight.	Arm w ith LLA, 1-1/4"	' to 10-3/4" OD)_	177.9

Universal Side Arms



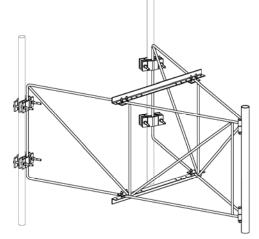
Material	Hot dip galv steel	Design:	Welded frame.
Included:	frame, clamps,		Taper and
	stiff arm		azimuth
. .	A 1.11/1 1. ////		adjusting.
Order	Additional stiff	Mounts to:	1-1/4" to 10-
Seperately:	arm		3/4" OD or
			angle
			Weight

Part #	Description	Weight (Lbs)
103883	Universal 3' Side Arm, 1-1/4" to 4-1/2" OD.	161.0
103884	Universal 3' Side Arm w ith 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 w ith LLA, 1-1/4" to 10- 3/4" OD.	245.1

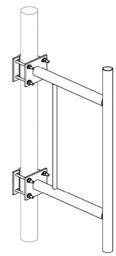


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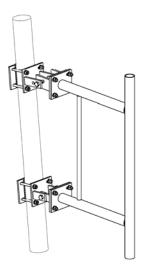
Hinged Arms



Stand-Off Arms



Universal Stand-Off Arms



	erial uded:	Hot dip galv steel frames, clamps and hardw are.	Design:	Mour	led frames. hts to bus tow er hs.
Ord Sep	er erately:	n/a	Mounts to:	1-1/4 OD	4" to 4-1/2"
Part #		Descriptio	n		Weight (Lbs)
103885	3' Hinge	d Arm Assembly			101.0
100410	6' Hinge	d Arm Assembly			102.5

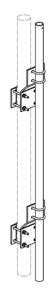
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Material	Hot dip galv steel	Design:	Welded pipe
Included:	frames, clamps		frames.
	and hardw are.		
Order	Large leg/angle	Mounts to:	1-1/4" to 4-1/2"
Seperately:	adapters		OD

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

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



	10040		A REPAIR OF A		
Ma	terial	Hot dip galv steel	Design:	De	sgined for
Inc	luded:	clamps, pipe and	-	str	aight tow er
		hardw are.		leq	0
-			••		
Ord	der	n/a	Mounts to:	1-1	1/4" to 4-
Se	perately:			1/2	2" OD
Part #		Description			Weight (Lbs)
103891	Pipe Mou	ınt, 2-3/8" x 84"			59.5
103892	Pipe Mou	ınt, 2-3/8" x 96"			63.1
103893	Pipe Mou	ınt, 2-3/8" x 108"			66.8

Pipe Mount, 2-3/8" x 126"



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 #	Description	Weight (Lbs)
100218	Universal Pipe Mount, 2-3/8" OD x 84" antenna pipe.	72.0
100223	Universal Pipe Mount with LLA, 2-3/8" OD x 84" antenna pipe.	119.0
100167	Universal Pipe Mount, 4-1/2" OD x 63" antenna pipe.	97.0
100172	Universal Pipe Mount with LLA, 4-1/2" OD x 63" antenna pipe.	147.0



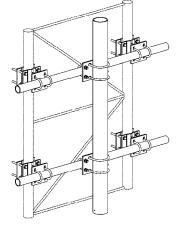
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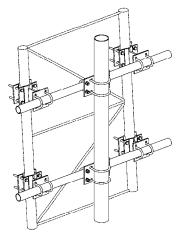
103894

Cross-Arm Pipe Mounts

	•				
Material Included:	Hot dip galv steel clamps, pipe and	Design:	Adjustable pipe location.	Part #	
Order	hardw are. n/a	Mounts to:	1 1/4" to 4	2-3/8" OD	x
Order	n/a	mounts to:	1-1/4 10 4-		C
Seperately:			1/2" OD	104116	
. ,			Straight leg or		8
			Tapered	10/117	С



Straight Version

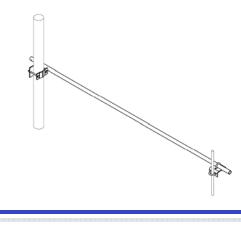


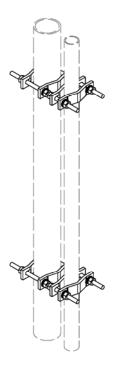
Tapered Version (Approx. 2-1/4" per 30")

Stiff Arms

Material Included:	Hot dip galv steel pipe, clamps and hardw are.	Design:	Schedul pipe	e 40
Order Seperatel	Large Leg/Angle y: Adapter	Mounts to	: See cha	ırt
Part #	Desc	ription		Weigh (Lbs)
103916	Stiff Arm, 1.66" OD x 1 3/8" OD. 1-1/4" to 4-1/2	0	2" to 2-	35.0
103917	Stiff Arm, 2-3/8" OD x OD. 1-1/4" to 4-1/2" OI	0	to 2-3/8"	31.8

Part #	Description	Weight (Lbs)
2-3/8" OD	x 84" Antenna Pipe	
104116	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 40" Wide (Straight) (2" Sch. 40 Cross Pipe)	139.0
104117	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 60" Wide (Straight) (2" Sch. 40 Cross Pipe)	147.0
104118	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 80" Wide (Straight) (2" Sch. 40 Cross Pipe)	150.0
104119	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 96" Wide (Straight) (2" Sch. 40 Cross Pipe)	154.0
104927	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 40" Wide (Taper) (2" Sch. 40 Cross Pipe)	137.0
104928	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 60" Wide (Taper) (2" Sch. 40 Cross Pipe)	145.0
104929	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 80" Wide (Taper) (2" Sch. 40 Cross Pipe)	148.0
104930	Cross-Arm Pipe Mount Assembly - 2-3/8" O.D. x 84" - 96" Wide (Taper) (2" Sch. 40 Cross Pipe)	152.0
4-1/2" OD	x 63" Antenna Pipe	
104120	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 40" Wide (Straight) (2" Sch. 80 Cross Pipes)	183.0
104121	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 60" Wide (Straight) (2" Sch. 80 Cross Pipes)	193.0
104122	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 80" Wide (Straight) (2" Sch. 80 Cross Pipes)	198.0
104123	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 96" Wide (Straight) (2" Sch. 80 Cross Pipes)	203.0
104931	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 40" Wide (Taper) (2" Sch. 80 Cross Pipes)	169.0
104932	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 60" Wide (Taper) (2" Sch. 80 Cross Pipes)	180.0
104933	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 80" Wide (Taper) (2" Sch. 80 Cross Pipes)	185.0
104934	Cross-Arm Pipe Mount Assembly - 4-1/2" O.D. x 63" - 96" Wide (Taper) (2" Sch. 80 Cross Pipes)	190.0



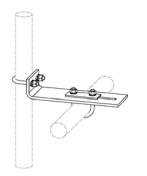


Material Included:	Hot dip galv steel clamps and hardw are.	Design:	Parallel and 90 degree mounting configurations
Order Seperately:	Pipe	Mounts to:	See chart

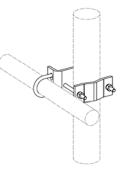
Part #	Description	Weight (Lbs)
Clam p St		
101296	Pipe to Pipe Clamp. (1-1/2" to 3-1/2" OD) 1/2" x 12" THD Rod	9.9
101344	Pipe to Pipe Clamp. (2-3/8" to 5" OD) 5/8" x 14" THD Rod	17.2
L - Brack	et Style, 90 Degree Mounting	
100528	Pipe to Pipe Adapter, L-Bracket style. Joins one 1.66" OD round member to one 2-3/8" OD round member. 1/2" U-bolts.	4.3
100527	Pipe to Pipe Adapter, L-Bracket style. Joins tw o 2-3/8" OD round members. 1/2" U-bolts.	4.8
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 # 100527 Part # 100528



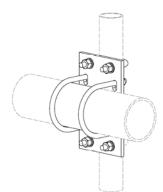
Part # 100521

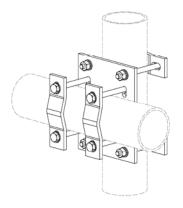


Part # 100529

N E L LON

Crossover Plates





	Material Included: Order Seperately:	Hot dip galv steel plates, u-bolts or clamps and hardw are. Pipe		90 degree mounting configuration See chart
Part #		Description		Weight (Lbs)
U-Bolt Sty	yle			
103899	Crossover P OD Pipe	late Assembly, 1.6	6" OD to 1.66"	5.9
103900	Crossover P 3/8" O.D. Pip	late Assembly, 2-3 e	/8" O.D. to 2-	7.7
100531	Crossover P 1/2" O.D. Pip	late Assembly, 2-3 e	/8" O.D. to 3-	8.6
103902	Crossover P 1/2" O.D. Pip	late Assembly, 2-3 e	/8" O.D. to 4-	8.9
103903	Crossover P 1/2" OD Pipe	late Assembly, 3-1	/2" OD to 3-	9.9
103904	Crossover P 1/2" O.D. Pip	late Assembly, 3-1. e	/2" O.D. to 4-	10.0
103905	Crossover P 1/2" O.D. Pip	late Assembly, 4-1. e	/2" O.D. to 4-	12.0
Clamp St	yle			

Mate

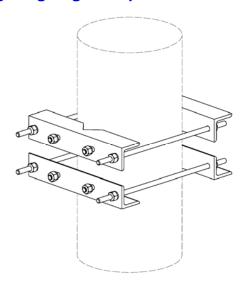
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Large Leg/Angle Adapter



	Material Included:	Hot dip galv steel angle and hardw are.	Design:	Adapts mounts to large round or angle
	Order Seperately:	n/a	Mounts to:	members Up to 10-3/4" OD or 6" Angle
Part #		Description		Weight (Lbs)
100196	Large Leg A 10-3/4 OD	dapter Kit Assembly	for 4-1/2" to	28.0

Crossover Plate Assembly. Joins two 1-1/4"

Crossover Plate Assembly. Joins two 2-3/8"

to 4-1/2" OD round members.

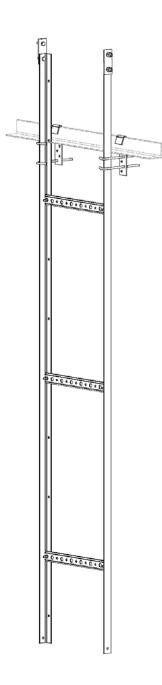
to 6-5/8" OD round members.

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

103906

103907

CORPORATION

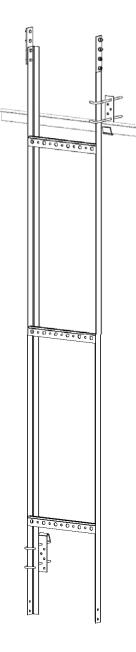


Material	Hot dip galv steel	Design:	Angle rails
Included:	ladder, splice		with bolt on
	plates and		channel rungs
	attachment kits		3' spacing
Order	n/a	Mounts to:	Round or
Seperately:			angle
			members up
			to 4-1/2" OD

Part #	Description	Weight (Lbs)
10' Univers	sal Cable Ladder Kit	
103918	Universal Cable Ladder, 20-1/4" wide x 10'	
105510	long, 6-hole rung.	37.0
103919	Universal Cable Ladder, 29-1/4" wide x 10'	39.2
100010	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
100224	12-hole rung.	04.0



Universal Welded Cable Ladder



Material	Hot dip galv steel	Design:	Angle rails
Included:	ladder, splice		with welded
	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

N E L L O

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.	57.0
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.	11.0
103922	Universal Welded Cable Ladder, 35-1/4" wide	81.0
100322	x 20' long, 12-hole rung.	01.0



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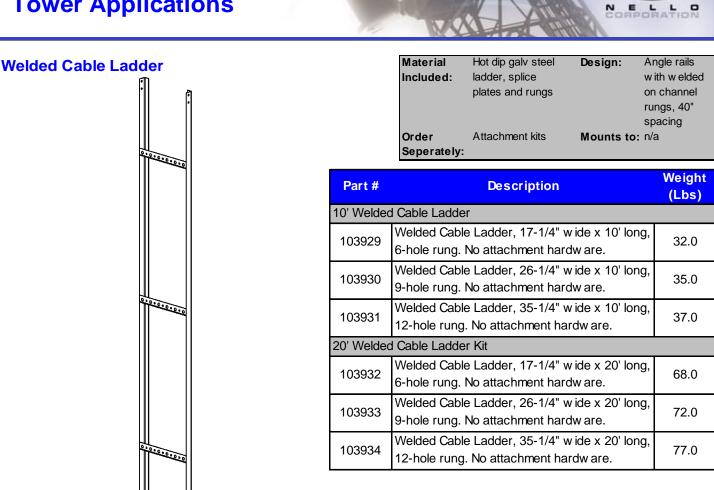
Cable Ladder

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

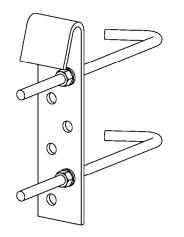
Part #	Description	Weight (Lbs)
10' Cable I	Ladder	
103923	Cable Ladder, 20-1/4" wide x 10' long, 6-hole	35.0
100020	rung. No attachment hardw are.	55.0
103924	Cable Ladder, 29-1/4" wide x 10' long, 9-hole	37.0
100024	rung. No attachment hardw are.	07.0
103925	Cable Ladder, 38" wide x 10' long, 12-hole	39.0
100020	rung. No attachment hardw are.	00.0
20' Cable	Ladder Kit	
103926	Cable Ladder, 20-1/4" wide x 20' long, 6-hole	69.0
100020	rung. No attachment hardw are.	00.0
103927	Cable Ladder, 29-1/4" wide x 20' long, 9-hole	75.0
100027	rung. No attachment hardw are.	70.0
103928	Cable Ladder, 38" wide x 20' long, 12-hole	77.0
100020	rung. No attachment hardw are.	,,

Tower

N E L LON



Universal Cable Ladder Attachments

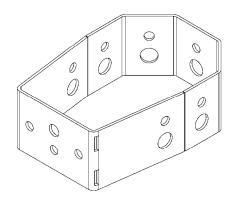


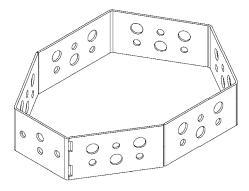
Material	Hot dip galv steel	Design:	Adapts cable
Included:	plates and j-bolts		ladder to
			tow er
			members
Order	Cable ladder	Mounts to:	Round or
Seperately:			angle
			members

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
100344	1/2" OD and 1-1/2" to 5" angle members.	1.1

N E L L O

Cluster T-Line Brackets

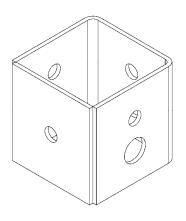




Material	Hot dip galv steel	Design:	Minimizes
Included:	bracket and listed		w ind load on
	hardw are		cable
Order	n/a	Mounts to:	Round or
Seperately:			angle
			members

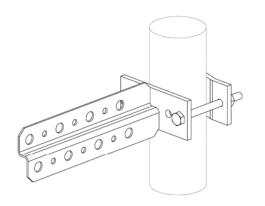
Part #	Description	Weight (Lbs)
Cluster T-I	Line Brackets	
103940	Cluster T-Line Bracket (7-Hole)	2.4
103941	Cluster T-Line Bracket with 2" to 5" OD round member adapter.	7.0
103942	Cluster T-Line Bracket with 6" to 8" OD round member attachment.	8.0
103943	Cluster T-Line Bracket with U-bolt for 2-3/8" round member attachment.	2.7
103944	Cluster T-Line Bracket with Angle member attachment.	4.0
Cluster T-I	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 Included: Order Seperately:	Hot dip galvanized bracket Hangers and mounting hardw are	Design: Mounts to:	to 3 coa	oports up 3 runs of 1X
Part #		Description			Weight (Lbs)
100953	Mini Cluster	Line Support Bracke	et, 10 pack		0.3

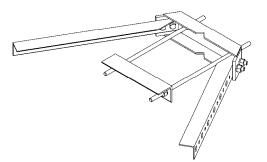
T-Line Brackets



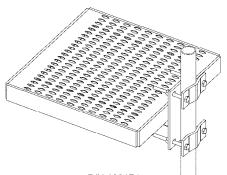
	Material Included:	Hot dip galv steel bracket and hardw are	V	and 14 hole ersions
	Order Seperately:	n/a		ound or ngle nembers
Part #		Description		Weight (Lbs)
103950	8 Hole T-Line 1/2" OD Leg).	Bracket Assembly	(1-1/4" to 4-	6.2
103951	8 Hole T-Line 3/4" OD Leg).	Bracket Assembly	(1-1/4" to 12-	22.0
100184	14 Hole T-Lin 1/2" OD).	e Bracket Assemb	ly (1-1/4" to 4-	7.5
100320	14 Hole T-Lin 10-3/4" OD)	e Bracket Assemb	ly (1-1/4" to	23.2

CORPORATION

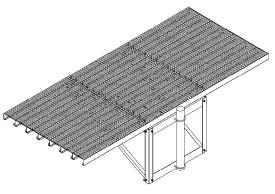
Star T-Line Bracket



	Material Included: Order Seperately:	Hot dip galv steel bracket and hardw are n/a	Design: Mounts to:	12 line capacity 1-1/2" to 7- 1/2" Round or 1-1/2" to 5" angle
				members
Part #		Description		Weight (Lbs)
101243	Star Coax Supp	oort Assembly		18.3



P/N 103174 (Fits Up To 4-1/2" O.D.)



P/N 104401 - 104405 Fits 4-1/2" O.D. Leg

	The second		EX VIEDORE - CO.	
	Material Included: Order Seperately:	Hot dip galv steel shield and attachment hardw are Pipe mount		6 sizes. 8' - 12' come w ith tie-back cable. 4-1/2" OD pipe
Part #		Description		Weight (Lbs)
103174	Rest Platform	n, Ice Shield Kit, 24"	x 24"	71.4
104401	lce Shield Kit	, 48" x 54"		356.0
104402	lce Shield Kit	, 72" x 54"		389.0
104403	lce Shield Kit	, 96" x 54"		488.0
104404	Ice Shield Kit	, 120" x 54"		554.0
104405	lce Shield Kit	, 144" x 54"		620.0

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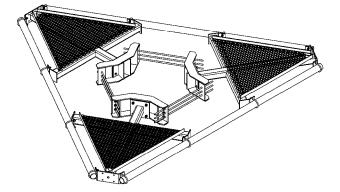


Welded

corners with

Design:

Low-Profile Platforms



	w itho pipes	able w ith or ut mounting	с	enter arms
-	der Pipes perately: suppo	and rail ort kit	Mounts to: S	ee ranges elow
Part #		Description		Weight (Lbs)
Low-Pro	ile Platform, 10)'-6" (10-3/4" -	· 18" OD Rang	e)
108602	Low - Profile Plat included. (8-5/8	" to 18" O.D.)		1147.0
109859	Low - Profile Plat 84" pipe mounts	included.		1453.0
109860	Low - Profile Plat 108" pipe moun	ts included.		1525.0
109861	Low -Profile Plat x 84" pipe mour	its included.		1555.0
109862	Low -Profile Plat x 108" pipe mou	ints included.		DD 1651.0
Low-Pro	ile Platform, 12			
109863	Low - Profile Plat included. (10-3/	4" to 36" O.D.)		1181.0
109864	Low - Profile Plat pipe mounts inc	luded.		4" 1487.0
109865	Low -Profile Plat 108" pipe moun	-	2-3/8" OD x	1559.0
109866	Low - Profile Plat 84" pipe mounts		elve 2-3/8" OD	x 1589.0
109867	Low -Profile Plat 108" pipe moun		elve 2-3/8" OD	x 1685.0
Low-Pro	ile Platform, 14	l' (10-3/4" to 3	30" OD)	ř.
108603	Low -Profile Plat included. (8-5/8		mounts not	1274.0
109868	Low -Profile Plat pipe mounts inc			^{4"} 1580.0
109869	Low -Profile Plat 108" pipe mount	ts included. (8.	625" to 30"	1652.0
109870	Low - Profile Plat 84" pipe mounts	included. (8.6	25" to 30" O.D	.)
109871	Low -Profile Plat 108" pipe mount			x 1778.0
Low-Pro	ile Platform, 14	l' (30" to 48" (OD)	
109872	Low - Profile Plat included. (30" t		mounts not	1226.0
109873	Low - Profile Plat pipe mounts inc	luded. (30" to 4	48" O.D.)	^{4"} 1532.0
109874	Low -Profile Plat 108" pipe moun	ts included. (30	0" to 48" O.D.)	1604.0
109875	Low - Profile Plat 84" pipe mounts	form, 14'. Twe	elve 2-3/8" OD	x 1634.0
109876	Low - Profile Plat 108" pipe moun	form, 14'. Twe	elve 2-3/8" OD	x 1730.0

Material

Included:

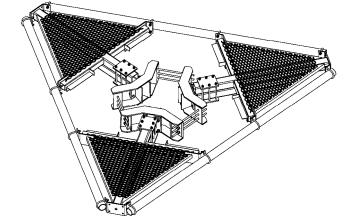
Hot dip galv steel

frame and

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

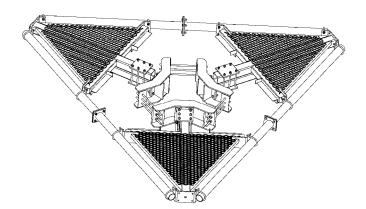
Part #	Description	Weight (Lbs)				
Low-Prof	Low-Profile Telescoping Platform, 10'-6" (10-3/4" - 18" OD Range)					
103964	Low -Profile Telescoping Platform, 10'-6". Pipe mounts not included.	1035.0				
103965	Low -Profile Telescoping Platform, 10'-6". Nine 2- 3/8" OD x 84" pipe mounts included.	1346.0				
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 I	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 l	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

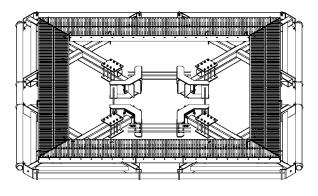


Part #	Description	Weight (Lbs)			
Low Prot	file Telescoping Platform 10' 6" (10 2/4")				
LOW-FIO	Low-Profile Telescoping Platform, 10'-6" (10-3/4" - 32" OD)				
103980	Low -Profile Telescoping Platform, 10'-6"- Flanged. Pipe mounts not included.	1058.0			
103981	Low -Profile Telescoping Platform, 10'-6"- 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	file 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-Pro	file 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	Hot dip galv steel	Design:	Welded
Included:	frame and		corners with
	hardw are.		telescoping
	Available with or without mounting pipes.		center arms
Order	Pipes and	Mounts to:	10-3/4" to 48"
Seperately:	Support Rail Kit		tapered or straight poles
			straight poles



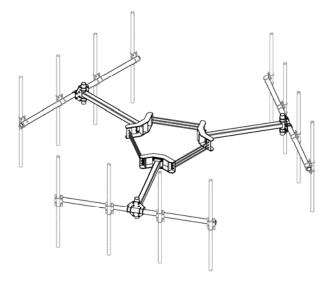
Part #	Description	Weight (Lbs)				
Low-Prof	Low-Profile Telescoping Square Platform, 10'-6"					
104385	Low - Profile Telescoping Square Platform, 10'- 6". Pipe mounts not included.	2254.0				
104386	Low -Profile Telescoping Square Platform, 10'- 6". Nine 2-3/8" OD x 84" pipe mounts included.	2887.0				
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				

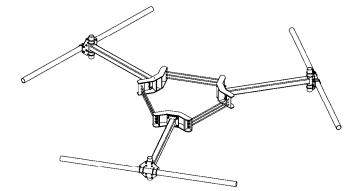


Support Arms for Clamp Rings

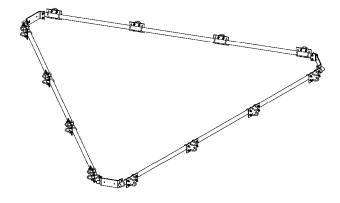
Material Included:	Hot dip galv steel clamp ring, support arm, pipe frame w ith or w ithout pipe mounts	Design:	Complete co- location kit. 60" support arm length.
Order Seperately:	Pipe mounts and w ork platforms	Mounts to:	10-3/4" to 48" tapered or straight poles

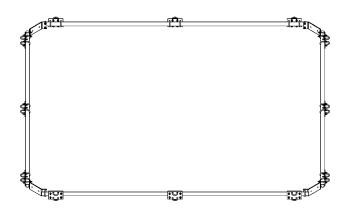
Part #	Description	Weight (Lbs)
T-Arm Co	o-location Kit, 10'-6"	
104000	T-Arm Co-location Kit, 10'-6". Pipe mounts not included.	760.0
104001	T-Arm Co-location Kit, 10'-6". Nine 2-3/8" OD x 84" pipe mounts included.	1068.0
104002	T-Arm Co-location Kit, 10'-6". Nine 2-3/8" OD x 108" pipe mounts included.	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-Arm Co-location Kit, 14'. Tw elve 2-3/8" OD x 108" pipe mounts included.	1337.0



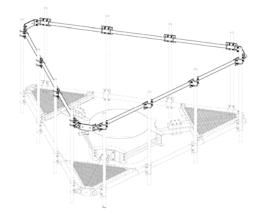


T-Arm Co-location Kits

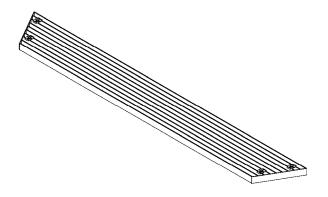




	aterial cluded:	Hot dip galv steel pipes, 12 crossover plates and hardw are.	Design:		on upper port rail
•.	der perately:	Platform, pipes	Mounts to:		-Profile orms
Part #		Description			Weight (Lbs)
Low-Prof	ile Platfor	rm, Triangular			
103995	Low - Prof	ile Support Rail Kit, 1	0'-6"		263.2
103996	Low -Profile Support Rail Kit, 12'		268.7		
103997	Low - Prof	ile Support Rail Kit, 1	4'		276.3
Low-Prof	ile Platfor	rm, Square			
109388	Low - Prof	ile Support Rail Kit (S	Square), 10'-	6"	286.0
109389	Low - Prof	ile Support Rail Kit (S	Square), 12'		310.0
109380	Low - Prof	ile Support Rail Kit (S	Square), 14'		338.0



Low-Profile Platform Support Rails



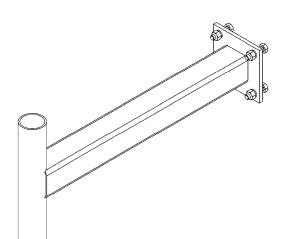
lı c	Naterial ncluded: Order Seperately:	Hot dip galv steel grating and hardw are. Platform, pipes	Design: Mounts to:	to sj corr platf Low	ners of form
Part #		Description			Weight (Lbs)
103998	Low - Prof	ile Bridge Kit, 10'-6"			36.3
103999	Low - Prof	ile Bridge Kit, 12'			53.3
100468	Low - Prof	ile Bridge Kit, 14'			75.0

CORPORATION

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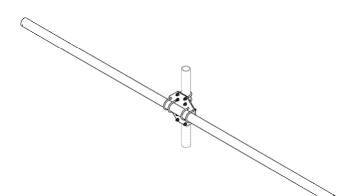
Work Platforms



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 St	rut Kits	
109900	3' Strut for T-Arm Assembly	49.0
109907	5' Strut for T-Arm Assembly	68.0

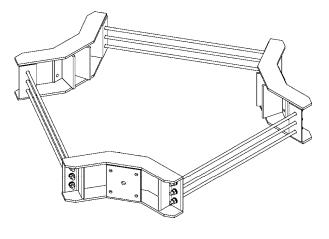
Work Platforms

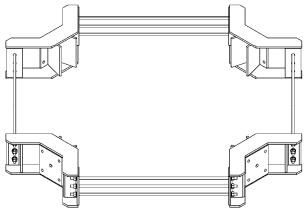


Material Included:	Hot dip galv steel clamp rings and threaded rod	Design:	3 or 4 sector
Order	Clamp ring, strut,	Mounts to:	T-Arm strut
Seperately:	antenna pipe and w ork platforms		

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
107003	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

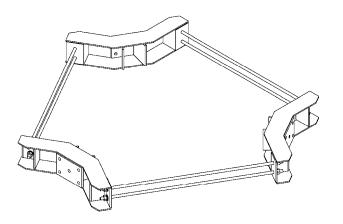




Material	Hot dip galv steel	Design:	3 or 4 sector
Included:	clamp rings and threaded rod		
	Arms, platforms	Mounts to:	Fits tapered or
Seperately:	and pipe		straight poles

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



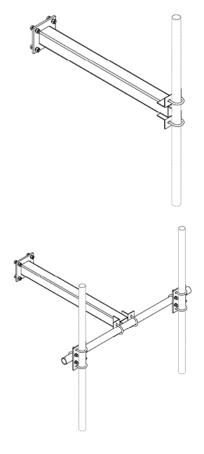
Material	Hot dip galv steel	Design:	3 or 4 sector
Included:	clamp rings and		lightw eight
	threaded rod		design for
			small load
			applications
Order	Arms and pipe	Mounts to:	Fits tapered or
Seperately:			straight poles

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

N E L L O



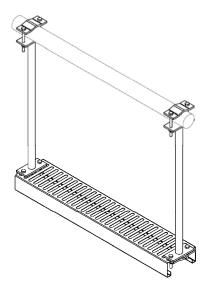
Universal Clamp Rings



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	be 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 Pi	pe Support Arm	
104021	Clamp Ring Stand-Off Arm, 24" Long-double. Includes hardw are and U-bolts for 2-3/8" OD	66.1
104022	Clamp Ring Stand-Off Arm, 48" Long-double. Includes hardw are and U-bolts for 2-3/8" OD	84.9
104023	Clamp Ring Stand-Off Arm, 72" Long-double. Includes hardw are and U-bolts for 2-3/8" OD	103.8

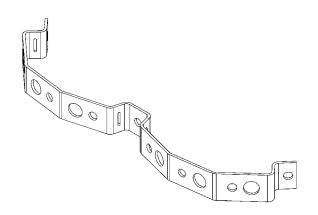
Universal Lightweight Clamp Rings



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

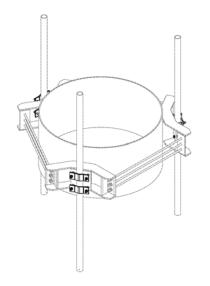
Universal Round Member Support Brackets



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

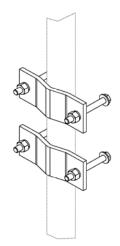
Part #	Description	(Lbs)
102935	Universal Round Member Support Bracket - 10 pack	11.0

Pipe Mount Adapter for Clamp Rings



Included: bracket and hardw are Order Clamp Rings and Mounts to: Clamp Ring	Material	Hot dip galv steel	Design:	Plate design
Order Clamp Rings and Mounts to: Clamp Ring	Included:	bracket and		
1 0 1 0		hardw are		
	Order	Clamp Rings and	Mounts to:	Clamp Ring
Seperately: antenna pipes	Seperately:	antenna pipes		

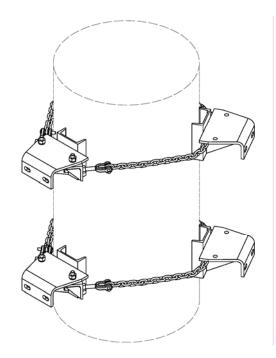
Part #	Description	Weight (Lbs)
104028	Pipe Mount Adapter Plate for Clamp Rings, 1- 1/4" OD to 4-1/2" OD.	5.0



N E L L O



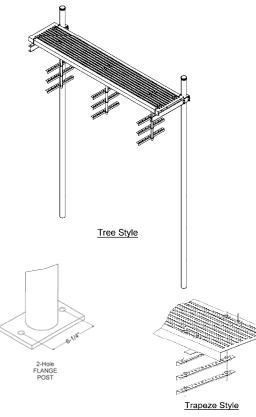
Low-Profile Chain Mounts



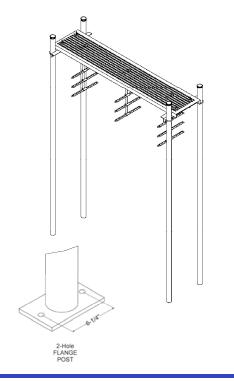
¥		Description		Weight (Lbs)
	Order Seperately:	Antenna pipes up to 3-1/2" OD	Mounts to:	8" to 60" OD
	laterial ncluded:	Hot dip galv steel brackets, chain and hardw are	Design:	Welded pipe support with pivot chain connection

104148	Low -Profile Chain Mount. Pipe mounts not included.	68.0
104149	Low -Profile Chain Mount. Three 2-3/8" OD x 84" pipe mounts included.	173.0
104150	Low -Profile Chain Mount. Three 2-3/8" OD x 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		

N

E

Part #	Part # Description		
12" Wide	Bridge Kits		
104355	Tw o Post Waveguide Bridge Kit, 12" x 10'. No	267.0	
	trapeze, tw o 14' burial posts.		
104356	Tw o Post Waveguide Bridge Kit, 12" x 10'.	287.0	
101000	Triple level trapeze, tw o 14' burial posts.	20110	
104357	Tw o Post Waveguide Bridge Kit, 12" x 10'. No	226.0	
104337	trapeze, tw o 10'-6" flange posts.	220.0	
104358	Tw o Post Waveguide Bridge Kit, 12" x 10'.	245.0	
104356	Triple level trapeze, tw o 10'-6" flange posts.	245.0	
24" Wide	Bridge Kits		
100884	Two Post Waveguide Bridge Kit, 24" x 10'. No	346.0	
100004	trapeze, tw o 14' burial posts.	340.0	
100131	Tw o Post Waveguide Bridge Kit, 24" x 10'.	375.0	
100131	Triple level trapeze, tw o 14' burial posts.	375.0	
107623	Tw o Post Waveguide Bridge Kit, 24" x 10'.	406.0	
107023	Triple level tree brackets, tw o 14' burial posts.	400.0	
104359	Two Post Waveguide Bridge Kit, 24" x 10'. No	305.0	
104339	trapeze, tw o 10'-6" flange posts.	303.0	
100915	Tw o Post Waveguide Bridge Kit, 24" x 10'.	333.6	
100915	Triple level trapeze, tw o 10'-6" flange posts.	333.0	

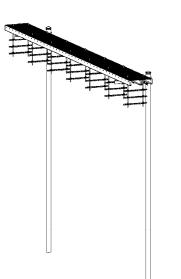
Material	Hot dip galv steel	Design:	Four post
Included:	pipe, channel,		bridge design.
	supports, caps,		
	trapeze and		
	hardw are		
Order	Additional	Mounts to	: n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)
104360	Four Post Waveguide Bridge Kit, 24" x 10'. No	550.0
104000	trapeze, (4) 14' burial posts.	000.0
104361	Four Post Waveguide Bridge Kit, 24" x 10'.	588.0
104001	Triple level tree bracket, (4) 14' burial posts.	000.0
104362	Four Post Waveguide Bridge Kit, 24" x 10'. No	467.0
104002	trapeze, (4) 10'-6" flange posts.	407.0
	Four Post Waveguide Bridge Kit, 24" x 10'.	
104363	Triple level tree brackets, (4) 10'-6" flange	506.0
	posts.	

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2 Post Waveguide Bridge Kits, 20'



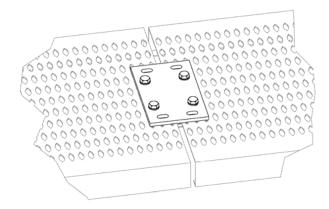


Material	Hot dip galv steel	Design:	Tw o post
Included:	pipe, channel,		bridge design.
	supports, caps,		
	trapeze and		
	hardw are		
Order	Additional	Mounts to	: n/a
Seperately:	accessories		

Part #	Description	Weight (Lbs)
104353	Two Post Waveguide Bridge Kit, 18" x 20'. No	506.0
10.000	trapeze, tw o 14' burial posts.	000.0
100318	Tw o Post Waveguide Bridge Kit, 18" x 20'.	563.0
100010	Triple level, tw o 14' burial posts.	505.0
104354	Two Post Waveguide Bridge Kit, 27" x 20'. No	661.0
104334	trapeze, tw o 14' burial posts	001.0
100319	Tw o Post Waveguide Bridge Kit, 27" x 20'.	729.0
100319	Triple Level, tw o 14' burial posts.	129.0

Waveguide Bridge Applications

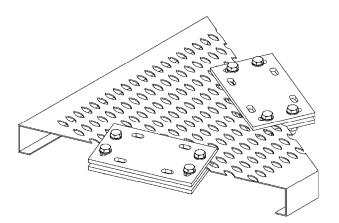
Waveguide Bridge Splice, Straight



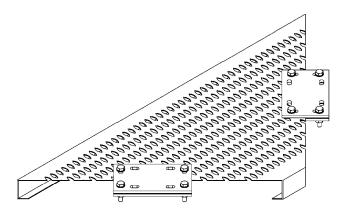
Material	Hot dip galv steel	Design:	Bolt-on splice
Included:	plate and		plates
	hardw are		
Order	n/a	Mounts to:	12" and 24"
Seperately:			w aveguide
			bridge
			channel
			Weight

Part #	t# Description	
104351	Waveguide Bridge Splice Assembly, Straight	12.0

Waveguide Bridge Splice, 45 Degrees



Waveguide Bridge Splice, 90 Degrees



	Material Included:	Hot dip galv steel corner and hardw are	Design:		lt-on splice rner
	Order	n/a	Mounts to:	24'	"
	Seperately:			wa	aveguide
				bri	dge
				cha	annel
Part #		Description			Weight (Lbs)
104350	Waveguide degrees - 2	e Bridge Splice Asse 24"	mlby, 45		34.9

	Material Included:	Hot dip galv steel corner and hardw are	Design:		t-on splice mer
	Order	n/a	Mounts to:	24"	
	Seperately:			bric	veguide Ige annel
Part #		Description			Weight (Lbs)
03470	Waveguide degrees - 2	e Bridge Splice Asse 24"	mbly, 90		45.0

Waveguide Applications

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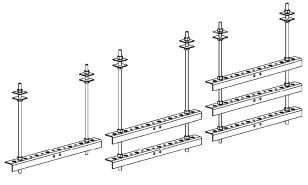
7.1

5.1

8.3

11.0

Waveguide Bridge Trapeze Kits



li C	Material ncluded: Drder Seperately:	Hot dip galv steel channel and hardw are n/a	Mounts to:	4 and 8 hole channel design w aveguide bridge channel
Part #		Description		Weight (Lbs)
100905	4 Hole Trap	beze Kit, Single		3.8

4 Hole Trapeze Kit, Triple

8 Hole Trapeze Kit, Single

8 Hole Trapeze Kit, Double

8 Hole Trapeze Kit, Triple

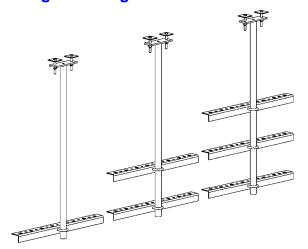
Material	Hot dip galv steel	Design:	8 hole design
Included:	channel and		w ith
	hardw are		adjustable
			levels
Order	n/a	Mounts to:	w aveguide
Seperately:			bridge
			channel

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

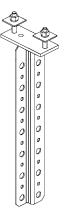
Material Included:	Hot dip galv steel bracket and hardw are	Design:	8 and 14 hole design.
Order	n/a	Mounts to:	w aveguide
Seperately:			bridge
			channel

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



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100907

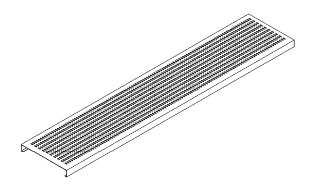
100222

100297

100200

Waveguide Bridge Applications

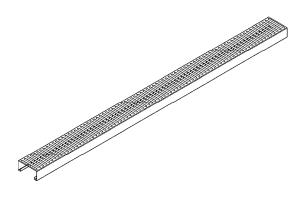
Grip Strut Waveguide Bridge Channel



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

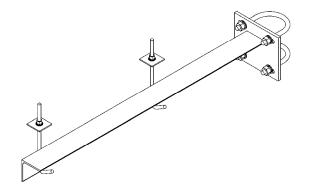
Part #	Description	Weight (Lbs)
100908	Grip Strut Waveguide Bridge Channel, 12" x 10'- 1 1/2"	31.0
100129	Grip Strut Waveguide Bridge Channel, 24" x 10'	111.0

Grated Waveguide Bridge Channel



lı c	Naterial ncluded: Order Seperately:	G90 galvanized channel Posts and accessories	Design: Mounts to:	Grated channel, 4" deep. n/a
Part #		Description		Weight (Lbs)
100470	Grated Wa	veguide Bridge Cha	nnel, 9" x 10'	47.0
100221	Grated Wa	veguide Channel, 9'	' x 20'	112.0

Waveguide Bridge Support Kits



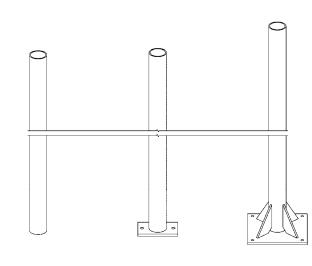
Material Included:	Hot dip galv support and hardw are	Design:	Universal design for bridge support
Order Seperately:	Posts and accessories	Mounts to:	3-1/2" to 4- 1/2" OD Pipe columns

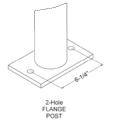
Part #	Description	Weight (Lbs)
100909	Waveguide Bridge Support Kit, 18" Long. 3- 1/2" OD	12.0
100199	Waveguide Bridge Support Kit, 36" Long. 3- 1/2" OD	17.0
100999	Waveguide Bridge Support Kit, 36" Long. 4- 1/2" OD	18.0

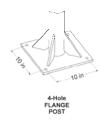
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Waveguide Bridge Applications









included: Order Seperately:	columns Waveguide bridge accessories and anchors		w ith and w ithout base flanges n/a
	Description		Weight (Lbs)
te Post			
Base Plate	Pipe Column, 10-6" L	ong - 2 Hole	85.2
Base Plate	Pipe Column, 14' Lon	g - 2 Hole	111.8
Base Plate	Pipe Column, 11' Lon	g - 4 Hole	108.6
Base Plate	Pipe Column, 15' Lon	g - 4 Hole	139.0
rial Post			
3" Sch. 40	Galvanized Pipe - 10	'-6"	80.0
3" Sch. 40	Galvanized Pipe - 12	'-0"	91.0
3" Sch. 40	Galvanized Pipe - 14	'-0".	106.0
3" Sch. 40	Galvanized Pipe - 16	'-0"	121.0
	Order Seperately: E Post Base Plate Base Plate Base Plate Base Plate 3" Sch. 40 3" Sch. 40	Order Waveguide bridge Seperately: accessories and anchors Description te Post Base Plate Pipe Column, 10-6" L Base Plate Pipe Column, 14' Lon Base Plate Pipe Column, 14' Lon Base Plate Pipe Column, 11' Lon Base Plate Pipe Column, 15' Lon Image: Sch. 40 Galvanized Pipe - 10 3" Sch. 40 Galvanized Pipe - 12 3" Sch. 40 Galvanized Pipe - 14	Order Waveguide bridge Mounts to: Seperately: accessories and anchors Mounts to: Description te Post Base Plate Pipe Column, 10-6" Long - 2 Hole Base Plate Pipe Column, 14' Long - 2 Hole Base Plate Pipe Column, 14' Long - 4 Hole Base Plate Pipe Column, 11' Long - 4 Hole

Material

Hot dip galv

CORPORATION

Support pipe

N

Design:

Material	Hot dip galv pipe	Design:	Cap designed
Included:	сар		to slip over 3-
			to slip over 3- 1/2" OD pipe
Order	n/a	Mounts to	
Seperately:			

Part #	Description	Weight (Lbs)	
100146	3" Ріре Сар	0.6	

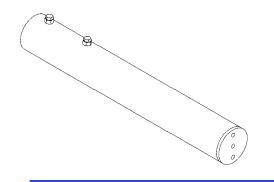
Material Included:	Hot dip galv pipe head and hardw are	Design:	Bolt-on head for pipe columns for 24" extension.
Order Seperately:	n/a	Mounts to:	3-1/2" OD Pipe
	Description		Weight

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

Pipe Caps

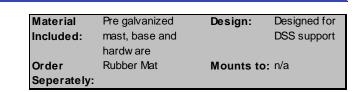


Pipe Head



Roof-Top Applications

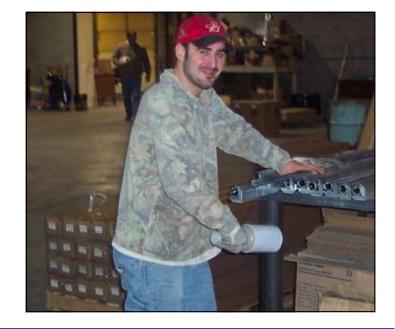
Non-Penetrating Flat Roof Mounts



N E L L O

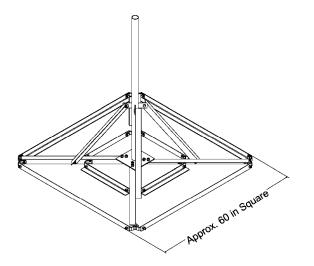
Part #	Description	Weight (Lbs)
103489	FRM Non-Penetrating Roof Mount (1.25" O.D.	31.0
	Tubing, 60" Overall Mast Height)	
103490	FRM Non-Penetrating Roof Mount (1.50" O.D.	29.0
103430	Tubing, 30" Overall Mast Height)	23.0
103491	FRM Non-Penetrating Roof Mount (1.66" O.D.	30.0
103491	Tubing, 30" Overall Mast Height)	30.0
103492	FRM Non-Penetrating Roof Mount (2.375" O.D.	32.0
103492	Tubing, 30" Overall Mast Height)	32.0
103493	FRM Non-Penetrating Roof Mount (2.375" O.D.	37.0
103493	Tubing, 60" Overall Mast Height)	57.0

		Part #	
		103489	FRMN
			Tubing FRM N
		103490	Tubing
		103491	FRMN
		103491	Tubing
		103492	FRMN
			Tubing FRM N
		103493	Tubing
	Approx. 35-114 in Square		



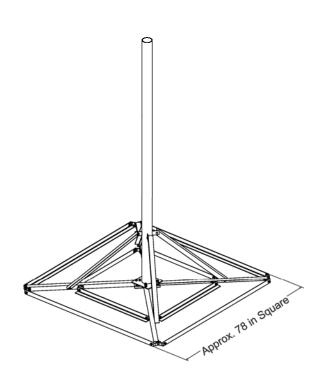


Non-Penetrating Flat Roof Mounts - Heavy Duty

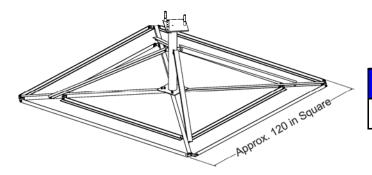


Material	Hot dip	Design:	Designed for
Included:	galvanized mast,		large
	base and		dish/antenna
	hardw are		support
Order	Rubber Mat	Mounts to:	n/a
Seperately:	:		

Part #	Description	Weight (Lbs)					
60" Square Footprint							
103798	JRM Non-Penetrating Roof Mount (2.375 OD	111.0					
100700	Tubing, 5' Overall Mast Height)						
107460	JRM Non-Penetrating Roof Mount (2.875 OD	121.0					
107400	Tubing, 5' Overall Mast Height)						
103799	JRM Non-Penetrating Roof Mount (2.375 OD	129.0					
103733	Tubing, 10' Overall Mast Height)						
103801	JRM Non-Penetrating Roof Mount (2.875 OD	150.0					
103001	Tubing, 10' Overall Mast Height)						
78" Square Footprint							
107146	BRM Non-Penetrating Roof Mount, 2-3/8" OD x	161.0					
107 140	120" Pipe Mount	101.0					
107145	BRM Non-Penetrating Roof Mount, 3-1/2" OD x	200.0					
107 143	120" Pipe Mount						
106913	BRM Non-Penetrating Roof Mount, 4-1/2" OD x	233.0					
100913	120" Pipe Mount	200.0					



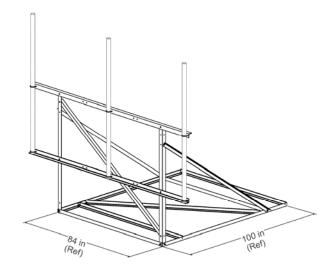
Non-Penetrating Flat Roof Mount for 25N



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



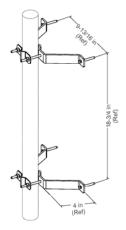
Material	Hot dip galv.	Design:	Single sector
Included:	frame, pipes and	-	roof mount
	hardw are		
Order	Rubber mats and	Mounts to:	n/a
Seperately:	pipe mounts		

Part #	Description	Weight (Lbs)
Non-Pene	etrating 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

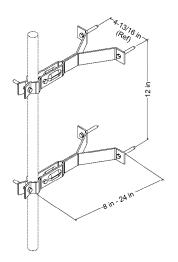
CORPORATION



Wall Mount Brackets



Part # 102643

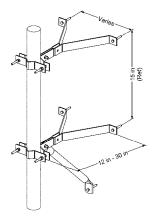


Material	Pre-galv. Clamps	Design:	Knee brace
Included:	and hardw are		included on
	incl. lag bolts		12" and larger
Order	Mast pipes up to	Mounts to:	n/a
Seperately:	1-3/4" OD		

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

64

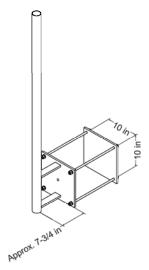
Wall Mount Brackets, Heavy Duty



Material	Pre-galv. Clamps	Design:	Knee brace
Included:	and hardw are		included on
	incl. lag bolts		12" and larger
Order	Mast pipes from	Mounts to:	n/a
Seperately:	2" to 4" OD		

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

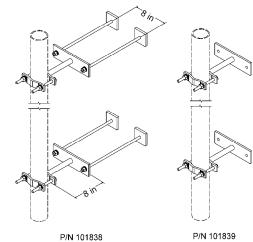


Material	Hot dip	Design:	Welded dual
Included:	galvanized w all		support arm
	mount and		w ith 2-3/8"
	hardw are for		OD mast pipe.
	hollow wall.		
Order	Wall anchors for	Mounts to:	Hollow or
Seperately:	solid w alls		solid w all

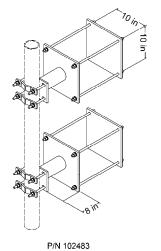
Part #	Description	Weight (Lbs)
101842	Wall Mount Assembly, Hollow Walls (2-3/8"	68.0
101042	OD x 0.154" WT x 63" Long)	00.0
101843	Wall Mount Assembly, Solid Walls (2-3/8" OD x	43.0
101045	0.154" WT x 63" Long)	43.0
101844	Wall Mount Assembly, Hollow Walls (2-3/8"	70.0
101044	OD x 0.154" WT x 72" Long)	70.0
101845	Wall Mount Assembly, Solid Walls (2-3/8" OD x	46.0
101043	0.154" WT x 72" Long)	40.0

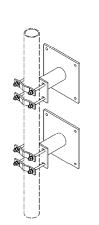
N E L L O

Gable/Eave Mount



Pole Wall Mount





P/N 102848

		L le Caller	D ·	
	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)
404000	Wall Mount	Brackets for Hollow	Walls. 1-1/2	
101838	to 2 1/2" O			22.2

Wall Mount Brackets for Solid Walls. 1-1/2" to

to 3-1/2" OD. Kit of 2.

3-1/2" OD. Kit of 2.

101839

CORPORATION

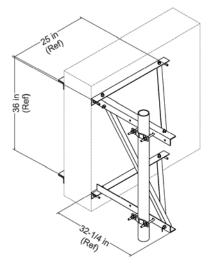
13.1

N

	Material Included:	Tw o hot dip galvanized brackets and hardw are	200.g	Welded dual level brackets. 4 bolt pattern.
	Order Seperately:	Wall anchors for solid w alls	Mounts to:	Hollow or solid w all
Part #		Description		Weight (Lbs)
Part # 102483		Description y Wall Mount Brack 2" to 4-1/2" OD. Kit	ets for Hollow	



Wall Mounts



Material Included:	Hot dip galv angles, clamps and hardw are	Design:	Variable mast pipe location. 2-7/8" to 5" OD
Order Seperately:	Mast pipe and w all attachment hardw are	Mounts to:	02

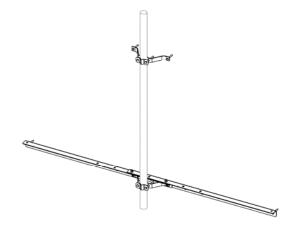
Part #	Description	Weight (Lbs)	
102506	Pole Wall Mount Assembly	83.3	

Double Wall Mount Kits, Wide



	Material Included: Order Seperately:	Pow der coated mast pipe, base plate and hardw are Wall anchor	Design: Mounts to:	Universal design with 1.66" OD mast pipe. n/a
Part #	Description			Weight (Lbs)
102342	Universal Wall Mount, 1.66" OD Mast Pipe			3.0

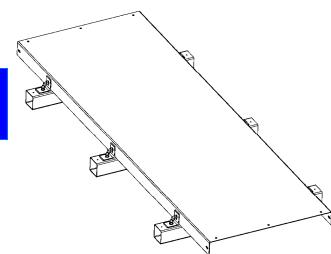
Double Wall Mount Kits, Standard



	Material Included: Order Seperately:	Galvanized steel support braces and connecting hardw are. Wall anchors and 1-1/4" mast tubing.	Design: Mounts to:	Adjustable design with tw o support locations Gable/Eave location
Part #		Description		Weight (Lbs)
102642	Adjustable Gable/Eave Mount (Adjusts 40"- 60")		6.9	

N E L L O

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

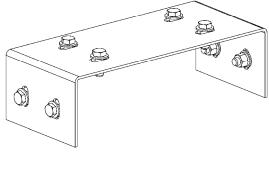
CORPORATION

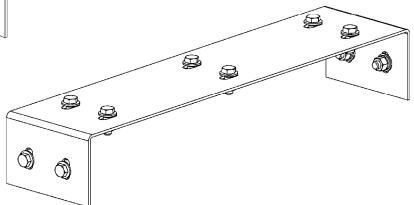
Part #	Description	Weight (Lbs)
100914	4 Line Coax Bridge Kit.	68.0
100477	8 Line Coax Bridge Kit.	103.0
100913	12 Line Coax Bridge Kit.	138.0

Coax Bridge Splice Kits, Straight

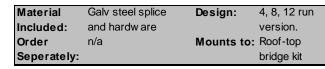
Material	Galv steel	Design:	4, 8, 12 run
Included:	channel and		version.
	hardw are		
Order	n/a	Mounts to:	Roof-top
Seperately:			bridge kit

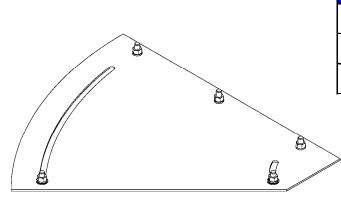
Part #	Description	Weight (Lbs)
101145	4 Line Coax Bridge Splice Kit, Straight.	2.9
100491	8 Line Coax Bridge Splice Kit, Straight.	4.7
100912	12 Line Coax Bridge Splice Kit, Straight.	6.3





Coax Bridge Splice Kits, 0 - 45 degrees



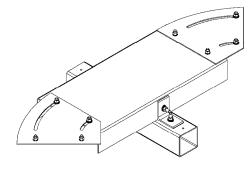


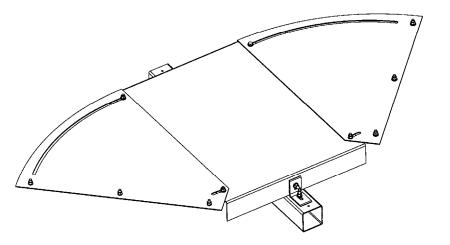
Part #	Description	Weight (Lbs)
100947	4 Line Coax Bridge Splice Kit, 0 - 45 degrees.	3.3
100490	8 Line Coax Bridge Splice Kit, 0 - 45 degrees.	9.0
100948	12 Line Coax Bridge Splice Kit, 0 - 45 degrees.	17.6

Coax Bridge Splice Kits, 0 - 90 degrees

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

T al t #	Description	(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

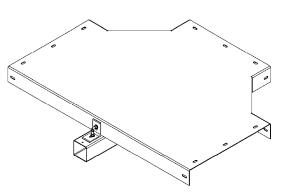




ORPORATION

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Coax Bridge Splice Kits, T-Splice



C

l	Material Included: Order Seperately:	Galv steel channel and splices. Sleeper and hardw are n/a	Design: Mounts to:	ver	3, 12 run rsion. of-top dge kits
Part #		Description			Weight (Lbs)
101167	4 Line Coa	4 Line Coax Bridge Splice Kit, T-Splice.			31.0
101140	8 Line Coax Bridge Splice Kit, T-Splice.			58.1	
101164	12 Line Coa	ax Bridge Splice Kit,	T-Splice.		71.3

N E L L O

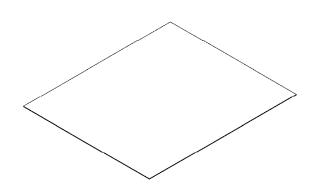
Material	PVC sleeper	Design:	4, 8, 12 run
Included:			version.
Order	n/a	Mounts to:	Roof-top
Seperately:			bridge kits

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 mat	Design:	Helps to
		protect roof
		surface
n/a	Mounts to:	Roof-top
		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

PVC Sleepers





Penetrating Tripod Mounts



lı C	Material ncluded: Order Seperately:	Pre galvanized tube legs, corrosion resistint clamps and hardw are Mast pipe		Various sizes, fully assembled n/a
Part #		Description		Weight (Lbs)
102633	Penetrating	g Tripod Mount, 36"		7.0
102634	Penetrating	g Tripod Mount, 60"		12.0
102637	Penetrating	g Tripod Mount - 120"		27.0
105307	Penetrating 1/4" Tubing	g Tripod Mount - 120" g	, Fits up to 2-	30.0

Heavy Duty Penetrating Tripod Mount



Ir	laterial ncluded: Order eperately:	Pre galvanized tube legs, corrosion resistint clamps and hardw are n/a	J	īully issembled i⁄a
Part #		Description		Weight (Lbs)
102657	Penetrating	n Tri-Mast Mount, 60"		7.0

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Penetrating Trimast Mounts

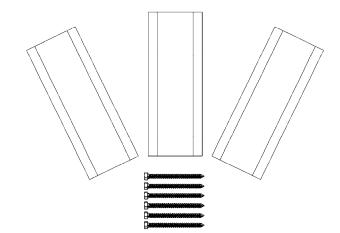


Material	Galvanized steel	Design:	Heavy duty
Included:	support angles, support mast and hardw are.		design for larger antenna applications. 2" mounting pipe.
Order Seperately:	Roof anchors	Mounts to:	n/a

N E L LO

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

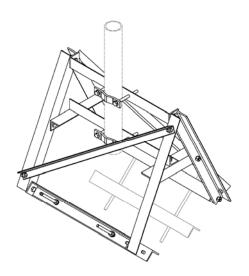
Tri-Sector Mount



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

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 hardw are		roofs to 45
			degrees

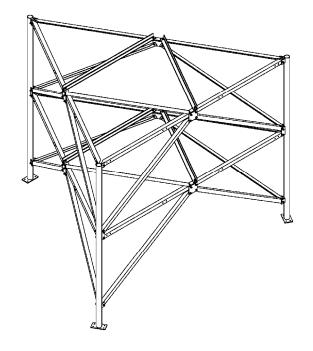
Part #	Description	(Lbs)
102712	Saw -Horse Penetrating Roofmount Assembly	120.9

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Square Chimney Mount

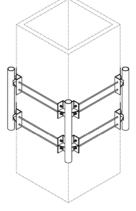
Material	Hot dip frame	Design:	13'-6" wide
Included:	members and		face, 10' and
	hardw are		15' tall.
Order	pipe mounts and	Mounts to:	Roofs or
Seperately:	roof beams		platforms

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





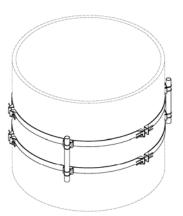
Round Chimney Mount



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

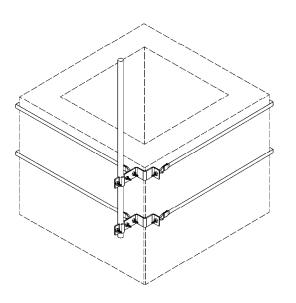
Wal	ll An	chor	



Material	Hot dip	Design:	Three 4-1/2"
Included:	galvanized pipe		OD x 48" 120
	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

Light Duty Chimney Mount

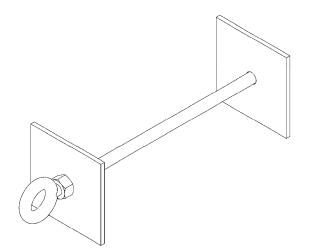


			/perimeter
			circumference
			up a 12'
Seperately:			Chimney sizes
Order	1-1/4" mast tubing	Mounts to:	Various
			supports
	hardw are.		tw o mast
Included:	material and		design with
Material	Pre-galvanized	Design:	Lightw eight

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

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	5.4
103010	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	
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 Nello[™] hanger allows easy installation of the snap-in hanger first, which also provides easy installation of the coax. The Nello[™] hanger is also stackable, reducing the need for additional support brackets.

- 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)
- 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.













Snap-In Hangers



Butterfly Hangers





Hanger Hardware Kits



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

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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-In 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, Hardw are Included (10 pack)	1.3
108319	7/8" Butterfly Hanger, Hardw are Included (10 pack)	1.5
109849	1-1/4" Butterfly Hanger, Hardw are Included (10 pack)	1.1
108320	1-5/8" Butterfly Hanger, Hardw are Included (10 pack)	1.8
109850	2-1/4" Butterfly Hanger, Hardw are Included (10 pack)	1.5

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 Washers (10 Pack)	0.6
100727	3/8" x 3/4" Fillister Head Screws, Lock Washers, and Nuts (10 Pack)	0.6
100728	3/8" x 1" Fillister Head Screw s, Lock Washers, and Nuts (10 Pack)	0.7



Lace-Up Hoisting Grips

Material	Tinned bronze	Design:	Mesh grip
Included:	grip, clip and tape		with single
Order Seperately:	n/a	Mounts to:	eye support 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

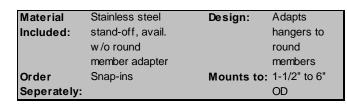
Pre-Laced Hoisting Grips



Material	Tinned bronze	Design:	Mesh grip
Included:	grip, clip and tape		w ith single
			eye support
Order	n/a	Mounts to:	n/a
Seperately:			

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

Stand-Off Adaptors, Universal





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" Hardw are, 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" Hardw are, 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

N E L L O

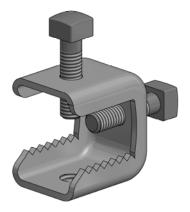




Inc	terial luded: der perately:	Stainless steel adapter, hardw are and insert n/a	Design: Mounts to:	har ang me	mbers to 7/8"
Part #		Description			Weight (Lbs)
104157	Angle Ac	apters, Universal (10) pack)		4.9

N E L L O

Angle Adaptors, 3/8" Tapped Hole



	terial luded:	Stainless steel adapter and hardw are	l	Adapts Hangers to angle members
Or o Se	der perately:	Hangers	Mounts to: l	Up to 7/8" angle
Part #		Descriptio	n	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
101040	coax, double. 10 pack	1.0
101544	Coax Support Blocks for 7/8" corrugated	1.2
101344	coax, double. 10 pack	1.2
101547	Coax Support Blocks for 1-1/4" corrugated	1.4
101547	coax, double. 10 pack	1.4
101549	Coax Support Blocks for 1-5/8" corrugated	1.8
101549	coax, double. 10 pack	1.0

Coax Support Blocks Mounting Hardware



Material	Stainless steel	Design:	Screw used
Included:	hose clamp		for tightening
Order	Hangers	Mounts to:	1-1/2" to 6"
Seperately:			OD

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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	0.5
101000	coax, single. 10 pack	0.0
101556	Coax Support Blocks for 7/8" corrugated	1.0
101000	coax, single. 10 pack	1.0
101557	Coax Support Blocks for 1-1/4" corrugated	1.3
101557	coax, single. 10 pack	1.5
101558	Coax Support Blocks for 1-5/8" corrugated	1.8
101330	coax, single. 10 pack	1.0

Materia Include		Design:	1,2 or 3 runs of coax support
Order Seperat	Coax supports	Mounts to	
Part #	Descrip	tion	Weight (Lbs)
	3/8" Galvanized Hardwar	A Kit for one Co	av

		(Lbs)
104430	3/8" Galvanized Hardw are Kit for one Coax	1.8
104430	Support Block. 10 pack.	1.0
104431	3/8" Galvanized Hardw are Kit for two Coax	2.3
	Support Blocks. 10 pack.	2.5
104432	3/8" Galvanized Hardware Kit for three Coax	2.8
104432	Support Blocks. 10 pack.	2.0



Universal Weatherproofing



Universal Ground Kits



Clip On Ground Kits



Standard Ground Kits



	Material Included: Order	Butyl and vinyl. Five rolls butyl mastic, one roll 2"x20' and tw o rolls of 3/4"x44' tape n/a	Design: Mounts to:	m w	ape kit for ulti-layer rap a
	Seperately:				
Part #		Description			Weight (Lbs)
100347	Universal W	eather Proofing Kit			3.4
	Material Included: Order Seperately:	Copper ground kit, lugs and w eatherproffing kit n/a	Design: Mounts to:	de w ca ca	niversal esign w orks ith most able sizes pax outer pnductor
Part #		Description			Weight

100346	Universal Ground Kit, 5' lead w/ unattached	1.9
100340	1/4" & 3/8" tw o-hole lugs.	1.5

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
Seperatel	y:		conductor
			Weight

Part #	Description	(Lbs)
101626	Clip-on Ground Kit for 7/8" corrugated coax. 5'	1.4
101020	lead with unattached 3/8" tw o-hole lug.	
101628	Clip-on Ground Kit for 1-1/4" corrugated coax.	
101020	5' lead with 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 with unattached 3/8" tw o-hole lug.	1.5
101632	Clip-on Ground Kit for 2-1/4" corrugated coax.	1.5
101032	5' lead with unattached 3/8" two-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
	lead with unattached 3/8" tw o-hole lug.	
108322	Bolt-on Ground Kit for 5/8" corrugated coax. 5'	1.8
100022	lead with unattached 3/8" tw o-hole lug.	1.0
108323	Bolt-on Ground Kit for 7/8" corrugated coax. 5'	1.8
100323	lead with unattached 3/8" tw o-hole lug.	1.0
108324	Bolt-on Ground Kit for 1-5/8" corrugated coax.	1.8
100324	5' lead with unattached 3/8" two-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

4" Boot



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

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



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



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

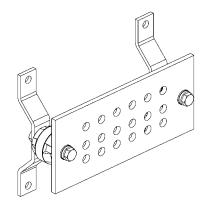


Part #	Description	Weight (Lbs)
101441	Boot Insert, Blank (no holes)	0.4
101447	Boot Insert with 1 Hole for 1/2" corrugated coax	0.4
101448	Boot Insert with 2 Holes for 1/2" corrugated coax	0.4
101449	Boot Insert with 3 Holes for 1/2" corrugated coax	0.4
101450	Boot Insert with 4 Holes for 1/2" corrugated 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

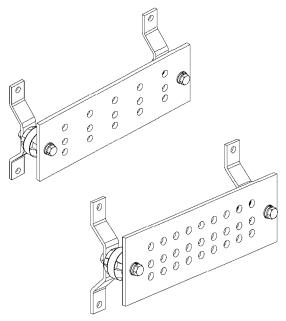
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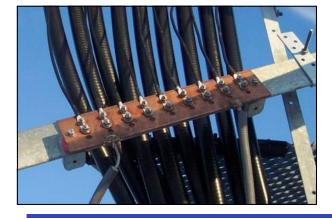


Buss Bar Kits, 1/4" x 4" x 9"



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





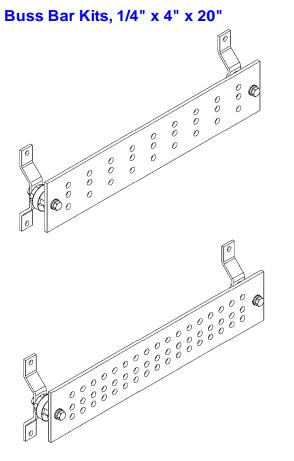
	Description		Weight
Seperately:	hardw are		
Order	Wall attachment	Mounts to:	Walls
	brackets and hardw are		2 hole lugs
Included:	insulators, w all		patter for 1 or
Material	Copper buss bar,	Design:	Universal

Part #	Description	(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	opper	
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: U	niversal

Material	Copper buss bar,	Design:	Universal
Included:	insulators, w all		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

Grounding Solutions



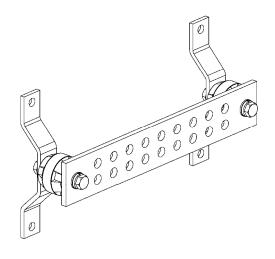
Material	Copper buss bar,	Design:	Universal
Included:	insulators, wall		pattern for 1
	brackets and		or 2 hole lugs.
	hardw are		27 or 51 hole
			design.
Order	Wall attachment	Mounts to:	Walls
Seperately:	hardw are		

CORPORATION

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

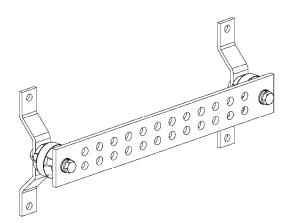


Buss Bar Kits, 1/4" x 2" x 12"



li c	Material ncluded: Order Seperately:	Copper buss bar, insulators, w all brackets and hardw are Wall attachment hardw are	200.9	1" hole spacing. Walls
Part #		Description		Weight (Lbs)
Bare Co	pper			
101639	1/4" x 2" x hole.	12" Copper Buss Ba	ar Kit, 18	2.4
101640	1/4" x 2" x Bar only.	12" Copper Buss Ba	ar, 18 hole.	1.7
Tinned Copper				
101641	1/4" x 2" x 18 hole.	12" Tinned Copper E	Buss Bar Kit,	2.4
101642	1/4" x 2" x hole. Bar o	12" Tinned Copper E only.	Buss Bar, 18	1.7

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



Material	Copper buss bar,	Design:	1" hole
Included:	insulators, wall		spacing.
	brackets and		
	hardw are		
Order	Wall attachment	Mounts to:	Walls
Seperately:	hardw are		

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





Material Insulator, angle Design: Universal Included: adaptor, w all design for mount and shelter and attachment tow er hardw are applications Buss bar Order Mounts to: n/a Seperately: Weight Part # Description (Lbs) Universal Buss Bar Hardw are Kit (2 required 101672 2.1

for each buss bar)

Material

Material

Included:

Insulated Shelter



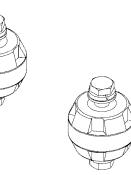


Insulated Tower



Non-Insulated Tower

Buss Bar Insulators



	Included: Order Seperately:	with stainless steel attachment hardw are Buss bar and attachments.	Mounts to: n	/a
Part #		Description		Weight (Lbs)
104418	Buss Bar Ins	sulator Kit, 2 pack As	sembly	0.5

Design:

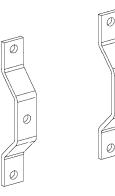
Design:

n/a

n/a

Pair of insulators

Buss Bar Wall Brackets



	Order Seperately:	brackets Buss bar and hardw are.	Mounts to: V	Valls
Part #		Description		Weight (Lbs)
104419	Buss Bar Mo Assembly	ounting Bracket Kit,	2 Pack	0.3

Pair of aluminum

or stainless steel attachment

Grounding Solutions



Ground Clamps / Kits



<u>P/N 101972</u>



<u>P/N 101973</u>



<u>P/N 101974</u>

Grounding Solutions

Grounding Rods



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

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

Gro	und	Wire



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



		ass A Ivanized.	•	eft hand lay. w ire up to
		STM A-475		8" and 19
		ecification		ire above.
	Order n/a	a	Mounts to: n/	a
	Seperately:			
Part #	Descrij	otion	Weight/1,000' (Lbs)	Breaking Strength (Lbs)
102148	3/16" EHS Guy Cable (L	.HL)	72.9	3,990
102474	1/4" EHS Guy Cable (L	HL)	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 (LH	HL)	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

N E L LO



Thimbles

Hot dip	Design:	Heavy duty
galvanized		
thimble		
n/a	Mounts to	n/a
	galvanized thimble	galvanized thimble



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	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

Material Included:	Shackle, thin head bolt, nut and cotter pin	Design:	Forged shackle with bolt-type
			anchor
Order Seperately:	n/a	Mounts to:	n/a

N E L LO



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

Part #

Turnbuckle (Jaw-Jaw)



Material Included: Order Seperately:	Glavanized turnbuckle n/a		(Jaw -Jaw design. 12" to 18" of adjustment n/a
Description		Weight (Lbs)	Pin Dia.	Breaking Load (Llbs)
Jaw Turnbuck	le	2.4	3/8	11,000

N E L L O

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

Turnbuckle (Jaw-Eye)



Material Included:	Galvanized turnbuckle	De	esign:	Jaw -Eye design. 6" - 18" of adjustment
Order Seperately:	n/a	M	ounts to:	n/a
Description		Weight (Lbs)	Pin Dia.	Breaking Load

Part #	Description	Weight (Lbs)	Pin Dia.	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)



	Order n/a Seperately:	Μ		2" of djustment ′a
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

Galvanized

turnbuckle

Material

Included:

N E L LO

Eye-Eye

design. 6" -

Design:

Dead-End Grips

Material	Galvanized	Design:	n/a
Included:	preform	Ū	
Order	n/a	Mounts to:	EHS cable
Seperately:			



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





Material Included: Order Seperately:		Porcelain insulator. Also know as johnny ball n/a	Design: Mounts to:	n/a EHS cable	
Part #		Descriptio	n	Weight (Lbs)	
102153	502 Porcelain Insulator (10,000#)			1.1	
102154	504 Por	celain Insulator (12	,000#)	1.7	
102155	506 Pore	celain 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	Weigh	t Length	Turnbuckle Range		# of	Tensile
r art m	Description	FILCE	(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
	Ĭ		X	Material Included:	Hot dip galvanized anchor, eq plates and hardware.	ualizer	Design:	Single rod design w ith bolt-on equalizer plates
art # 103 [.]		# 102323		Order Seperately:	n/a		Mounts to	5: 11/a
art # 103	179							

Part # 103754

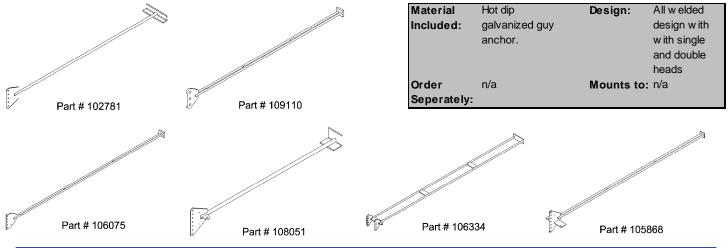
Guy Cable 8 Materials

0

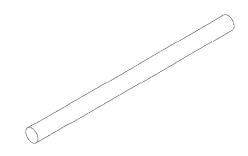
Guy Anchors

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
	Description	(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









- Now all takely instructions provided with structure. Be sure you read and understand all safety information. Favor de sepair Indon las instructiones de seguridad, que se suministran con la estinutura. Favor de asegurar pos las y comprende tota in information de seguridad. Suivez torets ien indications de solocité misitives à cette structure. Liesz avec attention et comprenez tous les managimentents de advond. Alles magnaterients de schortet misitives à cette structure. Liesz avec attention et comprenez tous les managimentents de advond. •

nd verstanden haben It is a manufacture where the attached is a prominent position on the structure to be easily seen by any person attempting to climb hits structure. Attach during installations, and were on the structure for the first entertures. If this structure approach of this sing and all other andly information must be provided to the new sense. If this sing should become deficient is 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

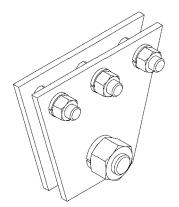
Material	Hot dip	Design:	Single rod
Included:	galvanized guy		design with
	anchor.		with welded-
			on equalizer
			plate
Order	n/a	Mounts to:	n/a
Seperately:			

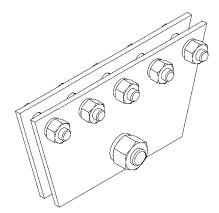
N E L L O

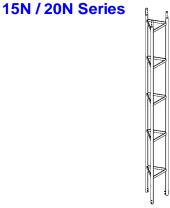
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Part #	Description	Weight (Lbs)
102783	3/4" x 12" Pier Pin	1.5
102754	1/2" X 12" Base Bolt Assembly. Includes hook bolt and tw o nuts (A36)	0.8
102151	Turnbuckle Safety Kit, Single Anchor (3/8" to 7/8" Turnbuckles)	1.3
102465	Anti-Climb Warning Sign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

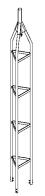
Part #	Description	Weight	Turnbuckle Range		# of	Capacity	
Fait #	Description	(Lbs)	Min.	Max.	Holes	(Kips)	
103766	3-Hole Equalizer Plate Assembly	3.8	3/8"	1/2"	3	8.8	
103767	5-Hole Equalizer Plate Assembly	6.1	3/8"	1/2"	5	8.8	



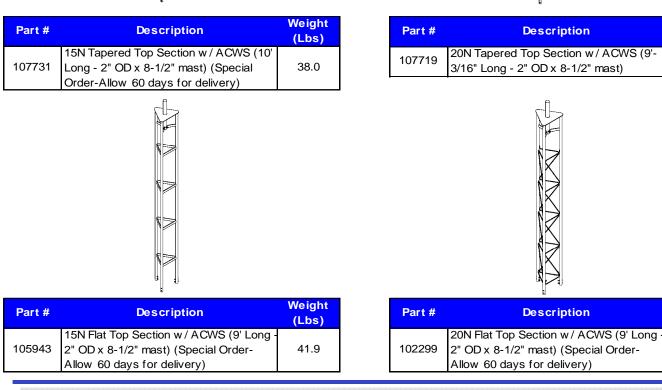




Part #	Description	Weight (Lbs)
105858	15N Section Assembly (10' Long)	37.9



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



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

Weight

(Lbs)

31.0

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 Tow er, 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

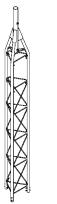
25N Series



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



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



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

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

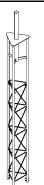


Part #	Description	Weight (Lbs)
107713	25N Tapered Top Section w / ACWS (8'-2 7/8" Long No Mast) (Special Order-Allow 60 days for delivery)	40.0
Part #	Description	Weight (Lbs)
107717	25N Tapered Top Section w / ACWS (9'-9 1/4" Long - 2 1/4" OD x 18" mast)	37.0

25N Series

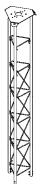


Part #		
108017	25N Tapered Top Section w / ACWS (9'-4 1/4" Long - 1.660" OD x 12" mast w / 1-1/4" N.P.T Threads) (Special Order-Allow 60 days for delivery)	37.0

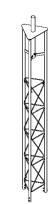


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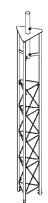
Part #	Description	Weight (Lbs)
102460	25N Flat Top Section w / ACWS(9'-9 15/16" Long - 2-1/4" OD x 18" Mast) (Special Order-Allow 60 days for delivery)	40.2
	Order-Allow 60 days for delivery)	



Part #	Description	Weight (Lbs)	Pa	rt #	
102719	25N Flat Top Section w / ACWS (8'-3 7/8" Long w / Top Plate) (Special Order-Allow	34.0	103	3731	25N F Long
	60 days for delivery)				days



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)	

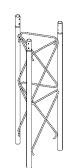


Part #	Description	Weight (Lbs)
102687	25N Flat Top Section w/ ACWS (9'-3 15/16" Long - 2-1/4" OD x 12" mast) (Special Order-Allow 60 days for delivery)	39.3

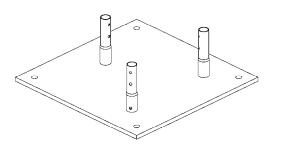


Part #	Description	Weight (Lbs)
103731	25N Flat Top Section w / ACWS (8'-4 7/16" Long No Mast) (Special Order-Allow 60	42.9
	days for delivery)	

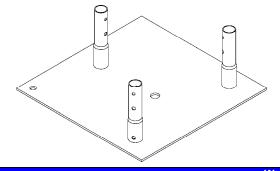
25N Series



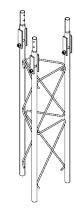
Part #	Description	Weight (Lbs)
102322	25N Base Section w / ACWS (Short 3'-4" Long)	12.2
102457	25N Base Section w / ACWS (Short 5' Long)	18.1



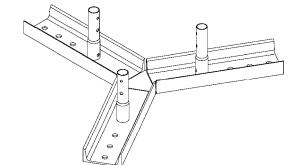
Part # Description		Weight (Lbs)
105026	25N Self Supporting Concrete Base Plate w / ACWS	52.0



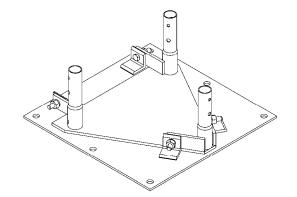
Part #	Description	Weight (Lbs)
102305	25N Concrete Base Plate Assembly w / ACWS	13.0



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



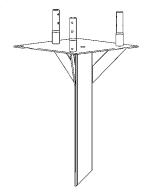
Part #	Description	Weight (Lbs)
102744	25N Flat Roof Mount Assembly w / ACWS	19.3



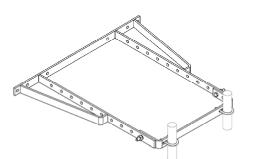
Part	#	Description	Weight (Lbs)
1024	58	25N Hinged Base Plate Assembly w / ACWS	22.0

25N Series

N Series



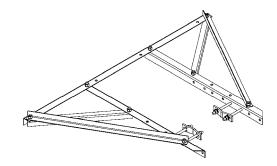
Part #	Description	Weight (Lbs)
102928	25N Single Drive Base Assembly w / ACWS	22.0



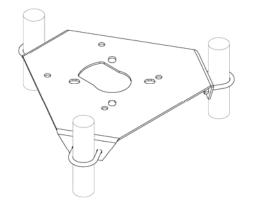
Towers	Part #	Description	Weight (Lbs)
Ê	102302	25N Adjustable House Bracket Assembly (15")	8.1
l	102303	25N Adjustable House Bracket Assembly (24")	10.7
	102304	25N Adjustable House Bracket Assembly (36")	14.5



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

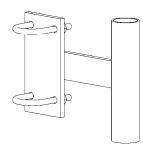


Part #	Description	Weight (Lbs)
102731	Heavy Duty Universal House Bracket Assembly (25N, 45N & 55N)	31.0

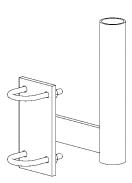


Part #	Description	Weight (Lbs)
102459	25N Accessory Shelf Assembly	3.0

25N Series



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



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



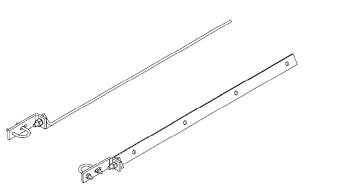
Part #	Description	Weight (Lbs)
102622	25N Anti-Climb Panels (3) w / Hardw are & ACWS	36.3







Part #	Description	Weight (Lbs)	
102631	25N Joint Bolt Kit	0.1	

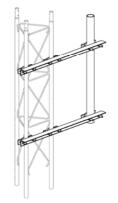


Part #	Description	Weight (Lbs)
102641	25N Universal Eave Bracket Assembly	6.2

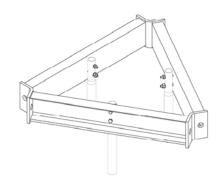
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Part #	Description	Weight (Lbs)
102732	25N Bearing/Accessory Shelf Assembly	14.0

25N Series

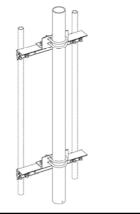


Part #	Description	Weight (Lbs)
102733	25N Antenna Support Assembly - 1-1/2" OD 16 Ga. Tube, 3' Long	23.1
105235	25N Antenna Support Assembly - 2" Sch 40 Pipe, 3' Long	31.1



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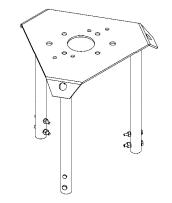
Part #	Description	Weight (Lbs)
103730	25N Channel Torque Arm Assembly	39.4



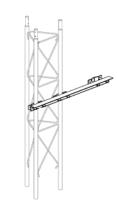
Part #	Description	Weight (Lbs)
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 2-3/8" O.D. x 48" Long Pipe	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 3-1/2" O.D. x 60" Long Pipe	67.0



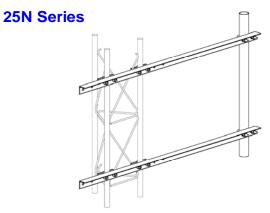
Part	t #	Description	Weight (Lbs)
1032	219	25N Beacon Plate Assembly w / ACWS	12.7



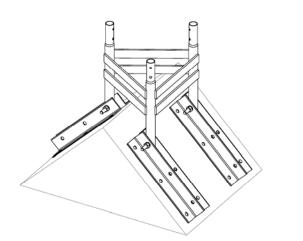
Part #	Description	Weight (Lbs)
104192	25N Bearing Plate Assembly w / ACWS	11.0



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



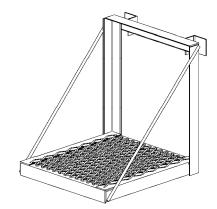
Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7



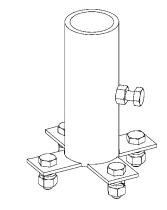
Part #	Description	Weight (Lbs)
106750	25N Peak Roof Mount Assembly	19.0



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



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

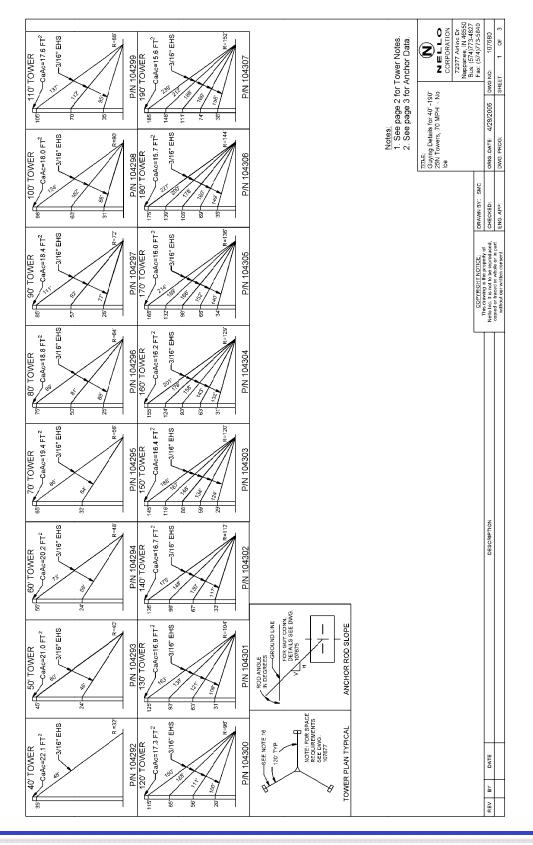


F	Part #	Description	Weight (Lbs)
1	06774	25N Bearing Plate Adapter Assembly	6.0

Series owers

1301 Stanly UF Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com www.nelloinc.com		Shear (Ibs)		700 1,100	1,200	1,200	1,700	1,800	2,000	2,500	2,600	2,700	3,400	3,500	3,600	3,700		70 MPH 25N Guy Catalog Tower - NELLO 70 MPH 72 MPH 72 MPH 72 MPH 72 MPH 72 MPH 72 MPH 73 MPH 73 MPH 74 MPH 74 MPH 75 MPH
1301 Napp 1-800 574-7 sales sales www.	Anchor Reactions	Uplift (Ibs)	Outer Anchor	800 1.000	1,000	1,100	1.400	1,400	1,600	1,900	2,000	2,000	2,500	2,600	2,700	2,800	. antennas can be cal codes.	ORIG DATE TITLE 12/20/2004 25N GL 12/21/2004 70 MPF
Nello Catalog 25N Guy Towers - 70 MPH, No Ice	Anchor R	1001	Inner Anchor														ISI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be as for flat member antennas can be found by dividing by 2. esymmetrically placed about the center of the tower. Insmission line to the top, per tower face for a total of thme. The top competent and qualified personnic necerciton equipment. The d by competent and qualified personnic necerciton equipment. The state, and federal requirements for construction marking and lighting. The No field welds shall be allowed. The ASIM A 123. The formed over the life of the structure in accordance with ANSI/TIA/EIA-222-F. The intersection of anchor rod with the ground. The galvanized per ASTM A 123.	DRAMM RCH CHECKED RCH RCH RCH APPROVED
Lowers - 7	tions	Shear (lhc)		100	100	100	100	001	100	100	100	001	<u>10</u>	100	100	100	ntenna Towers ar nich include drag f g by 2. ar. ar. arichtnee. dance with ANSI/ n marking and ligh n marking and ligh cordance with AN ound.	
og 25N Guy ⁻	Base Reactions	Compression (lhs)		1,600 2,200	2,200	2,400	3,000	3,200	3,400	4,100	4,300	4,500 F 200	5,500	5,700	5,900	6,100	Standards for Steel A SUTIA/EIA-222-F), wr an be found by dividin the center of the town tower face for a total - town face for a total - ton since for a total - blectrical and telephon ments for construction llowed. 23. 23.	
L D Nello Catal	Allowable Projected Area (sq. ft.)			22.1 21.0	20.2	19.4	0.00 2 2	18.0	17.6	17.3	16.9	10.7	16.2	16.0	15.7	15.6	 Tower designs conform to ANS/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." Tower designs conform to ANS/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 found by dividing by 1.2. Areas for flat member antennas can be found by dividing by 1.2. Areas for flat 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 framsinsion line to the top, per tower face for a total of three. Design allows for one 5/8 framsinsion line to the top, per tower face for a total of three. Design allows for one 5/8 framsinsion line top, per tower face for a total of three. Do not install or dismantle towers within falling distance of electrical and telephone lines. Do not install or dismantle towers within falling distance of electrical and telephone lines. Do not install or dismantle towers within falling distance of electrical and telephone lines. Antornal steel is hot-dip galvanized per ASTM A123. Antornal steel is hot-dip galvanized per ASTM A123. Antorna steel guys may be required during erection of anchor rod with the ground. Tower designs are based on level 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. 	
	ć	Number		104292 104293	104294	104295	104296	104297	104299	104300	104301	104302	104304	104305	104306	104307	St. Tower designs conform to AN The areas listed are effective i found by dividing by 1.2. Area Antiennas and mounts shall b Design allows for one 5/8" trai Tower enertion shall be perforn Tower enertion shall be perforn to not install or dismantle tov installation shall conform to lo Field connections shall be perforn to not install or dismantle tov Installation shall conform to lo Field connections shall be be and anties in from the tow Maintenance and inspection s Maintenance and inspection s Anchor radius is from the tow Tower designs are based on lo Temporary steel guys may be	
z	ŀ	Tower Heicht (ft)	hi) yiifi au	50	60	20	8	100	110	120	130	140	160	170	180	190	Notes: 1. Tower- 2. The are found to 6. Tower- 6. Tower- 6. Tower- 6. Tower- 10. Expose 8. Installa 9. Field c 112. Anchor 13. Tower- 14. Tempol	

25N Series



25N Series

N Series Towers

	sstest-mile	IIILE: CUMP Details for 40° - 190' Z5N Towers, 70 MPH - No CoPPORATION T2377 Auton Dr. Napparer IN 4550	IC Fax: (574)773-5840
	a 70 mph f _t odes. ral Joints U		DRAWN BY: SMC
	Supporting Structures," for ass for round by 2. urknown. 2-F and national and local c Grade 5. C "Specification for Structu TIA/EIA-222-F. ction marking and lighting. accordance with ANSI/TIA by erector.		COPYRIGHT NOTICE: This drawing is the property of
<u>Tower Notes</u>	 Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures," for a 70 mph fastest-mile base wind steed with no poincing structures, "for a 70 mph fastest-mile base wind steed with projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for fur tower base, bround by dividing by 1. The area sisted are flective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for no constrained to bround by dividing by 1. The area sisted area from the toh to top per tower face, for a total of three. Design allow for one SST transmission inter to the top the tower face, for a total of three. Design allow for one SST transmission inter to the top tower face, for a total of three. Dower member design does not include streases due to erection marking and conditions as unknown. Dower state, and federal requirements for construction marking and ighting. Instaltion shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes. In thing is taken to local, state, and federal requirements for construction marking and ighting. In thing is taken to be tightnened to a "sung tight" condition as defined in the Nowember 13, 1985, AISC "Specification for Structural Locing SAT AC35. or Ad98 Dats." Structural steel and compretation biola with construction marking and lighting. Exposed structural steel is holding galvarized are rationated and redumenting for construction marking and lighting. Exposed structural steel is holding galvarized per ASTM AC35. Structural steel and complex on the structure in accordance with ANSI/TIA/EIA-222-F. Structural steel and complex steel and complex and telephone in accordance with ANSI/TIA/EIA-222-F. Tower designs are based on the		

25N Series

																										N E L L O	72377 Airline Dr. Nappanee, IN 46550 Bus: (574)773-4827	Fax: (574)773-5840	DWG NO: 107680	SHEET: 3 OF 3
																										TITLE: Guying Details for 40' -190' 25N Towers, 70 MPH - No Ice		[ORIG. DATE: 4/28/2005	DWG. PROG:
עמי	Reactions (lb)	Uplift	750	1000	1030	1110	1370	1430	1510	1590	1860	1960	2040	2370	2450	2560	2650	2760										DRAWN BY: SMC	CHECKED:	ENG. APP:
	Reacti	Shear	069	1120	1200	1250	1700	1780	1870	1960	2470	2570	2680	3220	3360	3480	3610	3750			120° F	220	0	610]			<u> </u>		_
107250		V (in)	17.3	11.4	10.2	11.3	8.2	8.1	8.3	8.4	6.0	6.4	6.4	5.3	5.0	5.3	5.2	5.3				-	_		-			COPYRIGHT NOTICE: This drawing is the property of	tc. It is not to be	or traced in will hout our written
Drawing 107249 and 107250	2	H (in)	51.8	56.5	57.3	56.6	58.6	58.6	58.5	58.5	59.8	59.6	59.6	60.2	60.3	60.2	60.2	60.2	(100° F	280	460	780	-			L	Nello Ir	coprev
Drawing 1	Anchor	Angle (deg)	47.4	41.8	40.6	41.6	38.9	38.8	38.9	39.0	37.0	37.3	37.3	36.4	36.1	36.3	36.3	36.4	Guy Cable Initial Tension (Ib)	berature	_	340	560	950						
or Lata		P/N Ar	103179	102323	102323	102323	102323	102323	102323	02323	03754	103754	103754	103754	103754	103754	103754	103754	ble Initial	Ambient Temperature	60° F	400	670	1120	-					
Inner Ancnor Data	Block	Number		4a 1					4a 1					4a 1	4a 1			4a 1	Guy Ca	Am	40° F	460	270	1300						
נים.	Shear E	(ql)		46	1	69	-	77	84	4	74	78	84	2	73	8	80	84			20° F	520	870	1470						
07517				4	41	9	71	7	ω	6	7	7	œ	7	2	2	8	8			u° F	290	980	1650					NOLL	
Drawing 107517	Compression	(q)	1600	2170	2240	2400	3040	3160	3290	3440	4130	4320	4470	5340	5500	5700	5900	6100	Guy	Cable	Diameter	3/16	1/4	5/16					DESCRIPTION	
Dase Fier	Base	Number	CB1	CB1	CB1	CB1	CB1	CB2	CB2	CB2	CB2	CB2		_]											
Tower	Height		40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'												
																													DATE	
																													REV BY	

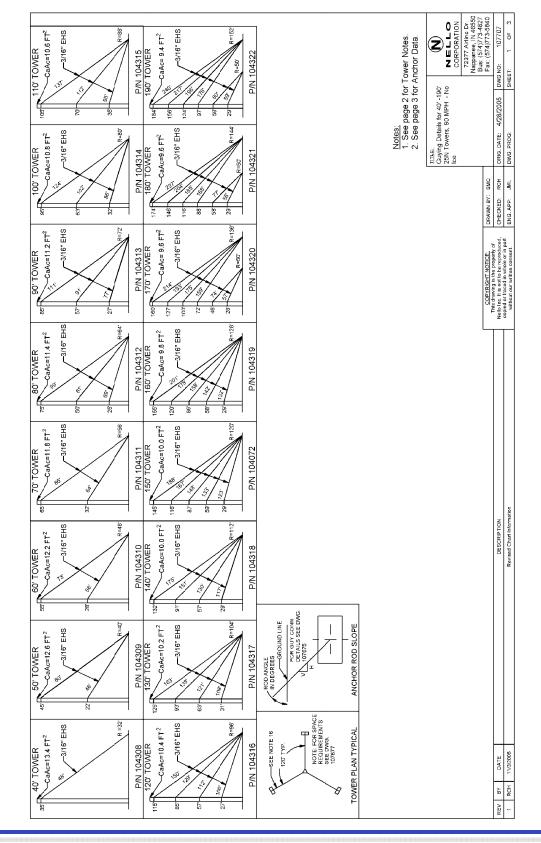
25N Series

Series owers

Ne IIo Corporation 1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com www.nelloinc.com		Shear (lbs)		1300	1400	2100	2300	2400	2600	3200	3600	4300	4500	3500	3900	4100		IIILE 25N Guy Catalog Tower - 80 MPH	
Nello 1301 Napp 1-800 574-7 sales www.	eactions	E	900	1200	1300	1700	1800	1900	2100	2400	2600	3200	3200	2800	3500	3600	antennas can be cal codes.	ORIG DATE ITILE 12/20/2004 25N 12/21/2004 90 M	1/25/2005
No Ice	Anchor Reactions	e .												1100	1200	1300	r round member a round member a rown. rown. rown and loo actor.	DRAWN RCH RCH RCH	
90 МРН,		Uplift (lbs)												800	1000	1100	factors. Areas for factors. Areas for miditions are unkr VTIA/EIA-222-F ar phting. NSI/TIA/EIA-222-F nd installed by er		COPYRIGHT NOTICE:
owers -	ons	Shear (lbs)	200	100	100	00	100	100	100	100	100	00	100	100	100	100	thenna Towers a tich include drag r. f. three. three. tithree. tithree. tithree. tithree. tithree. tithree. tithree. three. tithr		
J 25N Guy T	Base Reactions	Compression (lbs)	1900	2400	2500	3500	3700	3900	4200	4900 5200	5400	6500	6600	7800	0006	9400	"Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." "adc per ANS/TIA/EIA-222-F), which include drag factors. Areas for round member at antennas can be found by dividing by 2. laced about the center of the tower. The top per tower face for a total of three. It is due to erection since erection equipment and conditions are unknown. It all qualified personnel in accordance with ANS/TIA/EIA-222-F and national and loc distance of electrical and telephone fires. Beral requirements for construction marking and lighting. Is shall be allowed. It and the file of the structure in accordance with ANSI/TIA/EIA-222-F. over the life of the structure in accordance with ANSI/TIA/EIA-222-F. Insection of anchor rod with the ground.		
Nello Catalog 25N Guy Towers - 90 MPH, No Ice	Allowable Projected Area (so. ft.)		13.4	12.6	12.2	11.4	11.2	10.8	10.6	10.4	10.2	20	9.8	9.6	9.6	9.4	IIA/EIA.222.F, Ected areas (C or flat members ymmetrically p inssion line to inssion line to inssion line to instate, and fei be performed geavenized p p galvanized p ground.		
		Number	104308	104309	104310	104312	104313	104314	104315	104316	104318	104072	104319	104320	104321	104322	 Tower designs conform to ANSI/1 Tower designs conform to ANSI/1 The areas listed are effective projection of by dividing by 1.2. Areas find the area of the areas and mounts shall be sharans and mounts shall be sharans and mounts shall be performed. Tower member design does not in for an easing the performed for an entitient to a shall be performed by field connections shall be performed by field connections shall be bolted 0. Exposed structural steel is hortain 1. Maintenance and inspection shall 2. Anchor radius is from the tower basil are based on level 4. Temporary steel guys may be required and the structural steel or bolted and a structural steel guys may be reduced and the structural steel guys may be and the structural steel guys may be reduced and the structural steel guys may be and the structural structural steel		
ш 2 2		lower Height (ft)	40	20	60	2 8	06	100	110	120	140	150	160	170	180	190	Notes: Notes: Tower d Tower d A. Design 5. Tower e 5. Tower e 6. Tower e 9. Field co 9. Field co 11. Machanian 13. Tower d 14. Tempor		

N Series Towers

25N Series



Series owers

N Series

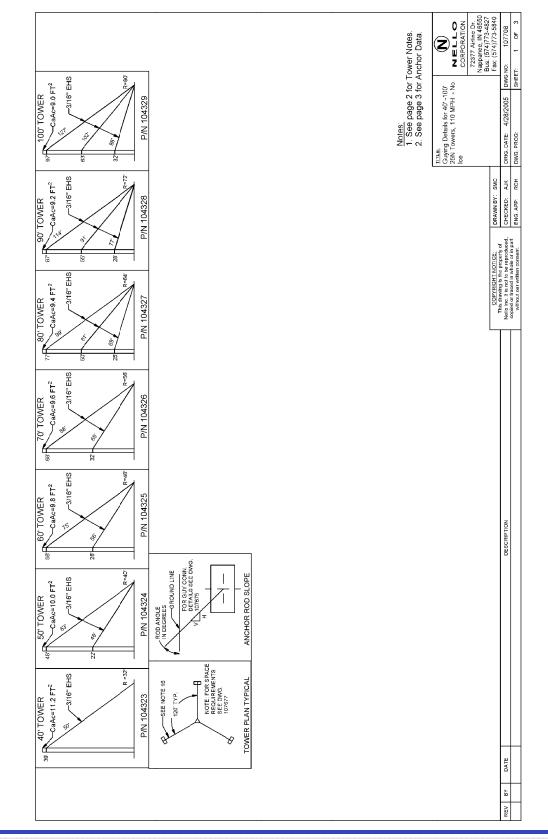
25N Series

25N Series

-		Base Pier Ref. Drawing 107517			Ľ	Ref. Drawing 107249 and 107250	07249 and	d 107250				-	Ref. Drawing 107249 and 107250	awing 107249 and	d 107250		
l ower Height	Door Nive	Compression	Shear	Block		Anchor	-			Reactions (lb)	Block		Anchor	2		Reactions (lb)	(ql) su
		(ql)	(ql)	Number	N/d	Angle (deg)	H (in)	V (in)	Shear	Uplift	Number	P/N	Angle (deg)	H (in)	V (in)	Shear	Uplift
40'	CB1	1870	170	4a	103179	47.3	51.9	17.2	830	006							
50'	CB1	2370	80	4a	102323	40.6	57.3	10.2	1340	1150							
60'	CB1	2540	110	4a	102323	41.2	56.9	10.8	1440	1260							
-02	CB1	2740	120	4a	102323	41.1	57.0	10.7	1560	1360							
80'	CB1	3460	110	4a	102323	38.5	58.8	7.8	2110	1680							
-06	CB1	3680	120	4a	102323	38.5	58.8	7.8	2260	1800							
100'	CB1	3920	140	4a	102323	38.7	58.7	8.0	2410	1930							
110'	CB1	4160	150	4a	102323	38.5	58.8	7.8	2580	2050							
120'	CB2	4930	120	4a	103754	36.9	59.8	6.0	3220	2420							
130'	CB2	5210	130	4a	103754	37.1	59.7	6.2	3410	2580							
140'	CB2	5370	130	4a	103754	35.9	60.5	4.7	3610	2610							
150'	CB2	6500	120	4a	102781	36.2	60.2	5.2	4310	3160							
160'	CB2	6630	120	4a	102781	35.7	60.6	4.5	4530	3250							
170'	CB2	7830	110	4a	102323	35.8	60.5	4.6	1110	800	4a	102781	39.1	58.4	8.5	3490	2840
180'	CB2	9010	100	4a	102323	40.2	57.7	9.7	1220	1030	4a	102781	41.6	56.6	11.3	3910	3470
190'	CB2	9350	6	4a	102323	40.7	57.3	10.2	1280	1100	4a	102781	41.7	56.6	11.3	4080	3630
				Ľ	Guy		Guy (Cable Initi	Guy Cable Initial Tension (lb)	(ql)							
				ഠ്	Cable			mbient Te	Ambient Temperature								
				Dia	Diameter 0	0°F 20°F	40°	F 60° F	° F 80	LL.	100° F 12	120° F					
				Ĺ	3/16 5	590 520	460	400		340 2	280 2	220					
					1/4 0	980 870	770	670	_	560 4	_	360					
					5/16 16	1650 1470	1300		1120 9	950 7	780 6	610					
					-	-	-	-	-	-	-	2					
																-	
														Guying Deta	TITLE: Guying Details for 40' -190' 25N Towers 90 MPH - No		2
														lce			CORPORATION
											OPYRIGHT NO.					Nappan Bus: (5 Fav: (5	72377 Airline Dr. Nappanee, IN 46550 Bus: (574)773-4827 Eav (574)773-5840
REV BY DATE					DESCRIPTION					μ μ	t drawing is the pr					2 · · · · ·	2.2.2.2. de .
										. olle N	nc. It is not to be		CHECKED: RCH	ORIG. DATE:		DWG NO:	107707
1 RCH 11/3/2005	2005			Revis	Revised Chart Information					Nello copie	Nello Inc. It is not to be reproduced, copied or traced in whole or in part without our written consent.			ORIG. DATE: 4/28/2005 DWG. PROG:			107707 3 OF 3

Series owers

25N Series



25N Series

Series owers

	und by	TILE. Current Guyng Details for 40'-100' Corproduction Z5N Towers, 110 MPH - No DCRPRORATION Z6N Towers, 110 MPH - No Corproduction Z7337 Animo Dr. Dapatree, 10.4555 Bac, 173777 Animo Dr. Dapatree, 10.45550 Disc, 25005 Due No. 107708	SHEET: 2
	10 mph fas is can be fo es. A-222-F.	DRAWN BY: SMC CHECKED: AUK	
	Supporting Structures," for a 1 as for round member antenne Inknown. F and national and local cod Srade 5. C "Specification for Structural C "Specification for Structural tion marking and lighting. accordance with ANSI/TIA/EI sy erector.	COPPRIGHTNOTICE: COPPRIGHTNOTICE: The drawing the property of Mello The region for the reproduced. Column : It is not to be reproduced. Colum	
	Tower designs conform to ANS/ITIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 110 mph fastest. The areas listed are effective projected areas (cake per ANS/ITIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by dividing by 12. Areas for flat member antennas can be found by dividing by 2. The areas listed are effective projected areas (cake per ANS/ITIA/EIA-222-F), which include drag factors. Areas for nound member antennas can be found by dividing by 12. Areas for flat member antennas can be found by dividing by 2. Design allows for one 5/8" transmission line to the targe. Tower member design does not include attailed bactor the conter of the targe. Tower member design does not include attailed attain of thite. Tower member design does not include attailed attain of thite. Tower member design does not include attailed attain of the targe. Tower member design does not include attailed attain of the targe. Tower member design does not include attailed attain of the Nowember 13, 1985, AISC "Specification for Structural Joints Using attailing strength buils are to be tightneed to a "sung tight of a configure to a study for the structure in accordance with ANS/ITIA/EIA-222-F. AII high strength buils are to be tightneed to a "sung tight of a configure to a study for the structure in accordance with ANS/ITIA/EIA-222-F. AII high strength buils are to be tightened to a "sung tight of a configure to a study for a construction marking and lighting. AII high strength buils are to be tightened to a "sung tight of a construction in the Nowember 13, 1985, AISC "Specification for Structural Joints USA AII high strength buils are to be tightened to a "sung tight of "construction for Structural for the structure in accordance with ANS/ITIA/EIA-222-F. AII high strength buils are to be tighted during active at the fabrication in accordance with ANS/ITIA/EIA-222-F. AII high strength buils are no be tighted during active a	DESCRIPTION	
Tower Notes	 Tower de mile basis The area Antennas Antennas Dever m Dever m Tower m Insoluting b Field contri Structuris Purchas Tower d Tower d Antenior Tower d Tower d Tower m Tower m Purchas Tower d Tower d Tower d Tower d Tower m Tower d Tower m Tower m Tower d Tower m Tower m Tower d Tower m Tower m<!--</td--><td>REV BY DATE</td><td></td>	REV BY DATE	

25N Series

																Fax
															<u>ти.е.</u> Guying Details for 40°-100' Z3N Towers, 110 MPH - No Ice	
Ref.	Reactions (lb)	Uplift	1230	_	1620	-	2190									DRAWN BY: SMC
	Read	Shear	1020	1680	1860	2060	2730	3200	Г		ш					
107250		V (in)	20.2	10.6	10.7	10.4	8.1 0.1	8.0			120° F	220	360	610		HT NOTICE
7249 and 1		H (in)	49.1	57.1	57.0	57.2	58.7 58.7	58.7			100° F	280	460	780		COPYRIGHT NOTICE This drawing is the property of
Drawing 107249 and 107250	Anchor	Angle (deg)	50.3	41.0	41.1	40.8	38.7 28.5	38.7	nsion (lb)	rature	80° F	340	560	950		
		P/N Ang			102323		102323		Guy Cable Initial Tension (Ib)	Ambient Temperature	60° F	400	670	1120		
Inner Anchor Data	*				┥			┢	Guy Cab	Ambi	40° F	460	770	1300		
	Block	Number	4a	4a	4a	4a	4 a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			20° F	520	870	1470		
7 Ref.	Shear	(ql)	360	110	150	170	160	200			0° F	590	980			
Drawing 107517	Compression	(ql)	2460	2870	3220	3570	4280	4990	Guy	Cable			1/4	5/16 1		
ъ	Base	e L	CB1	CB1	GB	CB1	CB1	CB2	L		_					
	Height		40'	50'	60'	70.	.00	100								
	-															
																-

N Series Towers

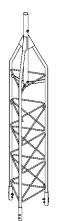
45N Series - Parts List

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 / Hardw are & ACWS	48.0
102377	45N Joint Bolt Kit	0.1
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 Tow er, 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

45N Series

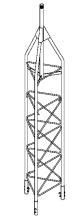


Part #	Description	Weight (Lbs)
102144	45N Section Assembly (10' Long)	69.1



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



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

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

45N Series

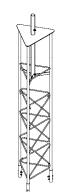


Part #	Description	Weight (Lbs)
107729	45N Tapered Top Section w / ACWS (10'- 3 1/2" Long - 2 3/8" OD x 28" mast)	59.0

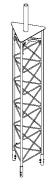


	e	
Part #	Description	Weight (Lbs)
102366	45N Flat Top Section w / ACWS. (Mast tube is 1-1/4" galv. pipe, threaded on top projecting 12" above apex of side rails) (Special Order-Allow 60 days for delivery)	69.0
Part #	Description	Weight (Lbs)
102786	45N Flat Top Section w / ACWS (9' Long - 2-1/4" OD x 12" mast) (Special Order-	67.6

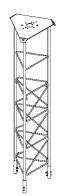
Allow 60 days for delivery)



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

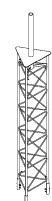


Part #	Description	Weight (Lbs)
102367	45N Flat Top Section w / ACWS (9'-6" Long - 2 3/8" OD x 18" mast) (Special Order-Allow 60 days for delivery)	76.7

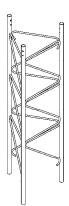


Part #	Description	Weight (Lbs)
102369	45N Flat Top Section w / ACWS (7'-8" Long w / Top Plate) (Special Order-Allow 60 days for delivery)	62.8

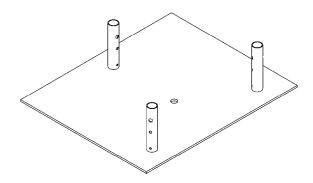
45N Series



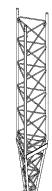
Part #	Description	Weight (Lbs)
	45N Flat Top Section w / ACWS (10'-4"	
105135	Long - 2 3/8" OD x 28" mast) (Special	80.0
	Order-Allow 60 days for delivery)	



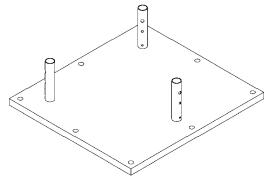
Part #	Description	Weight (Lbs)
102461	45N Base Section w / ACWS (5' Long - Embedment in Concrete)	30.2



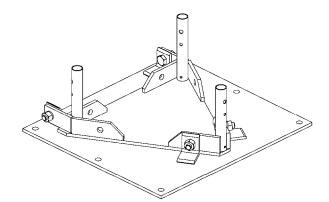
Part #	Description	Weight (Lbs)
102478	45N Concrete Base Plate w / ACWS	35.5



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

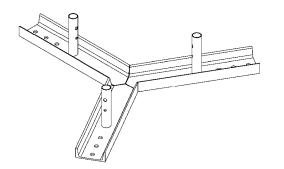


Part #	Description	Weight (Lbs)
106743	45N Self-Supporting Base Plate w / ACWS	151.0

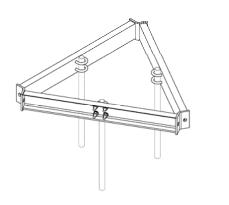


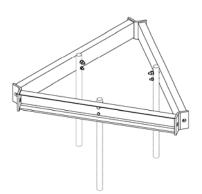
Part #	Description	Weight (Lbs)
102480	45N Hinged Base Plate w / ACWS	90.0

45N Series

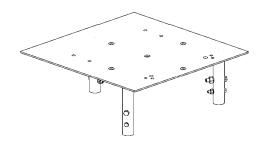


Part #	Description	Weight (Lbs)
102757	45N Flat Roof Mount w / ACWS	24.0

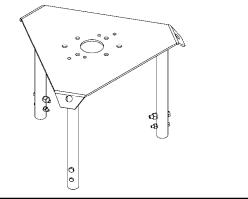




Part #	Description	Weight (Lbs)
102764	45N Channel Torque Arm Assembly	53.5

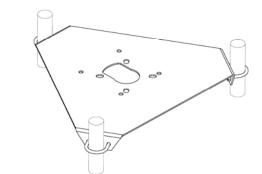


Part #	Description	Weight (Lbs)
103462	45N Channel Torque Arm Assembly (U- Bolt Style)	53.8



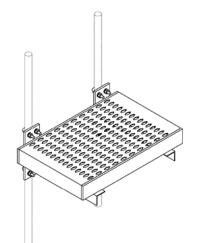
Part #	Description	Weight (Lbs)
104744	45N Bearing Plate w / ACWS Assembly	24.9

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



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

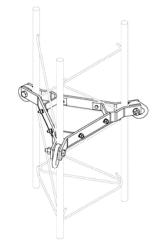
45N Series



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



Part #	Description	Weight (Lbs)
102376	45N Anti-Climb Panels (3) w / Hardw are & ACWS	48.0



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



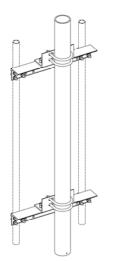


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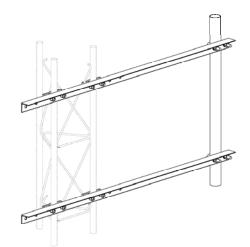


Part #	Description	Weight (Lbs)
102377	45N Joint Bolt Kit	0.1

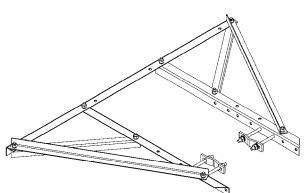
45N Series



Part #	Description	Weight (Lbs)
109739	Face Dish Mount Assembly for 25N, 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)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7



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

N Series Towers

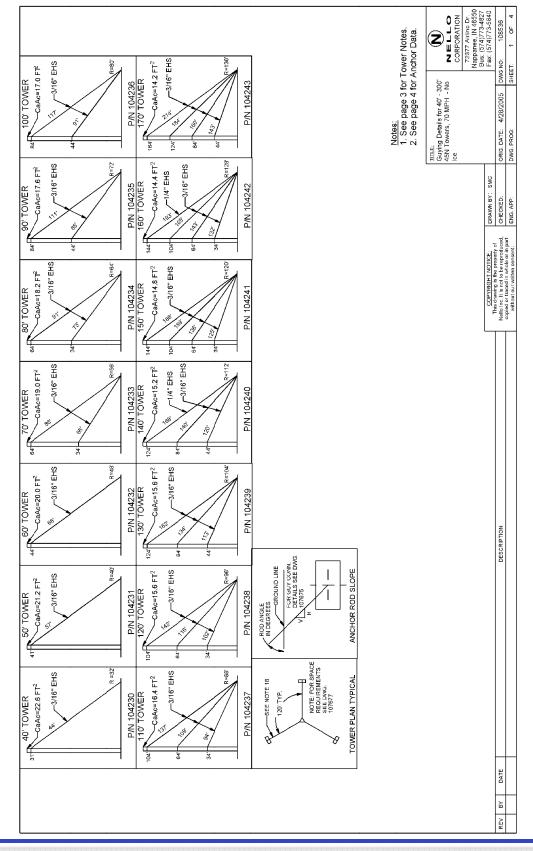
1301 Stahly Dr. - PO Box 376 - Nappanee, IN 46550 - 800-80-NELLO - Fax: 574-773-5840 - sales @nelloinc.com - www.nelloinc.com

N Series

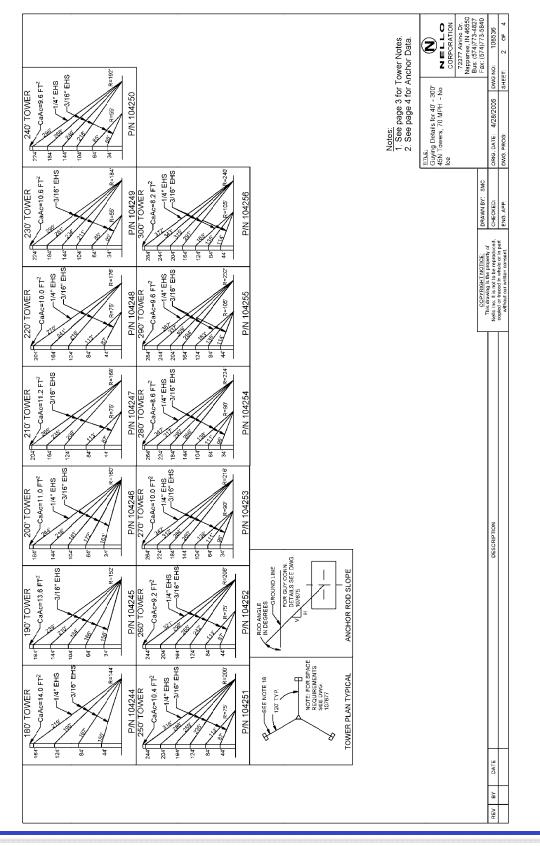
45N Series

																								NELLO CORPORATION 7277 Almun PD: Nappanee, 114 46550 Fax: (674)773-34027 Fax: (674)773-34027
																								Title 45N Gay Catalog Tower - 70 MPH
1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX	www.nelloinc.com		Shear (Ibs) Ichor	1,100	1 300	1,500	1,700	1,700	2,300	2,500	2,600	3,300	3,600	3,600	4,400	4,700	3,100	4,100	4,500	4,500	4,700	4,900	5,000	22-F).
1301 S Nappar 1-800-6 574-77		actions	Uplift (Ibs) She Outer Anchoi	1,000	1 200	1,400	1,500	1,500	1,900	2,000	2,200	2,600	2,800	2,900	3,300	3,500	3,000	3,700	3,900	4,200	4,400	4,500	4,700	al codes, al cod
lce		Anchor Reactions	Shear (Ibs) Ichor													000	1,300	1,100	1,100	1,300	1,900	2,000	2,200	na Supporting Structures." Areas for round member amenna are unknown. 222-F and national and local cod 222-F and national and local cod
0 MPH, No		-	Uplift (Ibs) She Inner Anchoi														1,10	000	1,000	1,100	1,500	1,500	1,700	nd Antenna Suppo factors. Areas for antitions are unkno mitting. SUTIA/EIA-222-F an htting. SUTIA/EIA-222-F and htting. Antition are unkno mitting.
owers - 7		suo	Shear (Ibs)	100	00	100	100	0	100	100	200	100	100	200	100	100	90	<u>8</u> 6	100	100	<u>8</u> 6	100	100	therma Towers al the include drag p by 2. P by 2. P by 2. P by 2. Hubbe potal of si marking and lig marking an
Nello Catalog 45N Guy Towers - 70 MPH, No Ice		Base Reactions	Compression (Ibs)	2,400	2,600	3,200	3,600	3,/00	4,600	4,900	5,200	6,100	6,600	6,700	7,700	8,300	9,200 a 800	a, 300 10, 400	11,000	11,600	13,000	13,100	14,000	standards for Steel Ar In Pack Ar225-5, with the Kurd Ar225-5, with the center of the tave the store of the tave of the structure in accord derical and telephon hents for construction towed at the structure in accord of the structure in accord the structure in accord area for a beact cohor nod with the gro mantling of tower mus
Nello Catalo		Allowable Projected Area (sq. ft.)	Tower Top	22.6	21.2	19.0	18.2	17.0	16.4	15.8	15.6	14.8	14.4	14.2	13.6	11.0	11.2	10.6	9.6	10.4	8.2 10.0	000	9.6 8.2	ex Ever designs conform to ANS/ITIA/ELA-222-F. 'Structural Standards for Steel Anterna Towers and Anterna Supporting Structures.' The ansar for the areas (called areas (called areas (called areas)) Curved by dividing by 1.2. Areas for inflat manenes called avaiding by 2. Anternas and mounts shall be symmetrically placed about the center of the tower. Design allows for one for the control of the tower. Design allows for one of the T2 and call of the top per four effect on equipment and conditions are unknown. Tower member design does not new L72 and call effect on the tower for the tower. Design allows for one call state, and design for the top per four effect on equipment and conditions are unknown. Tower erection shall be performed by completent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes. Tower erection shall be beformed by completent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes. Tower erection shall be beformed by completent and qualified personnel in accordance with ANS/ITIA/EIA-222-F and national and local codes. Field connections shall be beformed by completent and vector in accordance with ANS/ITIA/EIA-222-F and national and local codes. Tower election shall be beformed by completent and telefibrer in accordance with ANS/ITIA/EIA-222-F and national and local codes. Field connections shall be bolted. No field widds shall be allowed. Tower designs. 2007 and over, include 2.0 square feet to projected area for a beacon at top of tower. Montenations its into tower lases to the intersection of anchor not with the ground. Tower designs. 2007 and over, include 2.0 square feet of projected area for a beacon at top of tower. Anton returdus is into the tower lase to the intersection of anchor not with the ground. Tower designs are bread uning erection or dismatring of tower must be supplied and installed by erector. More designs are bread uning erection or dismatring of tower must be supplied and install
		Part	ž	104230	104231	104233	104234	104236	104237	104238	104239 104240	104241	104242	104243	104245	104246	104247 104248	104249	104250	104251	104253	104254	104255	15. Tower designs conform to A Tower designs conform to A The answer listed are are all the answer or 1/2 a Antiternas and mourts shall Design taken and mourts shall Design taken and the ord Design taken are all conform to Field conform to Field conform to Field conform to the answer steel is Tower designs and ose Tower designs and all sis from the to Anchor wards is from the to Anchor wards is from the to Anchor wards is from the to Anchor and as it from the to the and and the and the Temporary steel guys may I Temporary steel guys may I
2	:	Tower	Height (ff)	6	8	02	80	₿ (j	110	120	130	150	160	170	130	500	210	230	240	250	270	280	300	Notes: 1. Tower 2. The ar 6 wind 6 with an 3. Anten 5. Tower 5. Tower 6. Tower 6. Tower 7. Tower 11. Tolera 11. Tolera 11. Tolera 11. Tolera 11. Tower 12. Tower 13. Tower 15. Tower 15. Tower 15. Tower 16. Tower 17. Termpo

45N Series



45N Series



45N Series

NELLO CORPORATION 72377 Aritine Dr. Nappanee, IN 45550 Bus: (574)773-4827 Fax: (574)773-5840 108536 Ь Z DWG NO: <u>ITTLE:</u> Guying Details for 40' - 300' 45N Towers, 70 MPH - No Ice 4/28/2005 ORIG. DATE: **DWG** SMC DRAWN BY: Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 70 mph fastest-mile Areas for round member antennas can be found by CHECKED: 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 assumes, 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. lo / COPYRIGHT NOTICE: A frawing is the property 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. It is not fraced Purchaser shall verify the installation is in conformance with local, state, and federal requirements for construction marking and lighting This draw Nello Inc. It copied or th Design allows for one 1/2" diameter and one 7/8" diameter transmission line to the top, per tower face, for a total of six. 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). All high strength bolts are to be tightened to a "sung tight" condition as defined in the November 13, 1985, AISC "Specification ASTM A325 or A490 Bolts." Structural steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F. arms, symmetrically placed, having a total effective projected area equal to 8.0 square feet Temporary steel guys may be required during erection or dismantling of tower must be supplied and installed by erector I are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for flat member antennas can be found by dividing by 2. Installation shall conform to local, state, and federal requirements for construction marking and lighting. 16 to guy chord lengths for final cut lengths. 16% to guy chord lengths for final cut lengths. terial specifications: Tube Legs – ASTM A513 Grade 50; Solid Rod Bracing – ASTM A36 Do not install or dismantle towers within falling distance of electrical and telephone lines be symmetrically placed about the center of the tower DESCRIPTION Exposed structural steel is hot-dip galvanized per ASTM A123 Field connections shall be bolted. No field welds are allowed. The areas listed are effective projected areas Tower designs are based on level ground. Tower designs include three side basic wind speed with no ice. Antennas and mounts shall Material specifications: Design assumes, dividing by 1.2. DATE **Tower Notes** Anchor Add ß <u>м</u> ~ ∞ σ ⊂ ⊂ с с ́с 2 ന് ഗ REV

45N Series

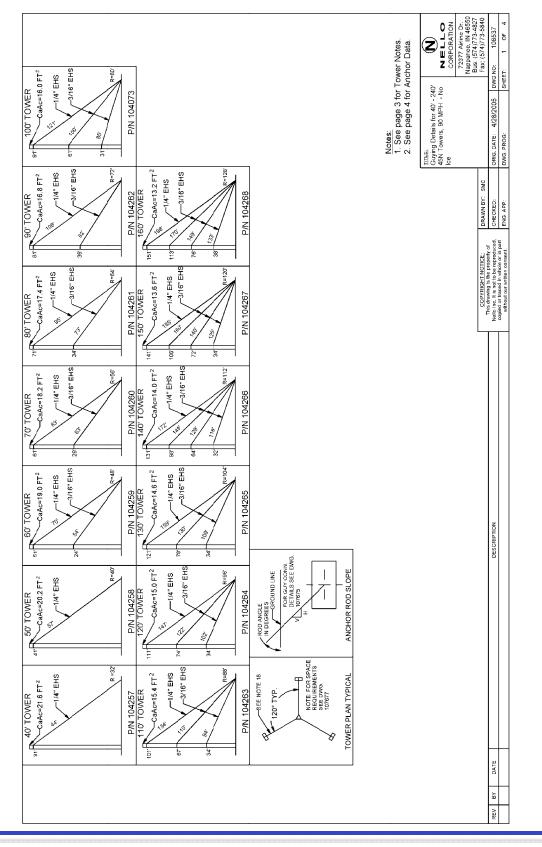
	Reactions (Ib)	Uplift																								4430	4450	4670	4700								Ź		CORPORATION	72377 Airline Dr. Nappanee, IN 46550	Bus: (574)773-4827	Fax. (0/4)//0-004U	95G80L	: 4 OF 4
	Rea	Shear																		3100	3430	4100	4470	4510	4660	4710	4850	4910	5050								- 300	S oz						SHEET:
Data and 107250		V (in)																		14.0	13.6	11.4	11.0	12.5	11.7	13.1	12.3	13.4	12.7								≘ na Details for 40'	45N Towers, 70 MPH - No					ORIG: DATE: 4/28/2005	DWG, PROG;
Outer Anchor Data awing 107249 and	r	H (in)																		54.6	55.0	56.6	56.8	55.7	56.3	55.3	55.9	55.1	55.6								<u>AITLE:</u> Girvin	45N	lce				OKIG	DWG
Outer Anchor Data Ref. Drawing 107249 and 107250	Anchor	Angle (deg)																		44.2	43.7	41.7	41.4	42.8	42.0	43.2	42.5	43.6	42.9															ENG. APP:
		P/N																		102323	102323	102781	102781	102781	102781	102781	102781	102781	102781	[120° F	220	360	_						a property of	oe reproduced, vhole or in part	n opneant
	Block	Number																		4a	4a	4 a	4a	4b	4b	4	4b	4b	4b				ш.		460 36							This drawing is the property of	ello Inc. It is not to opied or traced in v	uptor or more and the state
	(dl) sr	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	1710	1720		on (lb)		-	340		-					L	T		_
	Reactions (lb)	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	2170	2180		Guy Cable Initial Tension (Ib)	Ambient Temperature	60° F	400	670	1120								
a 1 107250		V (in)	14.0	15.4	12.7	12.4	10.5	12.7	11.3	9.1	8.5	9.7	9.2	7.1	6.7	7.8	7.5	5.7	5.5	9.4	9.5	11.2	11.2	9.6	9.4	6.1	6.3	7.5	7.5		Guy Cable	Ambie	40° F	460	170	1300								
Inner Anchor Data Drawing 107249 and 107250		H (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	60.0	60.1	57.9	57.8	56.7	56.7	57.7	57.9	59.8	59.7	59.0	59.0				20° F	520	870	14/0								
Inner Ref. Drawing	Anchor	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	-			0°F	590	980	0001							ON	
H		P/N Ar	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		Guy	Cable	Diameter	3/16	1/4	91./C							DESCRIPTION	
	Block	Number		4a		4a		4a			4a	4a	4a	4a		4a		4a	4a		4a	4a	4a	4a	4a		4a		_															
	Shear			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	120															
Base Pier Ref. Drawing 107517		(q)	2350	2590	2810	3210	3570	3720	4030	4640	4920	5170	5650	6120	6600	6680	7210	7670	8270	9210	9760	10350	10970	11610	11760	12980	13130	13960	14110															
Ref.	Base (CB2	CB2	CB2	CB2	CB3	CB3	CB3	CB3														ų																				
	Height				60'	70'	80'	-06	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'	200'	210'	220'	230'	240'	250'	260'	270'	280'	290'	300'														KEV BY DAIE	

45N Series

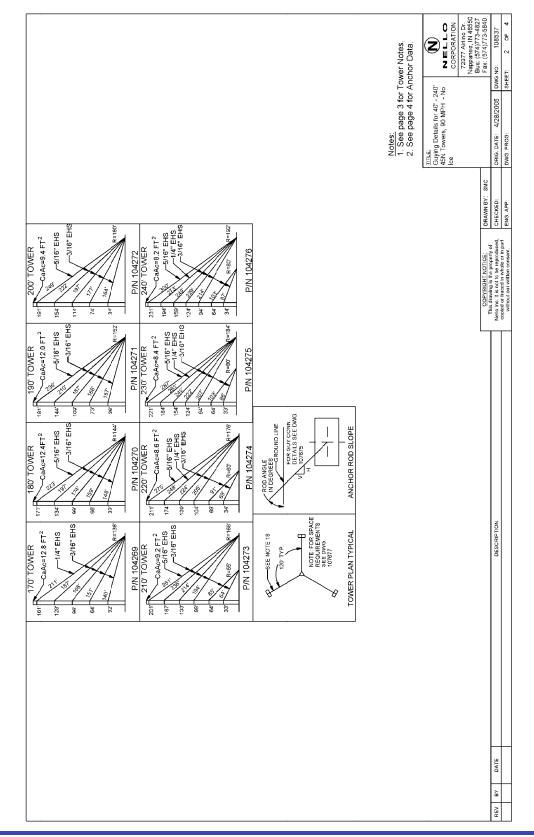
Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com www.nelloinc.com		Shear (Ibs)	nchor	1,800	2 300	2,400	2,600	2,800	3,400	3,800	4,100	4,800 5,000	5,300	6,100	6,700	2,300	6,200	7,800	8,100	be EIA-222-F) . EIA-222-F) . ORIG DATE TITLE 12/21/2004 45N GUY Catalog Tower 12/21/2004 90 MPH	005 PR I NO
Nappe 1-800 574-7 sales(www.r	;	eactions Uplift (Ibs)	Outer Anchor	1,700	1,800	2,200	2,400	2,600	3 100	3,200	3,400	3,900 4,100	4,300	4,700	5,500	5,800	5,700	007 0	7,100	s." rantennas can be ocal codes. ocal codes. ber ANSI/TIA/EIA-222. BAAWN ORIG DATI BAAWN ORIG DATI ICC	DDA 1/25/2005 MEIGHT 1/25/2005
o Ice		Anchor Reactions Shear (Ibs) Uplift	Anchor														1,500	1,600	1,600	porting Structures or round member a nown and national and lo rector. F. quare feet (CaAc – rector.	COPYRIGHT NOTICE: W This drawing is the property of Nello Inc. It is not to be reproduced, copied or traced in whole or in part
30 MPH, N		Uplift (Ibs)	Inner Anchor														1,400	1 000	1,000	and Anterna Supp factors. Areas fit monditors are unk montitors are unk introverses philing ea equal to 8.0 s ar. and installed by e	COPYRIGHT NC This drawing is th Nello Inc. It is not copied or traced
Towers - (tions	Shear (Ibs)	9	36	200	200	200	200	200	500	200	200	200	200	100	100	36	200	Arterna Towers a hich include drag g by 2. et er artotal of s er protection of s calonce with ANS real lines. In marking and lig artice projected at ound. und. ust be supplied a	
g 45N Guy ⁻	1	Base Reactions	Compression (Ibs)	3,500	3,800	4,700	5,100	5,500	6,200 6,600	7,000	7,400	8,200 8,700	9,100	10,000	10,900	12,100	14,500	16,200	16,600	tandards for Steel A inTA/EIA-222-F), who he center of the tow the isolate per tower fac- tine top per tower fac- tine top per tower fac- tine top per tower fac- bers for constructio owed. 33. 34. having a total effe- tode area for a beat orbor rod with the gr tober rod with the gr mantling of tower mi	
Nello Catalog 45N Guy Towers - 90 MPH, No Ice L D		rea (sq. ft.)	do	21.6	20.2	18.2	17.4	16.8	15.0	15.0	14.6	14.0	13.2	12.8	12.4	9.4	9.2	84	8.2	Twer designs contom to ANS/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." Twe areas listed are effective projected areas (CaAc per ANS/TIA/EIA-222-F), "Structural EIA-222-F), "Fit areas listed are effective projected areas (CaAc per ANS/TIA/EIA-222-F) and Anterna Supporting Structures." Tower and mounts shall be symmetrically placed about the control to the tower Design allows for one T/2" and area for late member antennas can be bund by diving by 2. Antennas and mounts shall be symmetrically placed about the control to the tower Design allows for one T/2" and and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Tower erection shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Tower erection shall be pottern to local state, and federal requirements for construction marking and ighting Field connections shall be botted. No field welds shall be allowed. Expose structural steel is not-dip galvarized per ASTM AT33. Toriance on one steel heat it is not 140 and any 3 at tal effective projected area equal to 8.0 square feet (CaAc per ANS/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 ANS/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 ANS/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 ANS/TIA/EIA-222-F). Tower designs in the on the intersection of anchor rod with the ground. Tower designs are based on their intersection of anchor rod with the ground. Tower designs are based on their intersection of anchor rod with the ground. Tower designs are based on their intersection of anchor rod with the ground. Tower designs are based on their	
	-		z	104257	104238	104260	104261	104262	1040/3	104264	104265	104267	104268	104269	104270	104272	104273	104275	104276	es: Tower designs comform Tower designs comform the areas listed are effe the areas listed are effe the areas listed are effe the area and movins shall be tower member for one 1/ Tower member for one of tower area tructural stee Field connections shall be to not install conform Field connections shall be to not install and conform field connections shall be to wer designs include the Tower designs include the Tower designs include the tower designs are bases Temporary steel guys m	
z		Tower	Height (ft)	6 [8 8	202	80	06	9 19 19	120	130	150	160	170	180	200	210	230	240	Notes: 1. Tows: 2. Tows: 5. Tows: 3. Anter 3. Anter 4. Des: 7. Dor 7.	

NELLO INIT

45N Series



45N Series



45N Series

		TILLE: Guying Details for 40° - 240' 46N Towers, 90 MPH - No CORPORATION T2377 Artitue 50 Napares III 4282 Napares III 4282 Pax (574)775-54427 Pax (574)75-54427 Pax (574)75-5447 Pax (574)75-5447 Pax (574)75-547 Pax (5
	and by	DRAMN BY: SMC CHECKED:
	Tower designs conform to ANS/IT/MEIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures," for a 90 mph fastest-mile base with predex with member anternass can be found by violing by 1. The area sited area effective projected areas (c.a.k. per ANS/IT/MEIA-222-F), which include drag factors. Areas for round member anternass can be found by violing by 1. Anternas and mounts shall be symmetrically placed about the center of the towner. Tower designs: Tooldeet and mounts shall be symmetrically placed about the center of the tower. Tower designs: 2001eet and over :// dameter and one //? dameter anternas. The //? dameter and one	DESCRIPTION DESCRIPTION DESCRIPTION
Tower Notes	 Tower designs conform to ANSI/TIA/EIA-222-F, "Strubasic wind speed with no ice. Dasic wind speed with no ice. The areas listed are effectual speed areas (CaAct dividing by 12. Areas for flat member antennas can dividing by 12. Areas for flat member antennas can allow redesigns include three side arms, symmetrically placed 5. Tower designs, 200 feet and over, include 2.0 square 7. Tower member design does not include 2.0 square 4. Tower rection shall be performed by competent and 9. Do not installation shall be performed by competent and 9. Do not installation shall bolts of the flat with falling distant in this structural steel and larger shall be blied. Wo field welds are 11. Field connections shall be blied. Wo field welds are 12. Structural bolts 5/8" and larger shall bolted to a surg ASTM A325 or A490 Bolts." High strength bolts are to be tightened to a "surg ASTM A325 or A490 Bolts." Structural steel and connection bolts shall be bried. No Test and federal for the interast and an an antination is in conforman to AST 17. Design assumes, as an infimum, maintenance and in Exposed structural steel is hot-dip galvanized per AS 17. Design assumes, as an infimum, maintenance and in the tower designs are based on level ground. Tower designs are based on level ground. 	REV BY DATE

45N Series

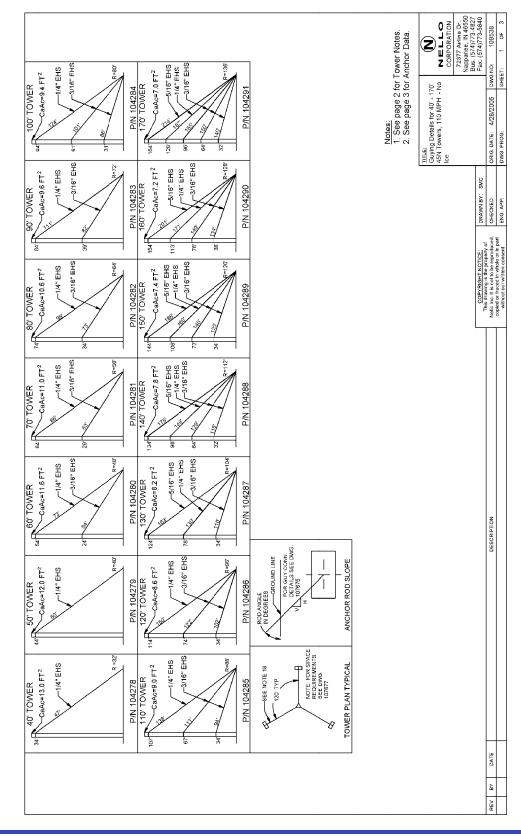
	(ql) :	Uplift													Т		T	Т	ļ	5/40	0190	0/0	N7L/										CORPORATION	72377 Airline Dr. Vappanee, IN 465	Bus: (574)773-4827 Fax: (574)773-5840	Lanon -
	Reactions (lb)	Shear L							_			_			+	-			-+-	+	+		2 NN 2								-	- 240' - No		~	<u> </u>	
7250	R	(in)		_								_			+	-		+	-+-	-	+	_	Ω Π.Γ.Π.									Guying Details for 40' - 240' 45N Towers, 90 MPH - No	-			
or Data 19 and 10		H (in) V														-				-	50.00		_								<u>mre:</u>	Guying De 45N Towe	ce			
Outer Anchor Data Ref. Drawing 107249 and 107250	Anchor	Angle (deg)																	1	42.7	44.0	41.0	<u>,</u>												DRAWN BY: SMC	
Ref.		P/N																	101001	102/81	1.8/201	10/201	10/701	Γ		120° F	220	360	610						rice:	operty of
	Block	Number																		4	4 7 7		40			100° F		460	780						COPYRIGHT NOTICE:	drawing is the pr
	(dl) sr	Uplift	1690	1840	2070	2230	2390	2560	2880	3060	3230	3400	3850	4060	4270	4740	5290	5550	5/60	1360	1420	220	360	(H) u	e (ei)	ц	┢	560	950							Ĩ
	7249 and 107250	Shear	1750	1800	2270	2400	2570	2750	3350	3560	3820	4090	4770	5040	5290	6100	6710	7030	7350	1550	1000	040	ANGI.	Guy Cabla Initial Tansion /lb)	Ambient Temperature	60° F	┝	670								
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or Data 249 and		H (in) H		-	_	_				57.3	57.6	58.0	58.6	58.6	58.5	59.3	59.0	59.0		-	57.0	07.0	1.20	U MIC	Ar	40° F	460	2770	1300							
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517	Shear	(ql)	30	130	100	150	190	220	180	210	190	170	180	190	210	180	170	170	150	140	021	<u></u>	ρq													
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Ř	Base	Number	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB3	CB3	320	LB3													
Tower	Height		40'	50'	60'	-02	80'	-06	100'	110'	120'	130'	140'	150'	160'	170	180'	190'	200	.012	.077	007	Z4U													
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N Series Towers

45N Series

Anchor Reactions ar (lbs) Uplift (lb) ar (lbs) Uplift (lb) ar (lbs) 100 2,800 2,800 3,300 3,300 2,700 5,000 3,700 5,000 3,700 5,000 3,700 5,000 3,700 5,000 3,700 5,000 100 7,000 7,000 6,000 6,000 7,000 100 7,000 100 7,000 100 7,000 100 7,000 100 6,000 100 7,000 100 7,000 100 7,000 100 7,000 100 1,221004 100 1,221004 11/22/2005 11/22/2005 11/22/2005 11/22/2005		2	Nello Catal	og 45N Guy T	owers - 1	Nello Catalog 45N Guy Towers - 110 MPH, No Ice	Nell 130 ⁻ 130 ⁻ 1-80 574.	Nello Corporation 1301 Stahly Dr. Nappanee, IN 46550 1-800-80-NELLO 574.772-5840 FAY
Owner Fart Atternative Projected Area (eq. fr.) Data Reactions gift (f) Number Tower Top Compression (lpa) Shoer (lpa) Up iff (lby) Streat (lpa) Up if (lb) Streat (lb) Up iff (lb) Streat (lb) Up iff (lb) Streat (lb) Up if (lb) Streat (lb) Strea (lb) Streat (lb) Strea (lb) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>sale www</th> <th>s@nelloinc.com /nelloinc.com</th>							sale www	s@nelloinc.com /nelloinc.com
Other Tower Top Compression (tbs) Shear (tbs) Uplit (tb) Three Archion Oplit (tb) Top Top <th>Tower</th> <th>t e o</th> <th>Allowable Projected Area (sq. ft.)</th> <th>Base Read</th> <th>tions</th> <th>Anchor R</th> <th>leactions</th> <th></th>	Tower	t e o	Allowable Projected Area (sq. ft.)	Base Read	tions	Anchor R	leactions	
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61 10273 120 4.600 4.00 2.00	40	104278	13.0	4,100	300		2,000	1,900
0 10230 116 5.300 200 </td <td>50</td> <td>104279</td> <td>12.0</td> <td>4,600</td> <td>400</td> <td></td> <td>2,300</td> <td>2,000</td>	50	104279	12.0	4,600	400		2,300	2,000
0 110 500 200 200 200 200 00 10288 94 7.00 3.00	60	104280	11.6	5,300	200		2,600	2,800
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100 104284 9.4 7,100 200 200 4.000 130 104285 8.6 9.400 300 4.000 5.000 130 104285 8.5 9.400 300 4.000 5.000 130 104287 7.4 11,300 300 4.000 5.000 150 104281 7.2 11,300 300 5.000 5.000 150 104291 7.2 11,300 300 5.000 5.000 150 104291 7.2 11,300 300 5.000 5.000 150 104291 7.2 11,300 300 5.000 5.000 150 104291 7.2 14,000 300 5.00 5.000 150 104291 7.2 14,000 300 5.00 5.00 160 10430741 106 14.000 200 200 5.00 160 10430741 12 14 1000	06	104283	9.6	6,900	300		3,300	3,700
10 100 200 400 500 130 10428 7 3 0 000 500 000 5000 <t< td=""><td>100</td><td>104284</td><td>4.00</td><td>8 400</td><td>300</td><td></td><td>3,700</td><td>4,400</td></t<>	100	104284	4.00	8 400	300		3,700	4,400
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toil 7.2 12,700 300 6,500 170 104290 7.0 14,000 200 6,500 ess Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." 6,500 Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." 6,500 Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." 6,500 Anternas and mounts shall be symmetrically placed about the center of the tower Action and Conditions are unknown. 6,500 Anternas and mounts shall be benchmed by competent and qualified persone in accordance with ANSI/TIA/EIA-222-F and national and local codes. 6,500 Do not install or of 7/8' transmission line to the top per tower face for a total of six. 7,000 6,500 Field connections shall be performed by competent and qualified percention structure and dualified percention and top of tower. 7,000 6,500 Tower restell in the benchmed by competent and qualified percention and talephone lines. 10,000 200 6,500 Installation shall be performed over restel in the device structural and telephone lines. 10,000 200 2000 Exposed structur	150	104289	7.4	12,000	200		6.000	7,400
170 104291 7.0 14,000 200 7,000 rest The areas listed are effective projected areas (Cash per ANS/TTA/EIA-222-F), which include drag factors. Areas for round member antennas can found shall be symmetrically placed about the center of the town. 7,000 Tower designs conform to ANS/TTA/EIA-222-F, "Structural Standards for Steel Antenna Supporting Structures." 7,000 The areas listed are effective projected areas (Cash per ANS/TTA/EIA-222-F), which include drag factors. Areas for round member antennas can function stresses cute to the tow per tower face for a total of six. 7,000 Tower designs allows for one 1/2" and one 7/8" transmission line to the top per tower face for a total of six. 7,000 Tower member design allows for one 1/2" and one 7/8" transmission line to the top per tower face for a total of six. 7,000 Tower erection shall be symmetrically placed about the complex on the NS/TTA/EIA-222-F. 7,000 Tower erection shall be bolted. No fold and factor on the tower switch alling distance of electrical and telephone lines. Do not install or dismantle towers witch alling distance of electrical and telephone lines. 7,000 Tower erection shall be polition. No diad about the complex of a tower lace for a total of six. Tower erection shall be polition. No diad about the complex of a tower lace for a total of six. Tower erections shall be bolt	160	104290	22	12 700	300		6 300	7 800
Alternation of NSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." Tower designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Anterna Towers and Anterna Supporting Structures." The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member anternas can found as and mounts shall be symmetrically placed about the conter of the top per tower face for a total of six. Design allows for one 1/2" and one 7/8" Tamemically placed about the conter of the top per tower face for a total of six. Design allows for one 1/2" and one 7/8" thin adding the top per tower face for a total of six. Design allows for one 1/2" and one 7/8" thin adding the top per tower face for a total of six. Down member design does not include stresses due to erection since erection equipment and conditions are unknown. Tower erection shall be performed to a qualified personnel in accordance with ANSI/TIA/EIA-222-F and national and local codes. Do not install or dismance of the file of the structure in accordance with ANSI/TIA/EIA-222-F. Maintenance and inspection shall be performed over the file 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, 200 and over, include 2.0 square feet of projected area for a beacon at the file of the structure in accordance with ANSI/TIA/EIA-222-F. Tower designs, 200 and over, include 2.0 square feet o	170	104291	2.0	14,000	200		7,000	8,900
DRAWN ORIG DATE RCH 122/1204 RCH 122/1204 REE 122/1204 REE 122/1204 REE 122/1204 MFG 122/1204 MFG 122/1204 WE GHT 122/1204 VE GHT 122/1204		as listed a so dividing l allows for allows for rember de erection shall c attion	the effective projected areas (CaAo per A vy 1.2. Areas for flat member antennas unts shall be symmetrically placed abou note 1/2" and one 7/6" transmission line sign does not include stresses due to er all be performed by competent and quali ismantle towers within falling distance of nonform to local, state, and federal requir shall be bolted. No field welds shall be a steel is hot-dip galvarized per ASTM is steel height is plus 1% or minus 3%. In spection shall be performed over the lif lude three side arms, symmetrically plat of and over, include 2.0 square feet of pr om the tower base to the intersection of based on level ground.	NSI/TIA/EIA-222-F), will can be found by dividir can be found by dividir to the top per tower far rection since erection 4 fifed personnel in accor ements for constructio allowed. V123. V123. e of the structure in ac ced, having a total effet ojected area for a beac f anchor rod with the gr dismantling of tower mu	hich include dra; g by 2. ee. for a total of s equipment and c rdance with ANS ne lines. In marking and li or marking and li crive projected a con at top of tow ound.	g factors. Areas for round member . conditions are unknown. SI/TIA/EIA-222-F and national and lo ighting. NSI/TIA/EIA-222-F. Ansimation and inatialied by erector.	antennas can be cal codes. per ANSVTA/EIA	(-222-F).
MES APPROVED DDA WEGHT 1/25/2005						DRAWN RCH CHECKED RCH		Guy Catalog Tow MPH
						MFG APPROVED DDA WEIGHT NOTICE: WEIGHT	1/25/2005	on owd

45N Series



N Series Towers

45N Series

a 110 mph innas can be codes. vEIA-222-F. VEIA-222-F. VEIA-222-F. vEIA-222-F. vEIA-222-F. ore overs, 110 MPH -1. tool Detents for 40' - 17 col Det			L	723/7 Artine Dr. Nappanee, IN 46550 Bus: (574)73-4827 Fax: (574)773-5840 DWG NO: 108538
acr Atols Target - release conform to ANSI'IA/ELA-22-F. "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 110 mph Target - release month on los. Target - release inside wind speed with no los. Target - release inside wind speed with no los. Target - release inside wind speed with no los. Target - release inside wind speed with no los. Total of a diffective of release (active and mark control by dividing by 2. Total and set of release and one 7/6" diameter transmission provided three was target and one 7/6" diameter transmission provided three was target and one 7/6" diameter transmission provided three states and not 7/6" diameter transmission provided three states and release the notation stall conform to the tower. Tower creation relation stall be performed by compared are to the tower. Tower creation relation stall conform to a structural bub structural bub structural bub structural bub. Tower creation stall be performed by compared are to the tower. Tower creation stall be performed by compared and tower and the tower. Tower creation stall be performed by compared and the tower. Tower creation stall be performed by compared and the tower. Tower creation stall be performed by compared and the tower. State state state state stand tower. <t< td=""><td></td><td></td><td><u>ттье:</u> Guying Details for 40° - 170° 45N Towers, 110 МРН - No Ice</td><td></td></t<>			<u>ттье:</u> Guying Details for 40° - 170° 45N Towers, 110 МРН - No Ice	
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		upporting Structures," for a set or a conternation of a set of a set of a six. If of six and national and local conternation. F and national and local contents of the secondance with ANSI/TIA/E accordance with		COPYRIGHT NOTICE: This drawing is the property of Nello Inc. II is and to repreduced, conject or the and
	lotes	ower designs conform to ANSI/TIA/EIA-222-F. "Structural Standards for Steel Antenna Towers and Antenna Stees- mistes-mile basic wind speed with no ico. The areas listed are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Are und a yrividing by 1.2. Areas projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Are und any and mounts hall be symmetrically placed about the center of the town. Artennas and mounts hall be symmetrically placed about the center of the town. Artennas and mounts hall be symmetrically placed about the center of the town. Were designs include three side arms, symmetrically placed about ower design disons 200 feet and over, include 2.0 suppleted are about ower designs about the towners within falling distance of features prosted area desond flactor on ower design allows for one 1/2 diameter and tablified personnel in accordance with ANSI/TIA/EIA-222. All high strength bolts are to be tightened to a "sung tight" condition as defined in the November 13, 1985, AIS installation shall be bolted. No fied weids are allowed. Turctural steel and connection bits shall be holt-dipped galvanized after fabrication in accordance with ANSI/ Turctural steel and connection bits shall be holt-dipped galvanized after fabrication in accordance with ANSI/ structural steel and connection bits shall be holt-dipped galvanized after fabrication in accordance with ANSI/ structural steel and connection bits shall be holt-dipped galvanized after fabrication in accordance with ANSI/ structural steel and connection bits shall be holt-dipped galvanized after fabrication as a fabreas		DATE

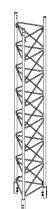
45N Series

																								Details for 40' - 170'	45N Towers, 110 MPH - No NELLO	72377 Airline Dr. Nappares IN 4650	Eax: (574)77	AND ALSO AND ALSO AND ALSO ALSO ALSO ALSO ALSO ALSO ALSO ALSO
	(ql)	Uplift	2040	2260	2570	2820	3080	3310	3710	4000	4580	5010	56/0	6320	7010									<u>TITLE:</u> Gliving	45N T		C SMC	
	Reactions (lb)	_	-		2810				4380	_	_	-	2400	+		Г	1	-1-	–			1					DRAWN BY:	
07250		_	_		_	-	12.1	11.8		_		-	8.5	+	$\left \cdot \right $			120° F	220		610	-					IT NOTICE:	the property of
Inner Anchor Data awing 107249 and 1		_	-		56.0	-			57.6	57.6	57.7	57.9	58.4	58.5	59.0			100° F	280								COPYRIGHT NOTICE:	This drawing is
Inner Anchor Data Ref. Drawing 107249 and 107250	Anchor	(De	_		42.4		42.3		_		_	_	39.1	+	$\left \right $	(h)		alure 80° F	340	560	950							
Ref.												_	+	_		Guy Cable Initial Tension (lb)	of Tomoor		400	670	1120							
		_		103179	102323		102323						102781	┢		Guy Cabl	Ambient Temperature	40° F	460	770	1300							
	Block	Number	4a	4a	4a	4a	4a	4a	4a	4a	4b	4 ⁴	44	404	44			20° F	520	870	1470							
517	Shear	(qi)	280	420	170	230	260	300	250	270	230	260	240	270	230			0° F 3	+		1650 1	-						
Base Pier Ref. Drawing 107517	Compression	(ql)	4140	4610	5270	5790	6360	6870	7700	8350	9380	10150	11330	12740	13980	2	, and		╞		5/16 16	-						
Re		Number	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB2	CB3	CB3	L		<u> </u>	Ś									
Tower	Height		40	50'	60'	70	80'	90'	100'	110'	120'	130'	140'	160'	170'													
1										1		1		1	J													

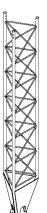
55N Series - Parts List

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 Tow er, 2-3/8" O.D. x 48" Long Pipe (Angle)	172.00	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 3-1/2" O.D. x 60" Long Pipe (Angle)	268.00	67.0

55N Series

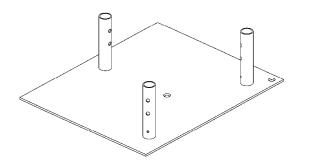


Part #	Description	Weight (Lbs)
103134	55N Section Assembly (10' Long)	92.6





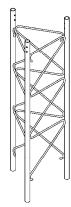
Part #	Description	Weight (Lbs)
103136	55N Tapered Base Section w / ACWS (10' - For use w ith Pier Pins and Insulators)	137.0
103130	For use with Pier Pins and Insulators)	137.0



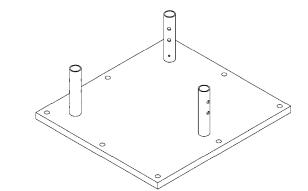
Part #	Description	Weight (Lbs)
102462	55N Concrete Base Plate w / ACWS	37.0



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



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

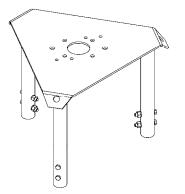


Part #	Description	Weight (Lbs)
106744	55N Self-Supporting Base Plate w / ACWS	152.0

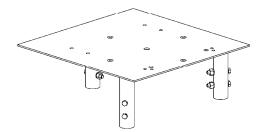
55N Series



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



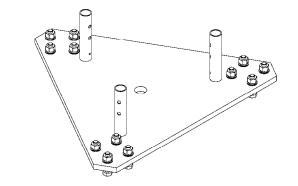




Part #	Description	Weight (Lbs)
103135	55N Joint Bolt Kit	0.2

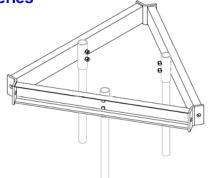


Part #	Description	Weight (Lbs)
103779	55N Anti-Climb Panels (3) w / Hardw are & ACWS	48.0

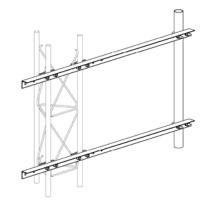


Part #	Description	Weight (Lbs)
105818	65N to 55N Transition Assembly	110.0

55N Series

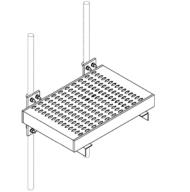


Part #	Description	Weight (Lbs)
104141	55N Torque Arm Stabilizer Assembly	54.1

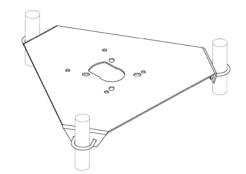


N Series Towers

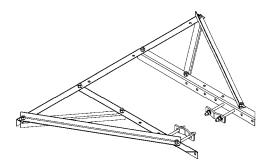
Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7



Part #	Description	Weight (Lbs)
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



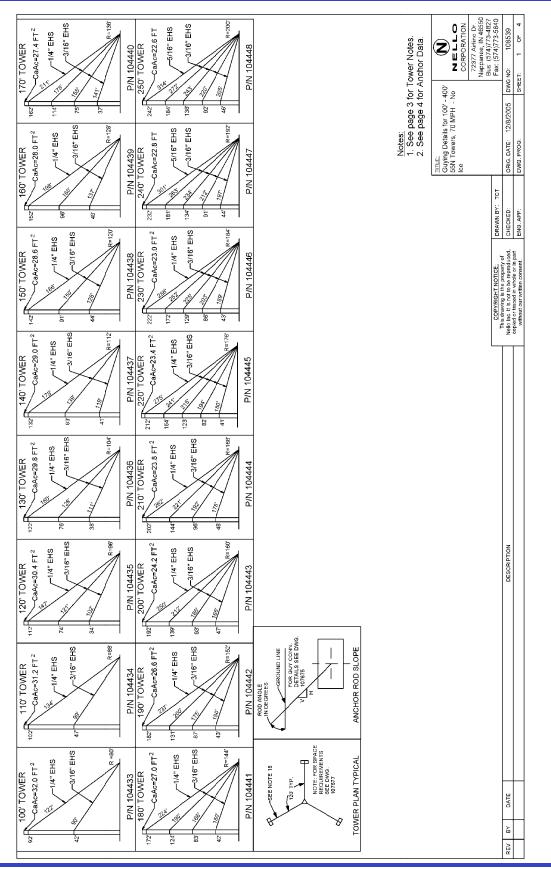
Part #	Description	Weight (Lbs)
109739	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 2-3/8" O.D. x 48" Long Pipe	43.0
109738	Face Dish Mount Assembly for 25N, 45N, & 55N Tow er, 3-1/2" O.D. x 60" Long Pipe	67.0

N Series Towers

55N Series

ou activity IN 46550 ELLO ciefic .com	Γ	Shear (Ibs)	2,400	2,500	3,000	3300	3,500	3,600	4,200	4,400	4,800	5,000	5,700	0,500	6.600	5,600	5,800	6,000	6,100	6,200	6,400	6,500 7 E00	8,100	8,300	8,500	8,900	9,100	22-P.). tet of pojected tet of pojecte
1301 Starty Dr. Nappanee, IN 46550 1-800-80-NELLO 574-773-5840 FAX sales@nelloinc.com www.nelloinc.com		(Ibs)	2,200	2,400	2 700	2 900	3,000	3,100	3,500	3,500	3,900	4,000	4,400	4,000 5 100	5.200	5,200	5,300	5,500 F 700	3,700	5,900	6,100	6,200 6 000	7,300	7,500	7 000	8.100	8,200	nnas can be codes. ANSI/TIA/EIA-222-P) - te 2.0 square faet of p REAVIN REG RECKI
e	Anchor Reactions	ar (Ibs)														1,400	1,400	1,400	2,300	2,300	2,300	2,500	2,200	2,300	2,300 2.400	2,500	2,500	poporting Structures." s for round member antermes can be known and relional and local codes. 22.F. 22.F. 905 350 and over, include 2.0 square as 350 and over, include 2.0 square relector.
0 MPH, No		Uplift (Ibs) She Inner Anchor														1,300	1,300	1,300	1,400	1,900	1,900	2,000	1,800	1,900	2,000	2.000	1,900	d Anterna Support actors. Areas for r actors. Areas for r invEA-222-F and armo SyTAVEIA-222-F. a qual to 8.0 squa a qual to 9.0
Towers - 7	ions	Shear (Ibs)	100	200	36	86	200	200	100	200	200	200	500	002	50	100	100	88	36	90	100	66	38	100	86	36	100	ritema Towers an ich include drag & g by Z. g upment and cor g upment and cor d six. In marking and ligh in the projected are on at top of tower and.
Nello Catalog 55N Guy Towers - 70 MPH, No Ice	Base Reactions	Compression (Ibs)	5,300	5.600	6600	6900	7,200	7,600	8,200	8,600	9,400	008'6	10,600	11 800	12.200	14,200	14,600	15,100	16,800	17,500	17,900	18,500	20,300	20,900	21,600 21 ann	22.400	22,500	landards for Steel A Landards for Steel A In Die Bucker 222-23, ward in Die Bucher Bucker weer Beer on and langer and and langer and and langer and and langer and and langer and an and langer and an and langer and an an an and another an an and another an an an an and an an an an an and an an an an and an an an an an and an an an an an and an an an an and an an an an and an a
Nello Catalo	owable Projected Area (sq. ft.)	_	32.00	31.20	07 B0	20.00	28:00	28.00	27.40	26.00	24.20	23.80	33.40 33.40	20.02 00.02	288	22.20	22.00	21.80 24 3 6	21.40	21.00	20,80	20.60	20.20	20:00	19.80	19.40	19.20	Towar releages conform to ANS/TALEA-222-F. "Shuctural Standards for Steal Anterna Towars and Anterna Supporting Structures." Twear releages conform to ANS/TALEA-222-F. "Shuctural Standards for Steal Anterna Supporting Structures." Twear releages conform to ANS/TALEA-222-F, "Shuctural Standards for y diving by 1.2. Twear releages to the symmetrically paced about by diving by 1.2. Twear releage are effective projected areas (CaAc per twoer face for a total of six. Towar member design does not include stresses due to erection some events for the XITA-EA-222-F and mainteer anternas can be built of the XITA-FEA-222-F and mainteer anternas can be built of the tower face for a total of six. Towar member design does not include stresses due to erection some events with ANS/TALEA-222-F and mainteer and boral odes in the XITA-FEA-222-F. Towar member design does not include stresses due to erection some in accountations are unknown. Towar member design does not include stresses due to erection some with ANS/TALEA-222-F and mainteer and boral odes. Towar member design does not include stresses due to erection marking and lighting field correctors shall be befored. We field domet and quality and lighting field correctors shall be befored. Exposed structural see! Is tot-dip galvanized per ASTM A123. Endeance on the field corrected are for a breacont in accordance with ANS/TAVEA-222-F. Maintenance and inspection shall be performed over the file of the structure in accordance with ANS/TAVEA-222-F. Maintenance and inspection shall be performed over the file of the structure in accordance with ANS/TAVEA-222-F. Towar designs schould with the ground. Towar estable maintee in the structure in accordance with ANS/TAVEA-222-F. Toward estagers are the and level borance of an file of the structure in accordance with ANS/TAVEA-222-F. Toward estagers are taken and such a structure in accordance with ANS/TAVEA-222-F. Toward estagers are taken and such a structure in accordance with ANS/TAVEA-222-F. Toward estagers is from the toward to th
	AIL		104433	104434	104436	104437	104438	104439	104440	104441	104443	104444	104445	104447	104448	104449	104450	104451	104453	104454	104455	104456 104457	104458	104459	104460 104461	104462	104463	Town designs contain 1 A Town designs contain 1 A thur answer sitely are effecting that manages instead are effecting that an anomality of the area Antennas and mounts shall be pair towner member design does towner member design does towner mether and an armande in heal domon shall contain to the alloid connor shall be and the armande and the armande in heal domon shall contain to the alloid share and the sector town designs muclue three area for a mid level beacon. Annor daugins in mut beact and area for a mid level beacon. Annor daugins are based on temporary steel guys may t Remporary steel guys may t Remporary steel guys may t remporary steel guys may t
ш 2	,	Height (ft)	100	110	13	89	150	160	170	191	200	210	550	002	220	260	270	380	300	310	320	330	350	360	370	6	400	Note: 1. There is a power in the power of t

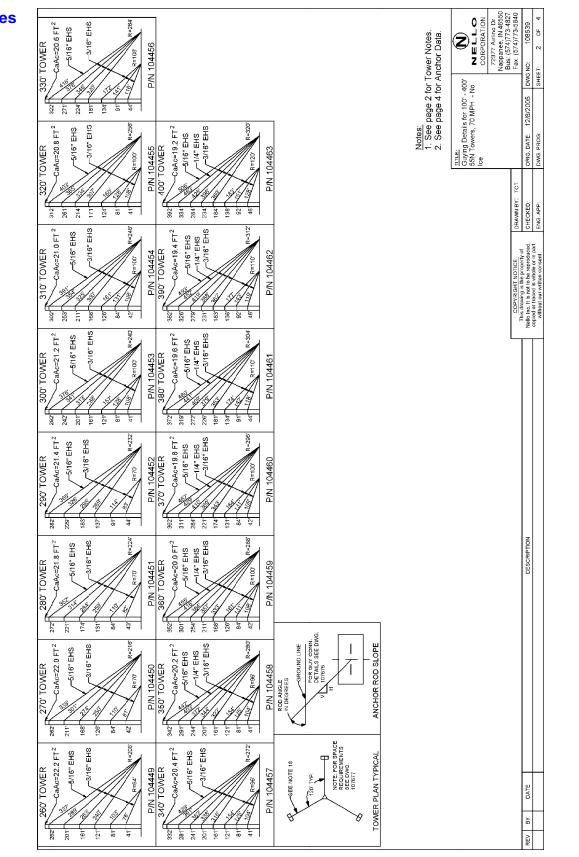
55N Series



N Series Towers

N Series Towers





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

N Series Towers

5 N Series		IIILE. Curre. Guying Details for 100° - 400 N E L O Guying Details for 100° - 400 N E L O SSN Towers, 70 MPH - No CORPORATION Ice CORPORATION Ice 23377 Atimo Er Name Proces Pass (574)773-8827 ORIO. DATE: 12/8/2005 Dow No: 108539 Dwws. PROG: SHEET: 3 0 F
	ound by Dg	DRAMM BY: TOT CHECKED: ENG APP:
	g Structures," for a 70 mph fas nd member antennas can be f feet. or beacon). itional and local codes. ation for Structural Joints Usi cation for Structural Joints Usi ing and lighting. cation for Structural Joints Cosi cation for Structural Jo	COPYRIGHT MOTICE: 1 COPYRIGHT MOTICE: 1 This attending the property of the attending the reproduced of without our written content.
	er Ates To wer designs conform to ANS/ITA/ELA-222-F. 'Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.' for a 70 mph fastest-mile basic wind speed with moles. To were designs conform to ANS/ITA/ELA-222-F), which include drag factors. Areas for round member antennas can be found by dividing by 12. Areas for flat member antennas can be found by dividing by 2. Tower designs involved three side arms. symmetrically placed about the center of the tower. To more respinal provide three side arms. symmetrically placed about the center of the tower. To were designs involved three side arms. symmetrically placed about the center of the tower. To were designs involved three side arms. symmetrically placed about the center of the tower. To were designs: 2000 feet and over, include 2.0 square feet of real towing town in the side arms. symmetrically placed about the center of the tower. Tower designs: 2000 feet and over, include 2.0 square feet of feet two prime and include three side arms. symmetrically placed are after a bascon (detuct one 7/8' line for bascon). Tower designs: 2000 feet and over, include 2.0 square feet in equinorial and conditions are unknown. Tower rection shall be policifical and based are all holds on the conditions are unknown. Tower rection shall be policifical and based are allow in accordance with ANSI/TI/AEA-222.F and national and local codes. All high strength obtas are allow of any allow are allowed and allowed are allowed are allowed and allowed are allowed and the calculation in accordance with ANSI/TI/AEA-222.F and accordance with to allowed and allowed are allowed and and antical and local codes are allowed and advince allowed are allowed and allowed and a darked on the file of the structure in accordance with ANSI/TI/AEA-222.F. All high strength obtas are to be tighted to a 'S'' allowed and and connection state and connection state and base and allowed are allowed and and connection state and connection state and base and band structural state and federal requ	DATE DESCRIPTION
	Tower Notes 1. Tower de basic win cover de fight cover merching cover were cover de fight co	REV

NELLO CORPORATION

55N Series

		ls (lb)	Uplift																	5170	5330	5500	5650	5750	5910	6080	6220	6890	7340	7530	7790	7900	8070	8240	(Z		CORPORATION	72377 Airline Dr.	Nappanee, IN 46550 Bus: (574)773-4827	ax: (574)773-5840	É	4 OF 4
		Reactions (lb)	Shear																	5580	5750	5950	6110	6030	6190	6420	6530	7550	8090	8270	8520	8660	8880	9120		r 100' - 400'	APH - No		L		╞	12/8/2005 DWG NO:	SHEET:
ita	d 107250		V (in)										-							12.6	12.6	12.5	12.5	13.5	13.5	13.3	13.4	12.1	11.9	12.1	12.2	36.4	36.2	35.9	L	<u>Buring Datails fo</u>	55N Towers, 70 MPH - No						DWG. PROG:
Outer Anchor Data	Ref. Drawing 107249 and 107250	hor	H (in)																	55.7	55.7	55.7	55.7	55.0	55.0	55.2	55.0	56.0	56.1	56.1	56.0	82.6	82.8	83.0	L	= @	2.2	<u> </u>			: тст		
Out	Ref. Drawi	Anchor	Angle (deg)																	42.8	42.8	42.7	42.8	43.6	43.7	43.4	43.6	42.4	42.2	42.3	42.4	42.4	42.3	42.1						- t			ENG. APP:
			P/N																	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	106862	106862	106862	Γ		120° F	220	360	610	COPYRIGHT NOTICE: This drawing is the property of	not to be reproduce	r written consent.
		Block	Number																	4b	40	4 C	4 C	4c	4 C	4c	4c	4d	4 d	4e	4e	4 e	4e	4e			100° F	280	460	/80	COPYR This drawin	Nello Inc. It is a copied or trace	without ou
		ons (lb)	Uplift	2240	2360	2620	2740	2860	2990	3120	3450	3620	3750	3900	4030	4430	4590	5080	5220	1250	1260	1290	1410	1800	1930	1910	2030	1840	1820	1910	1960	1980	2040	1910	Cension (lb)	berature	80° F	340	560	096			
		Reactions	Shear	2380	2510	3010	3170	3320	3480	3640	4250	4420	4610	4790	4980	5660	5860	6380	0659	1360	1420	1430	1490	2260	2320	2320	2470	2220	2200	2290	2300	2440	2470	2500	Guv Cable Initial Tension (Ib)	Ambient Temperature	F 60°F	0 400		0 1120			
ita	nd 107250		V (in)	13.1	13.0	10.7	10.4	10.3	10.2	10.2	8.4	8.7	8.5	8.5	8.3	7.3	7.3	7.8	1.7	12.3	11.3	11.8	13.2	7.8	9.2	8.9	8.8	9.1	9.0	9.3	10.0	8.4	9.0	6.5	Guv		20° F 40° F	520 460		14/0 1300			
Inner Anchor Data	Ref. Drawing 107249 and 107250	or	H (in)	55.3	55.3	57.0	57.2	57.3	57.3	57.4	58.4	58.3	58.4	58.4	58.5	59.1	59.1	58.8	58.9	55.9	56.6	56.3	55.2	58.8	58.0	58.2	58.2	58.0	58.1	57.9	57.5	58.4	58.1	59.5			0°F 2(590 6		-			
uul	Ref. Drawi	Anchor	Angle (deg)	43.3	43.2	41.0	40.8	40.7	40.7	40.6	39.1	39.3	39.1	39.2	39.0	38.0	38.1	38.5	38.4	42.6	41.6	42.1	43.4	38.5	39.8	39.5	39.4	39.7	39.6	39.8	40.4	39.1	39.6	37.4	GUV	Cable	Diameter	3/16	1/4	5/16		DESCRIPTION	
			P/N	102323	102323	102323	102323	102323	102323	102323	102781	102781	102781	102781	102781	102781	102781	102781	102781	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	102323	L							DESCR	
		Block	Number	4a	4Þ	4b	4Þ	4Þ	4a	48	4a	48	4a	4a	4a	4a	48	4a	4a	48	4a	4a	4a																				
	17	Shear	(ql)	130	160	130	140	150	160	170	150	160	160	170	170	160	160	150	150	110	110	120	110	110	110	110	110	110	110	110	110	110	110	110									
Base Pier	Ref. Drawing 107517	Compression	(ql)	5240	5580	6240	6560	6870	7220	7570	8210	8590	8940	9430	0626	10590	10960	11790	12170	14170	14600	15110	15780	16760	17460	17860	18460	19280	20270	20860	21550	21870	22390	22550									
	Re	Base	Number	CB2	CB3	CB3	CB3	CB3	CB3	CB3	CB3	CB3	CB3	CB3	CB3	CB4	CB4	CB4	CB4																								
	Tower	Height		100'	110'	120'	130'	140'	150'	160'	170'	180'	190'	200'	210'	220'	230'	240'	250'	260'	270'	280'	290'	300'	310'	320'	330'	340'	350'	360'	370'	380'	390'	400'							╞	BY DATE	
										•		•	·		•				•		•		•		•	•		•													_ L	REV	

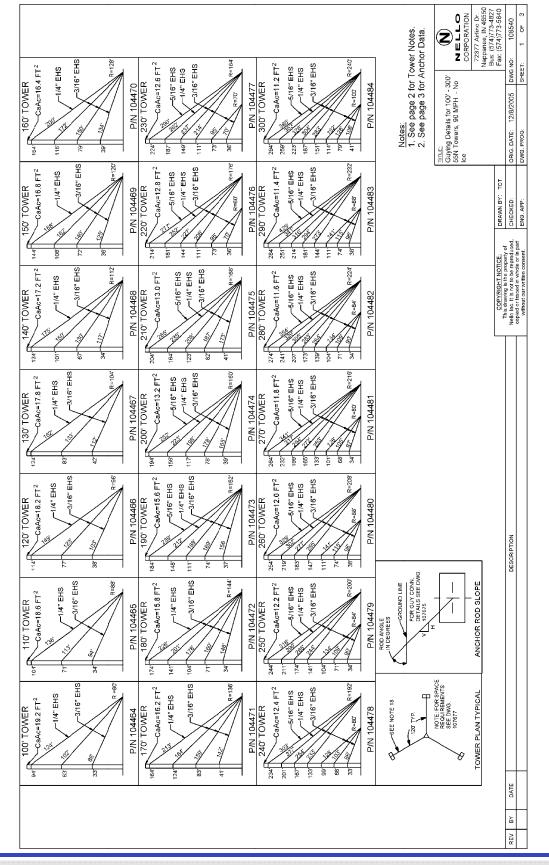
55N Series

Series owers

Netio Corporation 1301 Stahly Dr. 14800-86-NELLO 574-773-5840 FAX sales@netloinc.com www.netloinc.com		Shear (Ibs)	3,600	4,100	4,400	5,400	6,000	6,300	6,300	7 800	8,100	8,500	7,200	7 400	7 700	7,900	9,300	9,900	10,200	222-F) . 222-F) . 222-F) . 222-F) . 222-F) . 222-F) . 222-F) . 222-F) . 222-F) .
1301.1 1301.1 574.7 sales(www.	eactions	Uplift (lbs) She	3,200	3,400	3,600	3,800	4,400	5,000	5,100	6,300	6,500	6,800	6,700	2,200	7 400	7,700	8,600	9,100	3,400	res." local codes. d local codes. Ac per ANSI/TIA/EIA-222 Ac ANSI/TIA/EIA-222 AC ANSI/TIA/EIA-222 AC ANSI/TIA/EIA-222 AC ANSI/TIA/EIA-222 AC ANSI/TIA/EIA-222 AC A
o Ice	Anchor Reactions												1,900	-, suu	3 000	3,100	2,700	2,900	3,200	in round member and or round member and d national and local d national d national d national d national
30 MPH, N		Uplift (Ibs) She											1,700	2,300	2 500	2,600	2,300	2,400	2,500	Ind Antenna Supporting Struct factors. Areas for round mem onditions are unknown. UTIA/EIA-222-F and national a unting. NSI/TIA/EIA-222-F. ea equal to 8.0 square feet (C. er. ind installed by erector.
owers - 9	ons	Shear (Ibs)	200	200	200	200	200	200	200	200 000	200	200	100	36	<u>8</u>	200	100	100	100	titema Towers a chimolude drag fi py 2. Fi fisk. Fi fisk. Purpment and co upperted and lines. In art top of towe und.
Nello Catalog 55N Guy Towers - 90 MPH, No Ice	Base Reactions	Compression (Ibs)	6,900	7,400	8,000	8,500	9,800	10,800	11,200	13 300	14,000	14,600	17,800	19,800	20 200	21,500	22,600	24,000	26,100	Standards for Steel Ar SurTAL2222-1, win tan be found by dividing tan be found by dividing tan center of the towe tower face for a total of cotion since erection ef electrical and telephon ments for construction illowed. 3.3. 3.4. having a total effec of the structure in acc of the structure i
L O Nello Catal	Allowable Projected Area (sq. ft.)	Tower Top	19.20	18.60	18.20	17.20	16.80	16.40	16.20	15.60	13.20	13.00	12.80	12.00	12.40	12.00	11.80	11.60	11.20	Tower designs conform to ANS/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." Tower designs conform to ANS/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." Tower areas listed are effective and are effective areas can be funded drag factors. Areas for round member antennas can be found by 1.2. Areas for fait member antennass can be funded with the current of the tower. Anternas and mourns shall be symmetrically placed about the center of the tower. Tower member design dows not include stresses due to pertower face for a total of six. Tower member design of assimulate towers within hilling distance of electrical and telephone lines. Tower erections shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Tower erections shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Tower erections shall be performed by competent and qualified personnel in accordance with ANS/TIA/EIA-222-F and national and local codes. Tower erections shall be ported. No field weids shall be allowed. Tower erections shall be ported. Tower design: Doube three starts are the erection of the tower. Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/TIA/EIA-222-F. Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/TIA/EIA-222-F. Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/TIA/EIA-222-F. Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/TIA/EIA-222-F. Maintenance and inspection shall be performed over the life of the structure in accordance with ANS/TIA/EIA-222-F. Tower design: action the lower the life of the structure in accordance areas area be actin a symmetical provide areas be accordance area
		Number	104464	104465	104466	104467	104469	104470	104471	104473	104474	104475	104476	104477	104479	104480	104481	104482	104484	 Tower designs conform to Tower designs conform to Tower designs conform to Tower ease listed are effect found by 412. Attermsa and mounts shall be first attention shall be period installation shall be period rescans shall be be installation shall be period wore designs include thin Tower designs, 200 and c 5. Andron radius is from the 6. Evoner designs, 200 and c Tower designs are based Tower designs are based
Z	,	Iower Height (ff)	100	110	120	140	150	160	170	190	200	210	220	240	250	260	270	280	300	Notes: 1. Tower 2. The art 5. Tower 4. Design 5. Tower 6. Tower 6. Tower 1. Toterar 1.1. To

N E L L O

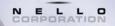
55N Series



N Series Towers

N Series Towers

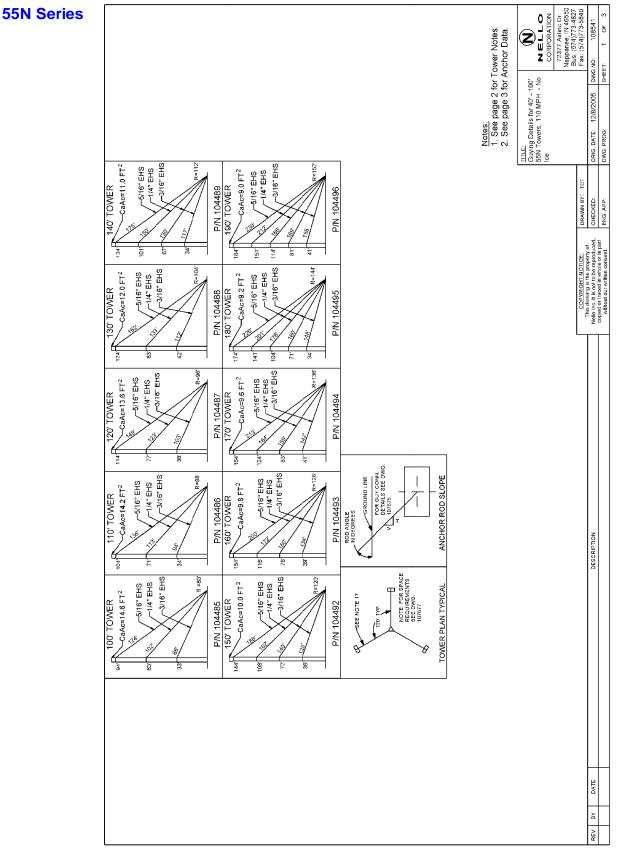
5N Series		Current Control of the control of th	12/8/2005 DWG NO: SHEET: 2
	ph fastest-mile an be found by ts Using 22-F.	DRAWN BY: TOT	
	ting Structures," for a 90 m ound member antennas ca are feet. e for beacon). national and local codes. cification for Structural Joir cification for Structural Joir arking and lighting. arking and lighting. tor.	COMPRISH NOTICE A COMPRISH NOTICE A Main fragment of the property of	
	er rotas Tweer designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 90 mph fastest-mile designs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," for a 90 mph fastest-mile areas still area are relative projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by adding by 2. The areas itstal are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. Areas for round member antennas can be found by adding by 2. Tower designs include The symmetrically placed about the reactive of the cateor of the neuron and anower, include 2.0 square feet, the round of the reactive of the round. Tower designs include three side amounts stall be symmetrically placed three into erection ratio and six. Tower designs include three side amounts stall be performed by completent and qualified size. Tower designs include to a sumptificating discrete projected area of a baccondition are unational. Tower designs include to a sumptificating discrete projected area for a baccondition are unational. Tower designs include to a sumptification in accordance with ANSI/TIA/EIA-222-F and instinuel and local codes. Tower designs include to a sumptification in accordance with ANSI/TIA/EIA-222-F. Tower designs include to a sumptification in accordance with ANSI/TIA/EIA-222-F. Tower designs include to a sumptification in accordance with ANSI/TIA/EIA-222-F. Tower designs include to a sumptification in accordance with ANSI/TIA/EIA-222-F. Tower designs are back and federal requirements for construction marking and lighting. Tower designs are back and reger and tower designs and baging. Tower designs are back and reger and back and bac	Picula de cosa d	DESCHIFTION
	Tower Notes1. Tower determentbasic windbasic	Na Na Tan	8



55N Series

	Reactions (Ib)	Ualift													6750	7010	7170	7430	7670	8610	9140	9410	10080									CORPORATION	72377 Airline Dr. Nappanee, IN 46550	IS: (574)773-4827 x: (574)773-5840	: 108540	3 OF 3
	React	Shear													7150	7520	7440	7690	7950	7950	9280	9860	10170										Na N	Bu Bu	5 DWG NO:	1 1
ata nd 107250		V (in)	6												13.2	12.8	13.8	13.9	13.8	43.7	39.7	38.3	16.0								Guying Details for 100' - 300' 55N Towers, 90 MPH - No				ORIG. DATE: 12/8/2005	DWG. PROG:
Outer Anchor Data Drawing 107249 and 107250		H (in)													55.3	55.5	54.8	54.7	54.8	76.3	79.9	81.0	79.7							TITLE	Guyir 55N -	lce		5	ORIG.	DWG.
Outer Ref. Drawing	Anchor	Anale (dea)	6												43.4	43.0	43.9	44.0	44.0	47.3	44.6	43.7	44.7											DRAWN BY: TCT		
		N/d	┢												102781	102781	102781	102781	102781	106862	106862	106862	106862			-	220	360	610					HT NOTICE:	is the property of at to be reproduced,	copied or traced in whole or in part without our written consent.
	Block	Number													4d	4d	4d	4d	4e	4e	4e	4e	6a		-	-	280	460	780					COPYRIG	This drawing Nello Inc. It is no	copied or traced without our v
	(q)	Ualift	3170	3360	3600	3820	4230	4450	5020	5110	5650	6290	6550	6820	1700	1700	2240	2460	2600	2300	2440	2550	2500	Guy Cable Initial Tension (lb)	erature	80° F	340	560	950					L		
	Reactions (lb)	Shear	3610	3870	4100	4380	5120	5430	6030	6260	7120	7810	8150	8520	1910	1890	2820	2950	3070	2750	2920	3020	3220	ole Initial T	Ambient Temperature	60° F	400	670	1120							
0		ι δ	┝					25			71		81				28					30		Guy Cat	Amb	40° F	460	270	1300							
ata and 10725		(iii) V	10.9	10.6	10.9	10.7	9.0	8.7	9.2	8.6	7.7	8.2	8.1	8.0	11.3	11.7	7.7	9.3	9.8	9.4	9.4	9.7	7.0			20° F	520	870	1470							
Inner Anchor Data awing 107249 and	or	H (in)	56.9	57.1	56.9	57.0	58.1	58.3	58.0	58.3	58.9	58.6	58.6	58.7	56.6	56.3	58.9	57.9	57.6	57.9	57.9	57.7	59.3			о° F	590	980	1650							
Inner Anchor Data Ref. Drawing 107249 and 107250	Anchor	Anale (dea)	41.3	41.0	41.3	41.1	39.6	39.3	39.8	39.2	38.4	38.8	38.8	38.7	41.7	42.0	38.5	39.8	40.3	39.9	39.9	40.2	37.8	Guy	Cable	Diameter	3/16	1/4	5/16						DESCRIPTION	
		P/N	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	102781	102323	102323	102323	102323	102323	102323	102323	102323	102323	L					_]						DES	
	Block	Number	4a	4a	4a	4a	4b	4b	4b	4b	40	4c	4d	4d	4a																					
7	Shear	(q))	200	200	220	240	220	220	220	240	210	200	210	200	130	130	150	150	170	140	130	150	150													
Base Pier Ref. Drawing 107517	Compression	(q)	6930	7440	7950	8470	9280	9810	10830	11150	12140	13330	14020	14650	17760	18320	19840	20680	21540	22640	24020	24860	26080													
Ref.	Base	5	CB2	CB3	CB4	CB4	CB4	CB4	CB4												DATE															
Tower	Height		100'	110'	120'	130'	140'	150'	160'	170'	180'	190'	200'	210'	220'	230'	240'	250'	260'	270'	280'	290'	300'												REV BY D	

Series owers



N Series Towers

N Series Towers

55N Series		Int.e. Control Control <thcontrol< th=""> <thcontrol< th=""> <thco< th=""></thco<></thcontrol<></thcontrol<>
	ing for the strest fo	DRAWN BY: TCT OHEOKED: FRG APP:
	rina Supporting Structures," for a 110 mph fastest- Areas for round member antennas can be found by to 8.0 square feet. are unknown. -222-F and national and local codes. -222-F and national and local codes. 429 Grade 5 AISC "Specification for Structural Joints Using VSI/TIA/EIA-222-F. are in accordance with ANSI/TIA/EIA-222-F. led by erector.	CODYRGENT NOTCE: CODYRGENT NOTCE: This is averagin, a the property of Molton Face of the property of copied on the off in Advisor Theorem, without our written consent.
	signs conform to ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Anter c wind speed with no ice. s lieled are effective projected areas (CaAc per ANSI/TIA/EIA-222-F), which include drag factors. y 1.2. Areas for flat member antennas can be found by dividing by 2. and mounts shall be symmetrically placed aburing a total effective projected area equal resigns include three states state areas (CaAc per tower face, for a total of six. minber despined to molude stress and the center of the tow. To 718° diameter transmission lines to the top, per tower face, for a total of six. Intervention shall be performed by competent and qualified personnel in accordance with ANSI/TIA/EIA stall or dismantle towers within falling distance of electrical and telephone lines. To shall conform to local, state, and federal requirements for construction marking and lighting. The controls shall be polited. No field welds are allowed. The stall or dismantle towers within falling distance of electrical and telephone lines. Thereorgh bols are to be tightened to a "sung tight" condition as defined in the November 13, 1985, 255 or A490 Bolts. The tormer state is including to a sung tight" condition as defined in the November 13, 1885, at steel and connection bolts shall be hot-dipped galvanized after fabrication in accordance with All strength bolts. The tower base to the intersection of anchor rod with the ground. The structure state lis hot-dip galvanized after fabrication in accordance with total addus is from the tower base to the intersection of anchor rod with the ground. The substate steel is hot-dip galvanized and from the ground. The structure steel guys may be required during erection or dismantling of tower must be supplied and instel to guy chord lengths for final cut lengths.	DATE DESCRIPTION
	Tower Notes 1. Tower de mile basi 2. The area dividing a 5. Tower er 7. Tower er 7. Tower er 8. Do not in 9. Bructura 11.1 Structura 11.2 All high 11.2 All high 11.1 Pruchas 11.5 Exposed 11.6 Exposed 11.7 Anebign 11.6 Tower de 11.6 Exposed 11.7 Anebign 11.8 Tower de 11.1 Anebign 11.1 Anebign 11	REV BY

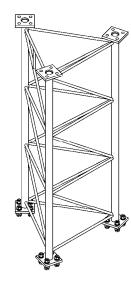
55N	Series

	T		I																TITE: Suying Details for 40' - 190' SUNT Towers, 110 MPH - No CORPORATION	72377 Airline Dr. Nappanee, IN 46550 Bus: (574)773-4827		ORIG: DATE: 12/8/2005 DWG NO: 108541
	Reactions (lb)				5320		6200	6510	6880	7390	8180	8650									DRAWN BY: TCT	CHECKED:
		Shear	5290	5710	6110	6470	7490	7950	8410	9120	10340	10870			ц.	。	0	0		I		
ata and 10725(V (in)	11.2	10.8	10.7	10.3	9.1	8.7	8.7	8.4	30.0	30.2			F 120°	220	360	610			COPYRIGHT NOTICE: This drawing is the property of	t in not to be conre
Inner Anchor Data	or	H (in)	56.7	56.9	57.0	57.3	58.1	58.3	58.3	58.5	87.2	87.0	_		100°	280	460	780			This dra	N - I - I - I
Inner Anchor Data Ref Drawing 107249 and 107250	Anchor	Angle (deg)	41.6	41.2	41.0	40.7	39.6	39.3	39.3	39.0	38.3	38.5	Guy Cable Initial Tension (Ib)	erature	80° F	340	560	950				
		P/N A	Ļ	102781	102781	102781	102781	102781	102781	102781	106862	106862	ble Initial T	Ambient Temperature	60° F	400	670	1120				
	Block	Number	<u> </u>	4b 1	4c 1	4c 1	4c 1	4d 1	4d	4d	4e 1	4e 1	Guy Ca	Aml	40° F	460	770	1300				
					- 0	0					0				20° F	520	870	1470				
r 07517	1 Shear		360	350	380	390	310	290	310	380	280	310			0° F	590	980	1650				
Base Pier ef Drawing 107517	Compression	(q)	9560	10280	11000	11600	12720	13430	14250	15180	16640	17660	Guy	Cable	Diameter	3/16	1/4	5/16				
L A	Base	Number	CB2	CB2	CB2	CB2	CB3	CB3	CB3	CB3	CB3	CB3	L.									
Tower	Height		┢	110'								H										
			-					,I	-	-												
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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 with 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

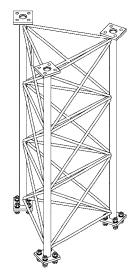
65N Series



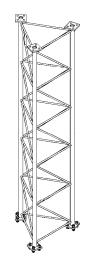
Part #	Description	Weight (Lbs)
106830	65N 5' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	108.0

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

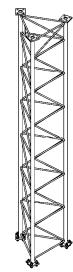


Part #	Description	Weight (Lbs)
106953	65N 5' Heavy Double Braced Section - 1-1/2" Sch 80 Pipe (1.900" OD) (Assembly)	144.0

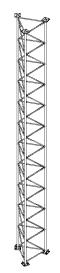


Part #	Description	Weight (Lbs)
104304	65N 10' Standard Section - 1-1/2" Sch 40 Pipe (1.900" OD) (Assembly)	172.5
105773	65N 10' Heavy Transition Section to an NSX - NSX Footpad at Bottom - 1-1/2" Sch 80 Pipe	211.0

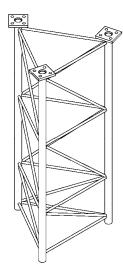
65N Series



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
100210	(1.900" OD) (Assembly)	541.5
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
100007	Sch 80 Pipe (1.900" OD) (Assembly)	-01.0



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 w ith A4722B Insulator)	250.0

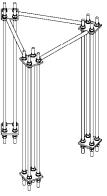
Part #	Description	Weight (Lbs)
103214	65N 5' Standard Base Embedment Section - 1- 1/2" Sch 40 (1.900" O.D.) (Assembly)	96.8

N Series Towers



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65N Series



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

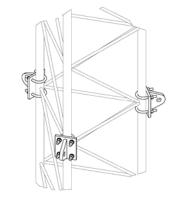








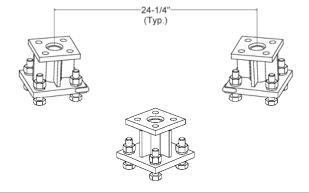
Part #	Description	Weight (Lbs)
103742	65N Joint Bolt Kit	0.9



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Part #	Description	Weight (Lbs)
104571	65N Cap Plates for a lightning rod (Set of 3 w / hardw are)	12.0





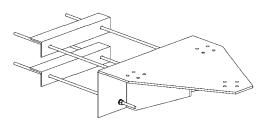
Part #	Description	Weight (Lbs)
105894	NSX-2 Transition to a 65N Section (Assembly)	46.0

Part #	Description	Weight (Lbs)
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

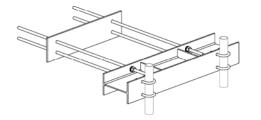
65N Series



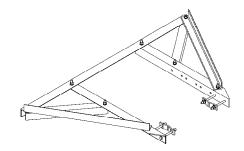
Part #	Description	Weight (Lbs)
103215	65N Anti-Climb Panels (3) w / Hardw are & ACWS	71.6



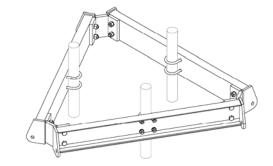
Part #	Description	Weight (Lbs)
106957	65N Wall Mount Base Support Assembly	268.0



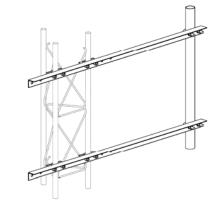
Part #	Description	Weight (Lbs)
106960	65N Wall Mount Upper Support Assembly	92.0



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

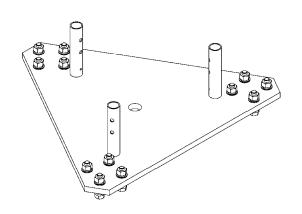


Part #	Description	Weight (Lbs)
105483	65N Torque Arm Assembly	195.0

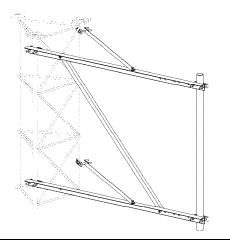


Part #	Description	Weight (Lbs)
105845	Universal Side Arm Assembly, 2-1/4" O.D. x 36" Long Tube (25N, 45N, 55N & 65N)	26.7

65N Series



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



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

N Series Towers

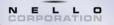
N Series Towers

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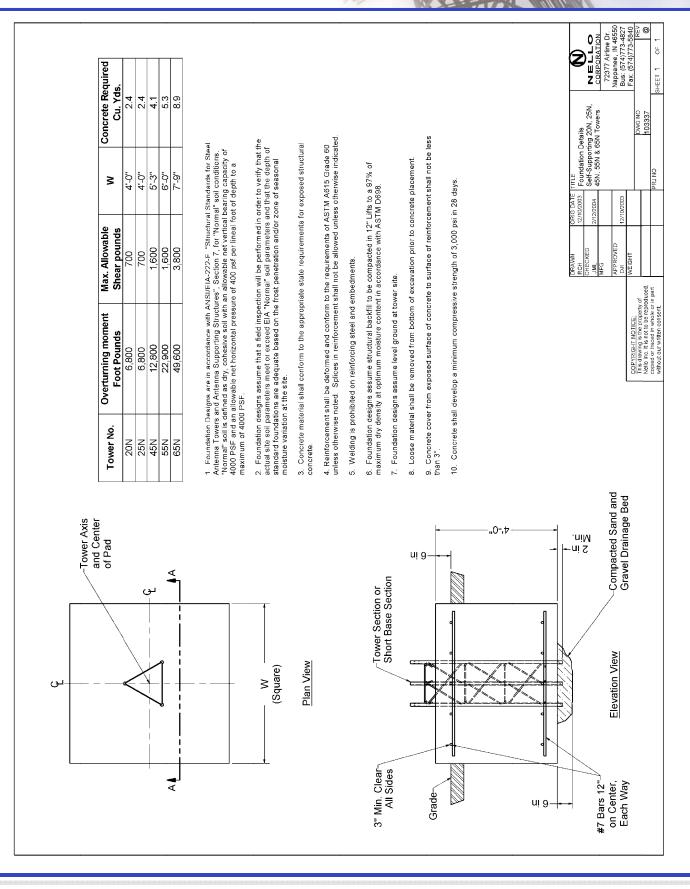
N Series

				N 65N	57.0 135.0	26.0 85.0	9.0 49.0	5.7 37.7	25.0	17.2	8.0	2.6	0.0	0.0	0.0	F unless o threwse specified under tower design loading repretions and product and an eccordance with ANS/TTA/EM.222-F and must be varified by others prior to installation. rection since encoded and and control and control and an eccordance with ANS/TTA/EM.222-F and must be varified by others prior to installation. rection since encoded encoded on a free aperind and an eccordance with ANS/TTA/EM.222-F and must be varified by others prior to installation. rection since encoded encoded encoded on a free aperind and an eccordance with ANS/TTA/EM.222-F and must be varified by others prior to installation. rection since encoded encoded encoded encoded encoded and an encoded and an encoded and and encoded encoded encoded and and encoded enco	oro ourer 1										
			1/2" Ice	45N 55N	30.0 57	10.0	6	2								Suppo	<u>}</u>										
			1/2	25N 4	10.5 3	2.1										ed by others prior to installatio											
		н		20N 2												fied by o	PRJ NO										
		90 M P H		65N	103.6	65.0	40.0	32.2	24.1	17.7	14.5	7.7	3.3	0:0	0.0	nust be veri CRIG DATE 8/25/2004 8/25/2004											
N - SERIES SELF-SUPPORTING TOWERS ALLOWABLE ANTENNA AREAS (SQ.FT C,Ad,)				55N	45.0	23.0	12:0	9.4	4.0	22						1044 - 10	╞										
			No ice	45N	25.0	110	4.0	19								-222.+ s											
			-	25N	t0.5	6.9	1.7									DRAWM DRAWM CHECH CHECH BIEG BIEG DUI UDI											
				20N												A N K L	in part										
				65N	174.3	105.0	65.0	53.4	39.0	28.8	ġ.	11.4	4.1	0:0	0.0	cific data in accordance with A NSI/T s." E.A. 222-F. E.A. 222-F.	whole or										
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			1/2" Ice	45N	40.0	1 6.0	2.7									data in 222-F. 222-F.	pied or 1										
				25N	1 5.5	7.1										N/EIN TRIE	8.										
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		80		N 65N	0 133.0	0 85.0	0 55.8	5 44.0	0 34.1	9 262	15 19.7	14.5	9.4	13	0.0	b based											
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US 2UI			No	No.	No.	° N	No.	° N	No.	° N	No	No ice	No	25N 45N	14.3 30	9.0	3.7 7.	14 4								gn loadi assumment and An and An nstructin ture in a	
ALL.				20 N 25	4	0.										wer dess sonatitions -222-F, F, F, C,											
ЭЕГ С				65N 2	2314	150.0	95.0	76.4	59.1	45.7	33.5	25.0	16.0	61	0.0	Inder to criterial and in Antenna Antenna ife of t ife of t nes.											
•		РН	1/2" Ice	55N 6	0.66	52.0	27.0	222	0.80	5.5	.,					ecified. Icaeling cquipmin r Steel J A N Siel A N Siel A N Siel A N Siel Phone II phone II											
				2" Ice	45N	55.0	25.0	06	4.7								wase space s										
				25N	22.8	14.4	2.5									en. The rower al Stance of the al Stance of the al state wer for rical an											
				20N												2.F unic orporation erection and erection sallowers with box action w placed of tect placed of elect											
		70 M P H		65N	175.9	117.0	76.2	612	48.8	39.0	29.3	24.4	18.4	8.7	0.9	//E/N-32 //E/N-32 //E/N-32 //E/N-32 //E/N-32 //E/N-222-F ///E/N-222-F ///E/N-222-F /////////////////////////////////											
				55N	75.0	43.0	26.0	219	5 .0	11.4	6.5	4.0				NSVTIA idea to itessee at lowelds indexes increase fail of plus i ase mu linges on linges on illinge of stable loc											
			No Ice	45N	42.5	22.0	12:0	8.7	5.1	2.3						mm to A mmula contract of a manufactor of a manufactor of a manufactor of a manufactor of a manufactor of a manufactor of a mething of											
				2 5 N	7.61	1 4 2	6.4	3.6	ţ2							s son no a has br as not ce with the polyted the polyted ade at to ade at to ses cr isjon in sign in sign in sign in the polyted sign in the polyt											
				20N												design g criteri compte shall by all be all be are all the area all the area area area area area area area ar											
				Height (Ft.)	ę	20	9	35	40	45	50	55	60	70	80	Note: 1. Nello Corporation designs conform to ANSI/TA/EA. 222.F unless otherwise specified under tower design to ading. 2. The server member design does not include stressed and to accordance with a server assumed to be based on site-specific data in 3. Tower member design does not include stressed allo to enclore since or the design loading or there are been assumed to be based on site-specific data in 4. Design assumes competent and qualified present will encit the tower. 4. Design assumes competent and qualified present will encit the tower. 5. Were stable in accordance with NSI/TA/EIA. 222.F. "Structural Standards For Steel Anterna Towers and Anterna Supporting Structures." 5. Were stable in accordance with the fabrication is a secondance with NSI/TA/EIA. 222.F. 5. Structural steel schelar is equal to be stable advanced for the structure in accordance with ANSI/TA/EIA. 222.F. 5. Dructuser steel neight is equal to bus "X ₀ or muta" ?%. 6. Dructuses readed and tower steel neight is equal to bus "X ₀ or muta" ?%. 1. Design assumes level grade at tower steel neight is equal to bus "X ₀ or muta" ?%. 2. Dructuses the structure in accordance with ANSI/TA/EIA. 222.F. 1. Design assumes low 7/0° "transmission links or neach rise or flower lost in the structure in accordance with ANSI/TA/EIA. 222.F. 2. Dructuses and mounts are assumed to be symmetrically placed at to wer apek. 3. Anternas and mounts are assumed to be symmetrically placed at to wer apek. 4. Anternas and mounts are assumed to be symmetrically placed at to user the life.											

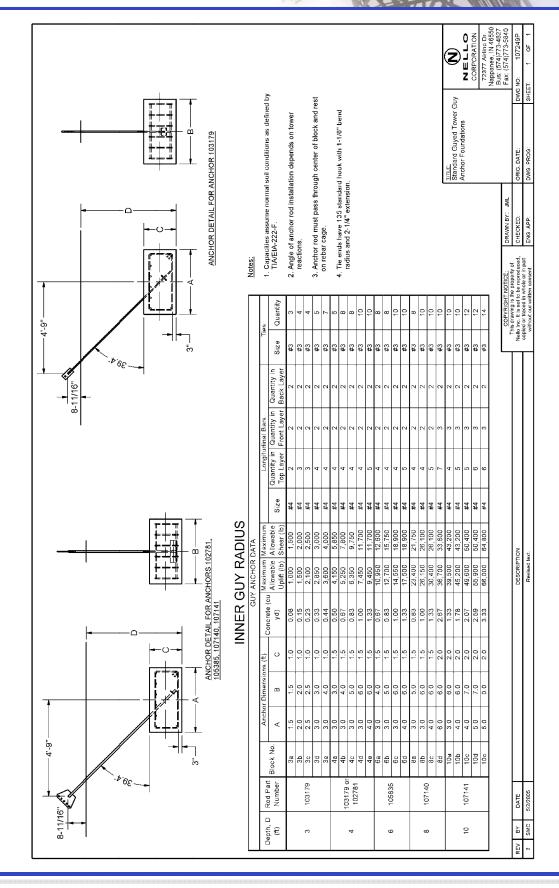
N E L L O



N Series Towers



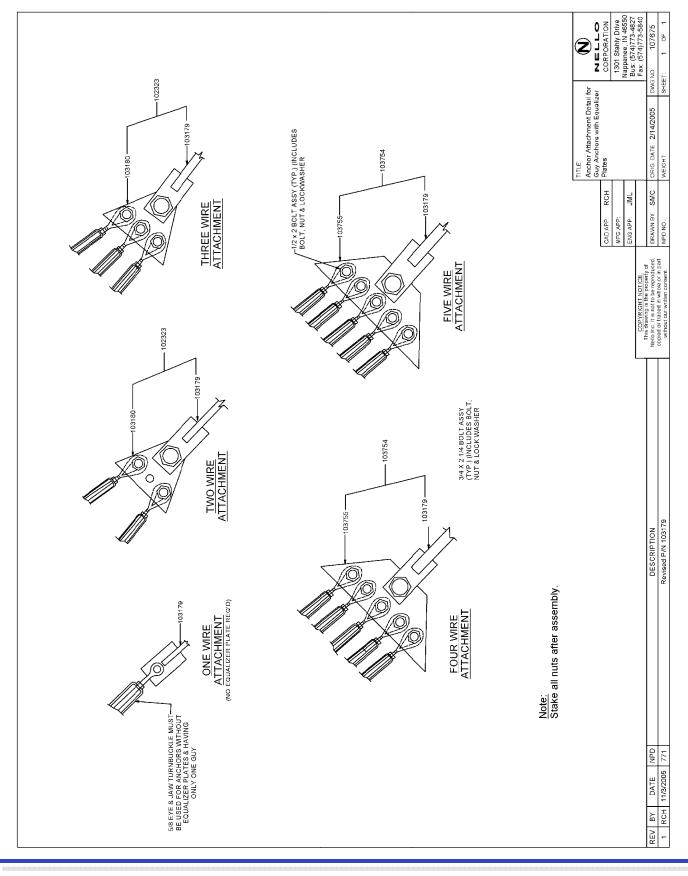
N Series Towers



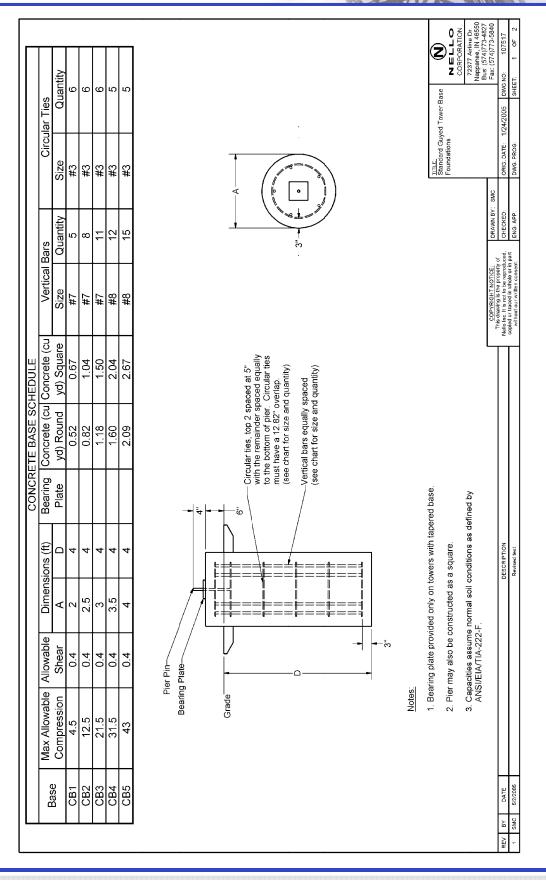
N Series Towers

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	Acres	0.10	0.15	0.21	0.28	0.39	0.48	0.50	0.00	0.70	0.83	1.01	1.16	1.32	1 49	167	5 6		2.14	25.20	20.7 20.7	11		0.40	3 05	200	4.44	4.65	4.96	5.29	5.63	5.97	44	0 9 9 9	0.02	NZ . /	7.59	8.00	8.54	8.97	9.40	9 85	10.31	10.01	0.0	1 4 1	11.90	12.40	12.91	13.61	14.15	14.69	15.25	D.CI									F:	Nelk
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	Height (TL.)	50	30	40	50	60	70	e da	38	0.5	100	110	120	130	140	150	091		0/1	180	DBL	210		077	OF 2	250	0.02	260	2/0	280	290	008	910	010	320	330	340	350	360	370	380	390	007	110		420	430	440	450	460	470	480	490	200										N
							80% OF TOWER																	- ,V,			THIS IS THE MINIMI IM AREA OF LAND	REQUIRED HOWEVER, THIS AREA WILL	NOT ALWAYS PERMIT ORIENTING TOWER INTO	THE BEST POSITION FOR ANTENNA	PATH DIRECTION.			POINT AT WHICH ANC							- 120 120					+ Atat			The triangle is a second secon	VAL MAX		RASE PIER 120° 80% OF TOWER			15/ (TYP)			I AYOUT R		THIS IS THE MINIMUM AREA OF LAND REQUIRED TO PERMIT ORIENTING THE TOWER IN ANY	POSITION FOR ANTENNA PATH DIRECTION.			DATE NPD DESCRIPTION

N Series Towers



N Series



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N Series Towers

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	Circular Ties	Quantity	5	5	5	5	5	5	5	5	n,		
i	Circu	Size	#3	#3	#3	#3	#3	#3	#3	#3	#3		
!	l Bars	Quantity	5	5	5	5	5	ø	8	8	7		Foundations or 0715: 1/24
	Vertical Bars	Size	#7	#7	#7	#7	#7	#7	#7	#7			: swc
	Concrete (cu	yd) Square	1.42	1.71	1.96	2.52	2.87	4.04	4.51	5.02	6.52		
-	Concrete (cu		1.32	1.59	1.84	2.41	2.75	3.86	4.33	4.83	6.27	<u>م</u> ـــــــــ	COPYRIGHT NOTICE: This traving is the property of the local, it is not to be reproduced
	Bearing	Plate										Ă.	
		Ľ	1.25	1.25	1.25	1.5	1.5	1.75	1.75	1.75	2	Circular ties, top 2 spaced at 5" with the remainder spaced equally to the top of pad. Circular ties must have a 12.82" overlap. (see chart for size and quantity) Vertical bars equally spaced with 2.625" bend radius and hook. (see chart for size and quantity)	
	ľ	ш	3.25	3.75	3.75	3.5	3.5	3.75	3.75	3.75	3.5	Circular ties, top 2 spaced at 5 with the remainder spaced equiption of the top of pad. Circular fies must have a 12.82° overlap. (see chart for size and quantity Vertical bars equally spaced with 2.625° bend radius and to 5° long 90 degree standard hook. (see chart for size and quantity)	and quantity)
	ns (ft)	۵	4	4.5	4.5	4.5	4.5	5	5	5	22		and
	Dimensions (ft)	U	1.25	1.5	1.75	2	2.25	2.25	2.5	2.75	2.75		DESCRIPTION
	-	۵	4.5	5	5.5	ß	6.5	7	7.5	8	8.5		
	-	٩	2	2	2	2	2	2.5	2.5	2.5	en 1		
	A llow able	Shear	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	£.		
	Max Allow able		74.5	93	114	137	161	184	213	243	275		
		gase	CB6	CB7	CB8	CB9	CB10	CB11	CB12	CB13	CB14	ö	BY DATE

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

9. Concrete and reil Structural Concrete.

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6. ÷

Concrete shall develop a minimum compressive strength of 3000 psi in 28 days. Concrete shall be placed on the same day that the excavation is made.

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

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

Foundation designs assume level ground at tower site.

ö

and frozen soils and foreign materials.

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.

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

4. Welding is prohibited on reinforcing steel and anchorage

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.

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.

Foundation Notes

ORPORATION

N

107250 1 0F

DWG NO:

R/17/2004

ORIG. DATE:

٦WL DRAWN BY: HECKED

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DESCRIPTION

DATE

ВΥ REV N Series Towers

DWG

ZELCO CORPORATION 1301 Stahly Drive Nappane, IN 48550 Bus (574)773-58407 Fax: (574)773-58407

TITLE: Standard Tower Foundation

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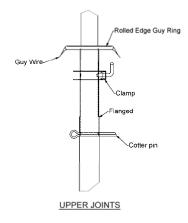
N Series

Telescoping Masts





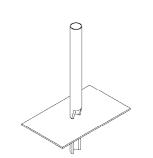
Orde	ided: pipe sections. Clamps and guy rings.		Design: Mounts to:	Lightweight masts for quick installation : n/a	
Part #		Description		Weight (Lbs)	
103541	20' Telesco	oping Mast		15.0	
103542	30' Telesco	oping Mast		24.0	
103543	40' Telesco	oping Mast		32.0	
102527	50' Telesco	oping Mast		42.0	

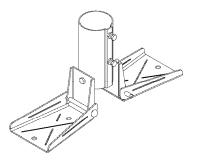


Part #	Description	Weight (Lbs)
105285	Drive-in Telescoping Ground Mount	1.7

Part #	Part # Description			
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		

Mast Accessories







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	



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 hardw are. These systems comply with FAA Advisory Circular AC 70/7460-1K.

351-700

н

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

151-350

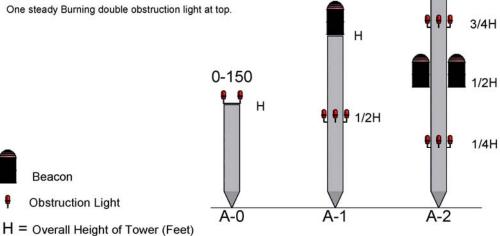
A-2

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

A-1

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

A-0



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.

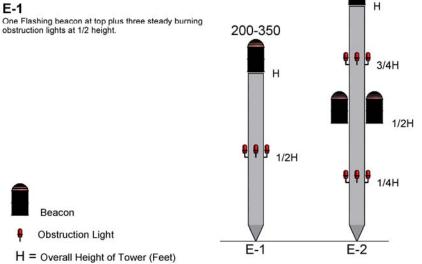
351-500

Description	Weight (Lbs)	Height Range (Ft)	FAA Type	Beacons	OB Levels
FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (TWR)	500.0	0 - 200	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (TWR)	500.0	201 - 250	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 251'-300' (50' extra cable) (TWR)	500.0	251 - 300	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (TWR)	500.0	200 - 350	E-1	1	1
FAA E-2 Dual Lighting kit w ith alarms 351'-400' (50' extra cable) (TWR)	1500.0	351 - 400	E-2	3	2
FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (TWR)	1500.0	351 - 500	E-2	3	2
ll					
FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (Honeywell)	400.0	0 - 200	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (Honeyw ell)	400.0	201 - 250	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 251'-300' (50' extra cable) (Honeyw ell)	400.0	251 - 300	E-1	1	1
FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell)	400.0	200 - 350	E-1	1	1
FAA E-2 Dual Lighting kit w ith alarms 351'-400' (50' extra cable) (Honeyw ell)	770.0	351 - 400	E-2	3	2
FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (Honeyw ell)	770.0	401 - 500	E-2	3	2
	 FAA E-1 Dual Lighting kit w ith alarms 200' (50' extra cable) (TWR) FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (TWR) FAA E-1 Dual Lighting kit w ith alarms 251'-300' (50' extra cable) (TWR) FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (TWR) FAA E-2 Dual Lighting kit w ith alarms 351'-400' (50' extra cable) (TWR) FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (TWR) FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (TWR) FAA E-1 Dual Lighting kit w ith alarms 200' (50' extra cable) (TWR) FAA E-1 Dual Lighting kit w ith alarms 200' (50' extra cable) (Honeyw ell) FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (Honeyw ell) FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) FAA E-2 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) FAA E-2 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) 	Description(Lbs)FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (TWR)500.0FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (TWR)500.0FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (TWR)500.0FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR)500.0FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR)500.0FAA E-2 Dual Lighting kit with alarms 351'-400' (50' extra cable) (TWR)1500.0FAA E-2 Dual Lighting kit with alarms 401'-500' (50' extra cable) (TWR)1500.0FAA E-2 Dual Lighting kit with alarms 200' (50' extra cable) (TWR)400.0FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (Honeyw ell)400.0FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (Honeyw ell)400.0FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell)400.0FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell)400.0FAA E-2 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell)770.0FAA E-2 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell)770.0	Description (Lbs) Range (Ft) FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (TWR) 500.0 0 - 200 FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (TWR) 500.0 201 - 250 FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (TWR) 500.0 251 - 300 FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR) 500.0 200 - 350 FAA E-1 Dual Lighting kit with alarms 351'-400' (50' extra cable) (TWR) 1500.0 351 - 400 FAA E-2 Dual Lighting kit with alarms 401'-500' (50' extra cable) (TWR) 1500.0 351 - 500 FAA E-2 Dual Lighting kit with alarms 200' (50' extra cable) (TWR) 400.0 0 - 200 FAA E-2 Dual Lighting kit with alarms 200' (50' extra cable) (Honeyw ell) 400.0 201 - 250 FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (Honeyw ell) 400.0 251 - 300 FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (Honeyw ell) 400.0 201 - 250 FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell) 400.0 201 - 250 FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell) 400.0 200 - 350 FAA E-2 Du	Description (Lbs) Range (Ft) Type FAA E-1 Dual Lighting kit w ith alarms 200' (50' extra cable) (TWR) 500.0 0 - 200 E-1 FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (TWR) 500.0 201 - 250 E-1 FAA E-1 Dual Lighting kit w ith alarms 251'-300' (50' extra cable) (TWR) 500.0 251 - 300 E-1 FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (TWR) 500.0 200 - 350 E-1 FAA E-2 Dual Lighting kit w ith alarms 351'-400' (50' extra cable) (TWR) 1500.0 351 - 400 E-2 FAA E-2 Dual Lighting kit w ith alarms 401'-500' (50' extra cable) (TWR) 1500.0 351 - 500 E-2 I I I I I I I FAA E-2 Dual Lighting kit w ith alarms 200' (50' (50' extra cable) (TWR) 400.0 0 - 200 E-1 FAA E-1 Dual Lighting kit w ith alarms 201'-250' (50' extra cable) (Honeyw ell) 400.0 201 - 250 E-1 FAA E-1 Dual Lighting kit w ith alarms 251'-300' (50' extra cable) (Honeyw ell) 400.0 201 - 250 E-1 FAA E-1 Dual Lighting kit w ith alarms 301'-350' (50' extra cable) (Honeyw ell) 400.0 200	Description (Lbs) Range (Ft) Type Beacons FAA E-1 Dual Lighting kit with alarms 200' (50' extra cable) (TWR) 500.0 0 - 200 E-1 1 FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (TWR) 500.0 201 - 250 E-1 1 FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (TWR) 500.0 251 - 300 E-1 1 FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR) 500.0 200 - 350 E-1 1 FAA E-2 Dual Lighting kit with alarms 301'-350' (50' extra cable) (TWR) 500.0 351 - 400 E-2 3 FAA E-2 Dual Lighting kit with alarms 351'-400' (50' extra cable) (TWR) 1500.0 351 - 500 E-2 3 FAA E-2 Dual Lighting kit with alarms 200' (50' extra cable) (TWR) 400.0 0 - 200 E-1 1 FAA E-1 Dual Lighting kit with alarms 201'-250' (50' extra cable) (Honeyw ell) 400.0 201 - 250 E-1 1 FAA E-1 Dual Lighting kit with alarms 251'-300' (50' extra cable) (Honeyw ell) 400.0 201 - 250 E-1 1 FAA E-1 Dual Lighting kit with alarms 301'-350' (50' extra cable) (Honeyw ell) <t< td=""></t<>

E-2

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

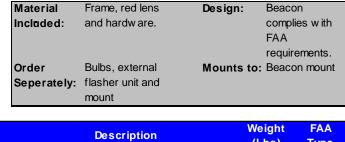
E-1



Lighting

Beacons and Accessories





N E L L O

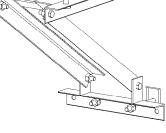
Part #	Description	(Lbs)	Туре
105565	300mm Red Incandescent Beacon	100.0	L864

Part #	Description	Weight (Lbs)
Beacon R	eplacement 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

r care n					
Beacon R	eplacement Parts				
105566	105566 Beacon Bulb, 620 w att w ith Durex Glass				
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			

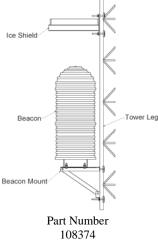
	Part #	Description	Weight (Lbs)
	Beacon A	ccessories	
g	100610	Beacon Side Mount Assembly, Tapered or Straight (1-1/2 to 4-1/2" OD)	22.0
	108374	Beacon Platform Mount Assembly, 1-1/2 to 4- 1/2" OD	67.0
	100473	Beacon Stacker Assembly	38.0





Part Number 100610





Part Number 100473

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 w hite paint provide maximum visibility of a structure by contrasting color. To be effective, paint should meet specific color requirements w hen freshly applied to a structure. How ever, all outdoor paints deteriorate w ith time. While it is not practical to give a maintenance schedule for all climates, surfaces shold be repainted w hen 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 w hen repainting is required. The color should be sampled on the upper half of the structure since w eathering 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

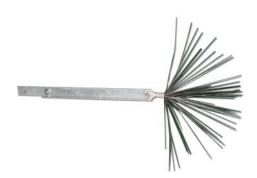
Part #	Description	Weight (Lbs)
100230	Cold Galvanizing Spray (1 Can)	0.8



Dissipaters



Gila Stat Dissipaters



Material	Dissipater. Mount	Design:	1/8" Stainless
Included:	included for applications over 100'		steel rods on applications over 100'
Order	Mounts for	Mounts to:	Tow er legs,
Seperately:	applications under 100'		roof mounts, 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 with 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 w orst w eather conditions for many years. Unile some dissipaters that are made w ith thin w ires that can be damaged by w ind, ice and hail, the *GILA-STAT* is made w ith 1/8" stainless steel individually sharpened rods w hich w iill not be damaged by w eather, birds or other hazzards.

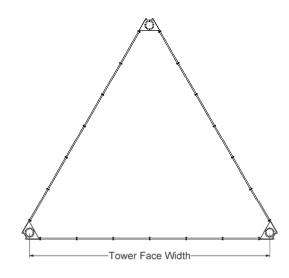
Included is a mount which is custom manufactured to suit the customer's application. Normally a ground wire is not needed if there is an adequate path for the small electrical current, but ground wire and ground rods can be supplied. The must be a path of low resistance to the current to ground, but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

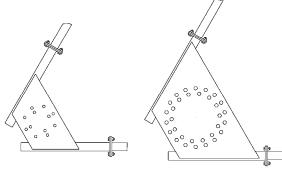
The *GILA-STAT* can be used singly or as a system of dissipaters for large facilities such as tall broadcast or communication tow ers.



Templates







4 & 8 Hole Pattern

14 & 18 Hole Pattern (Also Available)

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

N E L L O

Part #	Description	Weight (Lbs)	Face Width (Ft)				
Unversal	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



Universal

design with dual

Face Width

(Ft)

11.0

12.5

14.0

15.5

17.0

18.5

20.0

21.5

23.0

24.5

26.0

27.5

29.0

30.5

32.0

33.5

hole patterns

Design:

Mounts to: N/A

Weight

(Lbs)

338.1

354.6

381.6

387.5

414.5

431.0

458.0

463.9

490.9

507.4

534.4

540.3

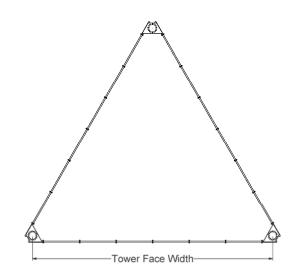
567.3

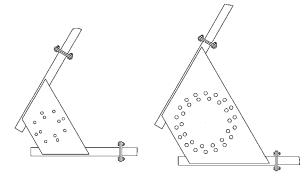
583.8

610.8

616.7

NSX Tower Universal Templates





4 & 8 Hole Pattern

14 & 18 Hole Pattern

106220	NSX Tow er Template Assembly - NSX-30.5
100220	(Universal 14 - 18 Hole Pattern) (Pipe Style)
106221	NSX Tow er Template Assembly - NSX-32.0
106221	(Universal 14 - 18 Hole Pattern) (Pipe Style)
106222	NSX Tow er Template Assembly - NSX-33.5
100222	(Universal 14 - 18 Hole Pattern) (Pipe Style)

Part # Multi-Un 106412 Mulit-Un 106347 Material

Order

Unversal 14 - 18 Hole Pattern

Part #

106482

106208

106209

106210

106211

106212

106213

106214

106215

106216

106217

106218

106219

Seperately:

Included:

Corner templates.

spacers and hardw are for

various face widths

Description

NSX Tow er Template Assembly - NSX-11

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-12.5

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-14.0

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-15.5

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-17.0

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-18.5

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-20.0

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-21.5

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-23.0

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-24.5

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-26.0

(Universal 14 - 18 Hole Pattern) (Pipe Style) NSX Tow er Template Assembly - NSX-27.5

(Universal 14 - 18 Hole Pattern) (Pipe Style)

NSX Tow er Template Assembly - NSX-29.0

(Universal 14 - 18 Hole Pattern) (Pipe Style)

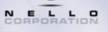
N/A

NSX Tower Multi-Universal Templates

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	V	, , ,			
	Material Included:	Corner templates, spacers and hardw are for various face w idths	Desi	desig	rsal n w ith dual patterns
	Order Seperately:	N/A	Mou	nts to: N/A	
	Descripti	on	Weight (Lbs)	Face Widtl Min. (Ft)	h Range Max. (Ft)
۱V	ersal 4 - 8 Hole Pattern				
	NSX Tow er Template Asse (Multi-Universal) - NSX-3.5	, , , ,	422.4	3.5	21.5
۱V	versal 14 - 18 Hole Pattern				
,	NSX Tow er Template Asse (Multi-Universal) - NSX-12.	, , , , ,	687.0	12.5	33.5

Hardware



Bolts

Nuts

Material

Order

Included:

Seperately: washers

Hot dip

Bolts and

galvanized nut

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



Part #	Description	Weight (Lbs)
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 Washers

ASTM A563

specification

Design:

Mounts to: n/a

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



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 #	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

Lock Washers

Material	Galvanized	Design:	ASTM F436
Included:	w asher		specification.
Order	Bolts and nuts	Mounts to:	n/a
Seperately:			



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

Threaded Rod

Material	Galvanized	Design:	ASTM
Included:	threaded rod		specifications
			show n below
Order	Nuts and	Mounts to:	n/a
Seperately:	w ashers		



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,	Design:	ASTM A36
Included:	washers, lock		specifications
	washers and		w ith 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.	

U-Bolt Kit



Hardware

J-Bolt Kit



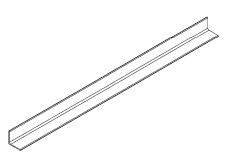
Material	Galvanized J-bolt	Design:	SAE J429 Gr.
Included:	and nut		2
			specifications
Order	Washers	Mounts to:	n/a
Seperately:			

Part #	Description	(Lbs)
100108	3/8" J-Bolt 3/8"-16 x 9" x 1-1/2" x 7" x 60	0.4
100100	deg. HDG, Assembled with DH Nut	0.4



Angle, Pipe & Tube

Angle



Part #	Description	Weight (Lbs)		
Pre-Cut F	Pre-Cut Plain End Pipe			
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		

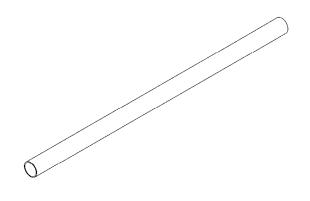
Material	Hot dip	Design:	A36
Included:	galvanized angle		
Order	n/a	Mounts to:	n/a
Seperately:			

NELLO CORPORATION

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

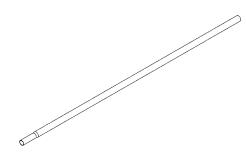
Material	Hot dip	Design:	Schedule 40.
Included:	galvanized pipe		A500 Grade B
Order Seperately:	n/a	Mounts to:	n/a





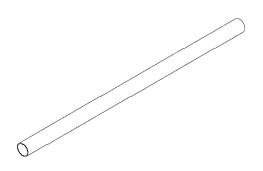


1-1/4" Tubing, Swaged



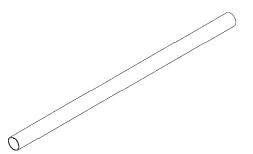
	laterial ncluded:	Hot dip galvanized pipe		Schedule 40. A500 Grade B
-	order Seperately:	n/a	Mounts to:	n/a
Part #		Description		Weight (Lbs)
102639	1-1/4" OD Sw aged E	x 18 Ga x 5' Pre-Galv nd	r. Tubing -	3.1
102841	1-1/4" OD Sw aged E	x 18 Ga x 10' Pre-Ga Ind	lv. Tubing -	6.3
102325	1-1/4" OD End	x 16 Ga x 5' Galv. Tu	bing - Sw agec	4.1
102842	1-1/4" OD Sw aged E	x 16 Ga x 10' Galv. T ind	ubing -	8.2
102640	1-1/4" OD Sw aged E	x 16 Ga x 10' Pre-Ga nd	lv. Tubing -	8.2

1.66" OD Tubing



	erial uded:	Hot dip galvanized pipe	Design:	Schedule 40. A500 Grade B
Ord Sep	er erately:	n/a	Mounts to:	n/a
Part #		Description		Weight (Lbs)
102646	1.66" OI	D x 18 Ga x 5' Pre-Gal	v. Tubing	4.2
102348	1.66" O	D x 18 Ga x 10' Pre-Ga	alv. Tubing	8.4

2" OD Tubing



	erial uded:	Hot dip galvanized pipe	200.g	Schedule 40. A500 Grade B
Ord Sep	er erately:	n/a	Mounts to:	n/a
Part #		Descript	ion	Weight (Lbs)
100495	2" OD x	18 Ga x 6' Pre-G	alv. Tubing	16.3

Hardware / Angle, Pipe, Tube



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
100184	7.5	42
100191	0.3	184
100192	0.1	184
100193	0.1	185
100194	0.1	184
100196	28.0	36
100198	121.0	187
100199	17.0	59
100200	11.0	58
100201	26.0 24.0	187 187
100203		187
100204	27.0 0.5	187
100210	72.0	33
100218	112.0	59
100221	5.1	58
100222	119.0	33
100223	84.0	33
100224	41.9	37
100220	0.8	179
100233	0.0	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
100272	20.0	76
100282	33.0	187
100297	8.3	58
100298	125.0	31
100300	177.9	31
100302	0.2	184
100318	563.0	56
100319	729.0	56
100320	23.2	42
100322	192.0	31
	04E 4	24
100323	245.1	31

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 100454	0.6 80.0	184 187
100454	75.0	49
100488	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 100582	0.4	91 91
100582	0.7	91
100585	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 29.0	178
100615 100618	29.0	187 187
100618	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

Part Number	Weight (Lbs)	Page Number
100701	3.6	79
100702	3.8	79
100703	4.0	79
100704	4.1	79
100705	4.1	79
100706	2.8	79
100715	0.7	77
100716	1.2	77
100717	1.3	77
100718	1.5	77
100719	1.7	77
100721	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



101247 125.0 187 101252 923.3 73 101254 0.4 78 101255 0.5 78 101256 0.5 78 101257 1.3 78 101259 0.3 78 101260 0.2 78 101261 0.2 78 101262 1.3 78 101263 1.3 78 101264 465.6 74 101270 85.2 60 101286 465.6 74 101270 85.2 60 101303 8.8 58 101304 6.2 58 101305 1.0 83 101350 1.0 83 101351 0.6 83 101355 4.2 83 101356 4.0 83 101355 4.2 83 101355 4.2 83	Part Number	Weight (Lbs)	Page Number
101252 923.3 73 101254 0.4 78 101255 0.5 78 101256 0.5 78 101257 1.3 78 101258 1.3 78 101260 0.2 78 101261 0.2 78 101262 1.3 78 101263 1.3 78 101264 465.6 74 101270 85.2 60 101286 465.6 74 101270 85.2 60 101303 8.8 58 101304 6.2 58 101305 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101355 4.2 83 101355 4.2 83 101355 4.2 83 101356 0.2 83 <td< th=""><th></th><th></th><th>-</th></td<>			-
101254 0.4 78 101255 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 101264 465.6 74 101265 9.9 35 101266 9.9 35 101303 8.8 58 101304 6.2 58 101305 1.0 83 101320 111.8 60 101351 0.6 83 101352 2.3 83 101354 3.5 83 101355 4.2 83 101355 4.2 83 101354 3.5 83 101355 4.2 83 101356 0.2 83 101			
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101257 1.3 78 101258 1.3 78 101260 0.2 78 101261 0.2 78 101262 1.3 78 101263 1.3 78 101264 465.6 74 101270 85.2 60 101286 9.9 35 101303 8.8 58 101304 6.2 58 101305 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101355 4.2 83 101355 4.2 83 101355 4.2 83 101356 6.0 83 101357 6.1 83 101360 6.0 83 1013			
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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 101305 1.1 80 101320 111.8 60 101320 111.8 60 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101360 6.0 83 101361 7.1 83 101362 7.4 83 101363 8.5 83			
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 101305 111.8 60 101320 111.8 60 101350 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101360 6.0 83 101361 7.1 83 101362 7.4 83 101363 8.5 83	101259	0.3	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 101305 111.8 60 101320 111.8 60 101350 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101360 6.0 83 101361 7.1 83 101362 7.4 83 101363 8.5 83	101260		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 101305 111.8 60 101344 17.2 35 101350 1.0 83 101351 0.6 83 101352 2.3 83 101354 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 1	101261	0.2	78
101268 465.6 74 101270 85.2 60 101296 9.9 35 101303 8.8 58 101304 6.2 58 101304 6.2 58 101300 111.8 60 101320 111.8 60 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 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 <td< td=""><td>101262</td><td>1.3</td><td>78</td></td<>	101262	1.3	78
101270 85.2 60 101296 9.9 35 101303 8.8 58 101304 6.2 58 101320 111.8 60 101320 111.8 60 101320 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 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 1	101263	1.3	78
101296 9.9 35 101303 8.8 58 101304 6.2 58 101320 111.8 60 101320 111.8 60 101320 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101355 4.2 83 101356 4.0 83 101356 4.0 83 101356 4.0 83 101356 4.0 83 101356 4.0 83 101356 4.2 83 101356 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 83 101	101268	465.6	74
101303 8.8 58 101304 6.2 58 101320 111.8 60 101320 111.8 60 101320 1.0 83 101350 1.0 83 101351 0.6 83 101352 2.3 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101355 4.2 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 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 101368 11.0 83 10	101270	85.2	60
101304 6.2 58 101320 111.8 60 101344 17.2 35 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 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 101366 9.1 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101	101296	9.9	35
101320 111.8 60 101344 17.2 35 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101356 4.0 83 101355 4.2 83 101356 4.0 83 101357 6.1 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 1	101303	8.8	58
101344 17.2 35 101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101359 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 101366 9.1 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 11.0 83 101377 1.6 84 101381 1.6 84 1013	101304	6.2	58
101350 1.0 83 101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 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 101366 9.1 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 11.0 83 101377 1.6 84 10138	101320	111.8	60
101351 0.6 83 101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101356 4.0 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 101366 9.1 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 1.6 84 101377 1.6 84 101380	101344	17.2	35
101352 2.3 83 101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101359 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 101364 7.0 83 101365 0.2 83 101365 0.2 83 101364 7.0 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 1.6 84 101377 1.6 84 101380	101350	1.0	83
101353 2.9 83 101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101359 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 101365 0.2 83 101365 0.2 83 101364 7.0 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 1.6 84 101377 1.6 84 101380 1.6 84 101381	101351	0.6	83
101354 3.5 83 101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101359 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 101366 9.1 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 101380 1.6 84 101381 1.6 84 101382 1.6 84 1013	101352	2.3	83
101355 4.2 83 101356 4.0 83 101357 6.1 83 101358 6.0 83 101359 6.0 83 101359 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 101366 9.1 83 101365 0.2 83 101366 9.1 83 101367 13.0 83 101368 11.0 83 101377 1.6 84 101380 1.6 84 101381 1.6 84 101382 1.6 84 101383 1.6 84 10138	101353	2.9	83
101356 4.0 83 101357 6.1 83 101359 6.0 83 101359 6.0 83 101360 6.0 83 101361 7.1 83 101362 7.4 83 101362 7.4 83 101363 8.5 83 101364 7.0 83 101365 0.2 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 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 101380 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101385 1.6 84 101386 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101390 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101394 1.6 84 101441 0.4 85 101442 <td>101354</td> <td>3.5</td> <td>83</td>	101354	3.5	83
101357 6.1 83 101358 6.0 83 101359 6.0 83 101360 6.0 83 101361 7.1 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 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101369 15.8 83 101369 15.8 83 101377 1.6 84 101379 1.6 84 101380 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101385 1.6 84 101386 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101394 1.6 84 101394 1.6 84 101448 0.4 85 101448	101355	4.2	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 101363 8.5 83 101364 7.0 83 101365 0.2 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 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 101380 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101385 1.6 84 101386 1.6 84 101389 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101439 1.3 83 101441 0.4 85 101448 0.4 85 101448 0.4 85 101448 0.4 85 101449 0.4 85	101356	4.0	83
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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 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 83 101367 13.0 83 101369 15.8 83 101377 1.6 84 101379 1.6 84 101380 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101385 1.6 84 101386 1.6 84 101387 1.6 84 101389 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101395 1.6 84 101395 1.6 84 101449 0.4 85 101448 0.4 85 101448 0.4 85 101449 0.4 85	101358	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 101366 9.1 83 101366 9.1 83 101366 9.1 83 101366 9.1 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 101380 1.6 84 101381 1.6 84 101382 1.6 84 101384 1.6 84 101385 1.6 84 101386 1.6 84 101387 1.6 84 101388 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101395 1.6 84 101395 1.6 84 101441 0.4 85 101448 0.4 85 101448 0.4 85 101449 0.4 85 101450 0.4 85	101359	6.0	83
101362 7.4 83 101363 8.5 83 101364 7.0 83 101365 0.2 83 101366 9.1 83 101366 9.1 83 101367 13.0 83 101367 13.0 83 101367 13.0 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 101384 1.6 84 101385 1.6 84 101386 1.6 84 101386 1.6 84 101386 1.6 84 101387 1.6 84 101389 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101395 1.6 84 101439 1.3 83 101441 0.4 85 101448 0.4 85 101449 0.4 85 101450 0.4 85	101360	6.0	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 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 101386 1.6 84 101386 1.6 84 101387 1.6 84 101389 1.6 84 101390 1.6 84 101391 1.6 84 101392 1.6 84 101393 1.6 84 101394 1.6 84 101395 1.6 84 101441 0.4 85 101447 0.4 85 101448 0.4 85 101449 0.4 85 101450 0.4 85	101361	7.1	83
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101451 0.4 85			
101452 0.4 65	101452	0.4	85

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 101480	0.2	85 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 101557	1.0	81 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 101651	2.8 2.1	88 88
101672	2.1	89
101672	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	377.0	25
101682	388.0	25
101683 101684	399.0 412.0	25 25
101685	412.0	25
101686	441.0	25
101687	293.0	25
101688	399.0	25
101689	410.0	25
101690	421.0	25
101691	434.0	25
101692	448.0	25
101693	463.0	25
101694	209.0	24
101695 101696	315.0 326.0	24 24
101698	320.0	24
101698	350.0	24
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Part Number Weight (Lbs) Page	Number
101699 364.0	24
	24
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	24 24
	24 24
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101716 0.9 1	85
101723 334.0	29
101727 439.5	29
101728 451.0	29
	29
101730 474.7	29
	29
	29
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	29 28
	28
	28
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101759 425.6	28
	28
101765 372.0	28
101766 383.0	28
101767 394.0	28
101768 407.2	28
	28
101770 436.5	28
	66
	66
	65
	65
	65 65
	65 70
	10
	90
	90
	90
	90
	90
	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

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	30.0	91
102637	27.0	71
102639	3.1	188
102640 102641	8.2 6.2	188 107
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	31.0	106
102732	14.0	107
102733	23.1	108
102744 102745	19.3 9.0	105 106
102745	9.0	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	0.1	92
102767	0.1	92
102770	0.8	96
102772 102774	0.3	92 92
102774	3.6	92
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	63
102816	0.9	92
102817	2.1	95
102823 102837	729.0 8.4	91 94
102837	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
102965	0.3	91
102968	3.9	94
102969	0.1	96
102974 102975	11.0 0.2	96 96
102975	15.0	96
102976	36.8	90
102986	4.0	65
102987	7.0	65
103024	4.0	64

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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	175 187	
103686 103709	49.0 125.0	187	
103709	125.0	181	
103712	90.0	181	
103730	39.4	101	
103730	42.9	100	
103732	28.2	104	
103732	0.9	163	
103742	100.0	181	
103743	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	
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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
103932	72.0	40
103933	72.0	40
103934	2.4	40
103941	7.0	41
103942	8.0	
103943	2.7	41
103944	4.0	41
103945	3.7	41
103946	8.0	41

P	PartNumber	Weight (Lbs)	Page Number
	103947	9.0	41
	103948	4.0	41
_	103949	5.0	41
_	103950	6.2	42
_	103951 103964	22.0 1,035.0	42 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 103980	1,629.0	45
┢	103980	1,058.0 1,369.0	46 46
-	103981	1,369.0	46
	103983	1,473.0	40
	103984	1,557.0	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 103996	263.2 268.7	49 49
_	103990	276.3	49
-	103997	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 104011	838.0	48 48
\vdash	104011	1,146.0 1,212.0	48
┢	104012	1,249.0	48
\vdash	104013	1,337.0	48
\vdash	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
	104023	103.8	52
	104026	44.0	52
\vdash	104027	54.0	52 53
⊢	104028	5.0	53 181
	104041	5.0	

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	429.0	63	
104134	458.0	63	
104135	404.0	63	
104136	483.0	63	
104137	505.0	63	
104138	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	679.0 817.0	129 129	
104233			
104234 104235	890.0 970.0	129 129	
104235	1,046.0	129	
104230	1,189.0	129	
104238	1,169.0	129	
104239	1,352.0	129	
104240	1,443.0	129	
104240	1,593.0	129	
104241	1,685.0	129	
104242	1,772.0	129	
104243	1,883.0	129	
104245	2,059.0	129	
104246	2,166.0	129	
104240	2,233.0	129	
104248	2,329.0	129	
104249	2,515.0	129	
104250	2,612.0	129	
104251	2,724.0	129	
104252	2,802.0	129	
104253	2,975.0	129	
104254	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

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 104355	661.0 267.0	56 55
104355	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 104367	506.0 6.0	55 64
104385	2,254.0	47
104386	2,887.0	47
104387	2,953.0	47
104388	2,986.0	47
104389	3,074.0	47
104390	2,380.0	47
104391 104392	3,084.0 3,150.0	47 47
104392	3,150.0	47
104394	3,271.0	47
104395	2,553.0	47
104396	3,429.0	47
104397	3,462.0	47
104398	3,550.0	47
104399	3,363.0	47 43
104401 104402	356.0 389.0	43
104403	488.0	43
104404	554.0	43
104405	620.0	43
104418	0.5	89
104419 104420	0.3	89 86
104420	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 6.1	86 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 104436	1,687.0 1,791.0	147 147
104437	1,902.0	147
104438	2,012.0	147
104439	2,122.0	147
104440	2,352.0	147
104441 104442	2,465.0	147 147
104442	2,578.0 2,693.0	147
104444	2,804.0	147
104445	3,028.0	147
104446	3,138.0	147
104447	3,337.0	147

Part Number	Weight (Lbs)	Page Number	
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	2,017.0	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	
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 2,955.0	156	
104496 104497		156 92	
104497	0.5		
	1.4	92	
104499	7.0	94	
104500 104501	9.8 13.3	94 94	
104501	2.4	94	
104506	2.4	94 94	
104508	20.6	94	
104509	1.3	91	
104518	10.1	96	
104519	48.8	187	
104533	63.0	187	
104534	75.0	187	
104555	185.0	167	
104551	73.0	144	
104555	203.2	103	
104567	203.2	162	
104570	232.9	162	
104570	12.0	162	
10-1011	12.0	100	



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	1.0	75
104833	11.0	179
104834	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	52.0	105
105044	396.3	162
105135	80.0	125
105163	1.8	174
105164	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	570.0	4
105585	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 105593	3,200.0 3 300.0	4
105593	3,300.0 4,060.0	4
105594	4,060.0	4
105595	4,160.0	4
105596	5,300.0	4
105597	5,400.0 6,660.0	4
105598	6,760.0	4
105599	800.0	4
105600		4
105601	990.0 1,480.0	4
105602		4
	1,670.0 2 170 0	4
105604	2,170.0	4
105605	2,360.0	
105606	3,000.0	4
105607	3,190.0	4
105608	3,860.0	
	4,050.0	4
105609	E 100 0	А
105610 105611	5,100.0 5,290.0	4

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 105822	110.0 76.0	145 163
105845	26.7	103
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 106054	190.0	181 181
106054	60.0 86.7	98
106193	122.9	182
106194	149.9	182
106195	166.4	182
106196	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 106205	346.2 352.1	182 182
106203	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 106220	567.3 583.8	183 183
106220	583.8 610.8	183
106221	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 106762	19.0 0.1	109 96
106762	6.0	96
106774	0.2	109
100111	0.2	

Part NumberWeight (Lbs)Page Number106779955.0176106830108.0161106913233.062106953144.0161106957268.016410696092.0164107049775.0176107145200.062107146161.062107604121.062107605117.050107604128.055107605117.050107604374.063107670106.06010771134.010310771537.010310771637.010310771737.010310771856.012310772956.012310772959.01110801737.0104108051209.0981082152.379.011108221730.011108221730.011108221730.011108221730.011108221730.0111082211.8821083231.8821083241.8821083251.8821083241.8821083251.8821083241.8821083251.8821083241.88210832514.013108936 <t< th=""><th colspan="4"></th></t<>				
106830 108.0 161 106913 233.0 62 106949 82.0 165 106953 144.0 161 106956 92.0 164 107049 775.0 176 107145 200.0 62 107146 161.0 62 107604 121.0 62 107605 117.0 50 107605 117.0 50 107605 117.0 63 107670 106.0 60 107711 34.0 103 107715 37.0 103 107715 37.0 103 107717 37.0 103 107721 54.0 123 107725 56.0 123 107727 56.0 123 107729 59.0 124 107729 59.0 124 107729 59.0 11 108216 2,016.0	Part Number	Weight (Lbs)	Page Number	
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 107460 121.0 62 107605 117.0 50 107605 117.0 50 107623 406.0 55 107640 374.0 63 107711 34.0 103 107715 37.0 103 107715 37.0 103 107717 37.0 103 107721 54.0 123 107723 57.0 123 107729 59.0 124 107729 59.0 124 107721 38.0 100 108215 2,379.0 11 108216 2,379.0 11 108217 1,653.0	106779	955.0	176	
106949 82.0 165 106953 144.0 161 106957 268.0 164 107049 775.0 176 107145 200.0 62 107146 161.0 62 107604 121.0 62 107605 117.0 50 107605 117.0 50 107605 107.0 60 107701 06.0 60 107702 106.0 60 107713 40.0 103 107715 37.0 103 107715 37.0 103 107721 54.0 123 107723 57.0 123 107724 56.0 123 107725 56.0 123 107727 56.0 123 107728 59.0 124 107729 59.0 124 108051 209.0 98 108215 2,379.0	106830	108.0	161	
106953 144.0 161 106957 268.0 164 107049 775.0 176 107145 200.0 62 107146 161.0 62 107460 121.0 62 107604 128.0 50 107605 117.0 50 107606 117.0 63 107670 106.0 60 107704 0.0 176 107711 34.0 103 107715 37.0 103 107715 37.0 103 107721 54.0 123 107723 57.0 123 107724 56.0 123 107725 56.0 123 107727 56.0 123 107728 59.0 124 107729 59.0 124 107721 38.0 100 108017 37.0 104 108215 2,379.0	106913	233.0	62	
106957 268.0 164 107049 775.0 176 107145 200.0 62 107146 161.0 62 107460 121.0 62 107604 128.0 50 107605 117.0 50 107604 374.0 63 107700 106.0 60 107711 34.0 103 107715 37.0 103 107715 37.0 103 107719 27.0 100 107721 54.0 123 107725 56.0 123 107729 59.0 124 107729 59.0 124 107729 59.0 124 108017 37.0 104 108215 2,379.0 11 108216 2,016.0 11 108217 1,653.0 11 108218 1,349.0 11 108221 730.0	106949	82.0	165	
106960 92.0 164 107049 775.0 176 107145 200.0 62 107146 161.0 62 107604 121.0 62 107605 117.0 50 107604 128.0 55 107605 117.0 50 107604 374.0 63 107670 106.0 60 107711 34.0 103 107715 37.0 103 107715 37.0 103 107719 27.0 100 107723 57.0 123 107724 56.0 123 107725 56.0 123 107729 59.0 124 107731 38.0 100 108017 37.0 104 108215 2,379.0 11 108216 2,016.0 11 108217 1,653.0 11 108220 898.0	106953	144.0	161	
107049 775.0 176 107145 200.0 62 107146 161.0 62 10760 121.0 62 107604 128.0 50 107605 117.0 50 107623 406.0 55 107640 374.0 63 107704 0.0 176 107711 34.0 103 107715 37.0 103 107716 37.0 103 107717 37.0 103 107718 57.0 123 107729 59.0 124 107721 56.0 123 107725 56.0 123 107727 56.0 123 107729 59.0 124 108051 209.0 98 108215 2,379.0 11 108217 1,653.0 11 108221 1,89.0 11 108221 730.0	106957	268.0	164	
107145 200.0 62 107146 161.0 62 107460 121.0 62 107604 128.0 50 107605 117.0 50 107607 106.0 63 107670 106.0 60 107704 0.0 176 107711 34.0 103 107712 37.0 103 107713 40.0 103 107714 37.0 103 107715 37.0 103 107721 54.0 123 107723 57.0 123 107725 56.0 123 107727 56.0 123 107728 57.0 114 108017 37.0 104 108051 209.0 98 108215 2,379.0 11 108216 2,016.0 11 108217 1,653.0 11 108221 730.0	106960	92.0	164	
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 107714 37.0 103 107715 37.0 103 107721 54.0 123 107723 57.0 123 107724 56.0 123 107725 56.0 123 107727 56.0 123 107728 57.0 114 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	107049	775.0		
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Part Number 109101	Weight (Lbs) 2,299.0	Page Number
109101	1,619.0	11
109102	1,954.0	11
109104	2,301.0	11
109104	1,315.0	11
109106	2,258.0	11
109107	1,287.0	11
109108	2,194.0	11
109109	1,269.0	11
109110	85.0	98
109179	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
109430	364.0	26
109431	376.0	26
109432	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	397.0	26
109445	409.0	26
109446	421.0	26
109447	432.0	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	412.0	27
109461	423.0	27
109462	439.0	27
109463	455.0	27
109464	305.0	27
109465	410.0	27
109466	422.0	27
109467	434.0	27
109468	445.0	27
109469	461.0	27
109409	477.0	27

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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	Partnership Limited Partnership Proprietorship
Accounts Payable Co	ontact:	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 #-

THE ABOVE INFORMATION is provided for the purpose of obtaining credit by Buyer from Seller and is warranted to be true and correct. Buyer hereby authorizes Nello Corporation (hereinafter "Seller") and its representatives and successors to contact the persons above identified and such other persons as Seller deems necessary to obtain credit and financial information concerning Buyer. Buyer further authorizes all persons contacted by Seller for the purposes of determining Buyer's credit worthiness to disclose to Seller any credit and financial information concerning Buyer possessed by such person. All sales of Product (*defined on the reverse side hereof*) by Seller to Buyer, whether on credit or otherwise, shall be subject to the terms and conditions set forth herein and on the reverse side hereof.

SEE THE REVERSE SIDE FOR ADDITIONAL TERMS OF AGREEMENT.

The person executing this agreement on behalf Buyer represents and warrants that he or she is lawfully entitled so to do and that execution hereof by the undersigned will bind Buyer to the terms hereof.

 Signature of Owner or Officer:
 Date:

 Print Name:
 Title:

To induce Seller to agree to extend credit to Buyer or to otherwise sell Products to Buyer, the undersigned guarantor (hereinafter "Guarantor") hereby absolutely unconditionally guarantees payment of all sums owed by Buyer to Seller. Notice of acceptance of this guarantee, of non-payment, of nonperformance or the amount of indebtedness outstanding at any time, of protest, demand, or other remedy is expressly waived. The liability of Guarantor shall not be affected by any extension, modification, indulgence, compromise, settlement or variation of any term hereof or by the discharge or release of the obligation of the Buyer. Guarantor agrees to be bound to each and every term contained herein and on the reverse side hereof as if Guarantor and Buyer were the same person and further agrees to pay all costs of collection against Guarantor, including attorney fees, without relief from valuation and appraisement laws.

Signature of Guarantor:	 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 ontinue to provide any particular type of service. Seller may refuse to sell Products to Buyer at any time without cause or prior 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.

9. 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 (I) 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 uppied 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 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 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 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 DELIGATIONS 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 PARTY AGAINST WHOM SUCH 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.

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