



# STRUCTURAL SUPPORT PRODUCTS

MICROWAVE ANTENNA APPLICATION PRODUCT SELECTION GUIDE

2025

#### AS ANNOUNCED ON JULY 18, 2024,

Amphenol has acquired CommScope Outdoor Wireless Networks and Distributed Antenna Systems Businesses. Proudly, as part of the Amphenol family, we are still working on the completion of the new ANDREW website. All links contained within this guide currently lead to commscope.com.

At ANDREW, we could not be more excited about — or ready for — what's to come. Our customers can count on us to keep them at the forefront of connectivity-enabled technology, today and well into the future. Please contact your sales representative to stay up to date on future releases of this product selection guide.

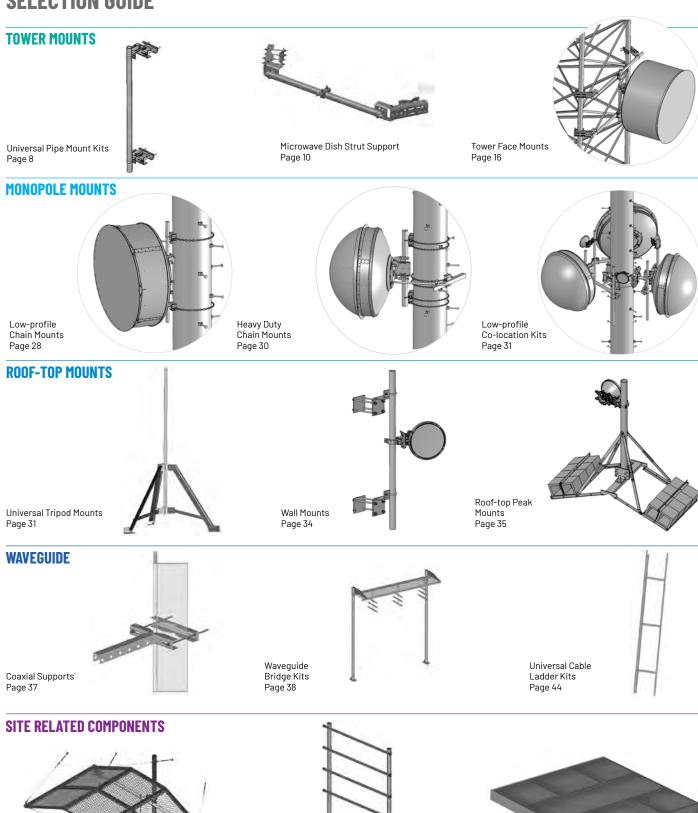
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#### **SELECTION GUIDE**

Microwave Antenna Ice Shields

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Power Telco Racks Page 45 Equipment Platforms

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# **TOWER MOUNTS**

- Tower leg mounting solutions
- Tower face mounting solutions

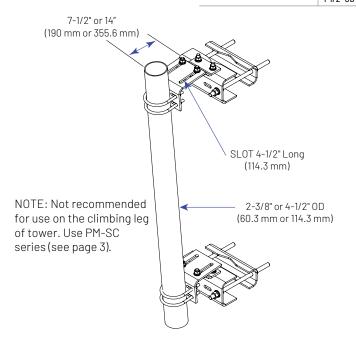
## **LEG MOUNTING SOLUTIONS**

UNIVERSAL	SLIDING PIPE MOUNT KITS	
Application:	Lattice towers	
Size:	2-3/8" (60.3 mm) 0D or 4-1/2" (114.3 mm) 0D	
Design:	Pipe with saddle mount and adjustable clamps	
Feature:	Universal sliding bracket with up to 7° of taper	
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle 60°, or 12" (304.8 mm) angle 90°	
Material:	Hot dip galvanized steel	
Includes:	Universal saddle mount, sliding pipe mount brackets, with or without pipe	
Order Separately:	Pipes for base kits	
Wind Ratina*:	120 mph (BWS) per latest revision of	

Wind Rating\*: 120 mph (BWS) per latest revision of ANSI/TIA-222 at 150' AGL

<sup>\*</sup> Typical installation of one 8' microwave antenna with strut/stiff arm

UNIVERSAL SLIDING PIPE MOUNT KITS			
MOUNTING	Pipes Included	Stand-off	Material ID
For Round or 60° Angle Legs	None		PM-SU2-B
up to 8" (203.2 mm) or 90° Angle Legs up to 6"	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	N/A	PM-SU2-72
(152.4 mm)	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		PM-SU2-96
	None		PM-SU2L-B
	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	14" (355.6 mm)	PM-SU2L-72
	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)	(000.0 11111)	PM-SU2L-96
	None		PM-SU4-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	N/A	PM-SU4-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)		PM-SU4-96
	None		PM-SU4L-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	14" (355.6 mm)	PM-SU4L-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)	(000.0 11111)	PM-SU4L-96
For Round or 60° Angle Legs	None		PML-SU2-B
up to 16" (406.4 mm) or 90° Angle Legs up to 12"	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	N/A	PML-SU2-72
(304.8 mm)	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		PML-SU2-96
	None		PML-SU2L-B
	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	14" (355.6 mm)	PML-SU2L-72
	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)	(00010 111111)	PML-SU2L-96
	None		PML-SU4-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	N/A	PML-SU4-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)		PML-SU4-96
	None		PML-SU4L-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	14" (355.6 mm)	PML-SU4L-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)	(	PML-SU4L-96



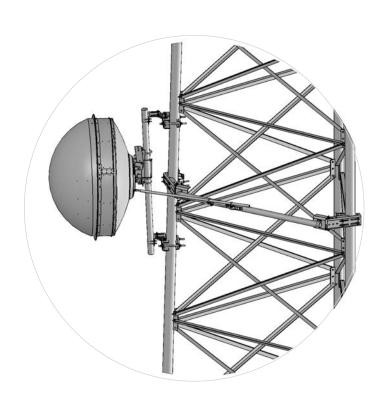


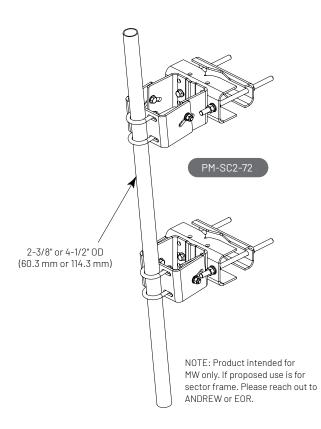
## **LEG MOUNTING SOLUTIONS**

UNIVERSAL F	PIPE MOUNT KITS		
Application:	Antenna leg mounting for round or angle towers		
Size:	2-3/8" (60.3 mm) 0D or 4-1/2" (114.3 mm) 0D		
Design:	Pipe with saddle mount and adjust- able clamps		
Feature:	Open face taper adjustment		
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle 60°, or 12" (304.8 mm) angle 90°		
Material:	Hot dip galvanized steel		
Includes:	Universal saddle mount, taper adjustment brackets, with or without pipe		
Order Separately:	Pipes for base kits		

Wind Rating\*: 120 mph (BWS) per latest revision of ANSI/TIA-222 at 150' AGL

Mounting	Pipes Included	Material ID
For Round or 60° Angle Legs up to 8" (203.2 mm) or	None	PM-SC2-B
90° Angle Legs up to 6" (152.4 mm)	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	PM-SC2-72
	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)	PM-SC2-96
	None	PM-SC4-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	PM-SC4-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)	PM-SC4-96
For Round or 60° Angle Legs up to 16" (406.4 mm)	None	PML-SC2-B
or 90° Angle Legs up to 12" (304.8 mm)	2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	PML-SC2-72
	2-3/8" OD x 96" (60.3 mm OD x 2.4 m)	PML-SC2-96
	None	PML-SC4-B
	4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	PML-SC4-63
	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)	PML-SC4-96





<sup>\*</sup> Typical installation of one 8' microwave antenna with strut/stiff arm

## **LEG MOUNTING SOLUTIONS**

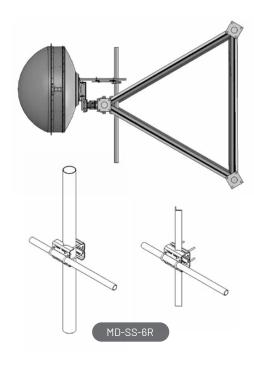
MICROWAVE DISH SUPPORT			
Application:	Structural strut supports for round or angle tower legs		
Size:	4', 6', 8', or 10' (1.2 m, 1.8 m, 2.4 m, or 3.1 m) Tower faces		
Design:	Round or angle strut support kits		
Feature:	Tower face strut support kits		
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle 60°, or 12" (304.8 mm) angle 90°		
Material:	Hot dip galvanized steel		

Mounting	Pipes Included	Material ID
For Round or 60° Angle Legs up to 8" (203.2 mm) or	6' (1.8 m)	MD-CS-6R
90° Angle Legs up to 6" (152.4 mm)	8' (2.4 m)	MDL-CS-8R
	10' (3.1 m)	MD-CS-10R
For Round or 60° Angle Legs up to 16" (406.4 mm) or	6' (1.8 m)	MDL-CS-6R
90° Angle Legs up to 12" (304.8 mm)	8' (2.4 m)	MDL-CS-8R
	10' (3.1 m)	MDL-CS-10R

#### TOWER LEG MOUNTED MICROWAVE DISH CHANNEL SUPPORT KIT

Mounting	Pipes Included	Material ID
For Round or 60° Angle Legs up to 8" (203.2 mm) or	6' (1.8 m)	MD-SS-6R
90° Angle Legs up to 6" (152.4 mm)	8' (2.4 m)	MD-SS-8R
For Round or 60° Angle Legs up to 16" (406.4 mm) or	6' (1.8 m)	MDL-SS-6R
90° Angle Legs up to 12" (304.8 mm)	8' (2.4 m)	MDL-SS-8R

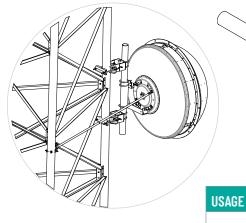
MICROWAVE DISH FACE STRUT SUPPORT			
Dimensions	Material ID		
3/8" x 3" x 5' 6" (9.5 mm x 76.2 mm x 76.2 mm x 1.7m)	MD-FSS		

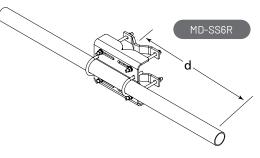




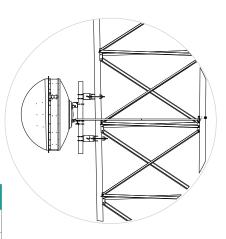
### **LEG MOUNTING SOLUTIONS**

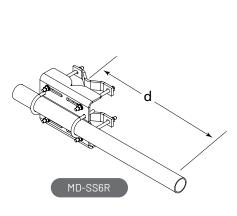
NOTE: It is assumed that a licensed and qualified structural engineer has reviewed the tower structure for the loads created by the microwave antennas and strut supports.

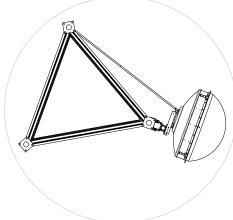


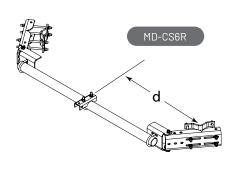


USAGE	MD-SS6R	MD-SS8R	MD-SS10R
Sa	ddle Mount Attacl	ned in Center of P	ipe
Max. distance from leg (d)	36"	48"	60"
Acceptable Load	2500 lb	2000 lb	1500 lb





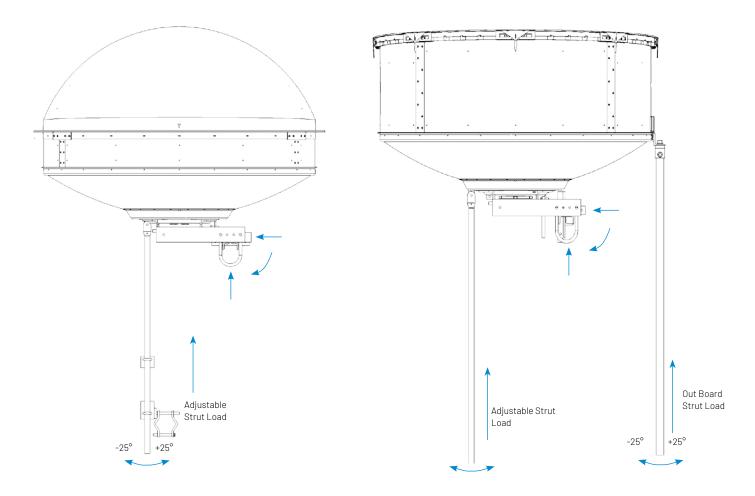




USAGE	MD-SS6R	MD-SS8R	MD-SS10R
Saddle Mount Attached at One End of Pipe			
Max. distance from leg (d)	60"	84"	108"
Acceptable Load	1500 lb	1000 lb	500 lb

USAGE	MD-CS6R	MD-CS8R	MD-CS10R
Pipe <i>l</i>	Attached at Each	End to Tower Leg	Mount
Max. distance from legs (d)	36"	48"	60"
Acceptable Load	2500 lb	2500 lb	2500 lb

#### **LEG MOUNTING SOLUTIONS**



SIZE FT. (M)	ADJUSTABLE STRUT FORCE, LB (N)	FIXED STRUT FORCE, LB (N)
4 (1.2)	500 (2200)	-
6 (1.8)	1400 (9207)	_
8 (2.4)	958 (4261)	1265 (5627)
10 (3.0)	1320 (5871)	1987 (8838)
12 (3.7)	1799 (8001)	2585 (11498)

A 4' dish strut/stiff arm can see in survival winds up to 600 lbs. of load, and in working load wind conditions the mount cannot flex or deflect more than 0.1". A six foot dish strut/stiff arm can see in survival winds up to 1400 lbs of load, and in working load wind conditions the mount cannot flex or deflect more than 0.1". In addition this arm must have a horizontal angle of less than  $25^{\circ}$  and less than  $5^{\circ}$  in the vertical direction."

(Illustration on Page <u>25</u>)

### **LEG MOUNTING SOLUTIONS**

MICROWAVE STRUT SUPPORT			
Application:	Structural strut supports for round or angle tower legs		
Size:	21" (533.4 mm) channel		
Design:	Universal support bracket		
Feature:	Universal strut attachment		
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle $60^\circ$ , or 12" (304.8 mm) angle $90^\circ$		
Material:	Hot dip galvanized steel		
Includes:	Support bracket, attachment hardware		
Order Separately:	Microwave strut pipe or angle, u-bolt		

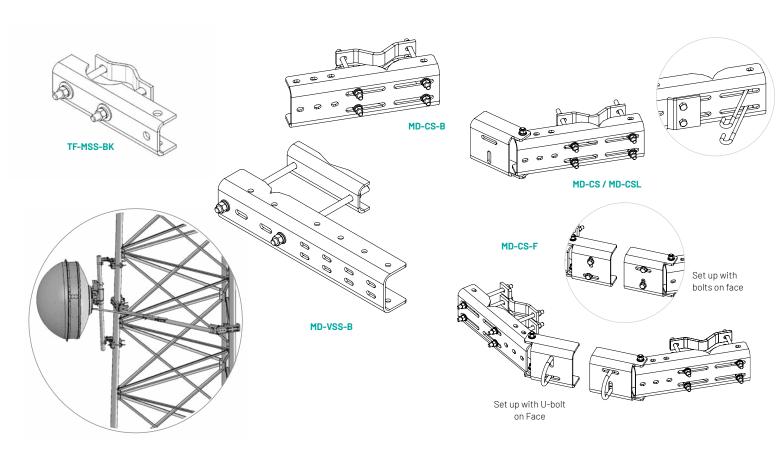
MICROWAVE STRUT ATTACHMENT BRACKET				
Pipe Compatibility	Material ID			
For 2-3/8" (60.3 mm) OD Pipe	TF-MSS-BK2			
For 3-1/2" (88.9 mm) OD Pipe	TF-MSS-BK			
For 4-1/2" (114.3 mm) OD Pipe	TF-MSS-BK45			

TF-MSS-BK-U

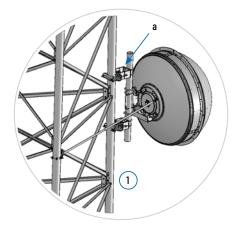
For 2-3/8"- 3-1/2" ( (60.3 -88.9 mm)

OD Pipe

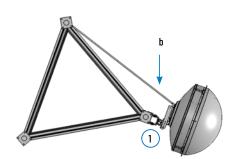
Mounting	Pipes Compatibility	<b>Material ID</b>	
For Round or 60° Angle Legs up to 8"	Universal - for Mounting up to 3-1/2" (88.9 mm) pipes	MD-CS	
(203.2 mm) or 90° Angle Legs up to 6" (152.4 mm)	Universal - for Mounting up to 4-1/2" (114.3 mm) pipes	MD-CSL	
ou Aligie Legs up to 0 (132.4 lillil)	Face Mounted (Kit of 2) - for Mounting up to 3-1/2" (88.9 mm) pipes	MD-CS-F	
	Face Mounted (Kit of 2) - for Mounting up to 3-1/2" (88.9 mm) pipes	MD-CS-B	
For Round or 60° Angle Legs up to 16"	Universal - for Mounting up to 3-1/2" (88.9 mm) pipes	MDL-CS	
106.4 mm) or 0° Angle Legs up to 12" (304.8 mm)	Universal - for Mounting up to 4-1/2" (114.3 mm) pipes	MDL-CSL	
00 7.11glo 20g0 up to 12 (00 110 11111)	Face Mounted (Kit of 2) - for Mounting up to 3-1/2" (88.9 mm) pipes	MDL-CS-F	
	Face Mounted (Kit of 2) - for Mounting up to 3-1/2" (88.9 mm) pipes	MDL-CS-B	
Microwave Dish Strut Vertical Support Bracket		MD-VSS-B	
Tie Back Support Angle -3/8" x 4" x 4" x 48"		MD-CSA4	
Tie Back Support Angle - 3/8" x 4" x 4" x 72"		MD-CSA6	
Tie Back Support Angle -3/8" x 4" x 4" x 96"		MD-CSA8	

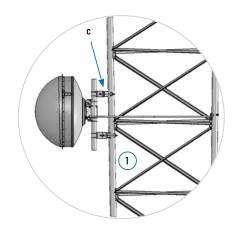


#### **APPLICATION GUIDE**



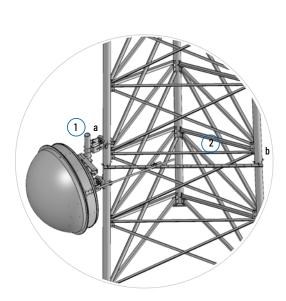
- a. Open face allows safety climb to pass through
- b. Strut returns back to tower at recommended angle c. Taper adjustment allows for vertical mounting solution



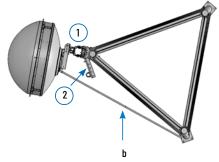


Key	Part Number Description		Page #
1	PM-SC4-63	Universal Pipe Mount Kit With Open Face	<u>5</u>
2	MD-VSS	Microwave Dish Vertical Strut Support	<u>9</u>
3	MD-FSS	Microwave Dish Face Strut Support	<u>6</u>

<sup>\*</sup> Shown with ANDREW antennas and supports

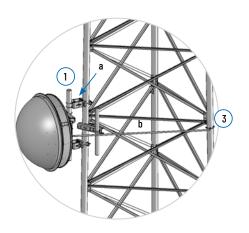


IMPORTANT TO KNOW: A competent and trained person should always inspect the safety guide on every tower before use.

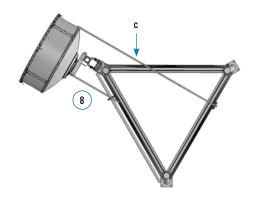


- a. Sliding taper brackets allow for 7° of non-incremental adjustment
- b. Strut returns straight back to tower

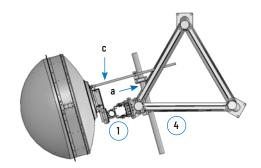
Note: Universal saddle mounts up to 8" (203.2 mm) dia. straight or taper legs

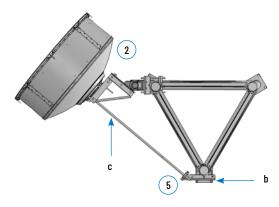


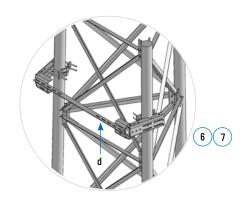
#### **APPLICATION GUIDE**



- a. MD-SS-6R Provides strut support for offset single leg attachments
- b. MD-CS-B Universal strut support for round or angle legs
- c. Strut returns straight back to tower at
- recommended angle
  d. MD-CS-F Will allow MD-CSA6 to attach to tower face with universal attachment brackets

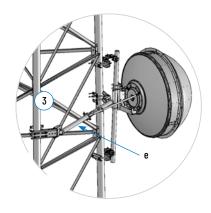


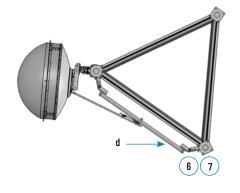




Key	Part Number	Description	Page #
1	PM-SC4-63	Universal Pipe Mount Kit With Open Face	9
2	PM-SU4-63	Universal Pipe Mount Kit	<u>4</u>
3	MD-CS-6R	Tower Face Mounted Dish Strut Support Kit	<u>6</u>
4	MD-SS-6R	Tower Leg Mounted Dish Strut Support Kit	<u>6</u>
5	MD-CS-B	Microwave Dish Strut Support Bracket	9
6	MD-CS-F	Tower Face Mounted Dish Strut Support Kit	9
7	MD-CSA6	Microwave Dish Strut Support Angle	9
8	TF-M3-8	Tower Face Mount with Dual Face Support	<u>12</u>

<sup>\*</sup> Shown with ANDREW antennas and supports





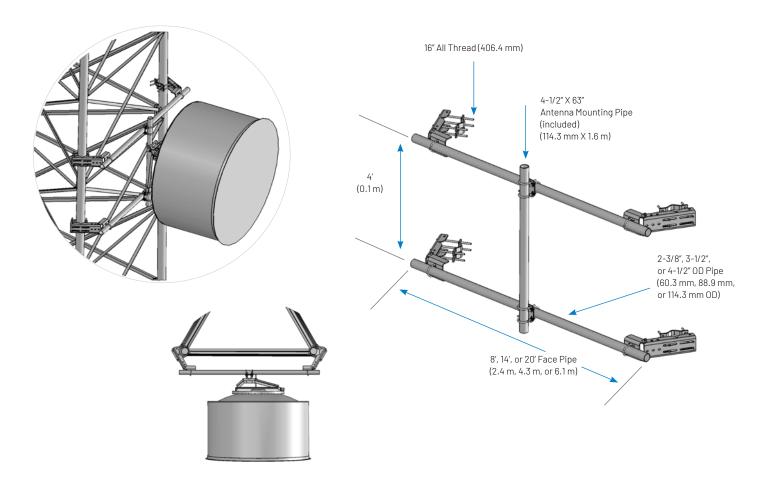
e. MD-CS-6R Provides strut support for the tower face with universal leg attachment brackets



## **FACE MOUNTING SOLUTIONS**

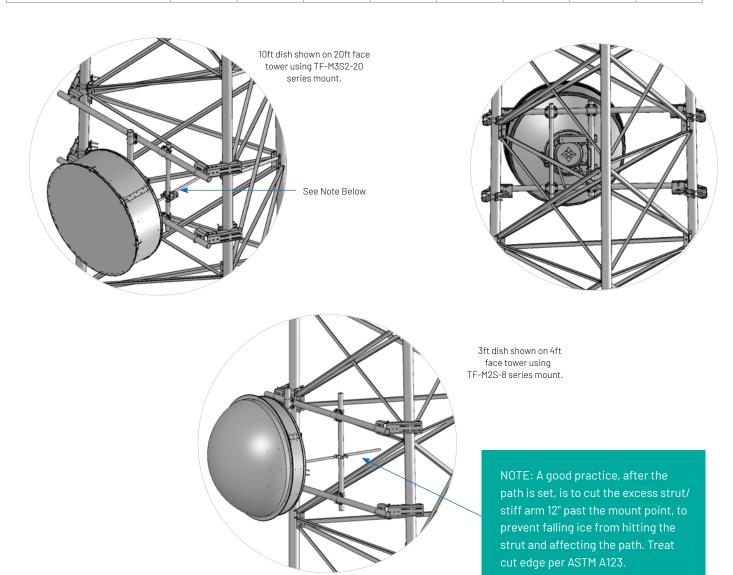
TOWER FACE MOUNTS				
Application:	Microwave antenna face mounting for round or angle, straight or tapered legs			
Size:	8' (2.4 m), 14' (4.2 m), or 20' (6.1 m) face widths			
Design:	Pipe with saddle mounts and adjustable clamps			
Feature:	Universal taper adjustment for up to 9° of taper with 48" of separation			
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle 60°, or 12" (304.8 mm) angle 90°			
Material:	Hot dip galvanized steel			
Includes:	Universal saddle mounts, slider brackets, pipe, crossover plates, hardware			
Order Separately:	Strut support kits, stand-off brackets			

MOUNTING	Face Support Dimensions	Pipe Included	Material ID
For Round or 60° Angle Legs	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)		TF-M2-8
up to 8" (203.2 mm) or 90° Angle Legs up to 6" (152.4	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)		TF-M2-14
mm)	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		TF-M2-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	4-1/2" OD x 63"	TF-M3-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(114.3 mm OD x 1.6 m) Antenna Pipe	TF-M3-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)		TF-M3-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)		TF-M4-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)		TF-M4-14
For Round or 60° Angle Legs	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)		TFL-M2-8
up to 16" (406.4 mm) or 90° Angle Legs up to 12"	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)		TFL-M2-14
(304.8 mm)	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		TFL-M2-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	4-1/2" OD x 63"	TFL-M3-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(114.3 mm OD x 1.6 m) Antenna Pipe	TFL-M3-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)	•	TFL-M3-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)		TFL-M4-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)		TFL-M4-14



## **FACE MOUNTING SOLUTIONS**

MICROWAVE				TOWER FA	CE MOUNT			
ANTENNA DIAMETER	TF-M2-8	TF-M2-14	TF-M2-20	TF-M3-8	TF-M3-14	TF-M3-20	TF-M4-8	TF-M4-14
2' (0.6 m)	Х	Х	Х	Х	Х	Х	Х	X
4' (1.2 m)	Х	Х	Х	Х	Х	Х	Х	Х
6' (1.8 m)	Х	-	-	Х	Х	Х	Х	Х
8' (2.4 m)	-	-	-	Х	Х	Х	Х	Х
10' (3.1 m)	-	-	-	Х	Х	Х	Х	Х
12' (3.7 m)	-	-	-	Х	Х	-	Х	Х
15' (4.6 m)	-	-	-	-	-	-	Х	-

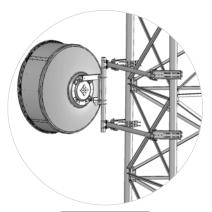


## **FACE MOUNTING SOLUTIONS**

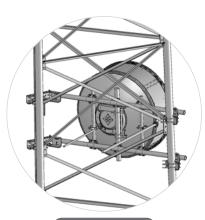
# FACE MOUNTS WITH SINGLE STRUT OR DUAL STRUT SUPPORT

DUAL STRUT	DUFFURI
Application:	Microwave antenna face mounting for round or angle, straight or tapered legs
Size:	8', 14', or 20' (2.4 m, 4.2 m, or 6.1 m) Face widths
Design:	Pipe with saddle mounts and adjustable clamps
Feature:	Universal taper adjustment for up to 9° of taper with 48" (1.2 m) of separation
Mounts to:	Straight or tapered legs up to 16" (406.4 mm) 0D, 16" (406.4 mm) angle 60°, or 12" (304.8 mm) angle 90°
Material:	Hot dip galvanized steel
includes:	Universal saddle mounts, slider brackets, pipe, crossover plates, tieback supports, hardware
Order Separately:	Stand-off brackets

Mounting	Face Support Dimensions	Strut Support Included	Pipe Included	Material ID
For Round or 60°	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)			TF-M2S-8
Angle Legs up to 8" (203.2 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)	Strut Support Included  Pipe Included  Variable (1.4 m x 60.3 mm 0D)  Variable (1.4 m x 88.9 mm 0D	TF-M2S-14	
90° Angle Legs up	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		/ 1/01/00 071	TF-M2S-20
to 6" (152.4 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)		=	TF-M3S-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(,		TF-M3S-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)			TF-M3S-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TF-M4S-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TF-M4S-14
For Round or 60°	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)			TFL-M2S-8
Angle Legs up to 16" 406.4 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)	One 2-3/8" x 63" (60.3 mm x 1.6 m) Strut Support  One 2-3/8" x 63" (60.3 mm x 1.6 m) Antenna Pipe  One 2-3/8" x 63" (60.3 mm x 1.6 m) Strut Support  One 2-3/8" x 63" (114.3 mm 0D x 63" (114.3 mm 0D x 1.6 m) Strut Support	TFL-M2S-14	
90° Angle Legs up	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		8" x 63" (114.3 mm 0D x 1.6 m) Antenna Pipe  8" x 63" (114.3 mm 0D x 1.6 m)	TFL-M2S-20
to 12" (304.8 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)			TFL-M3S-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)			TFL-M3S-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)			TFL-M3S-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TFL-M4S-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TFL-M4S-14



TF-M3S Series



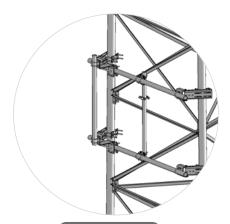
TFL-M3S2 Series

#### TOWER FACE MOUNTS WITH DUAL STRUT SUPPORT

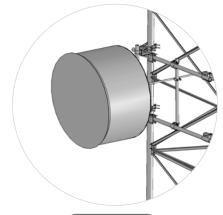
Mounting	Face Support Dimensions	Strut Support Included	Pipe Included	Material ID
For Round or $60^{\circ}$	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)		4-1/2" OD x 63" (114.3 mm OD x 1.6 m) Antenna Pipe 4-1/2" OD x 63" (114.3 mm OD x 1.6 m) Antenna Pipe	TF-M2S2-8
Angle Legs up to 8" (203.2 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)			TF-M2S2-14
90° Angle Legs up	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)			TF-M2S2-20
to 6" (152.4 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	Two 2-3/8" x 63"		TF-M3S2-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Support		TF-M3S2-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)		Antenna Pipe	TF-M3S2-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TF-M4S2-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TF-M4S2-14
For Round or $60^{\circ}$	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)		1.6 m) Antenna Pipe 4-1/2" OD x 63" (114.3 mm OD x 1.6 m)	TFL-M2S2-8
Angle Legs up to 16" (406.4 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)			TFL-M2S2-14
90° Angle Legs up	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)			TFL-M2S2-20
to 12" (304.8 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	Two 2-3/8" x 63"		TFL-M3S2-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Support		TFL-M3S2-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)			TFL-M3S2-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TFL-M4S2-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TFL-M4S2-14

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## **FACE MOUNTING SOLUTIONS**







TF-M	1 35	Series	
		oeries	

Mounting	Face Support Dimensions	Standoff	Pipe Included	Material ID
For Round or 60°	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)			TF-ML2-8
Angle Legs up to 8" (203.2 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)			TF-ML2-14
90° Angle Legs up to	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		/ 1/0II OD 07II	TF-ML2-20
6" (152.4 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	1/11/755 0) 06 4 -44	4-1/2" OD x 63" (114.3 mm OD x	TF-ML3-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	14" (355.6 mm) Stand-off	1.6 m) Antenna Pipe	TF-ML3-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)			TF-ML3-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TF-ML4-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TF-ML4-14
For Round or 60°	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)			TFL-ML2-8
Angle Legs up to 16" (406.4 mm) or	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)			TFL-ML2-14
90° Angle Legs up to	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)		4-1/2" OD x 63"	TFL-ML2-20
12" (304.8 mm)	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	14" (355.6 mm) Stand-off	(114.3 mm OD x	TFL-ML3-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	14 (300.0 11111) 5tand-011	1.6 m) Antenna Pipe	TFL-ML3-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)		Апсенна гіре	TFL-ML3-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TFL-ML4-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)			TFL-ML4-14

Mounting	Face Support Dimensions	Strut Support Included	Standoff	Pipe Included	Material ID
For Round or 60° Angle Legs up to 8"	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)				TF-ML2S-8
(203.2 mm) or 90° Angle Legs up to 6" (152.4 mm)	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)				TF-ML2S-14
7.111gio 20go ap 10 0 (102.711111)	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)			/ 1/01/05 071	TF-ML2S-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	One 2-3/8" x 63"	1/"/755 0 \ 04 4 - 44	4-1/2" OD x 63" (114.3 mm OD x	TF-ML3S-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Support	14" (355.6 mm) Stand-off	1.6 m) Antenna Pipe	TF-ML3S-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)				TF-ML3S-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)				TF-ML4S-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)				TF-ML4S-14
For Round or 60° Angle Legs up to 16"	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)			4-1/2" OD x 63" f (114.3 mm OD x 1.6 m) Antenna Pipe	TFL-ML2S-8
(406.4 mm) or 90° Angle Legs up to 12" (304.8 mm)	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)				TFL-ML2S-14
00 7.11910 2090 ap to 12 (00 1.0 11111)	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)				TFL-ML2S-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	One 2-3/8" x 63"	1/"/755 0 \ 04 4 - 44		TFL-ML3S-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Support	14" (355.6 mm) Stand-off		TFL-ML3S-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)				TFL-ML3S-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)				TFL-ML4S-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)				TFL-ML4S-14

### **FACE MOUNTING SOLUTIONS**

#### TOWER FACE MOUNTS WITH DUAL FACE SUPPORTS, 14" STANDOFF, & DUAL STRUT SUPPORT

Mounting	Face Support Dimensions	Strut Support Included	Standoff	Pipe Included	Material ID
For Round or 60° Angle Legs up to 8"	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)				TF-ML2S2-8
(203.2 mm) or 90° Angle Legs up to 6" (152.4 mm)	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)				TF-ML2S2-14
	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)			4-1/2" OD x 63"	TF-ML2S2-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	Two 2-3/8" x 63"	1/ " / 755 0 \ 04 1 - 44	(114.3 mm OD x	TF-ML3S2-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Supports	14" (355.6 mm) Stand-off	1.6 m) Antenna Pipe	TF-ML3S2-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)				TF-ML3S2-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)			TF-ML4S2-8	
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)				TF-ML4S2-14
For Round or 60° Angle Legs up to 16"	8' x 2-3/8" OD (2.4 m x 60.3 mm OD)		W/755 0 10 1 16	4-1/2" OD x 63" ; (114.3 mm OD x 1.6 m) Antenna Pipe	TFL-ML2S2-8
(406.4 mm) or 90° Angle Legs up to 12" (304.8 mm)	14' x 2-3/8" OD (4.3 m x 60.3 mm OD)				TFL-ML2S2-14
30 Angle Legs up to 12 (304.6 mm)	20' x 2-3/8" OD (6.1 m x 60.3 mm OD)				TFL-ML2S2-20
	8' x 3-1/2" OD (2.4 m x 88.9 mm OD)	Two 2-3/8" x 63"			TFL-ML3S2-8
	14' x 3-1/2" OD (4.3 m x 88.9 mm OD)	(60.3 mm x 1.6 m) Strut Supports	14" (355.6 mm) Stand-off		TFL-ML3S2-14
	20' x 3-1/2" OD (6.1 m x 88.9 mm OD)				TFL-ML3S2-20
	8' x 4-1/2" OD (2.4 m x 114.3 mm OD)				TFL-ML4S2-8
	14' x 4-1/2" OD (4.3 m x 114.3 mm OD)				TFL-ML4S2-14

#### TOWER FACE MOUNT STRUT SUPPORT KITS

	modern of the control of the control
Application:	Support for mounting strut of TF-M series face mount
Size:	Three versions
Design:	Pipe with crossover plates
Feature:	Can be adjusted to mount anywhere on tower face mount
Mounts to:	Tower face mount kits
Material:	Hot dip galvanized steel
Includes:	Plates, strut support, hardware, pipe
Order Separately:	Tower face mount kit

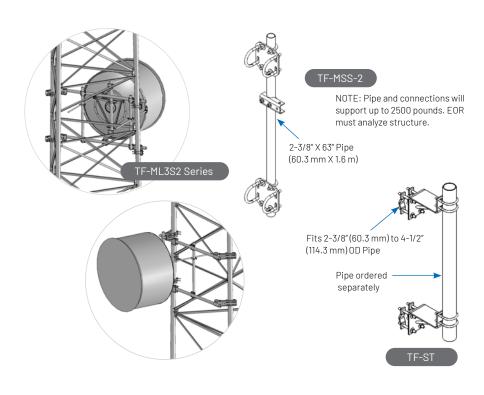
#### TOWER FACE MOUNT STAND-OFF BRACKET

Application:	Support for standing microwave antenna off of TF-M series face mount
Size:	4-1/2" (114.3 mm) OD
Design:	4-1/2" (114.3 mm) OD pipe mount stand-off
Feature:	14" (355.6 mm) stand-off
Mounts to:	Tower face mount kits
Material:	Hot dip galvanized steel
Includes:	Stand-off, attachment hardware
Order Separately:	Tower face mount kit

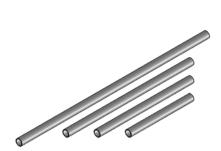
#### TOWER FACE MOUNT STAND-OFF BRACKET

Mounting	Stand-off	Material ID
2-3/8" (60.3 mm) to 4-1/2" (114.3 mm) OD Pipe	14" (355.6 mm) Stand-off	TF-ST

TOWER FACE MOUNT STRUT SUPPORT KITS			
Mounting	Pipe Included	Material ID	
2-3/8" OD x 2-3/8" OD (60.3 mm x 60.3 mm)		TF-MSS-2	
For Round or 60° Angle Legs up to 16" (406.4 mm) or 90° Angle Legs up to 12" (304.8 mm)	One 2-3/8" x 63" (60.3 mm x 1.6 m)	TF-MSS-3	
Microwave Dish Strut Vertical Support Bracket	Pipe	TF-MSS-4	



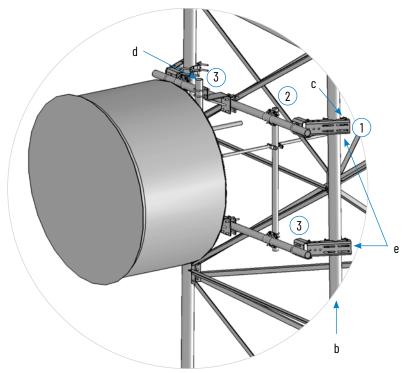
## **FACE MOUNTING SOLUTIONS**



Description	Pipe OD	Pipe Length	<b>Material Thickness</b>	Material ID
		24"	.120"	MT-648
		36"	.120"	MT-649
		48"	.120"	MT-650
		63"	.120"	MT-650-63
		96"	.154"	MT651096154
	2-3/8"	96"	.218"	MT651096218
		126"	.154"	MT651126154
		126"	.218"	MT651126218
		150"	.154"	MT651150154
		150"	.218"	MT651150218
		174"	.218"	MT651174218
		48"	.203"	MT-546-48
		84"	.120"	MT546084120
		84"	.203"	MT54684
		96"	.120"	MT54696120
	2-7/8"	96"	.203"	MT54696
		96"	.276"	MT546096276
		126"	.120"	MT546126120
		126"	.203"	MT-546-126
vanized Pipe ade A500C - 46 KSI		126"	.276"	MT546126276
10 100		150"	.120"	MT546150120
		150"	.203"	MT-546-150
		150"	.276"	MT546150276
		174"	.120"	MT546174120
		174"	.203"	MT-546-174
		174"	.276"	MT546174276
		72"	.165"	MT54772
		84"	.165"	MT54784
		96"	.165"	MT54796
	3-1/2"	126"	.165"	MT-547-126
		150"	.165"	MT21601
		160"	.165"	MF130165
		174"	.165"	MT-547-174
		48"	.188"	MT-653
		63"	.237"	MT-653-63
	4 4400	96"	.188"	MT-654-96
	4-1/2"	126"	.188"	MT-539
		150"	.188"	MT-654-150
		174"	.237"	MTC987205

NOTE: The length of pipe must be considered for the type of dish used and the loads from the dish and or the strut/stiff arm attached.

### **APPLICATION GUIDE**



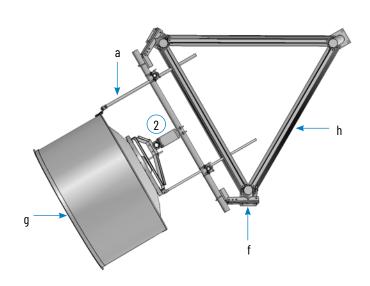
- a. Strut returns back to tower at recommended angle
- b. Tapered leg
  c. Channel supports adjust for inclination of tower leg taper
- d. True vertical antenna support
- e. Dual face support allows four point connection to structure

Note: Optional TF-ST allows greater work space and elliptical

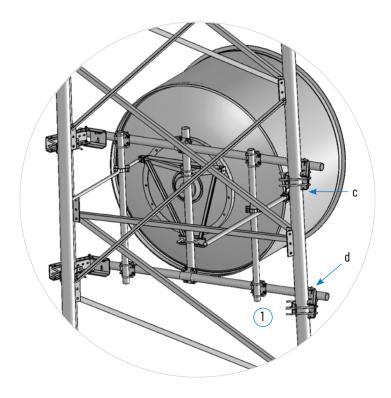
Key	Part Number	Description	Page #
1	TF-M3-14	Tower Face Mount With 14' (4.2 m) Face Pipes 3-1/2"0D (88.9 mm)	<u>12</u>
2	TF-ST	Tower Face Mount Stand-off Bracket	<u>16</u>
3	TF-MSS-3	Tower Face Mount Strut Support Kit 2-3/8" OD x 3-1/2" OD (60.3 mm x 88.9 mm)	<u>16</u>

<sup>\*</sup>Shown with ANDREW antennas and supports

f. 6"(152.4 mm) 60° Angle tower leg g. 8'(2.4 m) HSX8 series antenna and supports h. 10'(3.0 m) Tower face



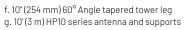
### **APPLICATION GUIDE**



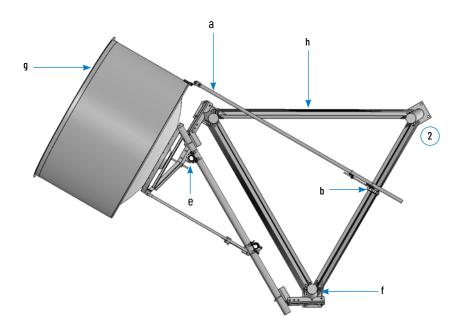
- a. Strut returns back to tower at recommended angle
- b. Optional strut attachment back to tower leg at recommended angle
  c. Strut attachment allows for vertical adjustment
- d. Universal saddle mounts up to up to 16" (406.4 mm) 0D straight or tapered legs
- e. Mount can be positioned along horizontal support for azimuth adjustment

Key	Part Number	Description	Page #
1	TFL-M3S2-14	Tower Face Mount Kit With 14' (4.2 m) Face Pipes 3-1/2"OD (88.9 mm) Kit Includes Two TF-MSS-3's	<u>14</u>
2	MD-CS-B	Microwave Dish Strut Support Bracket	<u>9</u>

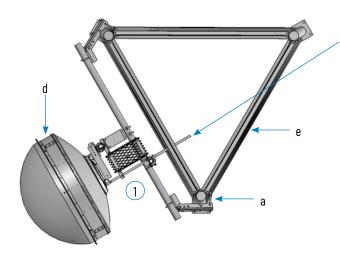
<sup>\*</sup> Shown with ANDREW antennas and supports



h. 12'(3.6 m) Tower face

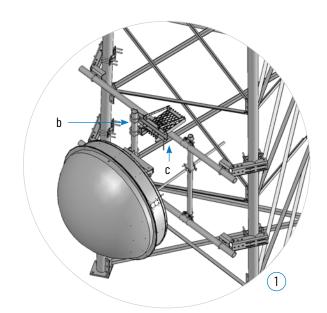


### **APPLICATION GUIDE**



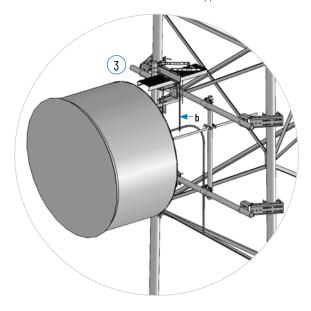
NOTE: A good practice, after the path is set, is to cut the excess strut/stiff arm 12" past the mount point, to prevent falling ice from hitting the strut and affecting the path. Treat cut edge per ASTM A123.

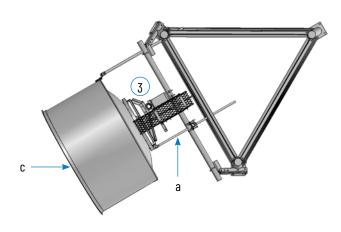
- a. 6"(152.4 mm)60° Tapered tower leg b. Mounts to existing 4-1/2" OD (114.3 mm) vertical pipe mount
- c. Offers multiple attachment points on grating
- d. 3'(1.0 m) Dish
- e. 6' (1.8 m) Tower face



Key	Part Number	Description	Page #
1	MD-IS2	Microwave Dish Cable Ice Shield	<u>22</u> , <u>44</u>
2	TF-M2S-8	Tower Face Mount Kit With 8' (2.4 m) Face Pipes 2-3/8" OD (60.3 mm) Kit Includes One TF-MSS-2	<u>14</u>
3	MD-IS4	Microwave Dish Cable Ice Shield	<u>22, 44</u>

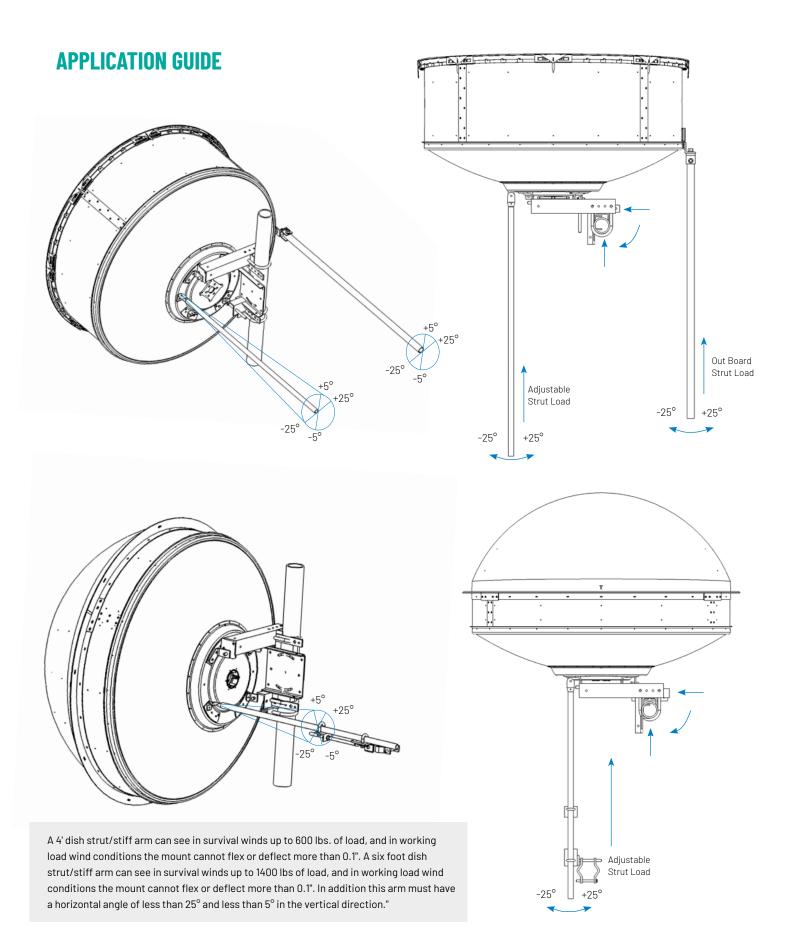
<sup>\*</sup> Shown with ANDREW antennas and supports





- a. Grating can be mounted at any azimuth to protect and follow elliptical waveguide b. Threaded support rod for elliptical waveguide c. 10'(3.0 m) HP series dish

- d. 6" (152.4 mm) 60° Tapered tower leg

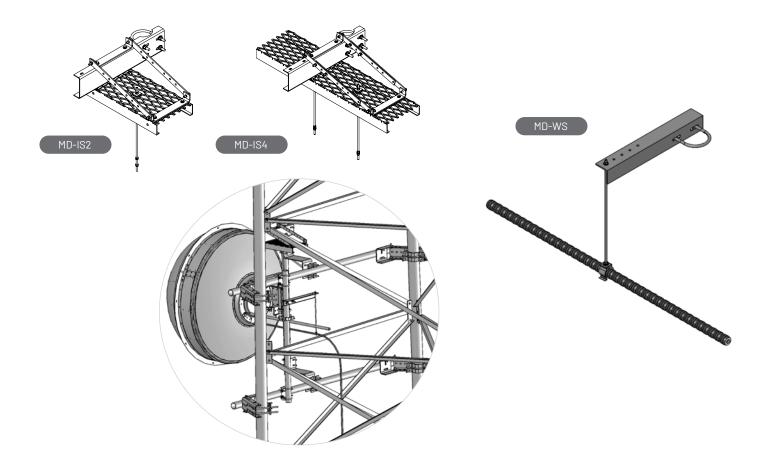


### **APPLICATION GUIDE**

MICROWAVE DISH WAVEGUIDE SHIELDS		
Application:	Waveguide protection for behind microwave antenna	
Size:	Three versions (see table)	
Design:	Support and protection for waveguide	
Feature:	Protects waveguide from falling debris	
Mounts to:	4-1/2" (114.3 mm) OD pipe	
Material:	Hot dip galvanized steel	
Includes: Ice shield and all attachment hardwar		
Order Separately:	Pipe mount	

Description	Material ID
12" x 24" (304.8 mm x 610 mm) Shield	MD-IS2
12" x 48" (304.8 mm x 1.2 m) Shield	MD-IS4
24" (610 mm) Angle	MD-WS

Waveguide shields are recommended to keep ice and other falling debris from damaging critical components behind the MW antenna.



NOTE: It is recommended that the EW line is supported every three feet in the horizontal and within 12" of the connector so there is no stress on the feed horn.



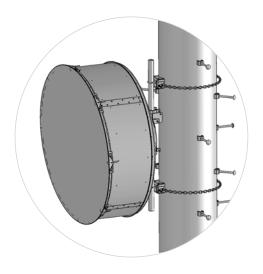
**MONOPOLE MOUNTS** 

- Low-profile chain mounts
- Light duty chain mounts
- Heavy duty chain mounts
- Microwave components

MONOPOLE MOUNTS PRODUCT SELECTION GUIDE

#### **LOW-PROFILE CHAIN MOUNTS**

LOW-PROFILE CHAIN MOUNTS				
Chain mount solution for mounting antennas or monopoles				
2-3/8" (60.3 mm) OD pipe mounts				
Single antenna chain mounts				
Universal, low-profile mount				
8" to 60" (203.2 mm to 1524 mm) OD				
Hot dip galvanized steel				
See description				





LOW-PROFILE CHAIN MOUNTS				
Mounting	Chain	Pipes Included	Stand-off	Material ID
8" to 30" (203.2 mm to 711.2 mm) 0D	8' (2.4 m) Chain	None		CM-30S-B
25" to 94.2" (635 mm to 2393 mm) Circumference		2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	N/A	CM-30S-72
		2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		CM-30S-96
		None		CML-30S-B
		2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	14" (355.6 mm)	CML-30S-72
		2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		CML-30S-96
8" to 60" (203.2 mm to 1524	16" (4.9 m) Chain	None		CM-60S-B
mm) 0D 25" to 188" (635 mm to 4785 mm) Circumference		2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	N/A	CM-60S-72
		2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		CM-60S-96
		None		CML-60S-B
		2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	14" (355.6 mm)	CML-60S-72
		2-3/8" OD x 96" (60.3 mm OD x 2.4 m)		CML-60S-96

Man Rating: 250 lb vertical man load at 15 mph (BWS)

Wind Rating\*: 120 mph (BWS) 1/2" radial ice at 100' AGL per latest revision of ANSI/TIA/EIA-222

NOTE 1: Low Profile Chain Mounts can be used with microwave antennas 3' and smaller.

NOTE 2: To avoid future maintenance issues, excess chain should be removed after final installation.

NOTE: Monopoles can sway due to wind loading. The amount of sway is dependent on the monopole design, antennas, and the wind speed. A typical 100 ft. monopole can sway 2-4 ft. during 90 mph wind conditions.

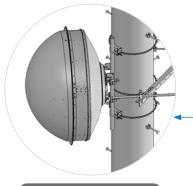
<sup>\*</sup> Typical installation of one 3'(1.0 m) microwave antenna per sector

**MONOPOLE MOUNTS** PRODUCT SELECTION GUIDE

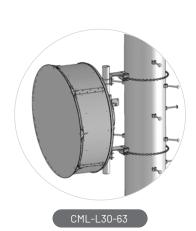
## **LOW-PROFILE CHAIN MOUNTS**

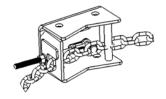
LIGHT DUTY CHAIN MOUNTS			
Application:	Chain mount solution for mounting antennas on monopoles		
Size:	4-1/2" (114.3 mm) OD pipe mounts		
Design:	Single antenna mount		
Feature:	Single chain support		
Mounts to:	8" to 60" (203.2 mm to 1.5 m) 0D		
Material:	Hot dip galvanized steel		
Includes:	Pipe mounts and chains		
Order Separately:	Strut/stiff arm and pipe mounts as needed		

LIGHT DUTY CHAIN MOUNTS				
Mounting	Chain	Pipes Included	Stand-off	Material ID
8" to 30" (203.2 mm to 711.2		None	N/A	CM-L30-B
mm) OD 25" to 94.2" (635 mm to 2393 mm) Circumference	8' (2.4 m) Chain	4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount		CM-L30-63
		None	14" (355.6 mm)	CML-L30-B
		4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount		CML-L30-63
8" to 60" (203.2 mm to 1524		None		CM-L60-B
mm) OD 25" to 188" (635 mm to 4785 mm) Circumference	16' (4.9 m)	4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount	N/A	CM-L60-63
	Chain	None	14" (355.6 mm)	CML-L60-B
		4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount		CML-L60-63

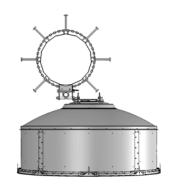


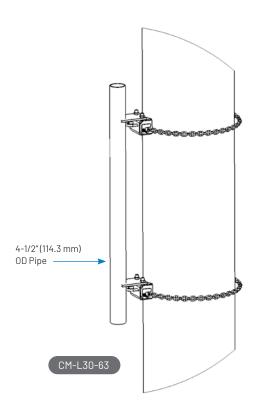
NOTE: Shown with 3'(1.0 m) microwave antenna





NOTE: Antenna should mount with load plane of dish as shown below





MONOPOLE MOUNTS PRODUCT SELECTION GUIDE

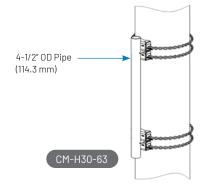
### **HEAVY DUTY CHAIN MOUNTS**

HEAVY DUTY CHAIN MOUNTS			
Application:	Chain mount solution for mounting antennas on monopoles		
Size:	4-1/2" (114.3 mm) OD pipe mounts		
Design:	Single antenna mount		
Feature:	Double chain support		
Mounts to:	8" to 60" (203.2 mm to 1.5 m) 0D		
Material:	Hot dip galvanized steel		
Includes:	Pipe mounts and chains		
Order Separately:	Strut/stiff arm and pipe mounts as needed		

HEAVY DUTY CHAIN MOUNTS			
Mounting	Chain	Pipes Included	Material ID
011 7011/007 0 1 711 0 1 0 0	8' (2.4 m) Chain	None	CM-H30-B
8" to 30" (203.2 mm to 711.2 mm) 0D 25" to 94.2" (635 mm to 2393 mm) Circumference		4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount	CM-H30-63
011.001/0070	16' (4.9 m) Chain	None	CM-H60-B
8" to 60" (203.2 mm to 1524 mm) 0D 25" to 188" (635 mm to 4785 mm) Circumference		4-1/2" OD x 63" (114.3 mm OD x 1.6 m) 90.64 (41.1) Pipe Mount	CM-H60-63



NOTE: Use Heavy Duty Chain Mounts for 3'(1 m) and larger microwave antennas



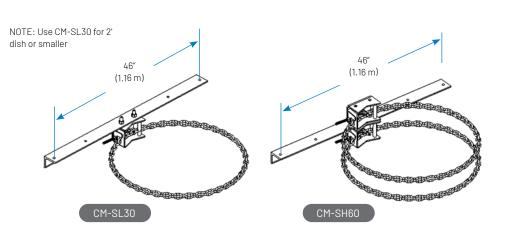
#### MONOPOLE STRUT/STIFF ARM MOUNTS

Application:	Chainmount solution for attaching struts on monopoles
Size:	48" (1.2 m) arm
Design:	Chain mounted support arm
Feature:	Adapts strut/stiff arm to monopole
Mounts to:	8" to 60" (203.2 mm to 1.5 m) OD
Material:	Hot dip galvanized steel
Includes:	Arm and chains
Order Separately:	Antenna chain mount and strut/ stiff arm



NOTE: Supports up to 1,000 lbs. load at end, or 2,000 lbs.  $10^\circ$  from end

MONOPOLE STIFF ARM/STRUT MOUNTS			
Mounting	Chain	Material ID	
8" to 30" (203.2 mm to 711.2 mm) 0D	Light Duty - Single 8' (2.4 m) Chain	CM-SL30	
25" to 94.2" (635 mm to 2393 mm) Circumference	Heavy Duty - Double 8' (2.4 m) Chain	CM-SH30	
" to 60" (203.2 mm to 1524 mm) 0D	Light Duty - Single 16' (4.9 m) Chain	CM-SL60	
25" to 188" (635 mm to 4785 mm) Circumference	Heavy Duty - Double 16' (4.9 m) Chain	CM-SH60	



MONOPOLE MOUNTS PRODUCT SELECTION GUIDE

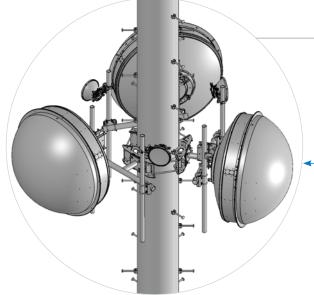
#### **MICROWAVE COMPONENTS**

#### LOW-PROFILE ADJUSTABLE CO-LOCATION KIT **Application:** Co-location kit for monopoles Size: 57" (1.4 m) face with 48" (1.2 m) separation Universal double antenna mount Design: Down tilt capabilities Feature: 12" to 50" (304.8 mm to 1.27 m) 0D monopoles Mounts to: **Material:** Hot dip galvanized steel Includes: Mount, weldment, hardware **Order** Available with or without pipe Separately:

LOW-PROFILE ADJUSTABLE CO-LOCATION KIT			
Mounting	Pipe Mount Size	Pipes Included	Material ID
		None	MC-DPM2M-6-B
		(6) 2-3/8" OD x 72" (60.3 mm OD x 1.8 m)	MC-DPM2M-6-72
	2-3/8" OD	(6) 2-3/8" OD x 96" (60.3 mm OD x 2.4 m)	MC-DPM2M-6-96
		(6) 2-3/8" OD x 126" (60.3 mm OD x 3.2 m)	MC-DPM2M-6-126
	2-7/8" OD	None	MC-DPM3M-6-B
12" to 50" (304.8 mm to		(6) 2-7/8" OD x 72" (73 mm OD x 1.8 m)	MC-DPM3M-6-72
1.27 m) OD Monopole		(6) 2-7/8" OD x 96" (73 mm OD x 2.4 m)	MC-DPM3M-6-96
		(6) 2-7/8" OD x 126" (73 mm OD x 3.2 m)	MC-DPM3M-6-126
		None	MC-DPM35M-6-B
	7 1/0   0 D	(6) 3-1/2"" OD x 72" (88.9 mm OD x 1.8 m)	MC-DPM35M-6-72
	3-1/2" OD	(6) 3-1/2"" OD x 96" (88.9 mm OD x 2.4 m)	MC-DPM35M-6-96

(6) 3-1/2"" OD x 126" (88.9 mm OD x 3.2 m)

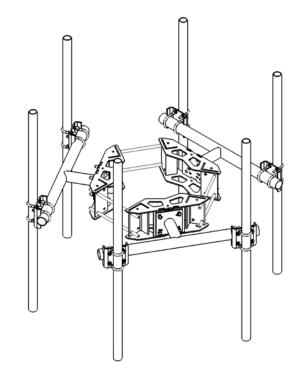
MC-DPM35M-6-126



NOTE: Shown with 3'(1 m) microwave antenna

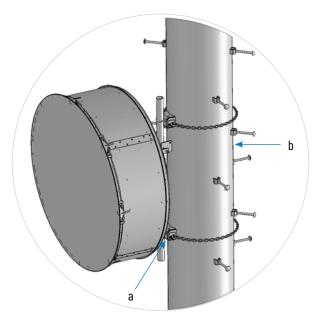
Man Rating: 250 lb vertical man load at 15 mph (BWS)

**Wind Rating\*:** 120 mph (BWS) per latest rrevision of ANSI/TIA/EIA-222 140 mph 3-second gust, Exposure "D" per FBC, at 150' AGL



**MONOPOLE MOUNTS** PRODUCT SELECTION GUIDE

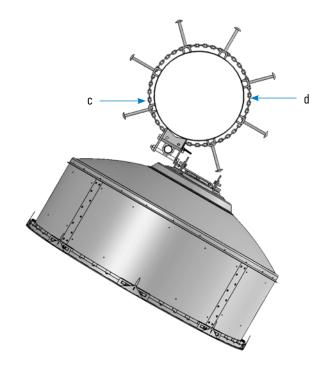
### **APPLICATION GUIDE**



Key	Part Number	Description	Page #
1	CM-30S-72	Low-profile Single Chain Mount Kit	<u>24</u>

<sup>\*</sup> Shown with ANDREW Antennas

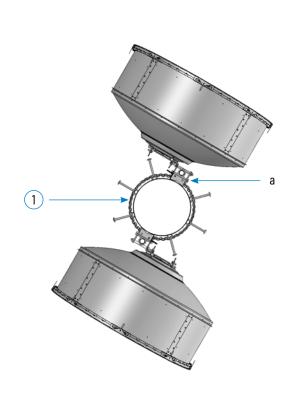
- a. Single point locking adjustment b. Mounts to both round and polygon poles
- c. Chain support offers 360° of azimuth adjustability
- d. Low-profile clearance allows for unobstructed climbing

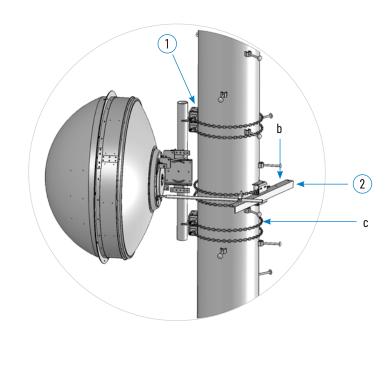


NOTE: It is recommended that the EW line is supported every three feet in the horizontal and within 12" of the connector so there is no stress on the feed horn.

**MONOPOLE MOUNTS** PRODUCT SELECTION GUIDE

## **APPLICATION GUIDE**

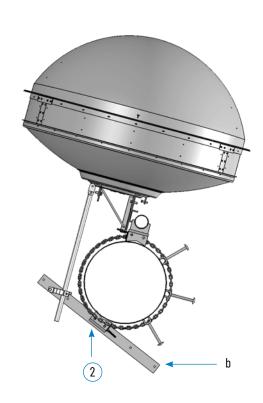




Key	Part Number	Description	Page #
1	CM-H30-63	Heavy Duty Chain Mount Kit	<u>26</u>
2	CM-SH30	Monopole Strut/Stiff Arm Mount Kit	<u>26</u>

<sup>\*</sup> Shown with ANDREW Antennas

- a. Sliding brackets allow for double supports at desired azimuth b. Strut/stiff arm mount provides strut support at recommended angle
- c. Dual chain supports for larger antenna





# **ROOF-TOP MOUNTS**

- Roof frames
- Mounting components
- Customs

ROOF-TOP MOUNTS PRODUCT SELECTION GUIDE

### **ROOF FRAMES**

UNIVERSAL TRIPOD MOUNTS		
Application:	Roof-top mounting for one antenna	
Size:	2-7/8" (73 mm), 3-1/2" (88.9 mm), or 4-1/2" (114.3 mm) OD	
Design:	Heavy duty tripod mount	
Feature:	Interchangeable base unit	
Material:	Hot dip galvanized steel	
Includes:	Mount, with or without pipe	
Order Separately:	Roof sled and pipe	



NON-PENETRATING ROOF BALLAST SLED
FOR TRIPODS

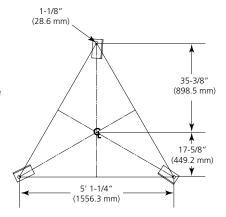
Application:	Non-penetrating solution for TP-G series mounts
Size:	87" (2.2 m) faces
Design:	Converts tripods to anon-penetrating
Feature:	Three ballast trays
Material:	Hot dip galvanized steel
Includes:	Sled only
Order Separately:	Tripod and rubber mats

NOTE: Ballast to be calculated by competent person

UNIVERSAL TRIPOD MOUNTS			
Description		Material ID	
	Base Only for 2-7/8" or 3-1/2" OD (73 mm or 88.9 mm OD), Pipe Ordered Separately	TP-G300-B	
2-7/8" or 3-1/2" OD (73 mm	2-7/8" OD x 96" (73 mm OD x 2.4 m)	TP-G300-96	
or 88.9 mm OD)	2-7/8" OD x 126" (73 mm OD x 3.2 m)	TP-G300-126	
	3-1/2" OD x 96" (88.9 mm 0D x 2.4 m)	TP-G312-96	
	3-1/2" OD x 126" (88.9 mm OD x 3.2 m)	TP-G312-126	
	Base Only for 4-1/2" OD (114.3 mm OD), Pipe Ordered Separately	TP-G412-B	
/ 1/0// OD /11/ 7 OD)	4-1/2" OD x 96" (114.3 mm OD x 2.4 m)	TP-G412-96	
4-1/2" OD (114.3 mm OD)	4-1/2" OD x 126" (114.3 mm OD x 3.2 m)	TP-G412-126	
	4-1/2" OD x 150" (114.3 mm OD x 3.8 m)	TP-G412-150	

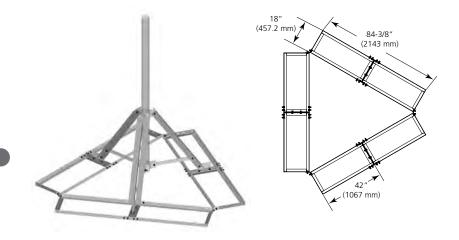
Wind Rating\*: 85 mph (BWS) per latest revision of ANSI/TIA/EIA-222 Exposure "C" per UBC, at 100' AGL

\* Typical installation of one 6' standard microwave antenna using 4-1/2" pipe mast. See Engineering Data Table for ballast



#### NON-PENETRATING ROOF BALLAST SLED FOR TRIPODS

Description	Material ID
Non-penetrating Roof Sled, Tripod Mount Ordered Separately	MT-416
Rubber Mat, 1/2" x 18" x 48" (13 mm x 457 mm x 1219 mm), Six Mats Required for Ballast Tray	MT-F1637



TP-G412-72 with MT-416

**ROOF-TOP MOUNTS** PRODUCT SELECTION GUIDE

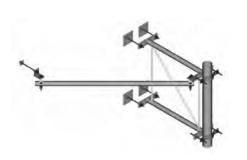
## **ROOF FRAMES**

ROOF-TOP 1 pplication:	Single antenna mount for roof tons	Description	llaimht	MatarialID
piicauon:	Single antenna mount for roof-tops	Description	Height	Material ID
sign:	Spliced center pole with angle kicker legs	Roof-top Monopole Tripod Assembly	3 Meter (9'-9") Mast	RT-MPT-3
ure:	Splice vertical post		4 Meter (13'-1") Mast	RT-MPT-4
ure: nts to:	Roof-top		5 Meter (16'-5") Mast	RT-MPT-5
rial:	Hot dip galvanized steel		6 Meter (19'-8") Mast	RT-MPT-6
ides:	Center post, kicker angles, hardware		7 Meter (22'-11") Mast	RT-MPT-7
	Some post moner angles, naturale	Roof-top Monopole Antenna Section	39-1/2" (1.0 m)	RT-MPT-B1
	1	No Step Pegs	78-1/2" (2.0 m)	RT-MPT-B2
		Roof-top Monopole Antenna Section With Step Pegs	78-1/2" (2.0 m)	RT-MPT-B2S
		Roof-Top Monopole Tripod Kit	For 157" (4.0 m) to 276-1/2" (7.0 m) Tall Monopole	RT-MPT-BT
			For 78-1/2" (2.0 m) Tall Monopole	RT-MPT-BT3
		Roof-Top Monopole Section Cover	N/A	RT-MPT-C
		Lightning Rod	39-1/2" (1.0 m)	LR-1M
RT-MF	рт-5		LR-1M  RT-MPT-C	)
RT-MF	PT-5			
RT-MF	77-5			

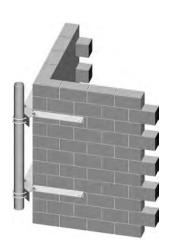
ROOF-TOP MOUNTS PRODUCT SELECTION GUIDE

## **MOUNTING COMPONENTS**

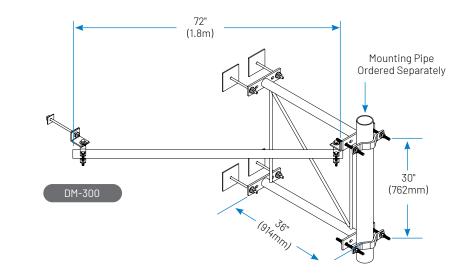
STAND-OFF WALL MOUNT		
Application:	3' Stand-off for wall mounting antennas	
Size:	36" (914.4 mm) stand-off	
Design:	Welded stand-off mount	
Feature:	Heavy duty for microwave antennas	
Mounts to:	Walls	
Material:	Hot dip galvanized steel	
Includes:	Bracket, strut/stiff-arm, and wall mount hardware	
Order Separately:	3-1/2" (88.9 mm) or 4-1/2" (114.3 mm) OD pipe	



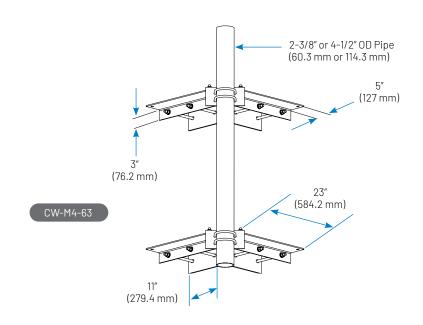
CORNER WALL MOUNTS		
Application:	Antenna mounting for corners of buildings	
Design:	V-shaped corner mount	
Feature:	Adjustable clamp spacing	
Mounts to:	Wall corners	
Material:	Hot dip galvanized steel	
Includes:	Two brackets, pipe mount, and wall mount hardware	



STAND-OFF WALL MOUNT				
Description	Pipes Included	Stand-off	Stiff Arm/Strut	Material ID
Stand-off Wall Mount for Solid & Hollow Walls	None - Pipe Ordered Separately	36" (914 mm),	72"(1.8 m) Stiff Arm	DM-300



CORNER WALL MO	UNT	
Description	Pipes Included	Material ID
	2-3/8" (60.3 mm) 0D x 63" (1.6 m) Pipe	CW-M2-63
Corner Wall Mount	2-3/8" (60.3 mm) OD x 96" (2.4 m) Pipe	CW-M2-96
	4-1/2" (114.3 mm) 0D x 63" (1.6 m) Pipe	CW-M4-63
	4-1/2" (114.3 mm) OD x 96" (2.4 m) Pipe	CW-M4-96

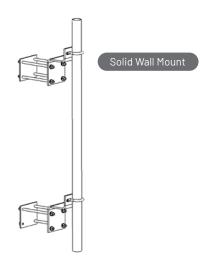


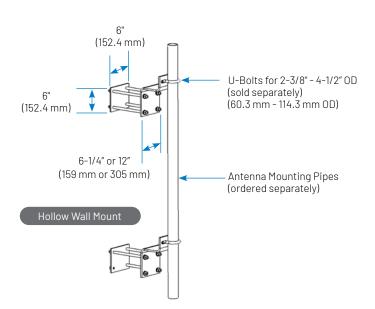
**ROOF-TOP MOUNTS** PRODUCT SELECTION GUIDE

### **MOUNTING COMPONENTS**

ADJUSTABLE WALL MOUNTS		
Application:	Mounting antennas on hollow or solid walls	
Size:	12" (304.8 mm) Square plate, 6-1/4" (158.75 mm) or 12" (304.8 mm) deep	
Design:	Welded dual brackets	
Feature:	Variable spacing flexibility	
Mounts to:	Versions for hollow or solid walls	
Material:	Hot dip galvanized steel	
Includes:	Two wall brackets and backing plates or anchors	
Order Separately:	U-bolts and 2-3/8" through 4-1/2" OD (60.3 mm through 114.3 mm) pipe	

Description	Material ID
Adjustable Wall Mounts, 6" (152.4 mm) Stand-off	
For Hollow Walls, Includes Backing Plates, Kit of 2	MT-221
For Solid Walls, Includes Wall Anchors, Kit of 2	MT-222
Adjustable Wall Mounts, 12" (305 mm) Stand-off	
For Hollow Walls, Includes Backing Plates, Kit of 2	MT-221L
For Solid Walls, Includes Wall Anchors, Kit of 2	MT-222L
Optional Backing Plate	
Backing Plate Kit, 12″ x 12″ (305 mm x 305 mm)	MT-223
Roof-top Microwave Dish Ballast Mount System	
Three 4.5" OD X 8' Supports with 3.5" OD Strut Support Member	RF-MW8-B





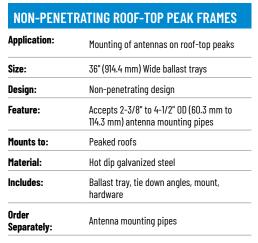
ROOF-TOP MOUNTS PRODUCT SELECTION GUIDE

#### **MOUNTING COMPONENTS**

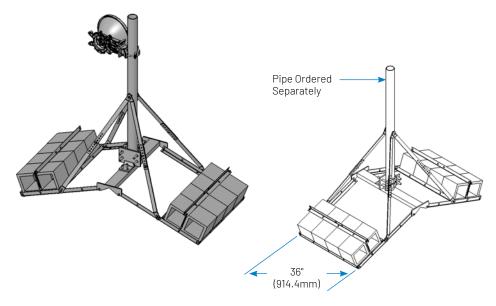


#### MICROWAVE MOUNTING COMPONENTS

Description	Material ID		
Roof-top Microwave Dish Ballast Mount System			
Three 4.5" OD X 8' Supports with 3.5" OD Strut Support Member	RF-MW8-B		









ROOFTOP PEAK FRAME				
Description	Pipes Included	Material ID		
Rooftop Peak Frame	None - Pipe Ordered Separately	RT-PM-B		



CUBE MOUNT		
Description	Pipes Included	Material ID
Roof Top Cube Mount Base Kit	None - Pipe Ordered Separately	RT-CUBE-MBASE



- Coaxial support components
- Waveguide bridge kits
- Cable ladder kits

## **COAXIAL SUPPORT COMPONENTS**

STAR SUPPORT BRACKETS	
Application:	Coaxial support on round or angle members
Size:	3/4" (19.1 mm) and 7/16" (11.1 mm) holes
Design:	Bolt together stand-off mount
Feature:	Six or twelve hole solution
Mounts to:	Round and angle members
Material:	Hot dip galvanized steel
Includes:	Bracket

# Description Material ID 1-1/2" to 5-9/16" OD (38.1 mm to 141.3 mm OD) Round Members and 2-1/2" to 5" (50.8 mm to 127 mm) Angle Members SS-TB2550 4" to 10-3/4" OD (101.6 mm to 273.1 mm OD) Round Members and 4" to 8" (101.6 mm to 203.2 mm) Angle Members SS-TB6080



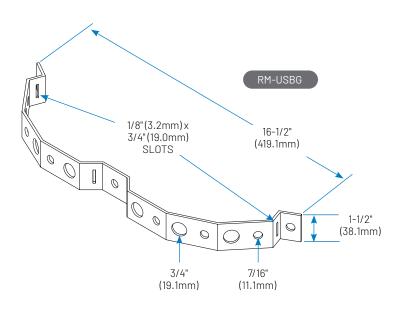
# UNIVERSAL ROUND MEMBER SUPPORT BRACKET

Application:	Coaxial support for monopoles
Size:	3/4" (19.1 mm) and 7/16" (11.1 mm) holes
Design:	Coaxial cable support for round members
Feature:	Ideal for co-location
Mounts to:	Round members
Material:	Hot dip galvanized steel
Includes:	Bracket
Order Separately:	Banding



#### UNIVERSAL ROUND MEMBER SUPPORT BRACKET

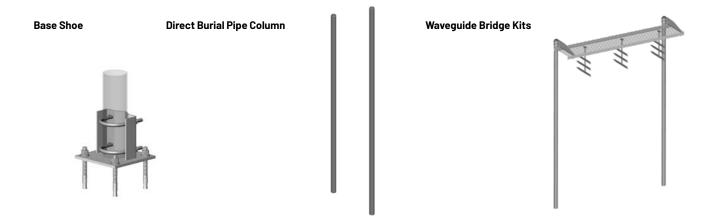
Description	Material ID
Universal Round Member Support Bracket for 6 Runs, Kit of 10	RM-USBG



**WAVEGUIDE** PRODUCT SELECTION GUIDE

# **COAXIAL SUPPORT COMPONENTS**

## **ORDERING INFORMATION**



DESCRIPTION	PART NUMBER	
Base Shoe		
For 3 1/2" OD Pipe, Hardware Included	WB-BS	
Direct Burial Pipe Column		
3 1/2" OD x 13' 4"	MF-130	
Waveguide Bridge Support Brackets		
24" Wide for 3 1/2" OD Legs	WB-LB24-3	
Safety Grated Waveguide Bridge Kits		
24" x 10' Bridge with (2) 15' 4" Direct Burial Posts	WB-K210-B15	
24" x 10' Bridge with (2) 13' 4" Direct Burial Posts	WB-K210-B	
24" x 10' Bridge with (4) 13' 4" Direct Burial Posts	WB-K410-B	
24" x 10' Bridge with (2) 10' 6" Base Shoe Posts	WB-K210-S	
Heavy Duty 12" x 10' Bridge with (2) 13' 4" Direct Burial Posts	WB-K110-B-HD	
Heavy Duty 12" x 10' Bridge with (2) 10' 6" Base Shoe Posts	WB-K110-S-HD	

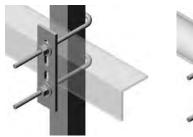
WAVEGUIDE PRODUCT SELECTION GUIDE

# **CABLE LADDER KITS**

## **ORDERING INFORMATION**

#### **Cable Ladder Kits**







DESCRIPTION	PART NUMBER
Cable Ladder Kits	
20" Wide, Six Hole Rung, 10 feet	CL-0610-U
20" Wide, Six Hole Rung, 20 feet	CL-0620-U
30" Wide, Nine Hole Rung, 10 feet	CL-0910-U
30" Wide, Nine Hole Rung, 20 feet	CL-0920-U
38" Wide, Twelve Hole Rung, 10 feet	CL-1210-U
38" Wide, Twelve Hole Rung, 20 feet	CL-1220-U



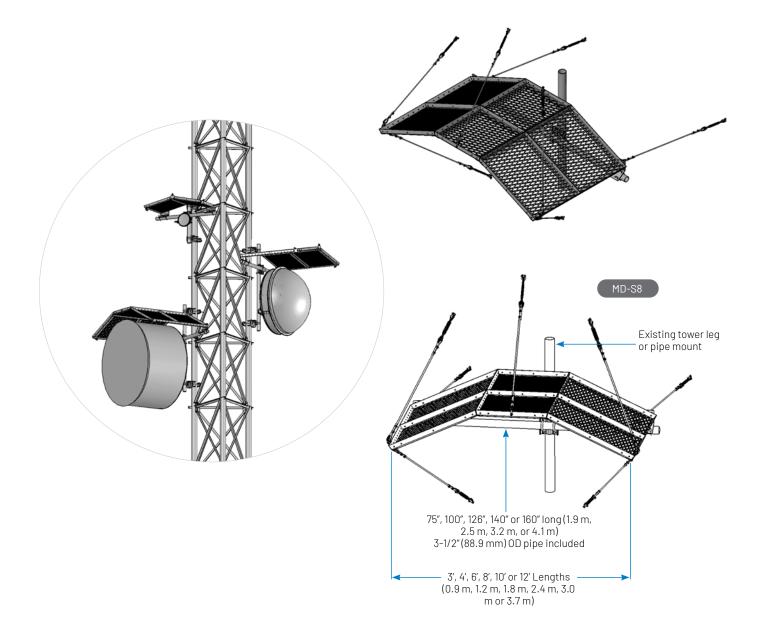
**SITE RELATED** 

- Microwave ice shields
- Microwave shield mounts
- Components
- Equipment platforms
- Ice and rain Canopies
- Handrail and step kits

# **MICROWAVE ICE SHIELDS**

MICROWAVE ANTENNA ICE SHIELD	
Application:	Protection microwave antenna from falling debris
Design:	Heavy duty
Feature:	Bolt together, light weight panels
Mounts to:	4-1/2" (114.3 mm) OD pipe
Material:	Hot dip galvanized steel
Includes:	Ice shield and all attachment hardware
Order Separately:	Pipe mount

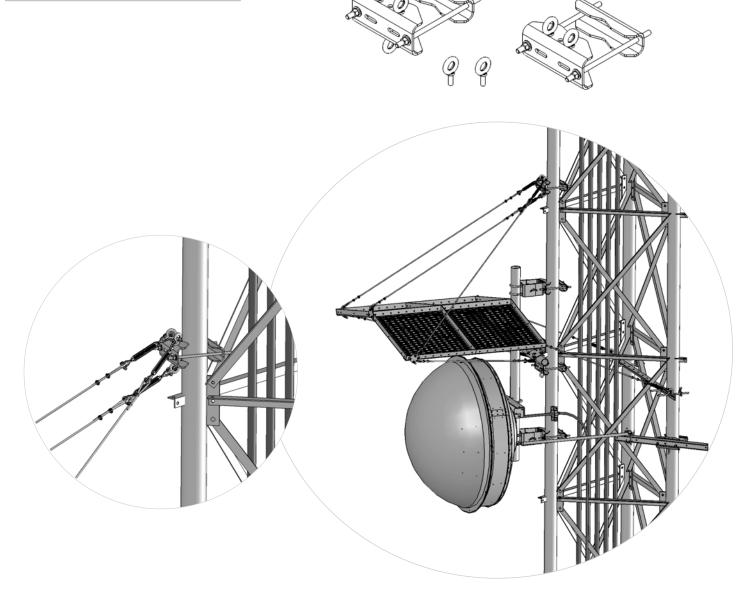
MICROWAVE ANTENNA ICE SHIELD		
Description	Antenna Size	Material ID
	3' (914.4 mm) Antenna	MD-S3
	4' (1.21 m) Antenna	MD-S4
M:	6' (1.8 m) Antenna	MD-S6
Microwave Antenna Ice Shield for mounting to 4-1/2" OD Pipe	8' (2.4 m) Antenna	MD-S8
	10' (3 m) Antenna	MD-S10
	12' (3.6 m) Antenna	MD-S12



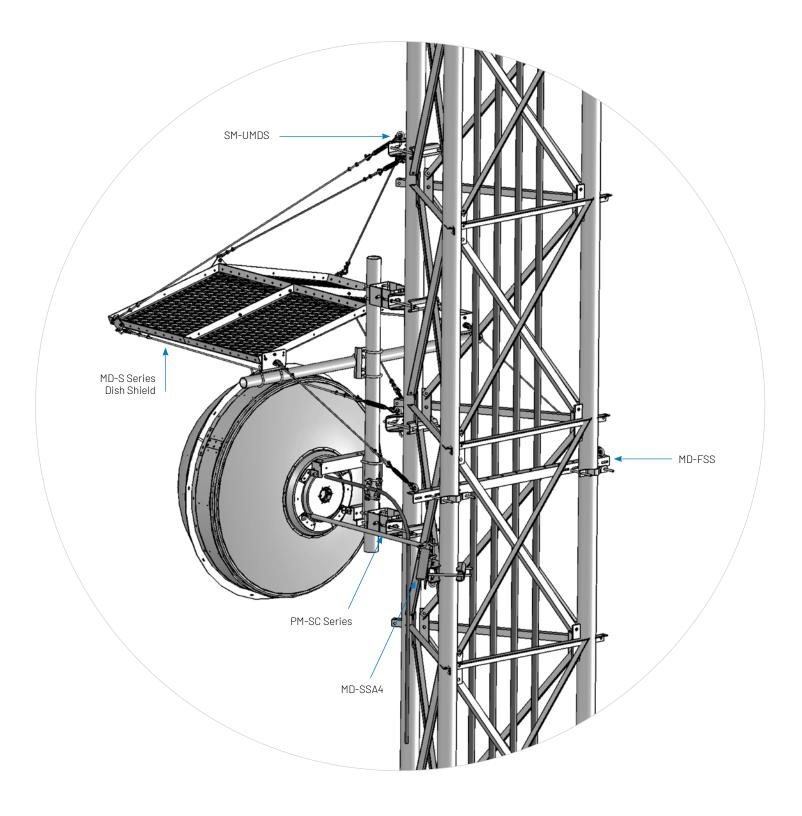
# **MICROWAVE SHIELD MOUNTS**

MICROWAVE SHIELD MOUNTS	
Application:	Lattice towers
Design:	Saddle mount and eye bolts
Feature:	Two piece formed saddles
Mounts to:	Straight or tapered legs up to 8-5/8" OD (219.1 mm 0D), 8" (203.2 mm) angle 60°, or 6" (152.4 mm) angle 90°
Material:	Hot dip galvanized steelf
Includes:	Universal saddle mount, eye bolts
Order Separately:	Microwave dish shield

MICROWAVE SHIELD MOUNTS	
Description	Material ID
Universal Saddle Mount for Attaching MD-S Guy Wire Supports. Includes Seven Eye Bolts	SM-UMDS
5/8" x 1-3/4" Shouldered Eye Bolt	GB-05SB



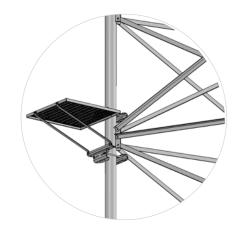
# **MICROWAVE SHIELD MOUNTS**



# **MICROWAVE ICE SHIELDS**

SQUARE ANTENNA ICE SHIELDS	
Application:	Protection from falling debris
Design:	Heavy duty
Feature:	Protects antenna from falling ice
Mounts to:	4-1/2" (114.3 mm) OD pipe
Material:	Hot dip galvanized steel
Includes:	Ice shield, mounting hardware
Order Separately:	4-1/2" (114.3 mm) OD pipe mount

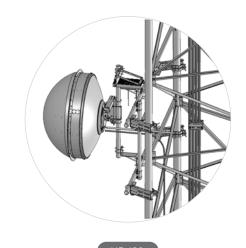
SQUARE ANTENNA ICE SHIELDS		
Description	Shield Size	Material ID
	2' (609.5 mm) Square	MD-SQ2
Square Antenna Ice Shield for mounting to 4-1/2" OD Pipe	3' (914.4 mm) Square	MD-SQ3
	4' (1.21 m) Square	MD-SQ4

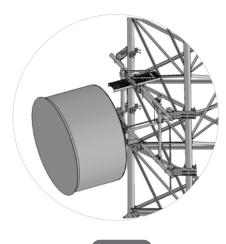


MICROWAVE DISH WAVEGUIDE SHIELDS		
Application:	Waveguide protection from falling debris	
Size:	Three versions (see table)	
Design:	Support and protection for waveguide	
Feature:	Protects waveguide from falling debris	
Mounts to:	4-1/2" (114.3 mm) OD pipe	
Material:	Hot dip galvanized steel	
Includes:	Ice shield and all attachment hardware	
Order Separately:	Pipe mount	

## **SQUARE ANTENNA ICE SHIELDS**

Description	Shield Size	Material ID
	12" x 24" (304.8 mm x 610 mm) Shield	MD-IS2
Waveguide Ice Shield for mounting to 4-1/2" OD Pipe	12" x 48" (304.8 mm x 1.2 m) Shield	MD-IS4
	24" (610 mm) Angle	MD-WS

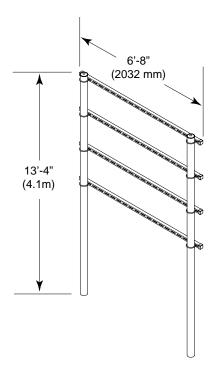




MD-IS4

# **COMPONENTS**

POWER TELCO RACKS		
Application:	Rack for mounting telco racks	
Design:	Two posts, unistrut	
Feature:	Burial posts or Base Shoes	
Material:	Hot dip galvanized steel	
Includes:	Posts, horizontal struts, mounting hardware	



Description	Number of Rungs	Material ID
	Two 80" (2 m) Rungs	PT-R102
With 13'-4" (4.1 m) Burial Posts	Three 80" (2 m) Rungs	PT-R103
	Four 80" (2 m) Rungs	PT-R104
10' x 10' with Base Shoes	Twelve 10' (3 m) Rungs	MTC3742
6' x 6' with Base Shoes	E' 5/45 \ \	MTC4045HF65
5' x 6 'with Base Shoes	Five 5' (1.5 m) Rungs	MTC4045HF55
5' x 6' with Base Shoes	F. 1. F./15 \ D	PT-S-0605-08
5' x 5' with Base Shoes	Eight 5' (1.5 m) Rungs	PT-S-0505-08
5' x 7' with Base Shoes & 5' of WGB	0. 5/45 75	RR-HFBS5
5' x 10' with Base Shoes & 5' of WGB	Six 5' (1.5 m) Rungs	RR-HFBP5



# **EQUIPMENT PLATFORMS**

ANDREW equipment platforms are delivered unassembled and erected on-site. They are designed to assemble quickly, easily and without the need for a cement pad. No permitting, no need for cement forms or rebar. No wasted time spent waiting for the pad to cure. Should cabling beneath the platform need to be moved, there is no need to dig up the pad and re-pour—simply re-route as needed.

The base equipment platform features grating, platform and all the hardware needed. A variety of options enable you to tailor the platform size, footings, canopy type and more to the requirements of the job. Additional add-ons—like power telco racks, handrails, steps and climbing ladders—let you create a flexible platform solution that can adapt to the specific needs of each site as the network and site requirements evolve.

To order, specify your desired length and width (in 2-ft increments), then select footing type per charts below:



#### STEP 1

PLATFORM WIDTH (2-FT. INCREMENTS, 26 FT. MAX)		
1	04	4 ft. (Minimum width)
1	26	26 ft. (Maximum width)

#### STEP 2

PLATFORM LENGTH (2-FT. INCREMENTS, 26 FT. MAX)		
	04	4 ft. (Minimum width)
2	26	26 ft. (Maximum width)

#### STEP 3

PLATFORM SUPPORT/FEET OPTION		
	В	No feet, base platform only
3	AL	Adjustable legs with side leg jack
	DF	Weight disbursement feet

<sup>\*</sup>Steps ordered separately to match elevation



# **ICE AND RAIN COMPONENTS**

Specifying the right ice or rain canopy is even easier. Use the format below to tell us the length and width you need and the type of footing you prefer.



#### STEP 1

CANOPY TYPE		
	IC	Ice Canopy
ı	RC	Rain Canopy

#### STEP 2

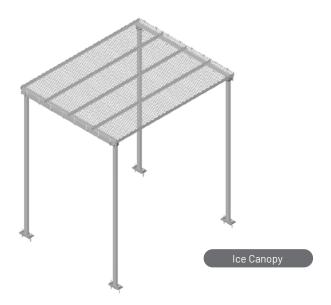
CANOPY LENGTH		
	06	6 ft.
2	08	8 ft.
	10	10 ft.

#### STEP 3

CANOPY WIDTH		
	10	10 ft.
3	12	12 ft.
	15	15 ft.

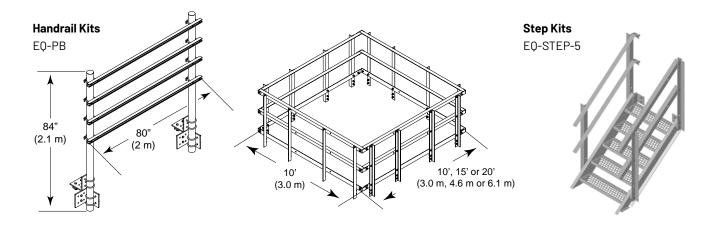
## STEP 4

CANOPY FOOTING		
B Dire		Direct burial posts, 13 ft. 4 in. tall
4	S	Base shoe pipes 10.5 ft. tall



# HANDRAIL AND STEP KITS

## **ORDERING INFORMATION**



DESCRIPTION	PART NUMBER
Handrail Kit for EQ-P Series Platforms	
For 10' x 10' (3 m x 3 m) Platform	EQ-HR1010
For 10' x 15' (3 m x 4.6 m) Platform	EQ-HR1015
For 10' x 20' (3 m x 6.1 m) Platform	EQ-HR1020
Ladder for EQ-P Series Platforms	
Climbing Ladder for EQ-P Series Platforms	EQ-LD
Step Kits for EQ-P Series Platforms	
Single Platform Step for EQ-P Series Platforms	EQ-STS
Double Step Kit for EQ-P Series Platforms	EQ-STEP-2
Triple Step Kit for EQ-P Series Platforms	EQ-STEP-3
Four Step Kit for EQ-P Series Platforms	EQ-STEP-4
Five Step Kit for EQ-P Series Platforms	EQ-STEP-5
Six Step Kit for EQ-P Series Platforms	EQ-STEP-6
Power Telco Rack Kit for EQ-P Series Platforms	
40" x 84" Round Post H-Frame with 4 Rungs, Mounts to EQ-P Platforms	EQ-PPC
Post Bracket Kit for Waveguide Bridge Attachment to EQ-P Series Platforms	
Mounts 3-1/2" (88.9 mm) 0D Pipe	EQ-PB
8' x 8' H-Frame with Square Posts & 4 Rungs, mounts to EQ-P Platforms	MTC3983



## **PIPE DIMENSIONS**

Pipe Size	OD (Inches)	OD (mm)
1/2"	0.84	21.34
3/4"	1.05	26.67
1"	1.32	33.40
1-1/4"	1.66	42.16
1-1/2"	1.90	48.26
2"	2.38	60.33
2-1/2"	2.88	73.03
3"	3.50	88.90
3-1/2"	4.00	101.60
4"	4.50	114.30
5"	5.56	141.30
6"	6.63	168.30
8"	8.63	219.08



## **STEEL THICKNESSES**

Gage         Thickness (Inches)         Thickness (mm           10         0.1345         3.416           11         0.1196         3.038           12         0.1046         2.657           13         0.0897         2.278           14         0.0747         1.897           15         0.0673         1.709           16         0.0598         1.519			
11     0.1196     3.038       12     0.1046     2.657       13     0.0897     2.278       14     0.0747     1.897       15     0.0673     1.709	Gage	Thickness (Inches)	Thickness (mm)
12 0.1046 2.657 13 0.0897 2.278 14 0.0747 1.897 15 0.0673 1.709	10	0.1345	3.416
13     0.0897     2.278       14     0.0747     1.897       15     0.0673     1.709	11	0.1196	3.038
14     0.0747     1.897       15     0.0673     1.709	12	0.1046	2.657
15 0.0673 1.709	13	0.0897	2.278
	14	0.0747	1.897
16 0.0598 1.519	15	0.0673	1.709
	16	0.0598	1.519



## **AWG WIRE SIZES**

	Stranded, OD (overall)		Solid, OD	
AWG Size	Inch	Millimeter	Inch	Millimeter
4/0	0.528	13.41	0.460	11.68
2/0	0.419	10.64	0.409	10.39
1/0	0.373	9.47	0.324	8.23
2	0.292	7.42	0.257	6.53
4	0.232	5.88	0.204	5.18
6	0.184	4.66	0.162	4.11
8	0.146	3.70	0.128	3.25
10	0.116	2.94	0.102	2.59



## FRACTION/DECIMAL/METRIC CHART

Inches Fraction	Inches Decimal	Millimeters
1/16	0.0625	1.6
1/8	0.1250	3.2
3/16	0.1875	4.8
1/4	0.2500	6.4
5/16	0.3125	7.9
3/8	0.3750	9.5
7/16	0.4375	11.1
1/2	0.5000	12.7
9/16	0.5625	14.3
5/8	0.6250	15.9
11/16	0.6875	17.5
3/4	0.7500	19.1
13/16	0.8125	20.6
7/8	0.8750	22.2
15/16	0.9375	23.8
Ī	1.0000	25.4

NOTE: Not applicable to coaxial cables



## **CONVERSION FACTORS**

Convert From	Convert To	Multiply By
Length		
foot(ft)	meter (m)	0.3048
inch(in)	meter (m)	0.0254
inch(in)	centimeter(cm)	2.5400
meter (m)	foot (ft)	3.2808
meter(m)	inch (in)	39.3700
centimeter(cm)	inch(in)	0.3937
millimeter (mm)	inch(in)	0.0393
Area		
square foot (ft²)	square meter (m²)	0.0929
square meter (m²)	square foot (ft²)	10.7639
Circle		
radius	diameter	2.0000
diameter	radius	0.5000
diameter	circumference	3.1416
radius	circumference	6.2832
Weight		
pound (lb)	kilogram (kg)	0.4536
kilogram (kg)	pound (lb)	2.2046

Since 1937, ANDREW, an Amphenol company, has driven the evolution of wireless technology. Trusted by mobile network operators and enterprises globally, we work closely with our customers to deliver innovative solutions that enhance connectivity experiences both outdoors and indoors. Our dedicated global team is committed to advancing the industry, fueled by the vision that a better-connected future is possible.

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