

Straight Square Steel Poles

Specifications

Description

The HAL Series Straight Square Steel poles are built from high strength steel tube and are available side drilled for arm mounted area lighting luminaires or with tenon mounts for flood and post top luminaires. Typical area lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 10 to 30 feet can be used based on selected luminaire application. (ACCESSORIES NEED TO PURCHASED SEPARATELY)

Features

FINISH:

Textured architectural bronze powder-coat finish, baked to ensure maximum paint adhesion, hardness and durability.

ANCHOR BOLTS:

Anchor Bolts & Positioning Plates are not included with Pole Kit Purchase. Anchor Bolt / Plate Kits are available for 10-25FT and 30FT poles for your convenience. These can be shipped in advance.

HAND HOLE:

Cast iron reinforced hand hole, with cast iron cover, gasket, screw and grounding hook.

BASE COVER:

Poles are provided with a two-piece formed steel base cover that is easily assembled and fitted over pole base. Included in Pole Kit.

POLE LENGTH:

Poles are available in standard lengths as shown in the order matrix. Poles can be custom cut to order. Consult factory.

SURFACE TREATMENT:

Hot-dip galvanizing.

Mounting Options

Side Mount:

Standard length poles are predrilled holes on 4 side, with a Tenon standard packaged on top. Also with hole plugs for unused predrilled locations.

Top Mount:

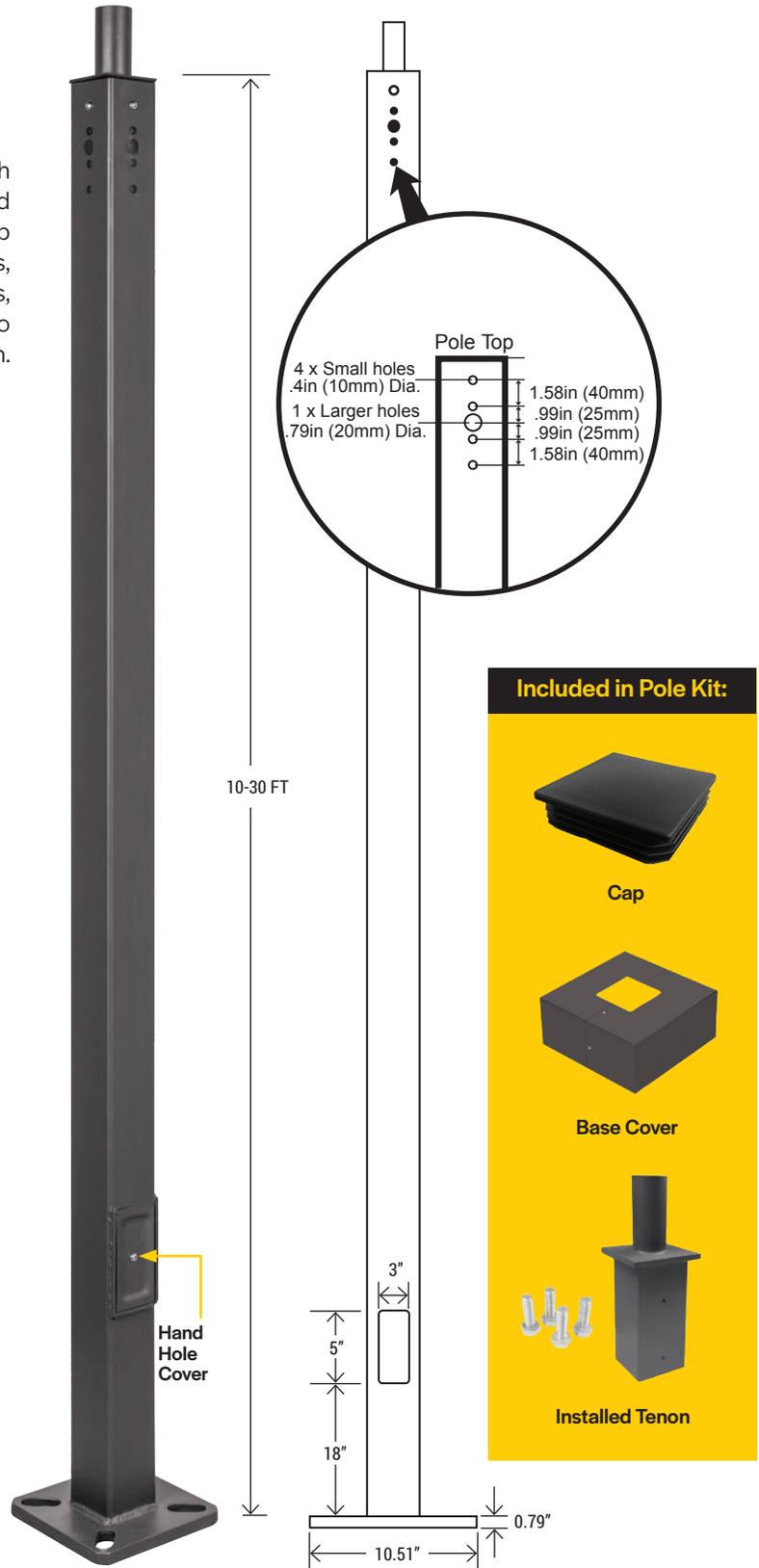
Installing ARM (optional) will need to take-off the Tenon standard package and put rain cover on top. Included in Pole Kit

Note:

When using Arm or Slip-Fitter Mounts, additional installation parts may be required to ensure proper installation. (example: with Slip-fitter a bullhorn will be the option)

see: additional installation parts for more options

- BASE COVER, HAND HOLE COVER, AND POLE CAP ARE INCLUDED WITH THE "KIT" POLE PURCHASE
- ASSOCIATED ANCHOR BOLTS & POSITION PLATE KITS SOLD SEPARATELY ALLOWING FOR EARLY SHIPMENT



Straight Square Steel Poles

Ordering Logic Example: HAL-4-SQS-25FT-11G-TD-BZ-KIT

Halco	Size	Shape & Material	Height	Wall Thickness	Mount	Finish	KIT
HAL - Halco	4 - (4" x 4")	SQS-Square Steel	10FT - (3.0 M)	11G - 11 Gauge	TD - Tenon & Drilled hole	BZ (Dark Bronze) S (Customer Color)*	KIT – Includes: <ul style="list-style-type: none"> • Pole with Tenon • Base Cover • Pole Cap • Hand Hole Cover
	5 - (5" x 5")		15FT - (4.6 M)				
			20FT - (6.1 M)				
			25FT - (7.6 M)				
			30FT - (9.1 M)				

Conforms to ASTM-A 500 Grade B: Minimum Yield Strength of 46,000 PSI.

*S- Customer Color Please
Contact Sales Representative

Ordering Information

Product SKU	Product Code	Product Description
741311	HAL-4-SQA-10FT-11G-TD-BZ-KIT	4in Square Steel Pole, 10 Ft, 11 GA, Universal Drill Pattern On All 4 Sides with Tenon Adapter, Handhold Cover (Screws and Plugs), Textured Architectural Dark Bronze Powder-Coat Finish with 4in Square Base Cover and Top Cap
741312	HAL-4-SQS-15FT-11G-TD-BZ-KIT	4in Square Steel Pole, 15 Ft, 11 GA, Universal Drill Pattern On All 4 Sides with Tenon Adapter, Handhold Cover (Screws and Plugs), Textured Architectural Dark Bronze Powder-Coat Finish with 4in Square Base Cover and Top Cap
741313	HAL-4-SQS-20FT-11G-TD-BZ-KIT	4in Square Steel Pole, 20 Ft, 11 GA, Universal Drill Pattern On All 4 Sides with Tenon Adapter, Handhold Cover (Screws and Plugs), Textured Architectural Dark Bronze Powder-Coat Finish with 4in Square Base Cover and Top Cap
741314	HAL-4-SQS-25FT-11G-TD-BZ-KIT	4in Square Steel Pole, 25 Ft, 11 GA, Universal Drill Pattern On All 4 Sides with Tenon Adapter, Handhold Cover (Screws and Plugs), Textured Architectural Dark Bronze Powder-Coat Finish with 4in Square Base Cover and Top Cap
741315	HAL-5-SQS-30FT-11G-TD-BZ-KIT	5in Square Steel Pole, 30 Ft, 11 GA, Universal Drill Pattern On All 4 Sides with Tenon Adapter, Handhold Cover (Screws and Plugs), Textured Architectural Dark Bronze Powder-Coat Finish with 5in Square Base Cover and Top Cap
Accessories		
741302	HAL-ABOLT-SQ-10-25FT-KIT	Anchor Bolts (4 pcs) and Anchor Bolt Positioning Plate For 4in Square Steel Pole with Standard Base (up to 25FT)
741303	HAL-ABOLT-SQ-30FT-KIT	Anchor Bolts (4 pcs) and Anchor Bolt Positioning Plate For 5in Square Steel Pole with Standard Base (30FT)
741204	HAL-SPP250-BM24	Cross Anchor Bolt Position Plate for Square Steel 30 ft Pole. Use with HAL-BM24SL914-S and HAL-SPP250-TM24
741218	HAL-RB2.5D180-D	180 Degree Double Bullhorn. For Square and Round Steel Poles (Round Pole Requires Tenon Top Mount sold separately) MAX EPA: 0.9
741219	HAL-RB2.5TR180-D	180 Degree Triple Bullhorn. For Square and Round Steel Poles (Round Pole Requires Tenon Top Mount sold separately) MAX EPA: 1.4
741220	HAL-RB2.5QD90-D	90 Degree Quad Bullhorn. For Square and Round Steel Poles (Round Pole Requires Tenon Top Mount sold Separately) MAX EPA: 1.5
741221	HAL-SB2.5TR120V-D	120 Degree Triple Tenon Adapter for Square and Round Steel Poles can be Adjusted Horizontally (Round Pole Requires Tenon Top Mount sold separately) MAX EPA: 1.5

Pole Kit Square (up to 10-25Ft)

Included with Pole Purchase

- Tenon (Cap also included)
- Predrilled holes on 4 sides
- Hole plugs for unused predrilled
- Cast iron reinforced hand hole, waterproof gasket & cover with ground screw.

Purchase Separately Product #: 741302

- 4 Anchor Bolts
- Positioning Plate

Ship when needed

Base Cover Top Cap

Pole Kit Square (30Ft)

Included with Pole Purchase

- Tenon (Cap sold Separately)
- Predrilled holes on 4 sides
- Hole plugs for unused predrilled
- Cast iron reinforced hand hole, waterproof gasket & cover with ground screw.

Purchase Separately Product #: 741303

- Anchor Bolt Set
- Positioning Plate

Ship when needed

Base Cover

Hand Hold Cover Details

Cast iron reinforced hand hole, waterproof gasket & cover.

Grounding hook is preinstalled inside the handhole cover. Attach the grounding cable to this hook.

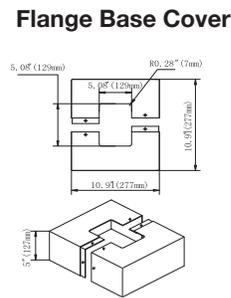
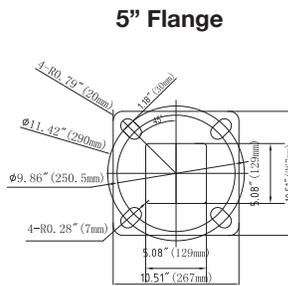
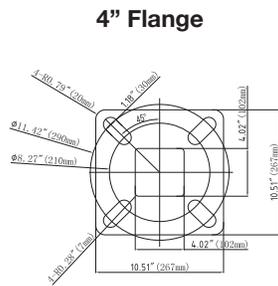
Fixture Configurations



Dimensions

Size: 4" (4" x 4"), 5" (5" x 5")

DIMENSION



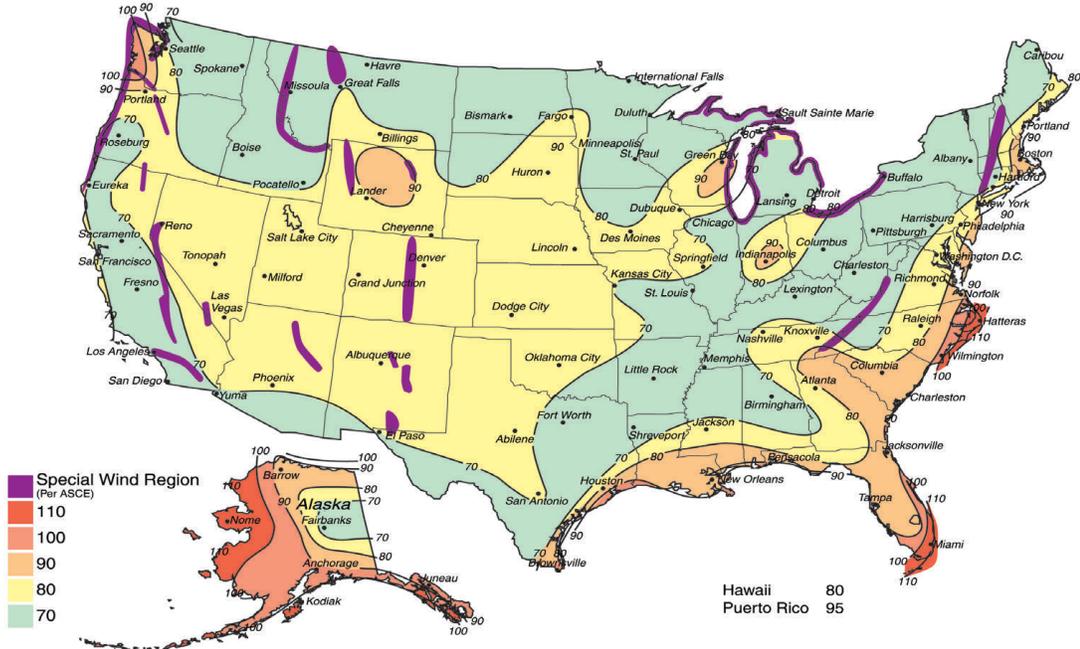
*See Page 8 for 4" Flange Base Cover Dimensions

DIMENSION DATA

SKU	CATALOG	HEIGHT	GAUGE	SIZE	BASE	BOLT CIRCLE	BOLT SIZE	WEIGHT (LBS)	EPA 70	EPA 80	EPA 90	EPA 100	EPA 110	EPA 120
741311	HAL-4-SQS-10FT-11G-TD-BZ-KIT	10ft	11	4" x 4"	11"	8.27"-11.42"	M0. 9"x19.69"x3.94"	101	25.2	23.5	20.3	19.4	17.3	15.6
741312	HAL-4-SQS-15FT-11G-TD-BZ-KIT	15ft						134	15.2	13.5	11.1	9.5	7.9	6.8
741313	HAL-4-SQS-20FT-11G-TD-BZ-KIT	20ft						169	10.2	9.3	7.5	6.2	4.2	3.6
741314	HAL-4-SQS-25FT-11G-TD-BZ-KIT	25ft						190	8.9	6.9	5.7	4.1	3.6	2.2
741315	HAL-5-SQS-30FT-11G-TD-BZ-KIT	30ft						286	9.6	7.4	6.1	5.8	4.6	3.8

Straight Square Steel Poles

Wind Region Map



Installation

1. Dig a hole in the installation position of the lamp pole. Fixed four fastener fittings according to the hole position of lamp pole and poured with cement concrete. (as shown in the figure)

2. Install 4 screws onto the stick and adjust to same water level, then place the square plate and screw tightly. Install the cover at the bottom of pole. (as shown in the figure)

Foundation reference specification

3"X5" HAND HOLE COVER

ANCHORAGE GUIDE

Reference design of Concrete size

Specifications	L	W	H
10-15FT	31.5"(800mm)	31.5"(800mm)	59.1"(1500mm)
20-25FT	35.4"(900mm)	35.4"(900mm)	70.9"(1800mm)
30FT	35.4"(900mm)	35.4"(900mm)	82.7"(2100mm)

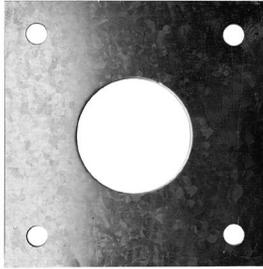
Foundation Design: We offer Foundation design references due to variations in soil structure across different areas, and we do not assume any responsibility for this variability.

Straight Square Steel Poles

Size: 4" (4" x 4"), 5" (5" x 5")

Anchor Bolt Kits – Contain Bolts & Positioning Plates

10FT-25ft Pole Kit #741302 Hal-Abolt-Sq-10-25ft-Kit



**Anchor Bolt Positioning Plate
HAL-SPP- D**
 This is a screw rod positioning plate. After the screw rod of the lamp rod base is fixed underground, the positioning plate is fixed with the screw rod to prevent the screw rod from deviation. Finally, the lamp rod is locked.

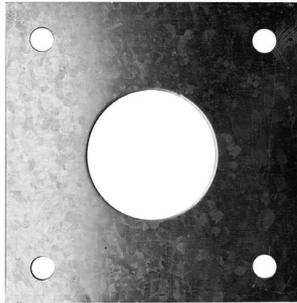
*** Replacement Item# 741202**



**Anchor Bolt
HAL-BMS- S**
 Before installing the lamp pole, the installation hook should be buried underground and fixed by cement After fixing, the lamp pole should be fixed by locking screw and base installed.

*** Replacement Item# 741200**

30FT Pole Kit #741303 Hal-Abolt-Sq-30ft-Kit



**Anchor Bolt Positioning Plate
HAL-SPP250-TM24**
 This is a screw rod positioning plate. After the screw rod of the lamp rod base is fixed underground, the positioning plate is fixed with the screw rod to prevent the screw rod from deviation. Finally, the lamp rod is locked.(It is used in conjunction with HAL-SPP250-BM24 SKU - 741204 and HAL-BM24S914-LS SKU - 741201).

*** Replacement Item# 741203**



**Anchor Bolt
HAL-BM24SL 914-S**
 Before installing the lamp pole, the installation hook should be buried underground and fixed by cement After fixing, the lamp pole should be fixed by locking screw and base installed, (It is used in conjunction with HAL-SPP250-TM24 SKU - 741203 and HAL-SPP250-BM24 SKU - 741204).

*** Replacement Item# 741201**

30FT POLE OPTIONAL #741204 CROSS BAR POSITIONING PLATE



**Cross Screw Positioning Plate
HAL-SPP250-BM24**
 This is a screw bottom cross positioning plate. It is used in conjunction with the top positioning plate HAL-SPP250-TM24 SKU - 741203 and HAL-BM24SL914-S SKU - 741201 to fix the positioning plate with the screw to prevent the screw from deviating. Finally, the lamp pole is secure.

*** Item# 741204 – Sold Separately**

Straight Square Steel Poles

Size: 4" (4" x 4"), 5" (5" x 5")

Optional Mount Accessories-Sold Separately

Attach to Tenon Included in Square Pole Kit

ROUND EXTERNAL MOUNT HORIZONTAL TENON · To mount 2/3/4 fixtures on an existing pole



180° Double Bullhorn
HAL-RB2.5D180-D SKU-741218
 MAX EPA: 0.9
 Finish: Dark Bronze
 The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Item # 741218



180° Triple Bullhorn
HAL-RB2.5TR180-D SKU-741219
 MAX EPA: 1.4
 Finish: Dark Bronze
 The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Item # 741219



Triple 120° Horizontal Tenon Adapter
HAL-SB2.5TR120V-D D SKU-741221
 MAX EPA: 1.5
 Finish: Dark Bronze
 The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Item # 741221



90° Quad Bullhorn
HAL-RB2.5QD90 D SKU-741220
 MAX EPA: 1.5
 Finish: Dark Bronze
 The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

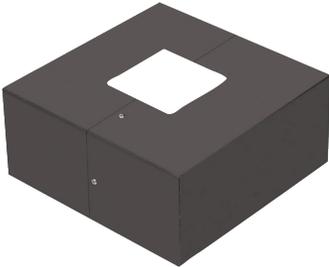
Item # 741220

Straight Square Steel Poles

Size: 4" (4" x 4"), 5" (5" x 5")

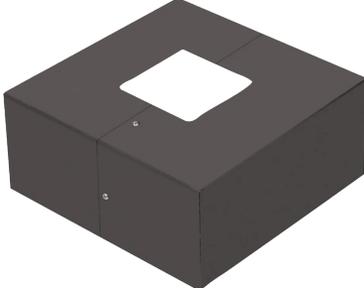
Mount Replacement Accessories

REPLACEMENT BASE COVERS (INCLUDED WITH POLE KIT)



Install Base Shield
HAL-IBS4-D
 Finish: Dark Bronze
 The 4" Installation of base shield is used to protect the base after fixing the lamp pole, so that the lamp pole base is not damaged, thereby increasing the service life of the lamp pole.

*** Replacement Item# 741208**



Install Base Shield
HAL-IBS5-D
 Finish: Dark Bronze
 The 5" Installation of base shield is used to protect the base after fixing the lamp pole, so that the lamp pole base is not damaged, thereby increasing the service life of the lamp pole.

*** Replacement Item# 741209**

REPLACEMENT TENON (INCLUDED WITH POLE KIT INSTALLED)



4" Square Pole Mount with 2-3/8" O.D. Tenon
HAL-VTS4-D
 MAX EPA: 0.3
 Finish: Dark Bronze
 For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D. and is made of steel tubing.
 *Replacement Item# **SKU-741213**

*** Replacement Item# 741213**



5" Square Pole Mount with 2-3/8" O.D. Tenon
HAL-VTS5-D D
 MAX EPA: 0.3
 Finish: Dark Bronze
 For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing.
 *Replacement Item# **SKU-741214**

*** Replacement Item# 741214**

REPLACEMENT CAP (INCLUDED WITH POLE KIT)



4" Square Pole Replacement Cap
HAL-TC-4-SQ
 Plastic Rain Cap included if pole side mounts used rather than Tenon mount, to protect from weather.

*** Replacement Item# 741222**

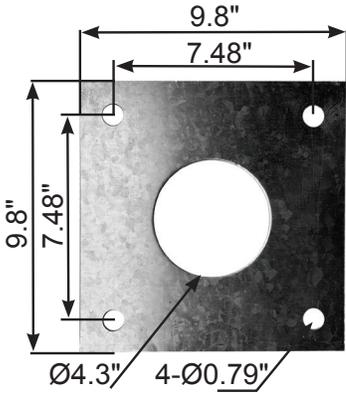


5" Square Pole Replacement Cap
HAL-TC-5-SQ
 Plastic Rain Cap included if pole side mounts used rather than Tenon mount, to protect from weather.

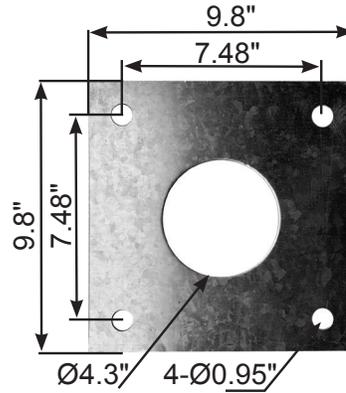
*** Replacement Item# 741223**

Straight Square Steel Poles

Dimensions



Anchor Bolt Positioning Plate
 HAL-SPP-S
 *Replacement Item# 741202



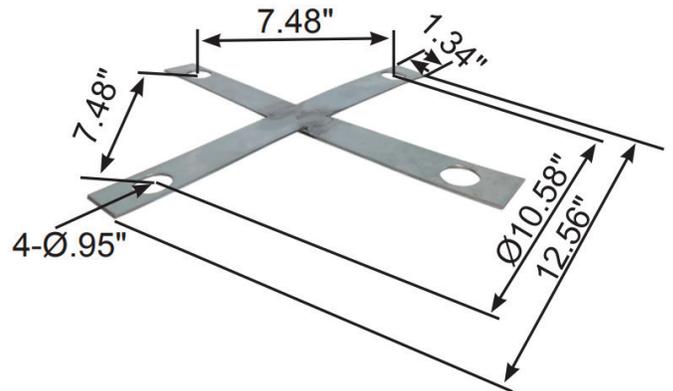
Anchor Bolt Positioning Plate
 HAL-SPP250-TM24
 *Replacement Item# 741203



Anchor Bolt
 HAL-BMS-S
 *Replacement Item# 741200



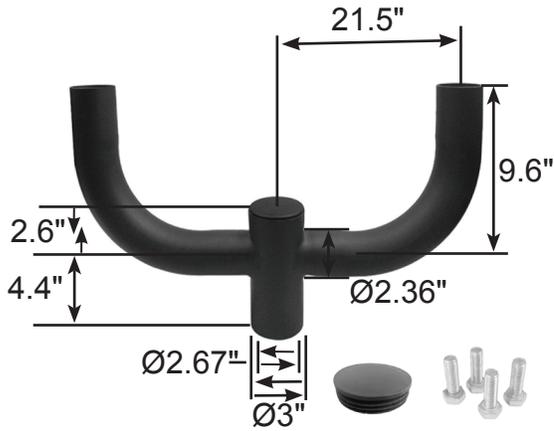
Anchor Bolt
 HAL-BM24SL 914-S
 *Replacement Item# 741201



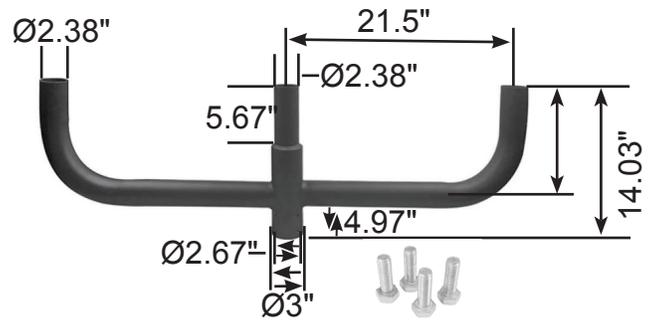
Cross Screw Positioning Plate
 HAL-SPP250-BM24
 *Replacement Item# 741204

Straight Square Steel Poles

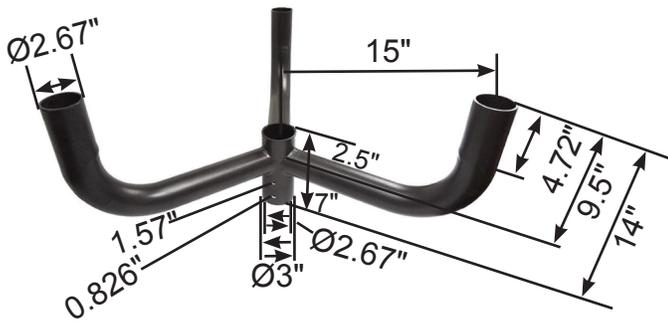
Dimensions



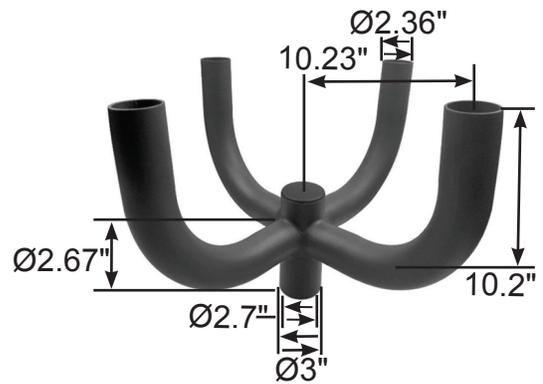
180° Double Bullhorn
 HAL-RB2.5D180-D
 Item# 741218



180° Triple Bullhorn
 HAL-RB2.5TR180-D
 Item# 741219



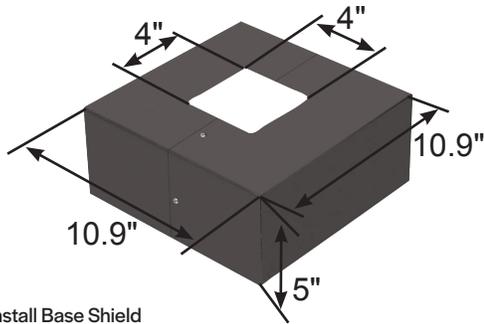
120° Triple Horizontal Tenon Adapter
 HAL-SB2.5TR120V-D
 Item# 741221



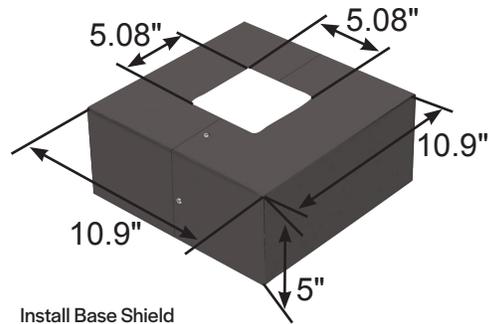
90° Quad Bullhorn
 Hal-RB2.5QD90
 Item# 741220

Straight Square Steel Poles

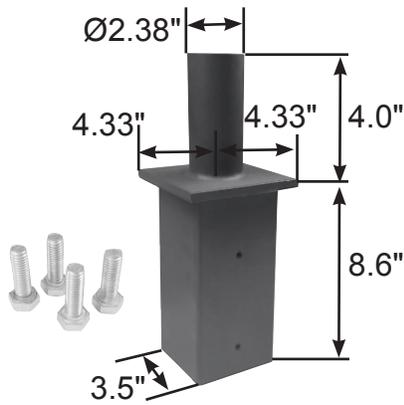
Dimensions



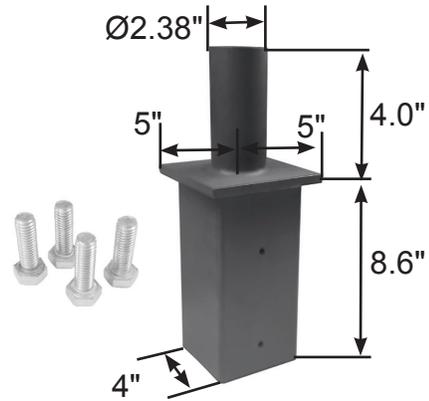
Install Base Shield
 HAL-IBS4-D
 *Replacement Item # 741208



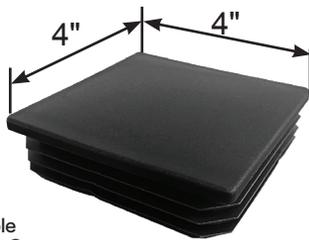
Install Base Shield
 HAL-IBS5-D
 *Replacement Item # 741209



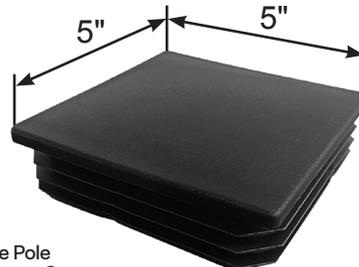
4" Square Pole Mount
 with 2-3/8" O.D. Tenon
 HAL-VTS4-D
 *Replacement Item # 741213



5" Square Pole Mount
 with 2-3/8" O.D. Tenon
 HAL-VTS5-D
 *Replacement Item # 741214



4" Square Pole
 Replacement Cap
 HAL-TC-4-SQ
 Replacement Item# 741222



5" Square Pole
 Replacement Cap
 HAL-TC-5-SQ
 Replacement Item# 741223