STEEL POLE PRODUCTS

Value.

Durability.

Safety.
## Square Straight Steel Pole

### No Arm — 4-Bolt Base

- **Removable Pole Cap**
  (Tenon Option Available)
- **D Top Square**
- **B Wall Gauge**
  Square Straight Steel Tube
  ASTM A500 Grade B Steel

### Pole

Pole shaft shall be weldable-grade, cold-rolled, commercial quality carbon steel tubing conforming to ASTM A500 Grade B. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

### Base Style

4-Bolt Steel Plate

Base Flange of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware.

### Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M214-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153.

Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.

### Handhole

Reinforced, 3” x 5”

Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

### Base Cover

Square ABS plastic Base Covers are standard on all SSS poles specified in BA-Black, BM-Dark Bronze and BH-White. SSS poles specified in all other colors will be manufactured of metal materials. Custom specification of SSS square metal style Base Covers in BA, BM and BH powder coated finishes is available.

### Vibration Damper

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

### Dimensions

<table>
<thead>
<tr>
<th></th>
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<td>11</td>
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<td>6</td>
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<td>12.5</td>
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<td>1 x 36 x 4</td>
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</table>

*Requires the use of oversized washers (provided).

Dimensions in inches

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**WARNING:** Do not install light pole without luminaire.
<table>
<thead>
<tr>
<th>Catalog Number System</th>
</tr>
</thead>
<tbody>
<tr>
<td>The catalog number for Hapco poles utilizes the following identification system.</td>
</tr>
</tbody>
</table>

### Mounting Options
- **DRILL MOUNT**
  - D190: No Drilling
  - D290: 4-Bolt Base

### Pole Orientation
- **GFI Receptacle**
  - D218
  - D390
  - D490

### Catalog Number Example -
- **SSS 20 D 5 - 4 – BA**
  - Square Straight Steel, 20' Mounting Height, 7 Gauge, 5" Butt Square, No Taper, 4-Bolt Base, Black Powder Coat Finish.

### EPA Notes:
- Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25-year design life.
- Maximum EPA is based on the luminaire weight shown.
- Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

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<thead>
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**Tenon Mount**
- For Tenon Mount applications specify both Tenon diameter and length.

**EPA Notes**: Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

### Catalog Number System
- D190: No Drilling
- D290: 4-Bolt Base
- D218
- D390
- D490

**NOTE**: A luminaire drilling template must be supplied at time of order.

### Mounting Options
- **DRILL MOUNT**
  - D190: No Drilling
  - D290: 4-Bolt Base

### Pole Orientation
- **GFI Receptacle**
  - D218
  - D390
  - D490

**Note**: GFI Options must be specified in Accessories.

### POVER COAT COLORS
- BA - Black Powder Coat
- BH - White Powder Coat
- BM - Dark Bronze Powder Coat
- BV - Dark Green Powder Coat
- GG - Gray Powder Coat
- XX - Special Colors**

**GALVANIZED**
- 10 - Galvanized Only
- 1C - Black PC Over Galv.
- 1D - White PC Over Galv.
- 1B - D. Bronze PC Over Galv.
- 1Y - D. Green PC Over Galv.
- 1J - Gray PC Over Galv.
- 1X - Special PC Over Galv.**

**Specify Location**
- Add all that apply (Example: CPL-LAB-VDA)
RSS
Round Straight Steel Pole
No Arm — 4-Bolt Base

- Removable Pole Cap (Tenon Option Available)
- D Top Diameter
- B Wall Thickness
  Round Straight Steel Tube
  ASTM A500 Grade B Steel

Dimensions in Inches

<table>
<thead>
<tr>
<th>C BUTT DIA.</th>
<th>D TOP DIA.</th>
<th>F BOLT CIR. DIA.</th>
<th>G BASE SQ.</th>
<th>H BOLT PROJ.</th>
<th>I BOLT SIZE</th>
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<td>7.5-8.5</td>
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<td>4</td>
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<td>.75 x 17 x 3</td>
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<td>4.5</td>
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<td>7.5-8.5</td>
<td>8</td>
<td>3.75</td>
<td>.75 x 17 x 3</td>
</tr>
<tr>
<td>5 (11 Gauge)</td>
<td>5</td>
<td>7.5-8.5</td>
<td>8</td>
<td>3.75</td>
<td>.75 x 17 x 3</td>
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<tr>
<td>5 (7 Gauge)</td>
<td>5</td>
<td>8-9</td>
<td>8.75</td>
<td>4.875</td>
<td>1 x 36 x 4</td>
</tr>
</tbody>
</table>

Handhole - 0°

- C Butt Diameter
- 4-Bolt Base With Cover

WARNING: Do not install light pole without luminaire.

Pole
- Pole shaft shall be weldable-grade, cold-rolled, commercial quality carbon steel tubing conforming to ASTM A500 Grade B. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

Base Style
- 4-Bolt Steel Base
  Plate of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware.

Anchorage
- Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10”) of threaded end will be galvanized per ASTM A153. Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.

Handhole
- 3" Butt Diameter -
  Reinforced, 2" x 4" Handhole with cover and stainless steel screws. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.
- 4+" Butt Diameters -
  Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

Base Cover
- Round ABS plastic Base Covers are standard in all 11 Gauge RSS poles specified in powder coat finishes BA-Black, BM-Dark Bronze and BH-White.
- Square metal powder coated Base Covers are standard in all 11 Gauge RSS poles that are specified in colors other than BA, BM, and BH and in all 7 Gauge poles in ALL COLORS. Custom specification of RSS Square Metal style Base Covers in BA, BM and BH powder coated finishes is available.

Vibration Damper
- If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

Powder Coated, Galvanized or Powder Coated over Galvanized Finish Per Customer Specification.
Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.

- **Height**
- **Gauge**
- **Butt Dia.**
- **Top Dia.**
- **Base Style**
- **Drill Mount Options**
- **Electrical Box**
- **Pole Orientation**
- **Color Chip**

**EPA Notes:**

Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

**NOTE:** A luminaire always includes removable pole cap.

Includes removable pole cap.

**NOTES:**

- A luminaire drilling template must be supplied at time of order.
- Tenon Mount applications specify both Tenon diameter and length.

### Mounting Options

- **Side Drill Mount**
- **Drill Mount Options**
- **Electrical Box**
- **Pole Orientation**

### Pole Orientation

- **RSS 20 B 4 - 4 - BH**

- **Round Straight Steel, 20' Mounting Height, 11 Gauge, 4" Butt Diameter, No Taper, 4-Bolt Base, White Powder Coat Finish.**

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### Chart Data

<table>
<thead>
<tr>
<th>Height</th>
<th>Gauge</th>
<th>Butt Dia.</th>
<th>Top Dia.</th>
<th>Base Style</th>
<th>DRILL MOUNT Options</th>
<th>ELECTRICAL BOX</th>
<th>ACCESSORIES/OPTIONS</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’</td>
<td>11</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>D190: No Drilling</td>
<td>FA - 30’ Up, ‘D’</td>
<td>C12 - Threaded 1/2” Coupling**</td>
<td>POWDER COAT COLORS</td>
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<tr>
<td>14’</td>
<td>11</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>D216: Std. ‘A’ &amp; ‘C’</td>
<td>EEH - Extra Handhole**</td>
<td>EHH - Extra Handhole**</td>
<td>BM - Dark Bronze Powder Coat</td>
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<td>16’</td>
<td>11</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>D219: Std. ‘A’, ‘B’, ‘C’</td>
<td>GF1 - Duplex GFI Receptacle (WR) with Cover</td>
<td>GF1 - Duplex GFI Receptacle</td>
<td>BV - Dark Green Powder Coat</td>
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<td>18’</td>
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<td>4</td>
<td>4</td>
<td>D420 - Custom Tenon**</td>
<td>GLP - Less Pole Cap</td>
<td>G92 - Dual GFI (WR)</td>
<td>GC - Gray Powder Coat</td>
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<td>20’</td>
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<td>4</td>
<td>T204 - 2-3/8” O.D. x 4’</td>
<td>FL - 24” Up, ‘A’</td>
<td>FX - 24” Up, ‘C’</td>
<td>XX - Special Colors*</td>
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<tr>
<td>22’</td>
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<td>4</td>
<td>T390 - 2-7/8” O.D. x 4’</td>
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<td>4</td>
<td>4</td>
<td>T830 - 3-1/2” O.D. x 6’</td>
<td>FN - 24” Up, ‘C’</td>
<td>** Specify Location</td>
<td>1G - Galvanized Only</td>
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</tbody>
</table>

**POWDER COAT COLORS**

- BA - Black Powder Coat
- BH - White Powder Coat
- BM - Dark Bronze Powder Coat
- BV - Dark Green Powder Coat
- GC - Gray Powder Coat
- XX - Special Colors*

**GALVANIZED**

- 1G - Galvanized Only
- 1C - Black PC Over Galv.
- 10 - White PC Over Galv.
- 1B - D. Bronze PC Over Galv.
- 1Y - D. Green PC Over Galv.
- 1J - Gray PC Over Galv.
- XX - Special PC Over Galv.*

*Powder RAL # or Sample Color Chip.
## Round Tapered Steel Pole

### No Arm — 4-Bolt Base

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<td>.75 x 17 x 3</td>
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<td>1 x 48 x 4</td>
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<td>12</td>
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<td>15.5</td>
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*Nominal

### Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.

### Handhole

Up To 5.9" Butt Diameters -
Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

6"+ Butt Diameters -
Reinforced, 4" x 6-1/2" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

### Base Cover

Square metal powder coated Base Covers are standard on all RTS poles.

### Vibration Damper

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

### Pole

Pole shaft shall be weldable-grade, hot-rolled, commercial quality carbon steel tubing conforming to ASTM A595 Grade A. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

### Base Style

4-Bolt Steel Base Plate of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware. Base Cover will be fabricated from metal materials.

### WARNING

Do not install light pole without luminaire.
### 2-Piece Shaft Design

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<td>529</td>
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</table>

### Drill Mount Options

- D190: No Drilling

### Pole Orientation

- D180°
- C270°
- A90°
- B0°

### Catalog Number System

The catalog number for Hapro poles utilizes the following identification system.

#### RTS 30 B 80 - 4 - BM

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>MOUNTING HEIGHT</th>
<th>BUTT DIA.</th>
<th>BASE STYLE</th>
<th>ACCESSORIES OPTIONS</th>
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<td>4-Bolt Base</td>
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### EPA Notes:

- Effective Projected Area (EPA) in square feet. EPA’s calculated using wind velocity (mph) indicated in accordance with 2003 AASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

### Mounting Options

- **Side Drill Mount:** Includes removable pole cap.
  - **NOTE:** A luminaire drilling template must be supplied at time of order.

- **Tenon Mount:** For Tenon Mount applications specify both Tenon diameter and length.

### Assembly

- **For Product Information Table**

### Pole Orientation

- D180°
- C270°
- A90°
- B0°

**Note:** GFI Options must be specified in Accessories.
STEEL Pole Products

Value.

Durability.

Safety.

Proudly Supporting Our Industry…

American Welding Society
AWS D1.2 Committee

American Association of State Highway and Transportation Officials
AASHTO NCHRP

National Electrical Manufacturers Society
NEMA ANSI C136
Accredited Standards Committee