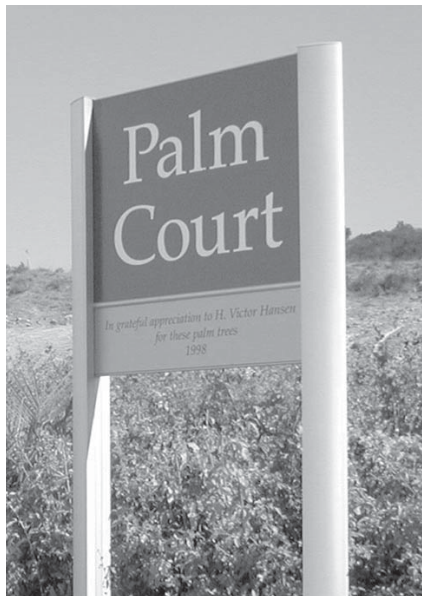
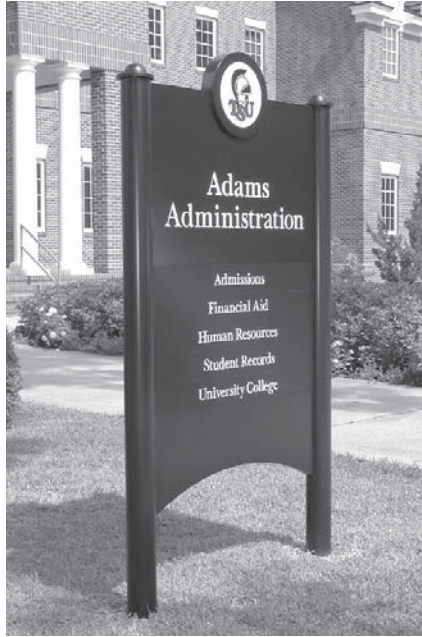










**The SignBar/SignPanel system consists of changeable aluminum message bars or panels that fit into various mounting configurations using a unique interlocking detail. With a wide range of sizes, decorative elements, and the latest SignPanel Curved Face options, SignBar/SignPanel is an effective and attractive exterior system suitable for almost any application.**








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**Series 5100 - SignBar/SignPanel System**

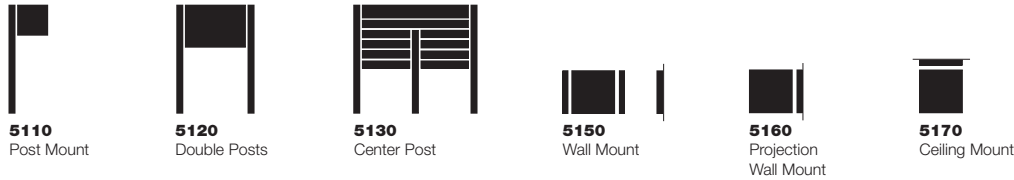
SignBar/SignPanel System Overview		<b>1.4.102</b>	
SignBar System		<b>1.4.103</b>	
SignPanel System		<b>1.4.104-1.4.107</b>	
SignPanel Universal		<b>1.4.108</b>	
Support Posts, Accessories & Mounting Options		<b>1.4.109-1.4.112</b>	
5100 Series Optional Features Decorative Spacers, Trim, EdgeSlot, Crown		<b>1.4.113-1.4.115</b>	
5110 Series  <b>5110</b> Post Mount	5120 Series  <b>5120</b> Double Posts	5130 Series  <b>5130</b> Center Post	<b>1.4.116-1.4.119</b>
5150 Series  <b>5150</b> Wall Mount			<b>1.4.120</b>
5160 Series  <b>5160</b> Projection Wall Mount			<b>1.4.121-1.4.122</b>
5170 Series  <b>5170</b> Ceiling Mount			<b>1.4.123-1.4.124</b>

**Series 5200 - SignPanel Curved Face System**

SignPanel Curved Face System Overview		<b>1.4.126</b>
5210 Series  <b>5210.1</b> Center Post (Circular)	 <b>5210.2</b> Flag Mount (Embedded Post)	<b>1.4.127-1.4.128</b>
5220 Series  <b>5220.1</b> Double Post (Contour)	 <b>5220.2</b> Double Post (Circular Embedded Posts)	<b>1.4.129-1.4.130</b>
5230 Series  <b>5230</b> Pylon In-Bound Posts		<b>1.4.131</b>

### Series 5100 - SignBar/SignPanel System

The SignBar/SignPanel system consists of changeable aluminum message bars, aluminum-faced panels and decorative elements for interior or exterior use.



#### Features

- Modular concept
- Single or Multi-sided
- Windload engineered to 120 mph
- Vandal and impact resistant
- Concealed, non-corrosive hardware
- Durable, fade-resistant finishes
- Engineered extruded aluminum components
- 5 Year Limited Warranty

#### Mounting Configurations

- Post Mount: Single, Double, Center and Multi-Sided
- Surface Wall Mount
- Projection and Ceiling Mount

#### Display Components

- SignBar: Rigid aluminum message bar
- SignPanel: Aluminum faced panel
- SignPanel Universal: Changeable graphic panels concealed behind clear covers

#### Optional Features

- Decorative Crown: Bevel, Rectangular, Peak, Crescent and Disc shapes
- Decorative Post Caps and Crown Panels
- Decorative Post Rings
- Decorative Post Cover Plate (Escutcheon)
- Changeable Letter Tiles (Consult Factory)
- SignLite down light feature (UL Listed)

#### Finishes/Colors

Aluminum components are available in black, dark bronze or natural satin anodized finishes. High-grade, two component polyurethane finishes are also available, offering superior durability for extreme exposure.

#### Installation and Maintenance

Each SignBar/SignPanel product is accompanied by complete installation and maintenance instructions.

#### Warranty

All SignBar/SignPanel products are backed by a 5 Year Limited Warranty.

#### Graphic Application Options

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art.

#### Selecting a Sign: A Step By Step Guide

The following are necessary steps required for manufacturing.

1. Select the Mounting Configuration that best suits conditions.
2. Select Display Components.
3. Using a Viewing/Distance Chart, determine if bar/panel size selected will accommodate the longest message with a typestyle suitable for viewing.
4. Select Optional Features.
5. Choose a Graphic Application method.
6. Select finishes.
7. Check local authorities to assure size, location and other specifications meet local code requirements.

# SignBar System

## Message Bars

### SignBar

SignBar is structurally engineered aluminum message panels that are available in four different heights and in any length up to a recommended maximum of 72".

For double post mount configurations, non-corrosive spring tension pins are inserted into precision-drilled holes at each end of top and bottom bars. SignBars slide into posts and pins engage into integral post slots. Once sign installation is complete, future SignBars do not require pins.

For wall mount configurations, bars simply slide into the affixed wall channel profiles. Spring tension pins are not required.

*IMPORTANT: SignBar is not used in single post, projection or ceiling mount configurations.*

All SignBars can be used in conjunction with SignPanel, SignPanel Universal and/or virtually any other component being mounted between 2" and 4" posts and/or wall channel profiles.

### Graphic Application Options

As a standard, SignBar graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

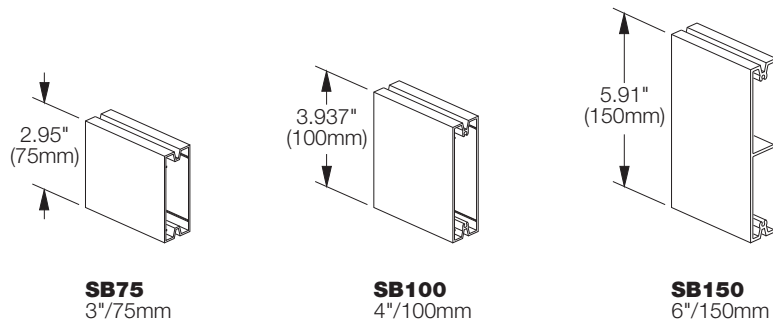
NOTE: When graphics exceed 200mm bar height, it is recommended that SignBar be replaced with an aluminum-faced SPA25 SignPanel.

### Finishes/Colors

SignBar finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

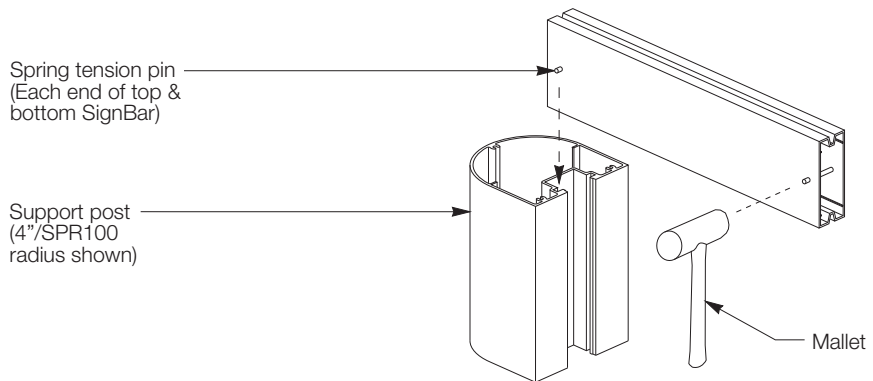
### SignBar Display Size

As a standard, double post mount SignBar can be assembled in virtually any size up to 72" high or 72" wide, not exceeding a maximum of 24 square feet. Consult APCO for larger display capabilities.



Product Code	Height mm (in.)	Visible SignBar lengths (See Note 1)							
		18"	24"	30"	36"	42"	48"	60"	72"
<b>SB75</b>	75 (2-15/16")	•	•	•	•	•	•	•	•
<b>SB100</b>	100 (3-15/16")	•	•	•	•	•	•	•	•
<b>SB150</b>	150 (5-29/32")	•	•	•	•	•	•	•	•

Note 1: Post mount SignBars are cut 1-7/8" longer than visible length to fit within post pockets. Wall mount SignBars are cut 7/8" longer than visible length to fit within wall channels.



Product Code	Height mm (in.)	Suggested Copy Height (See Note 2)	
		Upper Case	Initial Caps
<b>SB75</b>	75 (2-15/16")	1-5/8"	1-3/8"
<b>SB100</b>	100 (3-15/16")	1-13/16"	1-11/16"
<b>SB150</b>	150 (5-29/32")	3-3/16"	2-15/16"

Note 2: Copy is centered on upper case letter.

**SPPVC6 & SPA6 SignPanel**

The SPPVC6 SignPanel is 6mm Acrylite SG (polycarbonate) sheet. The SPA6 SignPanel is 1/4" (6mm) aluminum. Each is mechanically attached to an aluminum SPRF Reduction Filler profile which slides into support post(s) or SPFM50 bracket profile.

For single post and projection mount configurations, non-corrosive set screws stabilize the panel assembly on both sides of the supporting profile.

For double post and ceiling mount configurations, panel assembly simply slides into the post pocket.

When SPPVC6 or SPA6 is only supported along one edge, such as single post, projection and ceiling mount configurations, the exposed sign panel edges can include radius corners. Consult APCO for details.

SignPanel can be used in conjunction with SignBar, SignPanel Universal and/or virtually any other component being mounted between 2" or 4" post profiles.

**Graphic Application Options**

As a standard, SignPanel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

**Finishes/Colors**

SPPVC6 and SPA6 SignPanels are polyurethane coated. See Section 5 of the Technical Binder for additional information.

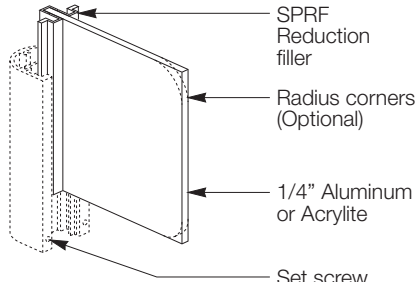
**SignPanel Sizes**

SignPanels can be constructed in virtually any size from 12" x 12" up to 48" x 72" or a maximum of 24 square feet. If a greater sign panel size is desired, APCO recommends changing to a fiberglass-faced product.

Note 1: Single post and projection mount SPPVC6 and SPA6 SignPanels are cut 13/16" wider than visible width to fit within single SPRF Reduction Filler.

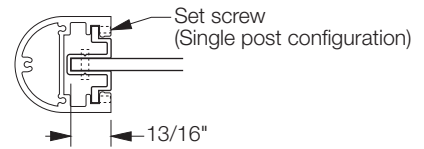
Note 2: Double post mount SPPVC6 and SPA6 SignPanels are cut 1-5/8" wider than visible width to fit within each SPRF Reduction Filler (13/16" each end).

Note 3: Ceiling and suspended ceiling mount SPPVC6 and SPA6 SignPanels are cut 13/16" taller than visible height to fit within single SPRF Reduction Filler.

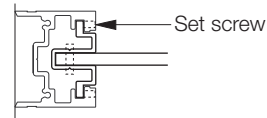


**SPPVC6**  
6mm (1/4") Thick Acrylite SG  
**SPA6**  
1/4" (6mm) Thick Aluminum

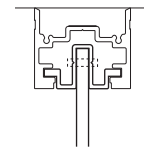
**Post Mount**  
(2" or 4" Post)



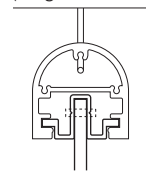
**Projection Mount**  
(SPFM50 Bracket)



**Ceiling Mount**  
(SPFM50 Bracket)



**Ceiling Suspended**  
(Single 2" or 4" Post)



**Single Post & Projection Wall Mount**  
Visible SignPanel widths (See Note 1)

SignPanel heights	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

**Double Post Mount**  
Visible SignPanel widths (See Note 2)

SignPanel heights	12"	18"	24"	30"	36"	48"	60"	72"
12"	•	•	•	•	•	•	•	•
18"	•	•	•	•	•	•	•	•
24"	•	•	•	•	•	•	•	•
30"	•	•	•	•	•	•	•	•
36"	•	•	•	•	•	•	•	•
48"	•	•	•	•	•	•	•	•
60"	•	•	•	•	•	•	n/a	n/a
72"	•	•	•	•	•	•	n/a	n/a

**Ceiling & Suspended Ceiling Mount**  
Visible SignPanel widths

Visible SignPanel heights (See Note 3)	24"	36"	48"	60"	72"
9"	•	•	•	•	•
12"	•	•	•	•	•
18"	•	•	•	•	•
24"	•	•	•	•	•

# SignPanel System

## 1" Panel

### SPA25 SignPanel

A unique aluminum outer frame is clad on front and back with .060" (1.5mm) aluminum faces to create a 1" (25mm) thick sign panel.

For single post, ceiling and projection mount configurations, the SPA25 SignPanel is fabricated with a custom aluminum profile along the mounting side which engages into the post or SPFM50 profile. Once assembled, single post and projection mount SignPanels are stabilized via non-corrosive set screws thru the face of the supporting profile.

For double post mount configurations, non-corrosive spring tension pins protrude thru each end of the SPA25 SignPanel and engage into pockets within the 2" and 4" posts.

For wall mount configurations, panels simply slide into the affixed wall channel profiles.

SPA25 SignPanels exceeding approximately 4 square feet are supported internally with SPCS25-50 aluminum spacer(s).

SignPanel can be used in conjunction with SignBar, SignPanel Universal and/or virtually any other component being mounted between 2" and 4" posts and/or wall channel profiles.

### Graphic Application Options

As a standard, SignPanel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective and/or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

### Finishes/Colors

SignPanel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. See Section 5 of the Technical Binder for additional information.

### SignPanel Sizes

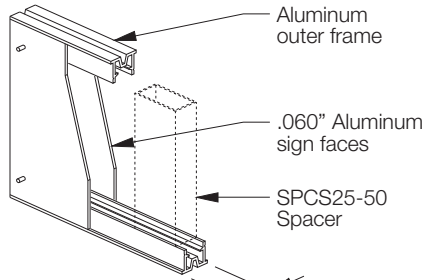
SignPanels can be constructed in virtually any size from 12" x 12" up to 48" x 72" or a maximum of 24 square feet. If a greater sign panel size is desired, APCO recommends changing to a fiberglass-faced product.

Note 1: Single post and projection mount SPA25 SignPanels are equal to visible size.

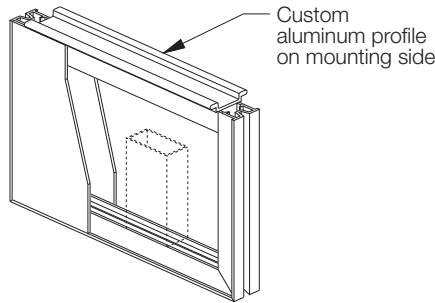
Note 2: Double post mount SPA25 SignPanels are 1-7/8" wider than visible width to fit within each post pocket (15/16" each end).

Note 3: Wall Mount SPA25 SignPanels are 7/8" wider than visible width to fit within each wall channel pocket (7/16" each end).

Note 4: Ceiling and suspended ceiling mount SPA25 SignPanels are equal to visible size.

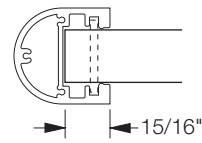


**SPA25**  
1" (25mm) Thick  
with .060" aluminum faces

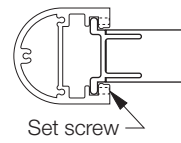


**SPA25** - Ceiling & Flag Mount  
Custom profile on mounting side

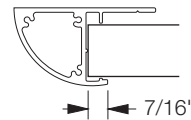
**SPA25**  
Double Post Mount  
(2" & 4" Posts)



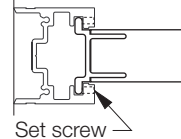
**SPA25**  
Single Post Mount  
(2" & 4" Posts)



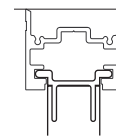
**SPA25**  
Wall Mount



**SPA25**  
Projection Mount



**SPA25**  
Ceiling Mount



**Single Post & Projection Wall Mount**  
Visible SignPanel widths (See Note 1)

SignPanel heights	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

**Double Post & Wall Mount**  
Visible SignPanel widths (See Notes 2 & 3)

SignPanel heights	12"	18"	24"	30"	36"	48"	60"	72"
12"	•	•	•	•	•	•	•	•
18"	•	•	•	•	•	•	•	•
24"	•	•	•	•	•	•	•	•
30"	•	•	•	•	•	•	•	•
36"	•	•	•	•	•	•	•	•
48"	•	•	•	•	•	•	•	•
60"	•	•	•	•	•	•	n/a	n/a
72"	•	•	•	•	•	•	n/a	n/a

**Ceiling & Suspended Ceiling Mount**  
Visible SignPanel widths (See Note 4)

Visible SignPanel heights	24"	36"	48"	60"	72"
9"	•	•	•	•	•
12"	•	•	•	•	•
18"	•	•	•	•	•
24"	•	•	•	•	•

### SPA50 SignPanel

A unique aluminum outer frame is clad on front and back with .060" (1.5mm) aluminum faces to create a 1.96" (50mm) thick sign panel.

An aluminum reveal profile mechanically fastens to the SignPanel and slides into a 2" or 4" post profile. Reveal configurations include 1/2" wide PolySign spacer, SPF profile when a flush fit is desirable or 1/4" wide SPRFS spacer.

SPA50 SignPanels exceeding approximately 4 square feet are supported internally with SPCS25-50 aluminum spacer(s).

SPA50 SignPanels can be used in conjunction with SignBar, SignPanel Universal and/or virtually any other component being mounted between 2" and 4" posts.

### Graphic Application Options

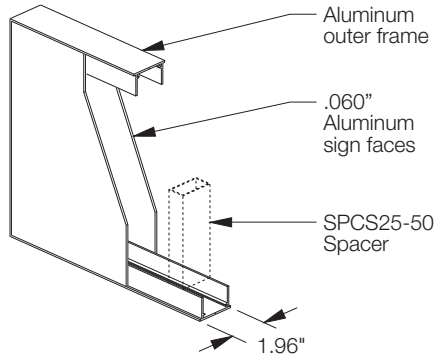
As a standard, SignPanel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective and/or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

### Finishes/Colors

SignPanel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. See Section 5 of the Technical Binder for additional information.

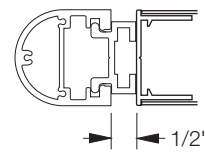
### SignPanel Sizes

SPA50 SignPanels can be constructed in virtually any size from 12" x 12" up to 48" x 72" or a maximum of 24 square feet. If a greater sign panel size is desired, APCO recommends changing to a fiberglass-faced product.

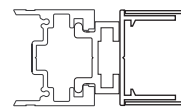


**SPA50**  
2" (50mm) Thick  
with .060" aluminum faces

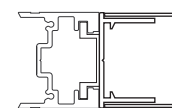
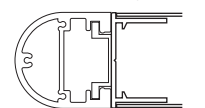
**SPA50 Post Mount PolySign Spacer**  
1/2" Reveal



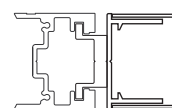
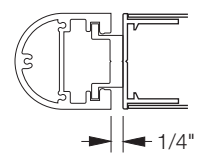
Typical Projection & Ceiling Mount



**SPA50 Post Mount SPF - Flush (No reveal)**



**SPA50 Post Mount SPRFS - 1/4" reveal**



### Single Post & Projection Wall Mount SignPanel widths

SignPanel heights	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

### Double Post Mount SignPanel widths

SignPanel heights	12"	18"	24"	30"	36"	48"	60"	72"
12"	•	•	•	•	•	•	•	•
18"	•	•	•	•	•	•	•	•
24"	•	•	•	•	•	•	•	•
30"	•	•	•	•	•	•	•	•
36"	•	•	•	•	•	•	•	•
48"	•	•	•	•	•	•	•	•
60"	•	•	•	•	•	•	n/a	n/a
72"	•	•	•	•	•	•	n/a	n/a

Note 1: All SPA50 SignPanel cut sizes and visible areas are equal.

# SignPanel System

## 4" Panel

### SPA100 SignPanel

A unique aluminum outer frame is clad on front and back with .060" (1.5mm) aluminum faces to create a 3.938" (100mm) thick sign panel.

An aluminum reveal profile mechanically fastens to the SignPanel and slides into the 4" post profile. Reveal configurations include 1/2" wide PolySign spacers or SPF profiles when a flush fit is desirable.

**IMPORTANT:** SPA100 SignPanel is not used in projection or ceiling mount configurations.

SPA100 SignPanels exceeding approximately 4 square feet are supported internally with formed aluminum z-bar spacer(s).

SPA100 SignPanels can be used in conjunction with SignBar, SignPanel Universal and/or virtually any other component being mounted between 4" posts.

### Graphic Application Options

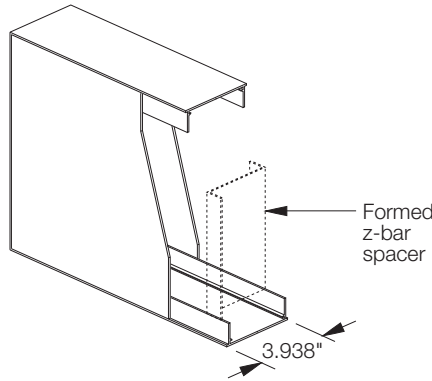
As a standard, SignPanel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective and/or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

### Finishes/Colors

SignPanel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. See Section 5 of the Technical Binder for additional information.

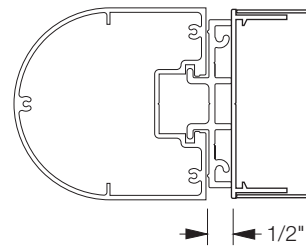
### SignPanel Sizes

SPA100 SignPanels can be constructed in virtually any size from 18" x 18" up to 48" x 72" or a maximum of 24 square feet. If a greater sign panel size is desired, APCO recommends changing to a fiberglass-faced product.

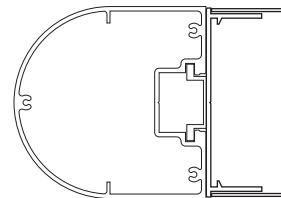


**SPA100**  
4" (100mm) Thick  
with .060" aluminum faces

**SPA100 Post Mount**  
**PolySign Spacer** - 1/2" Reveal



**SPA100 Post Mount**  
**SPF** - Flush (No reveal)



SignPanel heights	Double Post Mount SignPanel widths						
	18"	24"	30"	36"	48"	60"	72"
18"	•	•	•	•	•	•	•
24"	•	•	•	•	•	•	•
30"	•	•	•	•	•	•	•
36"	•	•	•	•	•	•	•
48"	•	•	•	•	•	•	•
60"	•	•	•	•	•	n/a	n/a
72"	•	•	•	•	•	n/a	n/a

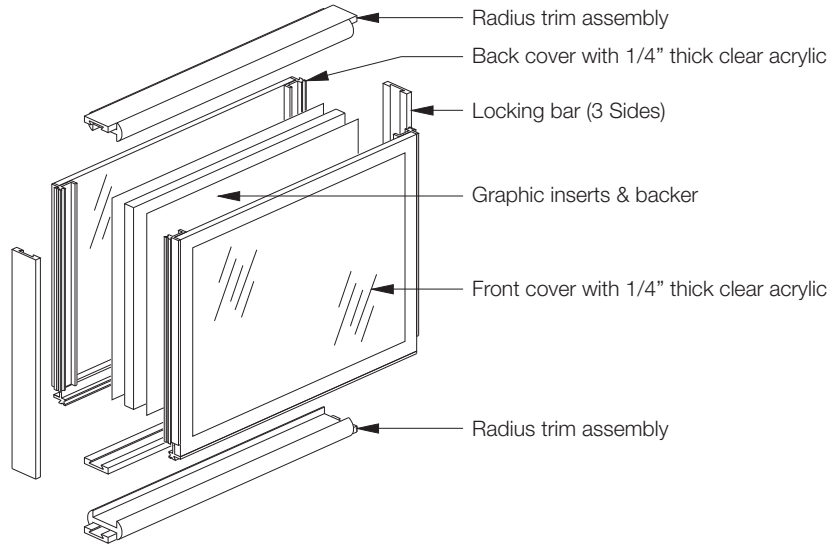
Note 1: All SPA100 SignPanel cut sizes and visible areas are equal.

Designed for interior or exterior applications, SignPanel Universal is a changeable graphics cartridge which allows graphics to be displayed on one or two sides.

For double post mount configurations, SignPanel Universal width is designed so that graphic insert width matches visible width of adjacent SignBars and/or SignPanels.

For wall mount configurations, graphic insert width is 1" narrower than adjacent SignBars and/or SignPanels.

Clear 1/4" thick acrylic covers are bonded to two identical frames. The frame's inner workings are concealed with opaque borders on the inside of each sign face. Removable 'locking bars' slide over the frame's dove tail profiles, joining the left, right and bottom of both frames. Graphics are inserted from the top. Radius aluminum trim assemblies capture the panel at top and bottom, weatherizing the panel and providing a finished appearance.



**Graphic Inserts**

For exterior applications, APCO recommends graphic inserts be printed with UV (ultraviolet) stable ink on vinyl. Paper inserts are for interior applications only. Graphic inserts can be provided by APCO or by others.

A standard 3/8" thick, internal backer is provided for graphic display inserts up to 3/32" thick per side.

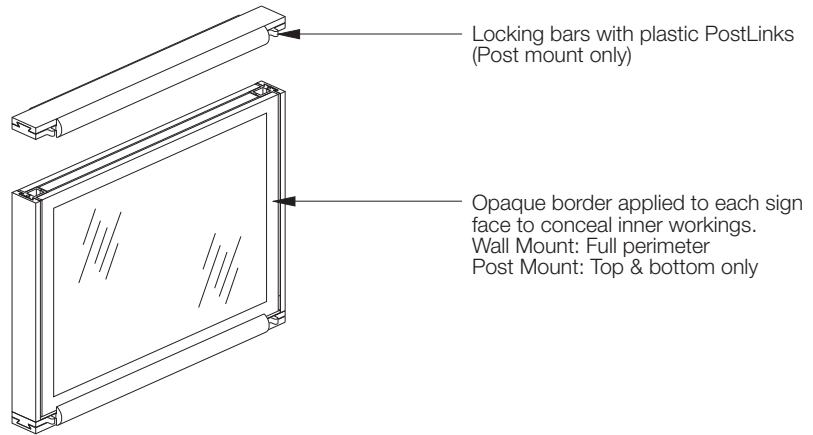
*IMPORTANT: Total thickness of all inserts cannot exceed 1/2".*

**Mounting Configurations**

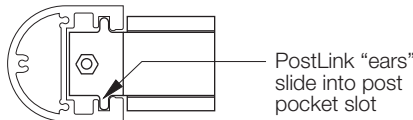
When post mounted, the top and bottom radius aluminum trim assemblies include plastic Post Links (ears) at each corner that align and slide into 2" or 4" post pockets.

When wall mounted, Post Links are omitted and panel slides into wall channel profiles.

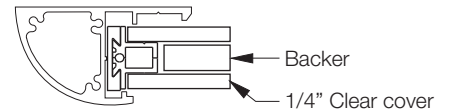
*IMPORTANT: SignPanel Universal is not designed for single post, projection or ceiling mount applications.*



**Post Mount**



**Wall Mount**



**SignPanel Universal Sizes**

SignPanel Universal can be constructed to fit virtually any size graphic insert up to 4 ft. x 4 ft.

**"Waterproof"**

Moisture will most always form behind a cover due to temperature differences between the cover's front surface and the graphic insert. Once temperatures balance out, accumulated moisture in the air will evaporate, often leaving streaks or clouding the backside of the cover. This is unavoidable in most all exterior environments. A "waterproof" housing is unfeasible as it must be either an unserviceable, vacuum sealed unit or be equipped with an air conditioning source that will dehumidify the sign's interior and maintain an even temperature between the sign's interior and exterior.

**SignPanel Universal Frame Sizes** (Radius top & bottom trim will add 7/8" to frame height)

Graphic Insert Height	Graphic Insert Width (See Notes 2 & 3)				
	18"	24"	30"	36"	48"
18"	19"x19.75"	19"x25.75"	19"x31.75"	19"x37.75"	19"x49.75"
24"	25"x19.75"	25"x25.75"	25"x31.75"	25"x37.75"	25"x49.75"
30"	31"x19.75"	31"x25.75"	31"x31.75"	31"x37.75"	31"x49.75"
36"	37"x19.75"	37"x25.75"	37"x31.75"	37"x37.75"	37"x49.75"
48"	49"x19.75"	49"x25.75"	49"x31.75"	49"x37.75"	49"x49.75"

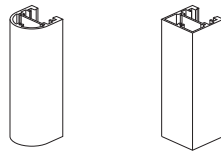
Note 1: Clear window (visible area) is 1/8" wider and 7/16" shorter than the graphic insert size.  
 Note 2: For post mount units, graphic insert width matches SignBar and SignPanel width.  
 Note 3: For wall mount units, graphic insert width is 1" narrower than SignBar and/or SignPanel.

# Support Posts

## 2" Posts

Structurally engineered post extrusions are 6063-T6 aluminum alloy, available in shapes shown. Posts are designed with a common sized pocket opening to receive display components. An integral slot feature guides and retains SignBar/SignPanel spring tension pins during sign assembly and installation. A 3/16" thick cap is mechanically fastened to the top of each post using non-corrosive, countersunk screws.

### 2" Support Posts - (50mm)



**SPR50**  
Radius

**SPS50**  
Square

Standard assembly configuration positions message components as high as possible and firmly against underside of post cap(s). There are two options for supporting message panel components from below:

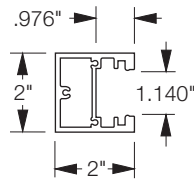
#### Fixed Bar

The post pocket is enclosed using aluminum filler profile(s) for a finished appearance.

For direct buried post(s), two removable filler profiles slide into the post pocket. A Stop Block is used at the very bottom to support post fillers and all sign components. The two fillers rest against each other approximately 3" above grade. Once sign is installed, the lower filler and Stop Block are permanently embedded into the footing. The upper filler is removable for future SignBar/SignPanel modifications.

#### Post Size

Radius & Square



For plate mounted post(s), one removable filler profile rests atop the post mounting plate and is used to support all sign components.

*IMPORTANT: Future component modifications that increase overall height of display will require removable filler to be shortened. Modifications that decrease overall display height will require a new, longer section of filler for each post. Consult factory for replacement components.*

#### Expandable Bar

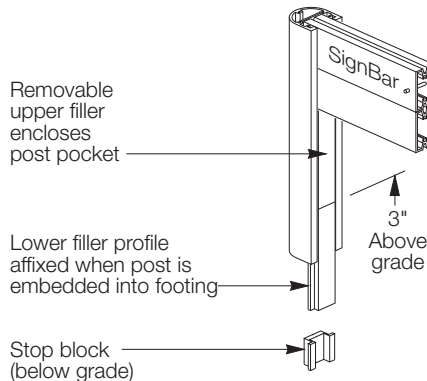
The post pocket remains open, easily permitting future addition or removal of display components.

Whether posts are direct buried or plate mounted, components are supported using an adjustable aluminum Stop Block which is secured within the post pocket immediately below the display components.

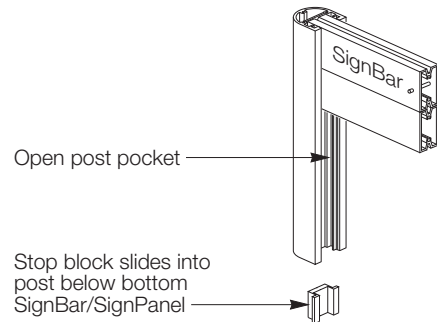
#### Finishes/Colors

Support post finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Fixed Bar:** Two aluminum filler profiles enclose the post pocket below the display components. The upper filler can be shortened or replaced for future display modifications.



**Expandable Bar:** An adjustable Stop Block supports display components directly below, leaving post pocket open for ease of future display component modifications.



Structurally engineered post extrusions are 6063-T6 aluminum alloy, available in shapes shown. Posts are designed with a common sized pocket opening to receive display components. An integral slot feature guides and retains SignBar/SignPanel spring tension pins during sign assembly and installation. A 3/16" thick cap is mechanically fastened to the top of each post using non-corrosive, countersunk screws.

Standard assembly configuration positions display components as high as possible and firmly against underside of post cap(s). There are two options for supporting display components from below:

### Fixed Bar

The post pocket is enclosed using aluminum filler profile(s) for a finished appearance.

For direct buried post(s), two removable filler profiles slide into the post pocket. A Stop Block is used at the very bottom to support post fillers and all sign components. The two fillers rest against each other approximately 3" above grade. Once sign is installed, the lower filler and Stop Block are permanently embedded into the footing. The upper filler is removable for future SignBar/SignPanel modifications.

For plate mounted post(s), one removable filler profile rests atop the post mounting plate and is used to support all sign components.

*IMPORTANT: Future component modifications that increase overall height of display will require removable filler to be shortened. Modifications that decrease overall display height will require a new, longer section of filler for each post. Contact factory for replacement filler profiles.*

### Expandable Bar

The post pocket remains open, easily permitting future addition or removal of display components.

Whether posts are direct buried or plate mounted, components are supported using an adjustable aluminum Stop Block which is secured within the post pocket immediately below the display components.

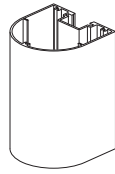
### EdgeSlot

The 4" SPCT100ES post profile is designed with a narrower post pocket opposite the primary display components. This slot accepts 1/4" thick decorative blade elements. When left un-used, the EdgeSlot is enclosed with a narrower aluminum filler profile. Consult APCO for decorative blade options.

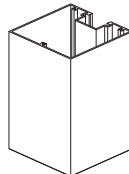
### Finishes/Colors

Support post finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

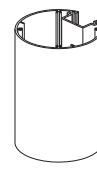
## 4" Support Posts - (100mm)



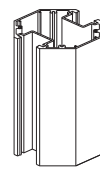
**SPR100**  
Radius



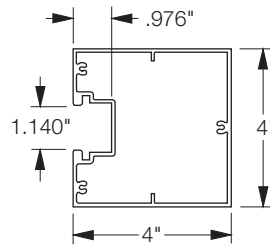
**SPS100**  
Square



**SPC100**  
Circular



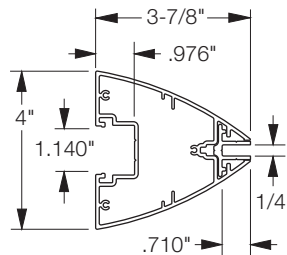
**SPOD100**  
Octagonal



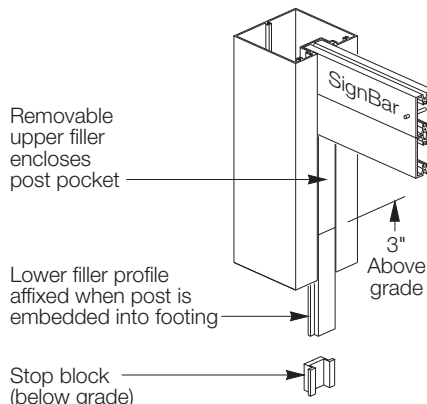
## 4" Support Posts with EdgeSlot - (100mm)



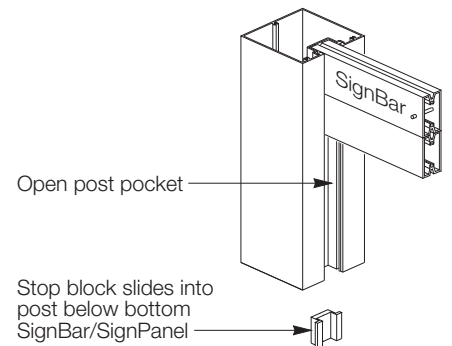
**SPCT100ES**  
Contour with EdgeSlot



**Fixed Bar:** Two aluminum filler profiles enclose the post pocket below the display components. The upper filler can be shortened or replaced for future display modifications.



**Expandable Bar:** An adjustable Stop Block supports display components directly below, leaving post pocket open for ease of future display component modifications.



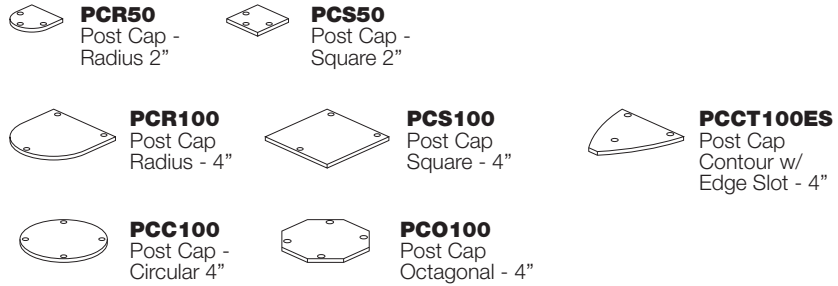
# 1.4.111

11/22

## Support Posts Accessories

### Flat Post Caps

Flat Post Caps are 3/16" thick and are secured to posts with #6 x 3/4" non-corrosive countersunk screws.



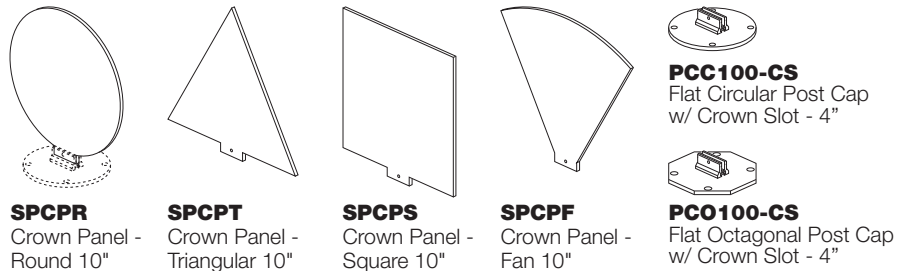
### Dimensional Post Caps

Cast aluminum post caps are available in two shapes. The Dome cap fits the SPC100 and SPC100ES circular 4" posts. The OctaPoint cap fits the SPO100 octagonal 4" post.



### Crown Panel

Decorative Crown Panels are 1/4" thick (6mm) aluminum available in 10" (250 mm) round, triangular, square and fan shapes. An aluminum crown slot profile is attached to a flat post cap with a single #10 hex head bolt, allowing the slot to be oriented in any direction. The Crown Panel then attaches to the slot profile. All fasteners are non-corrosive.



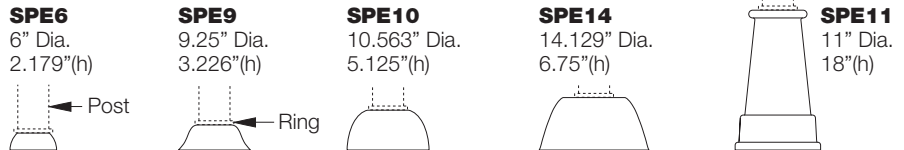
### Decorative Rings

Cast aluminum rings are 1/2" thick and 1/2" wide, available to fit 4" circular and octagonal posts. Rings are provided with non-corrosive 1/4-20 x 1/2" cup point set screws.



### Escutcheon

Molded fiber reinforced polyester (FRP) escutcheon/cover plate slides over a 4" circular or octagonal post and rests at grade. A decorative ring is required to secure the escutcheon in place.

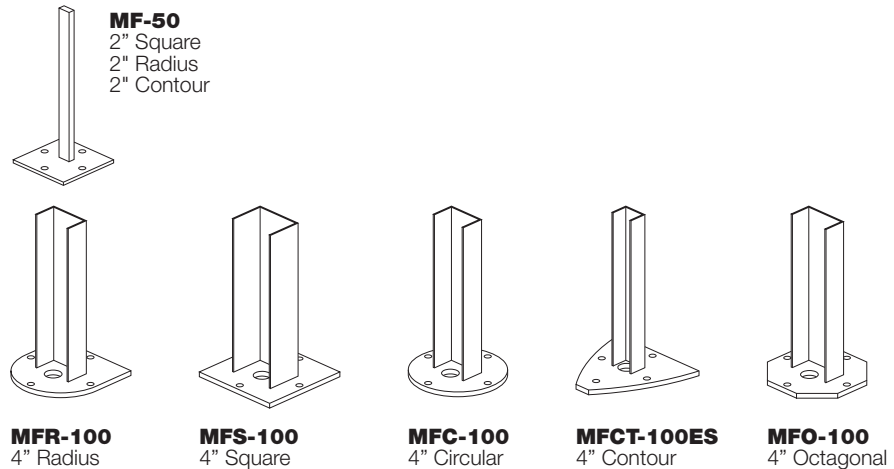


### Steel Mounting Feet

For Above Grade Mounting, a steel mounting foot slides into the APCO post and is mechanic-ally fastened thru the post pocket. For center post mount signs using standard round or square aluminum tube, a welded mounting plate will be required. All 2" and 4" mounting feet include 1/2" diameter holes for 3/8" diameter anchors, provided by installer or available from APCO.

**IMPORTANT:** Mounting foot attachment screws restrict installing SPA6, SPA25 and SignBar (1/4" and 1" thick) display components within the bottom 18" of post due to screw heads protruding into the post pocket.

**IMPORTANT:** Because surface conditions vary, anchor design and mounting hardware is specified and provided by installer. APCO recommends the fully assembled sign be used as the template for anchor placement.

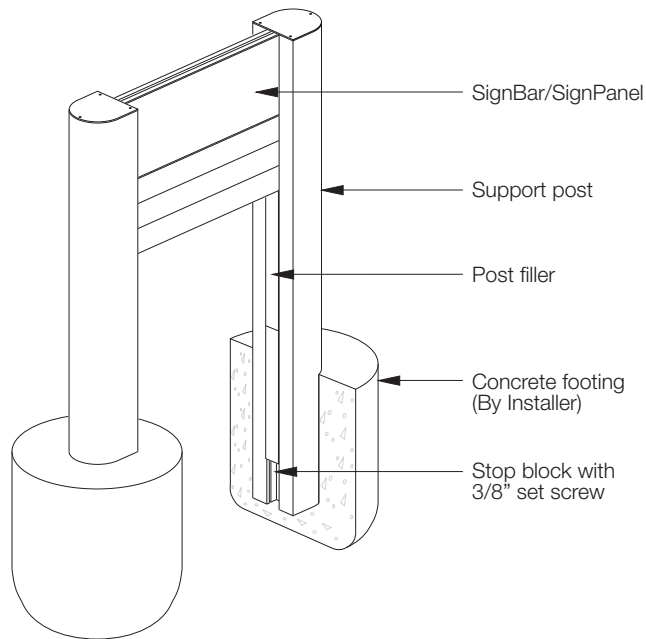


## In Ground Mounting

As a standard, support posts are direct buried into earth. APCO recommends footing diameter be 12" minimum for all 2" and 4" post shapes. The following general rules for embedment into terra firma are for reference only;

Post Length	Minimum In ground depth	
	2" Post	4" Post
48"	18"	18"
60"	24"	24"
72"	24"	24"
96"	24"	24"
120"	n/a	30"
144"	n/a	36"

*IMPORTANT: Frost lines vary in depth according to geographic location. Local codes and soil conditions may also affect post depth. Therefore, actual footing design, concrete specifications and post depth below grade are to be determined by qualified engineer, sign contractor or installer.*



**Direct Burial (Standard)**

## Above Grade Mounting

Post mounted signs are available with two Above Grade Mounting options.

1. A detachable steel mounting foot slides into the post and is mechanically fastened thru the post pocket.

*IMPORTANT: Mounting foot attachment screws restrict installing SPA6, SPA25 and SignBar (1/4" and 1" thick) display components within the bottom 18" of post due to screw heads protruding into the post pocket.*

2. An optional aluminum mounting plate is thru-welded to the bottom of the post.

Mounting feet/plates include 1/2" diameter holes for 3/8" diameter anchors, provided by installer or available from APCO.

*IMPORTANT: APCO recommends installer use the fully assembled sign as the template for locating and setting anchors. Because mounting surface conditions vary, anchor design and attachment hardware is specified by qualified person(s).*

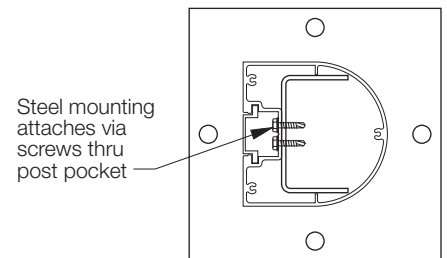
## Mounting Feet Finishes/Colors

Steel mounting feet are primed and polyurethane coated to match post color. When welded mounting plate is desired, anodized post and plate finish will not match due to dissimilar aluminum alloy materials. Therefore, APCO recommends weldment be painted.

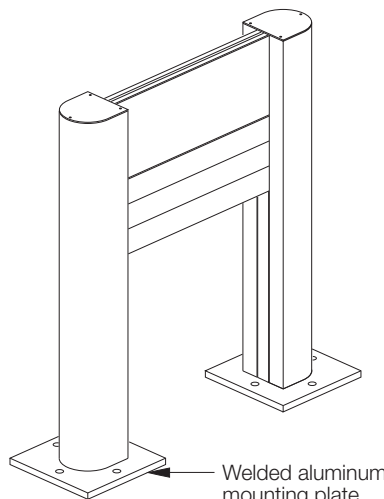
## Windload Ratings\*

When properly installed, SignBar / SignPanel products meet minimum 120 mph windload requirements. Refer to CSI specifications for additional information.

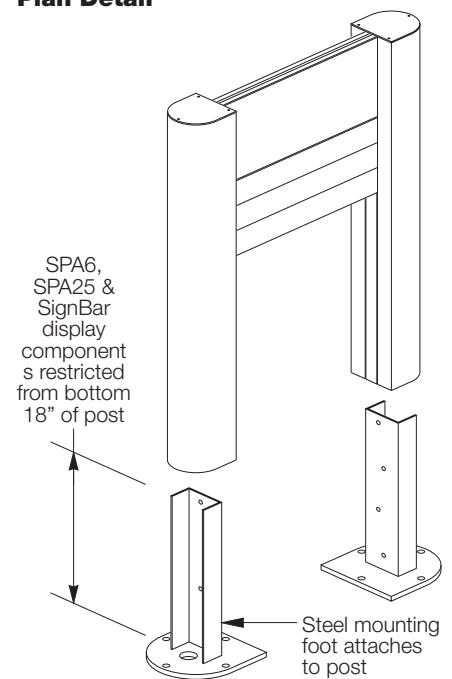
\* Does not apply to Series 5200 with SignPanel Curved Face.



**Plan Detail**



**Welded Mounting Plate (Optional)**



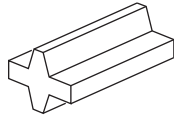
**Steel Mounting Feet (Optional)**

## 5100 Optional Features

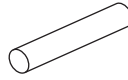
### Decorative Spacers, Trim & EdgeSlot

#### Interlocking Spacer

The optional SBIS is an aluminum profile specifically designed for incorporating a 3/16" space between SignBars and 1" thick SPA25 SignPanels. Interlocking Spacers also assist in aligning SignBar/SignPanels.



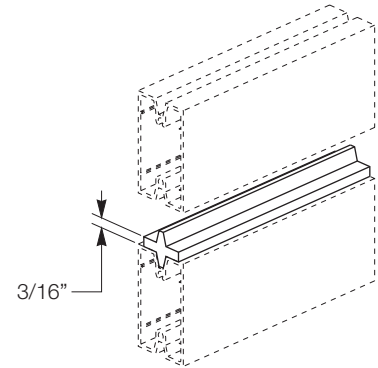
**SBIS**  
Interlocking Spacer



**Interlocking Rod**  
6 mm (.236") Diameter

#### Standard Lengths

18", 24", 30", 36", 42", 48", 60", 72"  
(Length matches SignBar/SignPanel width)



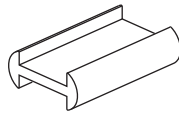
#### Interlocking Rod

SignBars and SPA25 SignPanels may have a natural bow in the material. When decorative spacers are not used and bow is undesirably noticeable, 6 mm diameter round rod can be used without being visible, to align and interlock components.

#### Decorative Spacer

The optional SBURS Radius Spacer is used to create a bold, decorative element. This design accent interlocks and separate SignBars and/or SPA25 (1" thick) SignPanels.

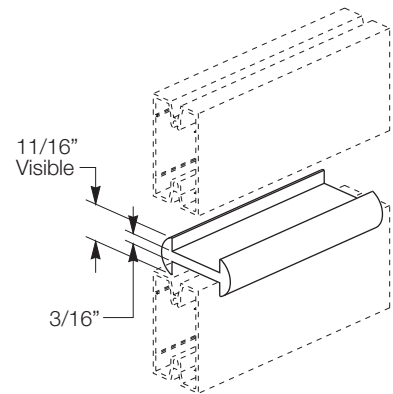
*IMPORTANT: When used at the bottom of sign, Radius Spacer exceeding 36" in length is mechanically fastened to the lower most SignBar/SignPanel. This component is not available for single post, projection mount, ceiling mount or ceiling suspended signs.*



**SBURS**  
Radius Universal Spacer

#### Standard Lengths

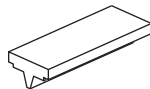
18", 24", 30", 36", 42", 48", 60", 72"  
(Cut length is slightly narrower than SignBar/SignPanel width to fit between support posts and wall channels)



#### Square Top / Bottom Trim

An optional Square Top Trim is used to accent the top or bottom most SignBar or SPA25 (1" thick) SignPanel.

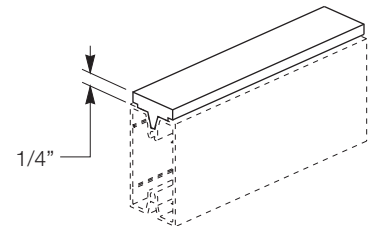
*IMPORTANT: When used at the bottom of sign, Square Top Trim exceeding 36" in length is mechanically fastened to the lower most SignBar/SignPanel. This component is not available for single post, projection mount, ceiling mount or ceiling suspended signs.*



**SBST**  
Square Top Trim

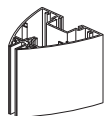
#### Standard Lengths

18", 24", 30", 36", 42", 48", 60", 72"  
(Length matches SignBar/SignPanel width)

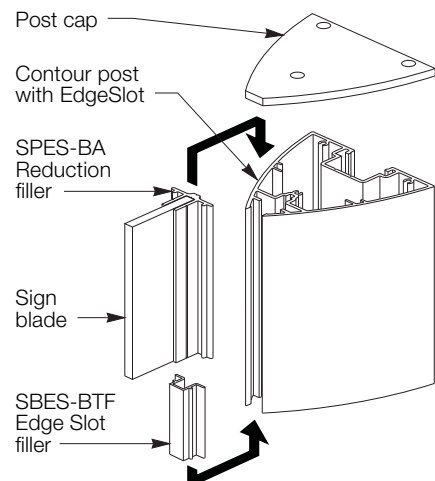


#### EdgeSlot

The unique EdgeSlot feature opens a range of design options. A narrow slot is designed into the post, opposite the SignBar/SignPanel, to accept a 1/4" (6mm) thick acrylic or aluminum blade. The blade is attached to an aluminum SPES-BA reduction filler profile which engages and slides into the slot. The unused portion of the post slot is concealed with an aluminum SBES-BTF edge slot filler extrusion. Consult APCO for decorative blade options.



**SPCT100ES**  
Contour Post with EdgeSlot



Patents Applied For

### Crown

A 2" thick Crown adds a bold, dimensional seal or logo at the top of the sign. The Crown can be attached to a SignBar or 1" thick SPA25 SignPanel. Standard Crown shapes are Bevel, Rectangular, Peak, Crescent and Disc.

Fabrication utilizes an aluminum frame with fiberglass faces. A 2" deep (min.) open pocket across the bottom slides over angle clips which are fastened to the top SignBar/SignPanel. Non-corrosive countersunk screws secure the Crown into place at each end.

Standard Crown sizes range from 6" x 12" to 8" x 36". Standard Disc Crowns are 8" and 12" diameter. Consult APCO for other custom shapes and/or sizes.

*IMPORTANT: It is recommended that a 6" Crown be attached to a SignBar/SignPanel no smaller than 3-15/16" high (SB100 SignBar). An 8" Crown should be attached to a SignBar/SignPanel no smaller than 5-15/16" high (SB150 SignBar).*

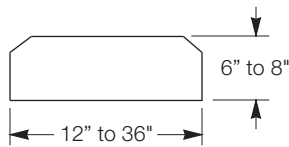
### Finishes

A painted acrylic polyurethane finish is standard for all fiberglass-faced Crowns.

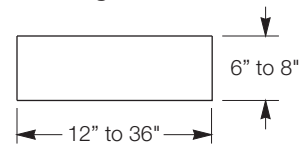
### Graphic Application Options

As a standard, graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective and/or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

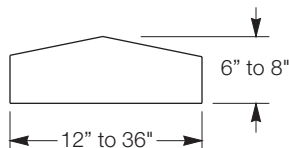
#### Bevel



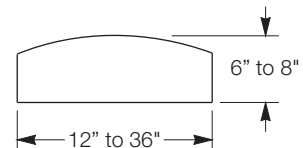
#### Rectangular



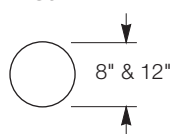
#### Peak



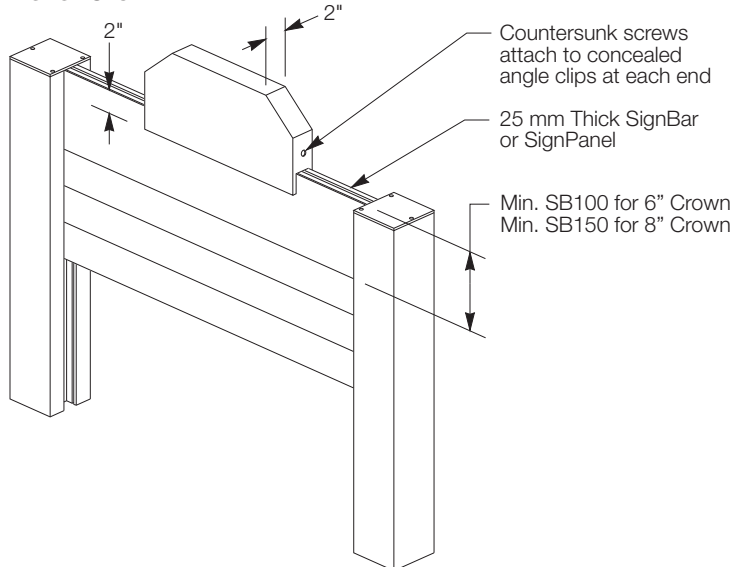
#### Crescent



#### Disc



#### Bevel Crown



SignBar Width	Crown Size	SignBar Size
24"	6" x 12"	SB100
	8" x 12"	SB150
30"	6" x 15"	SB100
	8" x 15"	SB150
36"	6" x 18"	SB100
	8" x 18"	SB150
42"	6" x 21"	SB100
	8" x 21"	SB150
48"	6" x 24"	SB100
	8" x 24"	SB150
60"	6" x 30"	SB100
	8" x 30"	SB150
72"	6" x 36"	SB100
	8" x 36"	SB150

# 5110 Series (Single) Post Mount

**5110**  
Post Mount

**5110 Series**

Single 2" and 4" post flag mount configurations are available in five styles:

Code	Panel thickness
SPPVC6	1/4" (Acrylite)
SPA6	1/4" (Aluminum)
SPA25	1-3/32" (25mm)
SPA50	2" (50mm)
SPA100	4" (100mm)

The SPPVC6 SignPanel is 6mm (1/4") Acrylite SG (polycarbonate) sheet. The SPA6 SignPanel is 1/4" aluminum. Each is pre-attached to an aluminum SPRF Reduction Filler profile which slides into the post pocket. Once engaged, SignPanels are stabilized via non-corrosive set screws thru the face of the post.

The SPA25 is an aluminum faced sign panel with a custom frame member at the post side that slides into the post pocket.

SPA50 and SPA100 SignPanels include an aluminum reveal profile which mechanically fastens to the SignPanel and slides into the post pocket. Reveal configurations include 1/2" wide PolySign spacer, SPF profile when a flush fit is desirable or 1/4" wide SPRFS spacer.

**Support Post**

Refer to "Support Posts" earlier in this section.

**Graphic Application Options**

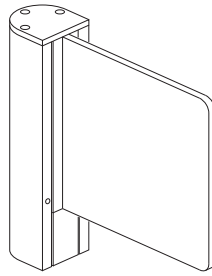
Refer to "SignPanel System Overview" earlier in this section.

**Finishes/Colors**

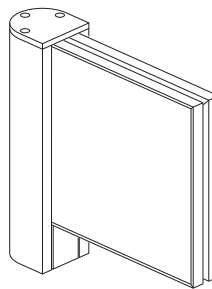
Aluminum post and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**SignPanel Sizes**

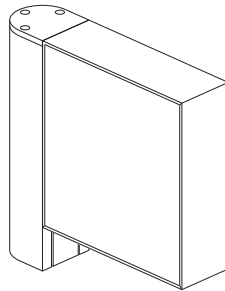
Single post mount SignPanels can be constructed in virtually any size from 12" x 12" up to 30" x 24".



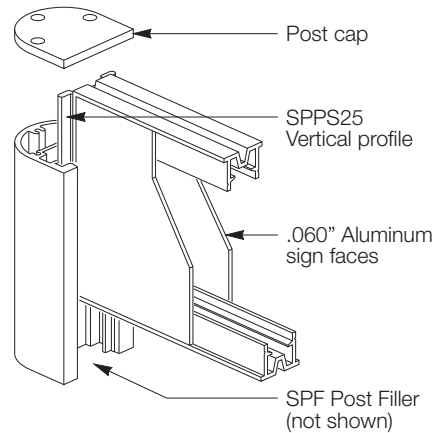
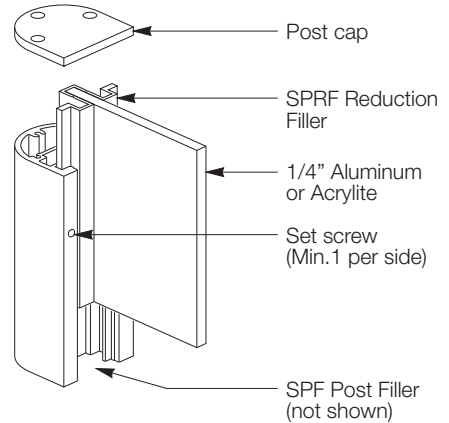
**SPPVC6**  
6mm (1/4") Thick Acrylite SG  
**SPA6**  
1/4" (6mm) Thick Aluminum



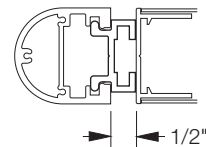
**SPA25**  
1" (25mm) Thick  
with .060" Aluminum Faces



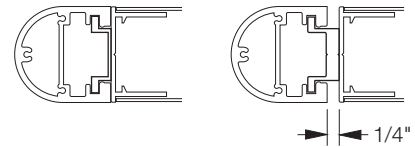
**SPA50 / SPA100**  
2" (50mm) / 4" (100mm) Thick  
with .060" Aluminum Faces



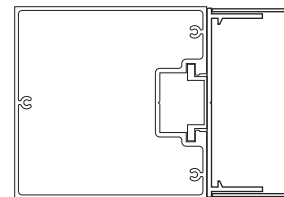
**SPA50 PolySign Spacer**  
1/2" Reveal (Std)



**SPA50 SPF - Flush (No reveal)**      **SPA50 SPRFS - 1/4" reveal**



**SPA100 SPF - Flush (No reveal)**

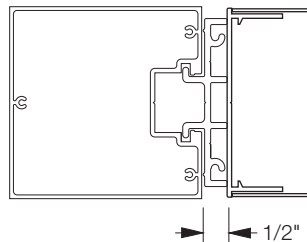


SignPanel heights	Visible SignPanel widths		
	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

Note 1: SPPVC6 and SPA6 SignPanels are cut 13/16" wider than visible SignPanel width to fit within the single SPRF Reduction Filler.

Note 2: SPA25, SPA50 and SPA100 SignPanel cut widths and visible widths are equal.

**SPA100 PolySign Spacer**  
1/2" Reveal (Std)





**5120 Series**

The Double Post mount series accommodates SignBar, SignPanel and/or SignPanel Universal. All components and assembly hardware are non-corrosive.

**Support Posts**

Any 2" or 4" post shape can be used at the ends. Refer to "Support Posts" earlier in this section.

**Display Sizes**

Double post mount SignBar can be assembled in virtually any size up to 72" high or 72" wide. SignPanel can be up to 72" high or 72" wide. SignPanel Universal can be up to 48" high and 48" wide.

*IMPORTANT: As a standard, overall display size should not exceed 24 square feet. Consult APCO for larger display capabilities.*

For additional details, refer to individual display components earlier in this section.

**Graphic Application Options**

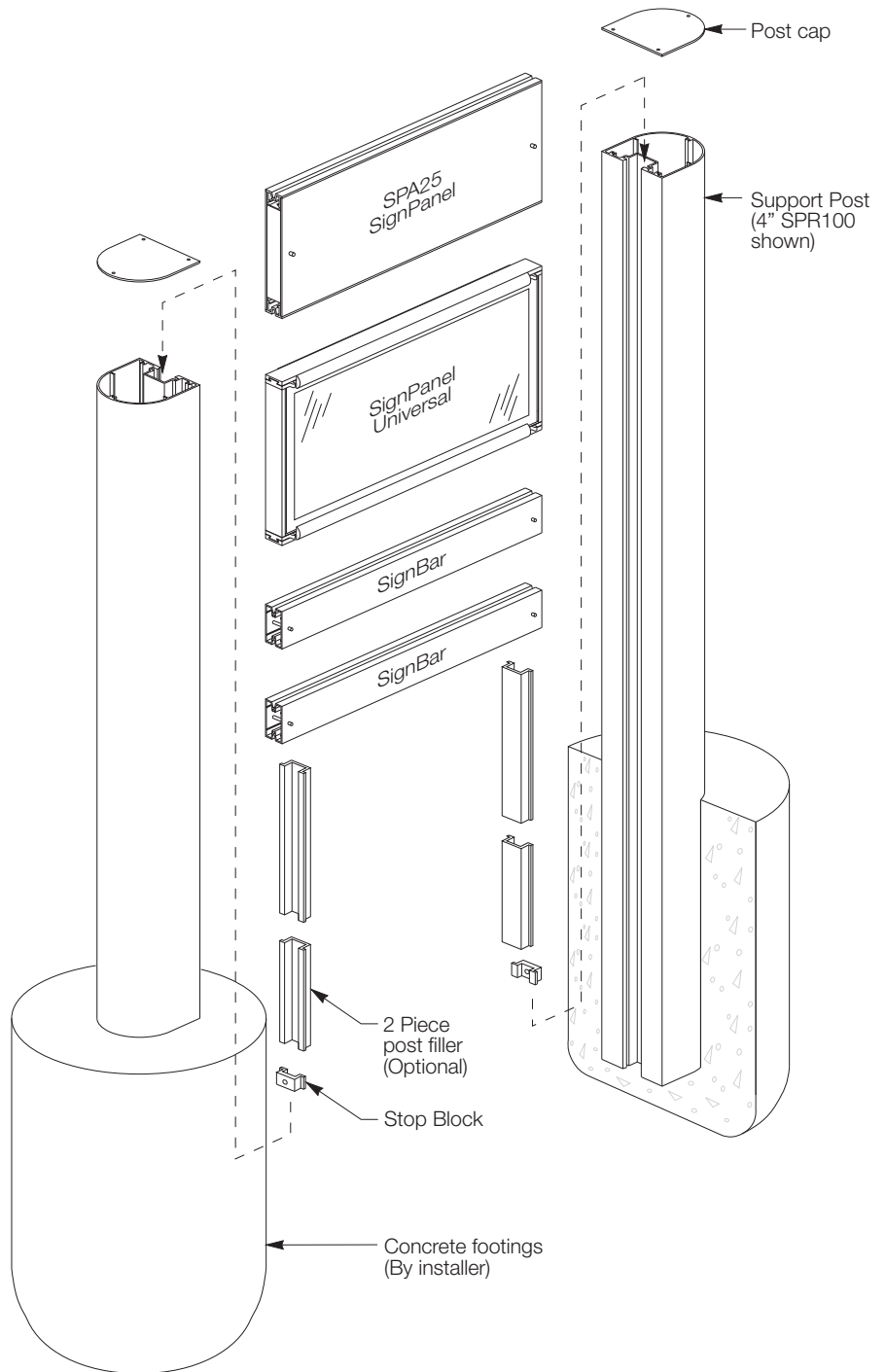
As a standard, message panel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

**Finishes/Colors**

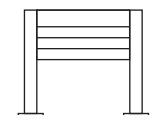
Aluminum post and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Mounting Technique**

As a standard, support posts are implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Posts Mounting Options" earlier in this section.



**Optional Above Grade Mounted**



**Windload Ratings**

When properly installed, this product meets minimum 120 mph windload requirements.

# 5130 Series Center Post Mount



**5130**  
Center Post

### 5130 Series

The Center Post mount series accommodates SignBar, SignPanel and/or SignPanel Universal. All components and assembly hardware are non-corrosive.

### Support Posts

Any 2" or 4" post shape can be used at the ends. Standard center post is the 4" SPOD100 octagonal. Refer to "Support Posts" earlier in this section.

### Display Sizes

Center Post mount SignBar can be assembled in virtually any size up to 72" high or 72" wide. SignPanel can be up to 72" high or 72" wide. SignPanel Universal can be up to 48" high and 48" wide.

*IMPORTANT: As a standard, overall display size should not exceed 24 square feet per side. Consult APCO for larger display capabilities.*

For additional details, refer to individual display components earlier in this section.

### Graphic Application Options

As a standard, message panel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

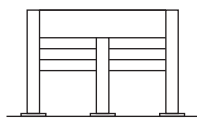
### Finishes/Colors

Aluminum post and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

### Mounting Technique

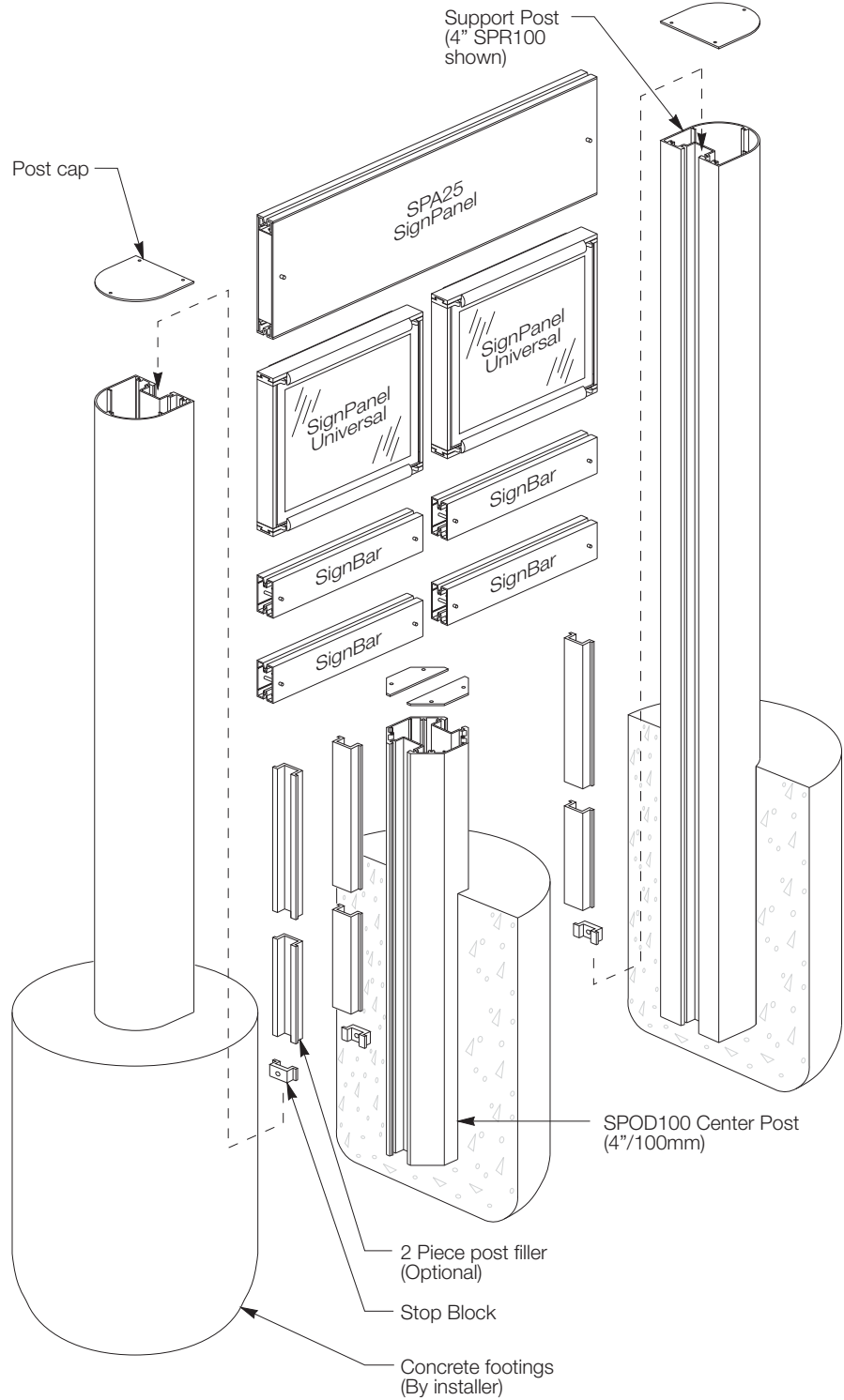
As a standard, support posts are implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Posts Mounting Options" earlier in this section.

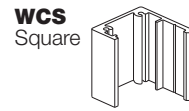
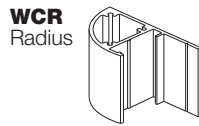
### Optional Above Grade Mounted



### Windload Ratings

When properly installed, this product meets minimum 120 mph windload requirements.





**5150 Series**

Single sided Wall Mount displays accommodate SignBar, 1-3/32" thick SPA25 SignPanel and/or SignPanel Universal.

**Wall Channels**

Wall channel shapes are available in radius or square 6063-T6 aluminum alloy. Lengths are available from 12" to 72". Channels are factory cut to fit assembled SignBar/SignPanel display height. Aluminum caps are provided and secure to each end with non-corrosive countersunk screws.

**Display Sizes**

Wall mount SignBar can be assembled in virtually any size up to 72" high and 72" wide. SignPanel Universal can be up to 48" high and 48" wide.

*IMPORTANT: The only available SignPanel for wall channel mounting is the 1" thick SPA25, which can be up to 72" high or 72" wide, not exceeding 24 square feet.*

For additional details, refer to individual display components earlier in this section.

**Graphic Application Options**

As a standard, message panel graphics are surface applied PSV (Pressure Sensitive Vinyl) in reflective or non-reflective material. Permanent, intaglio graphics are optional. Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. If desired, message changes can easily be accomplished by applying graphics to both sides of message components. Refer to Section 5 of the Technical Binder for additional information.

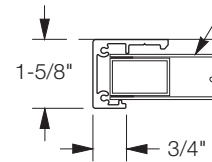
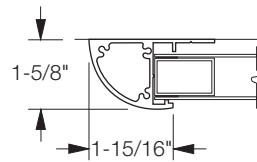
**Finishes/Colors**

Aluminum wall channel and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Mounting Technique**

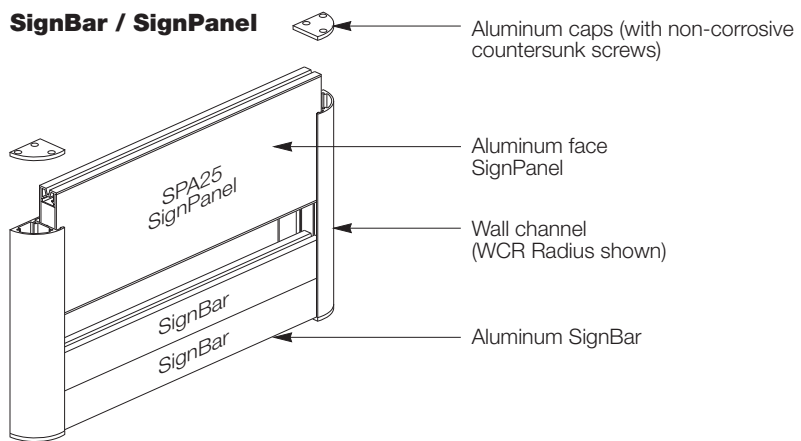
Wall Channel profiles are mechanically fastened to the mounting surface at specific locations to allow insertion of display components, typically from the top. Because mounting surfaces vary, anchor hardware and mounting technique is the responsibility of the installer.

*IMPORTANT: There must be adequate clearance above (or below, if absolutely necessary) to install/service the tallest display component. SignBars and SignPanels do not require tension pins.*



SignBar, SPA25 SignPanel or SignPanel Universal only (Or any combination)

**SignBar / SignPanel**



SignPanel heights	Visible SignPanel widths (See Notes 1, 2, & 3)							
	12"	18"	24"	30"	36"	48"	60"	72"
12"	•	•	•	•	•	•	•	•
18"	•	•	•	•	•	•	•	•
24"	•	•	•	•	•	•	•	•
30"	•	•	•	•	•	•	•	•
36"	•	•	•	•	•	•	•	•
48"	•	•	•	•	•	•	•	•
60"	•	•	•	•	•	•	n/a	n/a
72"	•	•	•	•	•	•	n/a	n/a

Note 1: Wall Mount SPA25 SignPanels are cut 7/8" wider than visible SignPanel width to fit within each wall channel pocket (7/16" each end).

Note 2: Refer to "SignPanel Universal Overview" for SignPanel Universal available sizes.

# 5160 Series

## Projection Wall Mount (SPPVC6, SPA6 & SPA25)

**5160**  
Projection Wall Mount

**5160 Series**

Projection mount configurations are for 1/4" aluminum and aluminum-faced 1" and 2" thick SignPanels only.

The SPPVC6 SignPanel is 6mm (1/4") Acrylite SG (polycarbonate) sheet. The SPA6 SignPanel is 1/4" aluminum. Each is pre-attached to an aluminum SPRF Reduction Filler profile which slides into the post pocket. Once engaged, SignPanels are stabilized via non-corrosive set screws thru the face of the post.

The SPA25 is an aluminum faced sign panel with a custom frame member at the post side that slides into the post pocket.

**Graphic Application Options**

Refer to "SignPanel System Overview" earlier in this section.

**Finishes/Colors**

Aluminum post and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Mounting Technique**

The aluminum SPFM50 support bracket is extruded from 6063-T6 alloy and is supplied with non-corrosive screws to retain 3/16" thick aluminum caps at top and bottom.

The SPFM50 can be mechanically fastened to a flat surface or to a pole as small as 3" in diameter. If drilling into a pole is undesirable or unsafe (i.e. utility pole with internal wiring), slots can be cut into the SPFM50 bracket to accept stainless steel banding straps. Straps can be customer provided or supplied by APCO.

*IMPORTANT: Because mounting surfaces vary, anchor hardware and mounting technique is the responsibility of the installer.*

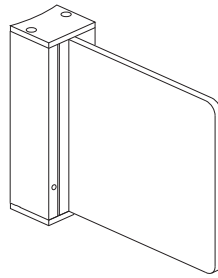
**SignPanel Sizes**

Single post mount SignPanels can be constructed in virtually any size from 12" x 12" up to 30" x 24".

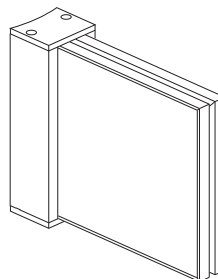
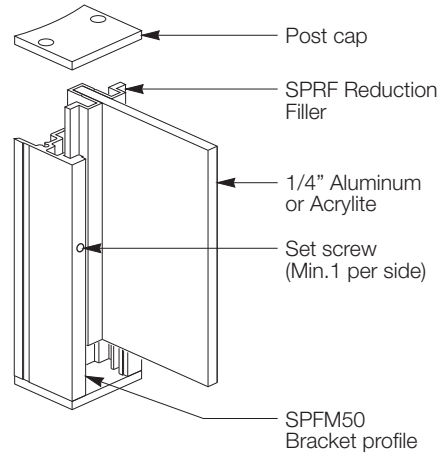
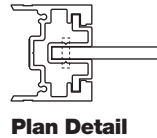
SignPanel heights	Visible SignPanel widths		
	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

Note 1: SPPVC6 and SPA6 SignPanels are cut 13/16" wider than visible SignPanel width to fit within the single SPRF Reduction Filler.

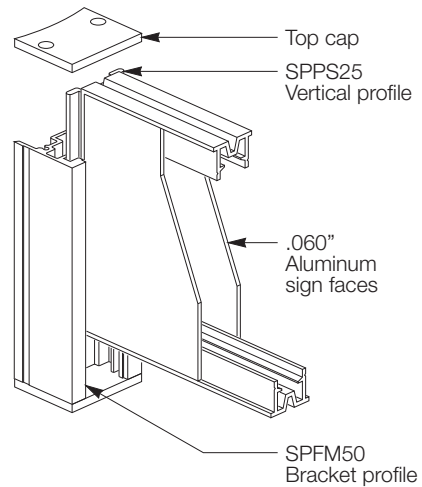
Note 2: SPA25 SignPanel cut width and visible width is equal.



**SPPVC6**  
6mm (1/4") Thick Acrylite SG  
**SPA6**  
1/4" (6mm) Thick Aluminum

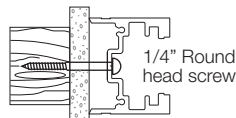


**SPA25**  
1" (25mm) Thick  
with .060" Aluminum Faces



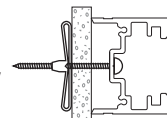
**Wall Mount Fastener Suggestions**

Dry Wall/Lag Screws



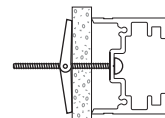
Hollow Walls with Wood Studs: Dry wall, gypboard, etc.

Star Anchors



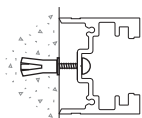
Hollow Walls: Dry wall, gypboard, etc.

Toggles



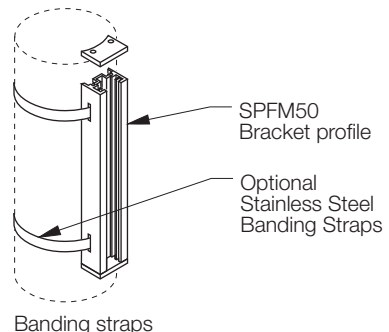
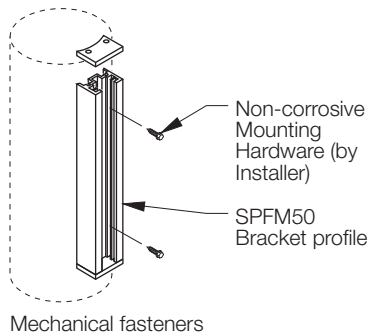
Hollow Walls: Dry wall, gypboard, etc.

Expansion Anchors



Stone & Masonry Walls: granite, marble, brick, concrete, etc.

**Post / Pole Mount**



**5160**  
Projection Wall Mount

### 5160 Series

Projection mount configurations are for 1/4" aluminum and aluminum-faced 1" and 2" thick SignPanels only.

The SPA50 SignPanel includes an aluminum reveal profile which mechanically fastens to the SignPanel and slides into the post pocket. Reveal configurations include 1/2" wide PolySign spacer, SPF profile when a flush fit is desirable or 1/4" wide SPRFS spacer.

### Graphic Application Options

Refer to "SignPanel System Overview" earlier in this section.

### Finishes/Colors

Aluminum post and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

### Mounting Technique

The aluminum SPFM50 support bracket is extruded from 6063-T6 alloy and is supplied with non-corrosive screws to retain 3/16" thick aluminum caps at top and bottom.

The SPFM50 can be mechanically fastened to a flat surface or to a pole as small as 3" in diameter. If drilling into a pole is undesirable or unsafe (i.e. utility pole with internal wiring), the SPFM50 bracket is fabricated with slots to accept stainless steel banding straps. Straps can be provided by the customer or APCO.

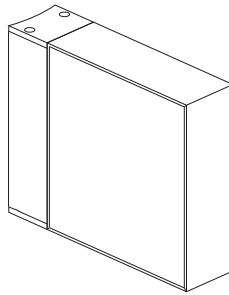
*IMPORTANT: Because mounting surfaces vary, anchor hardware and mounting technique is the responsibility of the installer.*

### SignPanel Sizes

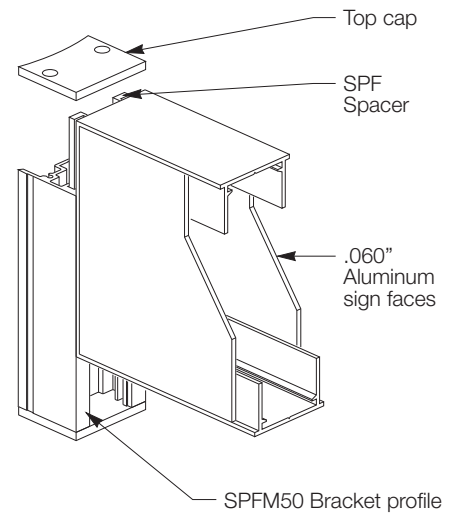
Single post mount SignPanels can be constructed in virtually any size from 12" x 12" up to 30" x 24".

SignPanel heights	Visible SignPanel widths		
	12"	18"	24"
12"	•	n/a	n/a
18"	•	•	n/a
24"	•	•	•
30"	•	•	•

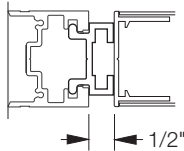
Note 1: SPA50 SignPanel cut width and visible width is equal.



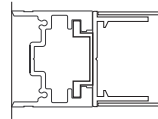
**SPA50**  
2" (50mm) Thick  
with .060" Aluminum Faces



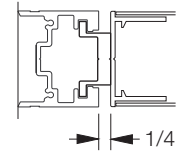
**SPA50 PolySign Spacer**  
1/2" Reveal (Std)



**SPA50 SPF - Flush**  
(No reveal)

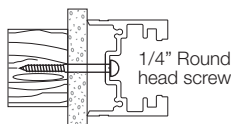


**SPA50 SPRFS - 1/4" reveal**



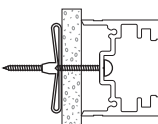
### Wall Mount Fastener Suggestions

Dry Wall/Lag Screws



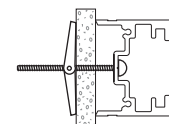
Hollow Walls with Wood Studs: Dry wall, gypboard, etc.

Star Anchors



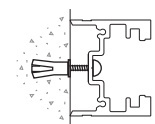
Hollow Walls: Dry wall, gypboard, etc.

Toggles



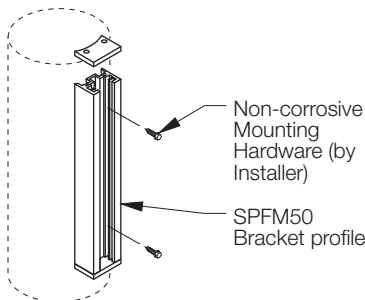
Hollow Walls: Dry wall, gypboard, etc.

Expansion Anchors

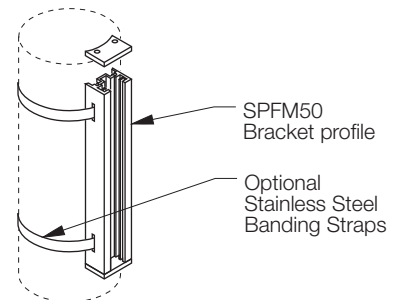


Stone & Masonry Walls: granite, marble, brick, concrete, etc.

### Post / Pole Mount



Mechanical fasteners (Standard)



Banding straps (Optional)

# 5170 Series Ceiling Mount (Flush)

**5170**  
Ceiling Mount

**5170 Series**

Flush ceiling mount configurations are for 1/4" aluminum and aluminum-faced 1" and 2" thick SignPanels only.

The SPPVC6 SignPanel is 6mm (1/4") Acrylite SG (polycarbonate) sheet. The SPA6 SignPanel is 1/4" aluminum. Each is pre-attached to an aluminum SPRF Reduction Filler profile which slides into the hanging bracket pocket.

The SPA25 is an aluminum faced sign panel with a custom frame member at the post side that slides into the hanging bracket pocket.

The SPA50 SignPanel includes an aluminum reveal profile which mechanically fastens to the SignPanel and slides into the hanging bracket pocket. Reveal configurations include 1/2" wide PolySign spacer, SPF profile when a flush fit is desirable or 1/4" wide SPRFS spacer.

**Hanging Bracket**

Flush ceiling mount SignPanels include an aluminum SPFM50 hanging bracket extruded from 6063-T6 alloy. Bracket is supplied with non-corrosive screws to retain 3/16" thick aluminum caps at each end.

*IMPORTANT: Because mounting surfaces vary, anchor hardware and mounting technique is the responsibility of the installer.*

**Graphic Application Options**

Refer to "SignPanel System Overview" earlier in this section.

**Finishes/Colors**

Aluminum hanging bracket and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

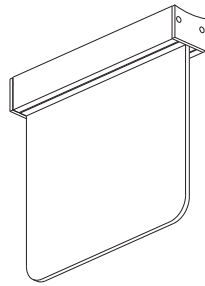
**SignPanel Sizes**

Ceiling mounted SignPanels can be constructed in virtually any size from 9" x 24" up to 48" x 72".

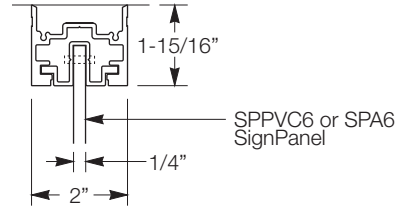
Visible SignPanel heights	SignPanel widths				
	24"	36"	48"	60"	72"
9"	•	•	•	•	•
12"	•	•	•	•	•
18"	•	•	•	•	•
24"	•	•	•	•	•
48"	•	•	•	•	•

Note 1: SPPVC6 and SPA6 SignPanels are cut 13/16" taller than visible SignPanel height to fit within SPRF Reduction Filler.

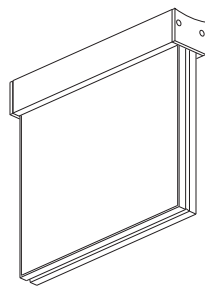
Note 2: SPA25 and SPA50 SignPanel cut heights and visible heights are equal.



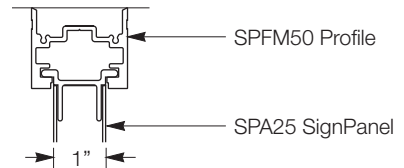
**SPPVC6**  
6mm (1/4") Thick Acrylite SG  
**SPA6**  
1/4" (6mm) Thick Aluminum



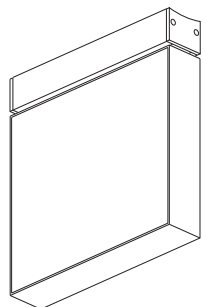
**End Section View**



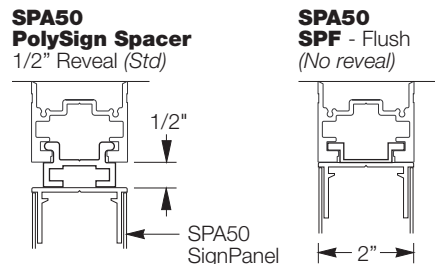
**SPA50**  
1" (25mm) Thick  
with .060" Aluminum Faces



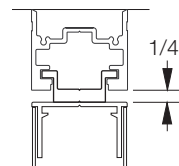
**End Section View**



**SPA50**  
2" (50mm) Thick  
with .060" Aluminum Faces

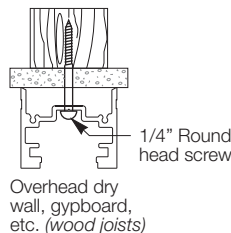


**SPA50 SPRFS - 1/4" reveal**

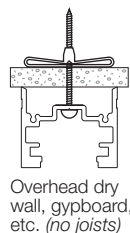


**Ceiling Mount Fastener Suggestions**

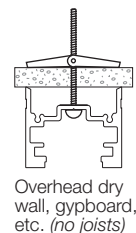
Dry Wall/Lag Screws



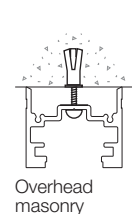
Star Anchors



Toggles



Expansion Anchors



**5170**  
Ceiling Suspended

**5170 Series**

Suspended ceiling mount configurations are for 1/4" aluminum and aluminum-faced 1" thick SignPanels only.

The SPPVC6 SignPanel is 6mm (1/4") Acrylite SG (polycarbonate) sheet. The SPA6 SignPanel is 1/4" aluminum. Each is pre-attached to an aluminum SPRF Reduction Filler profile which slides into the hanging bracket pocket.

The SPA25 is an aluminum faced sign panel with a custom frame member on top that slides into the hanging bracket pocket.

**Hanging Bracket**

The ceiling suspended SignPanel is supported from a 2" or 4" post profile. The SPR50 and SPR100 radius posts are standard hanging brackets. However, any one of APCO post profiles can be used. Refer to "Support Posts" earlier in this section for additional information.

Hanging brackets will be supplied with non-corrosive screws to retain 3/16" thick aluminum caps at each end and 1/16" diameter stainless steel wire rope (360 lb. capacity) protruding thru the top at a minimum of two locations.

*IMPORTANT: Because mounting surfaces vary, cable attachment hardware and mounting technique is the responsibility of the installer.*

**Graphic Application Options**

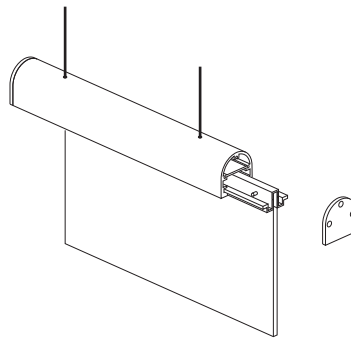
Refer to "SignPanel System Overview" earlier in this section.

**Finishes/Colors**

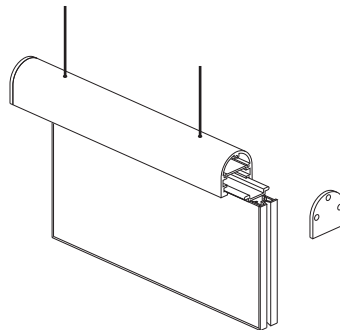
Aluminum hanging bracket and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**SignPanel Sizes**

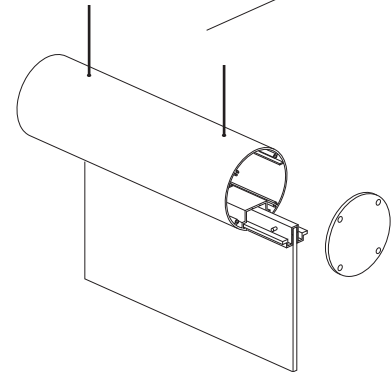
Ceiling suspended SignPanels can be constructed in virtually any size from 9" x 24" up to 48" x 72".



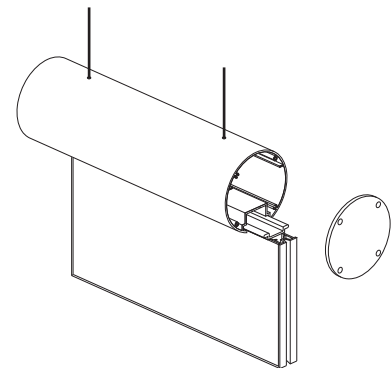
**SPPVC6-50 / SPA6-50**  
6mm (1/4") Thick Acrylite SG /  
6mm (1/4") Thick aluminum  
(SPR50 Radius post profile shown)



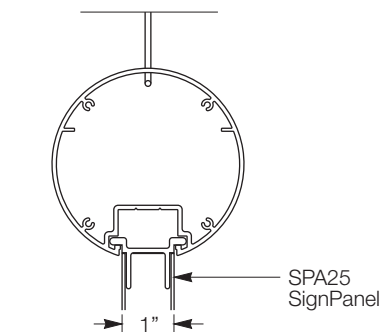
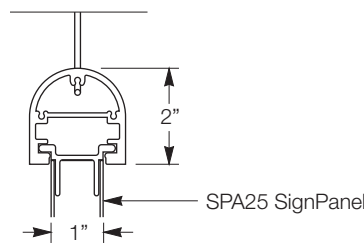
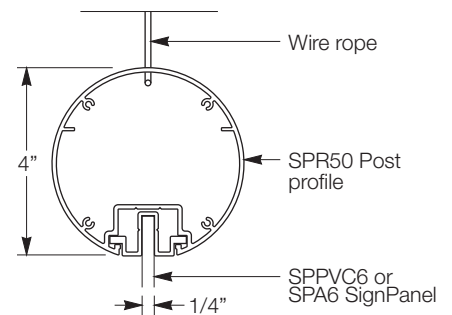
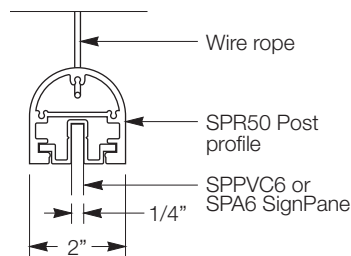
**SPA25-50**  
1" (25mm) Thick with .060" aluminum faces  
(SPR50 Radius post profile shown)



**SPPVC6-100 / SPA6-100**  
6mm (1/4") Thick Acrylite SG /  
6mm (1/4") Thick aluminum  
(SPC100 Circular post profile shown)



**SPA25-100**  
1" (25mm) Thick with .060" aluminum faces  
(SPC100 Circular post profile shown)



Visible SignPanel heights	SignPanel widths				
	24"	36"	48"	60"	72"
9"	•	•	•	•	•
12"	•	•	•	•	•
18"	•	•	•	•	•
24"	•	•	•	•	•
48"	•	•	•	•	•

Note 1: SPPVC6 and SPA6 SignPanels are cut 13/16" taller than visible SignPanel height to fit within SPRF Reduction Filler.

Note 2: SPA25 SignPanel cut height and visible height is equal.

### Series 5200 - SignPanel Curved Face System

SignPanel Curved Face is a modular system featuring curved, front-loaded graphic panels in a wide range of configurations and sizes.



**5210.1**  
Center Post  
(Circular)



**5210.2**  
Flag Mount  
(Embedded Post)



**5220.1**  
Double Post  
(Contour)



**5220.2**  
Double Post  
(Circular  
Embedded Posts)



**5230**  
Pylon  
In-Bound Posts

### Features

- Modular concept
- Removable sign faces with vandal resistant, non-corrosive hardware
- Single or double sided graphics
- Durable, fade-resistant finishes
- Engineered extruded aluminum components
- 5 Year Limited Warranty

### Post Mounting Configurations

- Center Post (Circular)
- Flag
- Double Post (Contour)
- Double Post (Embedded Circular)
- Pylon with In-bound Posts

### Optional Circular Post Features

- Decorative Post Caps and Crown Panels
- Decorative Post Rings
- Decorative Post Cover Plate (Escutcheon)

### Finishes/Colors

Aluminum post, cabinet housing and message panels are available in black, dark bronze or natural satin anodized finishes. High-grade, two component polyurethane finishes are also available, offering superior durability for extreme exposure.

### Installation and Maintenance

Each SignBar/SignPanel product is accompanied by complete installation and maintenance instructions.

### Warranty

All SignBar/SignPanel products are backed by a 5 Year Limited Warranty.

### Sign Panel

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

- Optional sign panel material;
- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
  - 2) Acrylite (polycarbonate) for interior use.

### Graphic Application Options

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

- Optional graphic application;
- 1) Permanent, intaglio graphics for interior or exterior use.
  - 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art.

### Selecting a Sign: A Step By Step Guide

The following are necessary steps required for manufacturing.

1. Select the Mounting Configuration that best suits conditions.
2. Select Display Components.
3. Using a Viewing/Distance Chart, determine if bar/panel size selected will accommodate the longest message with a typestyle suitable for viewing.
4. Select Optional Features.
5. Choose a Graphic Application method.
6. Select finishes.
7. Check local authorities to assure size, location and other specifications meet local code requirements.



**Series 5210.1**  
**Single Post - Center Configuration**

**Support Post**

A round aluminum support post slides into a pocket receptacle thru the cabinet bottom plate. Post is secured internally, behind the sign panel.

**Sign Panel**

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

Optional sign panel material;

- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
- 2) Acrylite (polycarbonate) for interior use.

For vandal resistance, tamper resistant #6-32x 1/2" button, pin-in-head socket screws secure the graphic panel to the cabinet. Cabinet heights up to 36" are equipped with one screw on each side of each face. Taller cabinets are equipped with two screws on each side.

**Graphic Application**

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

**Finishes/Colors**

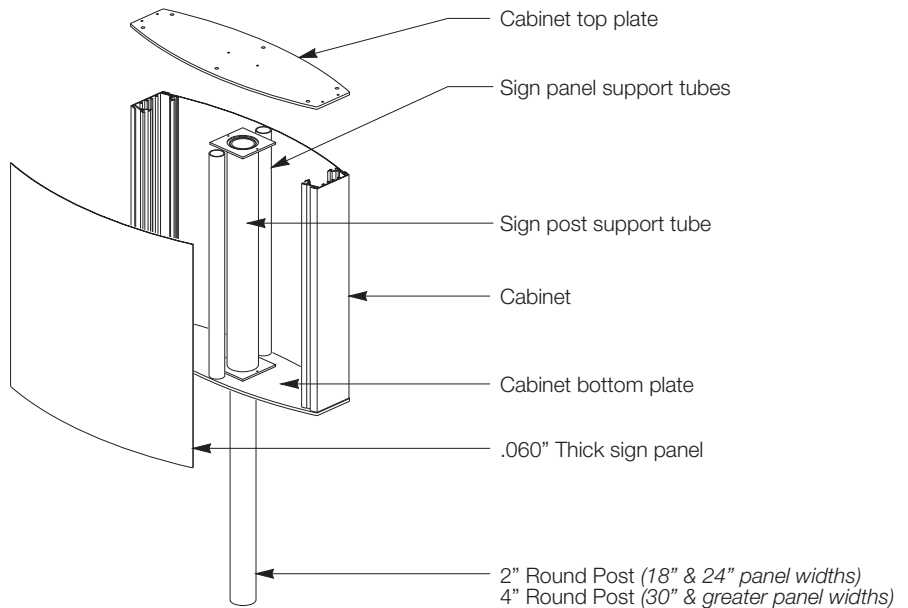
Aluminum post, cabinet housing and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Mounting Technique**

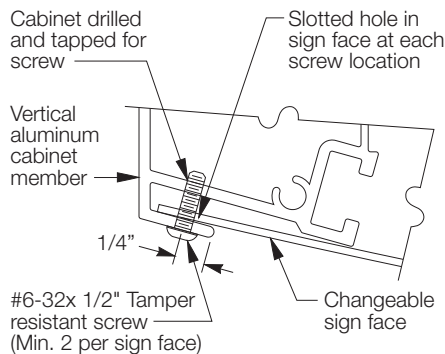
As a standard, support post is implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Post Mounting Options" earlier in this section.

Note 1: 18" and 24" wide panels are provided with 2" round support post.

Note 2: 30", 36" and 48" wide panels are provided with 4" round support post.



**Sign Panel Retaining Screws**



SignPanel Heights	SignPanel Widths (See Notes 1 & 2)				
	18"	24"	30"	36"	48"
12"	n/a	•	•	•	•
18"	•	•	•	•	•
24"	•	•	•	•	•
30"	•	•	•	•	•
36"	•	•	•	•	•
48"	•	•	•	•	•

# 5210.2 Series Flag Mount (Single) Embedded Post

**5210.2**  
Flag Mount  
(Embedded Post)

**Series 5210.2**  
**Single Post - Flag Configuration**  
*Embedded Circular Post*

**Support Post**

An SPC100 circular aluminum post slides onto the support side of the cabinet and is secured via aluminum filler and stop block below.

**Sign Panel**

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

Optional sign panel material;

- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
- 2) Acrylite (polycarbonate) for interior use.

For vandal resistance, tamper resistant #6-32x 1/2" button, pin-in-head socket screws secure the graphic panel to the cabinet. Cabinet heights up to 36" are equipped with one screw on each side of each face. Taller cabinets are equipped with two screws on each side.

**Graphic Application**

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

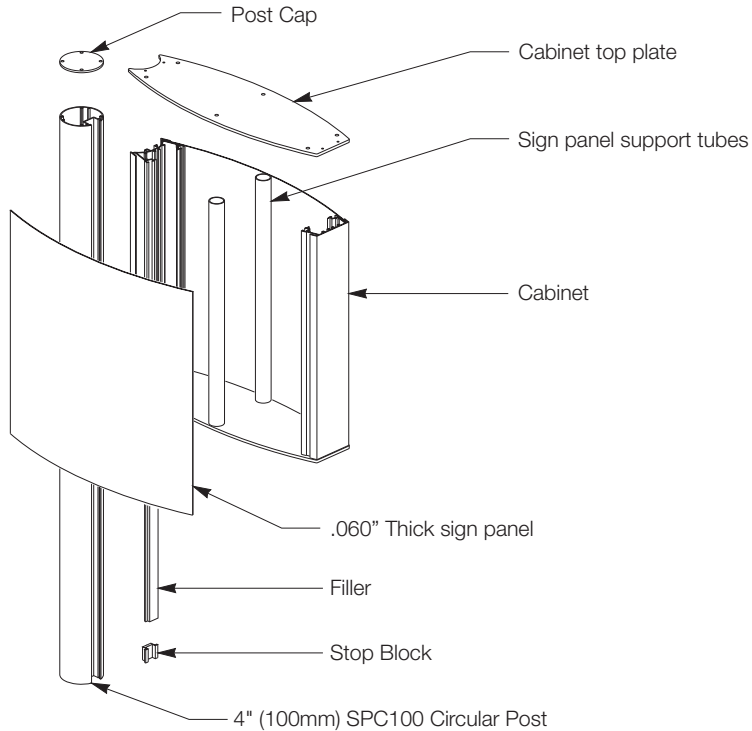
Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

**Finishes/Colors**

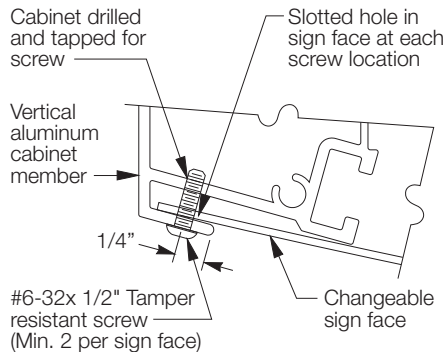
Aluminum post, cabinet housing and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

**Mounting Technique**

As a standard, support post is implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Post Mounting Options" earlier in this section.



**Sign Panel Retaining Screws**

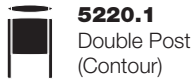


SignPanel Heights	SignPanel Widths		
	12"	18"	24"
12"	n/a	n/a	•
18"	n/a	•	•
24"	•	•	•
30"	•	•	•
36"	•	•	•
48"	•	•	•

# 5220.1 Series Double Post

## Double Post (Contour)

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### Series 5220.1 Double Post Configuration Contour Post

#### Support Post

SPCT100ES Contour aluminum posts slide onto the cabinet and are retained via aluminum post caps, fillers and stop blocks below.

#### Sign Panel

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

Optional sign panel material;

- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
- 2) Acrylite (polycarbonate) for interior use.

For vandal resistance, tamper resistant #6-32x 1/2" button, pin-in-head socket screws secure the graphic panel to the cabinet. Cabinet heights up to 36" are equipped with one screw on each side of each face. Taller cabinets are equipped with two screws on each side.

#### Graphic Application

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

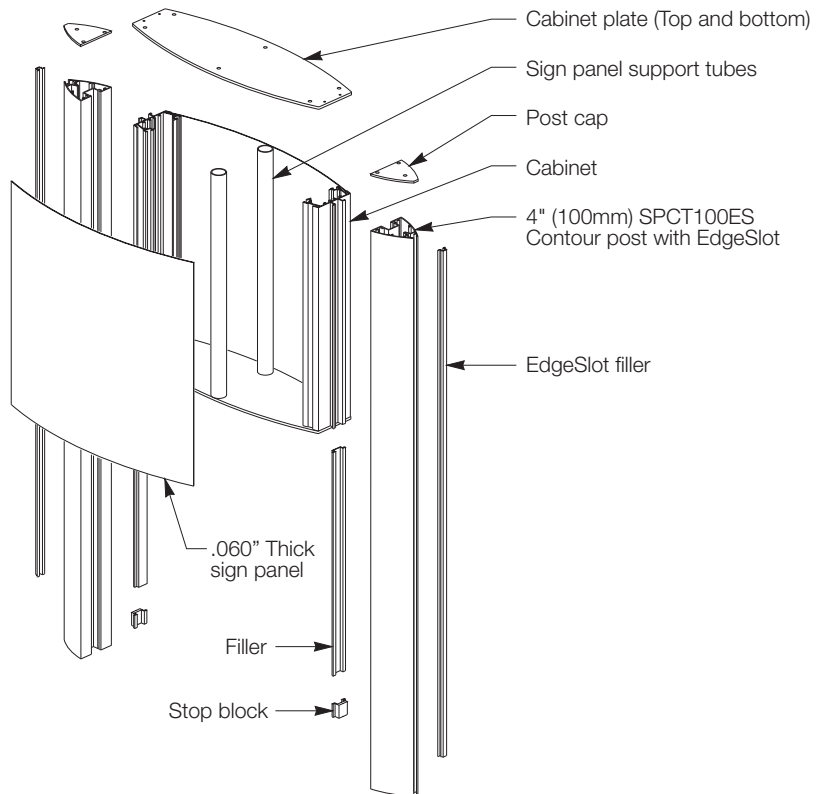
Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

#### Finishes/Colors

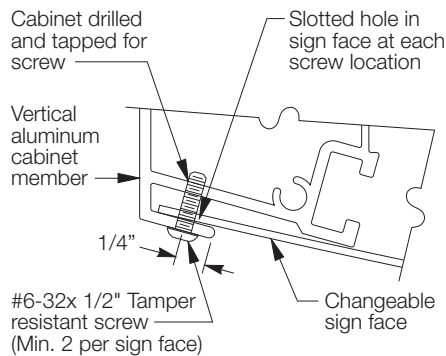
Aluminum post, cabinet housing and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

#### Mounting Technique

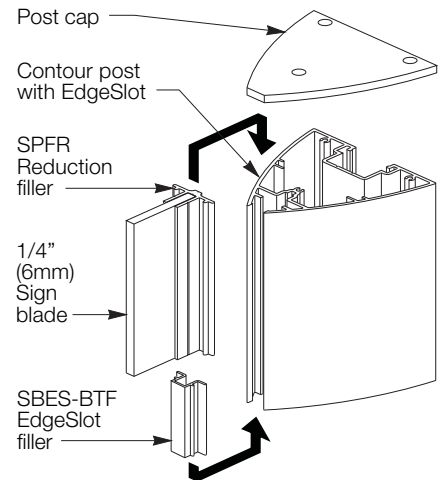
As a standard, support posts are implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Post Mounting Options" earlier in this section.



#### Sign Panel Retaining Screws

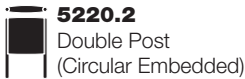


#### Optional EdgeSlot Detail



SignPanel Heights	SignPanel Widths					
	18"	24"	30"	36"	48"	60"
12"	•	•	•	•	•	•
18"	•	•	•	•	•	•
24"	•	•	•	•	•	•
30"	•	•	•	•	•	•
36"	•	•	•	•	•	•
48"	•	•	•	•	•	•
60"	•	•	•	•	•	n/a
72"	•	•	•	•	•	n/a

# 5220.2 Series Double Post Double Post (Circular Embedded)



## Series 5220.2 Double Post Configuration Circular Embedded Post

### Support Post

SPC100 Circular aluminum posts slide onto the cabinet and are retained via aluminum post caps, fillers and stop blocks below.

### Sign Panel

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

Optional sign panel material;

- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
- 2) Acrylite (polycarbonate) for interior use.

For vandal resistance, tamper resistant #6-32x 1/2" button, pin-in-head socket screws secure the graphic panel to the cabinet. Cabinet heights up to 36" are equipped with one screw on each side of each face. Taller cabinets are equipped with two screws on each side.

### Graphic Application

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

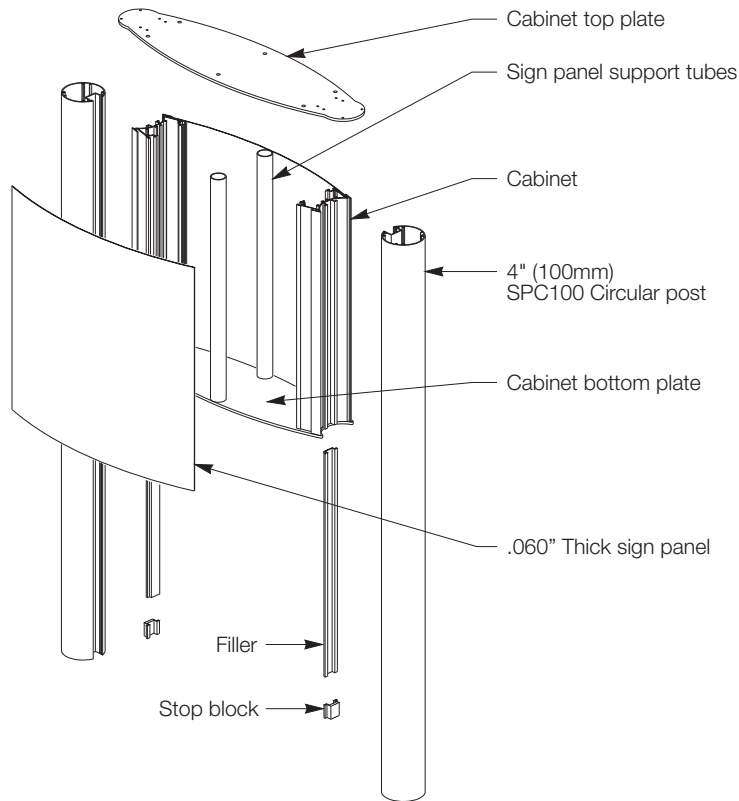
Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

### Finishes/Colors

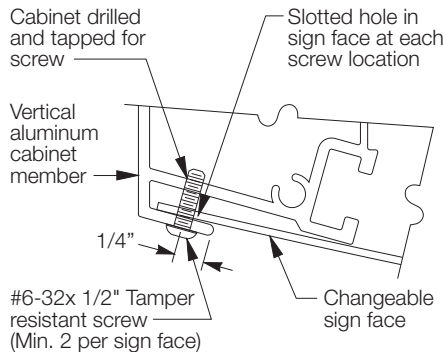
Aluminum post, cabinet housing and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

### Mounting Technique

As a standard, support posts are implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Post Mounting Options" earlier in this section.



### Sign Panel Retaining Screws



SignPanel Heights	SignPanel Widths					
	18"	24"	30"	36"	48"	60"
12"	•	•	•	•	•	•
18"	•	•	•	•	•	•
24"	•	•	•	•	•	•
30"	•	•	•	•	•	•
36"	•	•	•	•	•	•
48"	•	•	•	•	•	•
60"	•	•	•	•	•	n/a
72"	•	•	•	•	•	n/a

**5230**  
Pylon  
In-Bound Posts

**Series 5230**  
**Pylon Configuration**  
In-Bound Post

**Support Post**

A round aluminum support post slides into a pocket receptacle thru the cabinet bottom plate. Post is secured internally, behind the sign panel.

**Sign Panel**

Standard sign panel material is .060" thick aluminum with polyurethane coating for interior or exterior use.

Optional sign panel material;

- 1) Fiberglass with embedded FRP graphics for interior or exterior use.
- 2) Acrylite (polycarbonate) for interior use.

For vandal resistance, tamper resistant #6-32x 1/2" button, pin-in-head socket screws secure the graphic panel to the cabinet. Cabinet heights up to 36" are equipped with one screw on each side of each face. Taller cabinets are equipped with two screws on each side.

**Graphic Application**

Standard graphics are semi-permanent PSV (pressure sensitive vinyl), reflective and/or non-reflective, for interior or exterior use.

Optional graphic application;

- 1) Permanent, intaglio graphics for interior or exterior use.
- 2) Vinyl ADO (APCO Digital Output) graphics for interior or exterior use.

Custom logos, symbols, etc. can be electronically produced by APCO or reproduced from customer's EPS (encapsulated post script) formatted art. Refer to Section 5 of the Technical Binder for additional information.

**Finishes/Colors**

Aluminum post, cabinet housing and message panel finishes include polyurethane coatings or anodized finishes in black, dark bronze or natural satin. Refer to Section 5 of the Technical Binder for additional information.

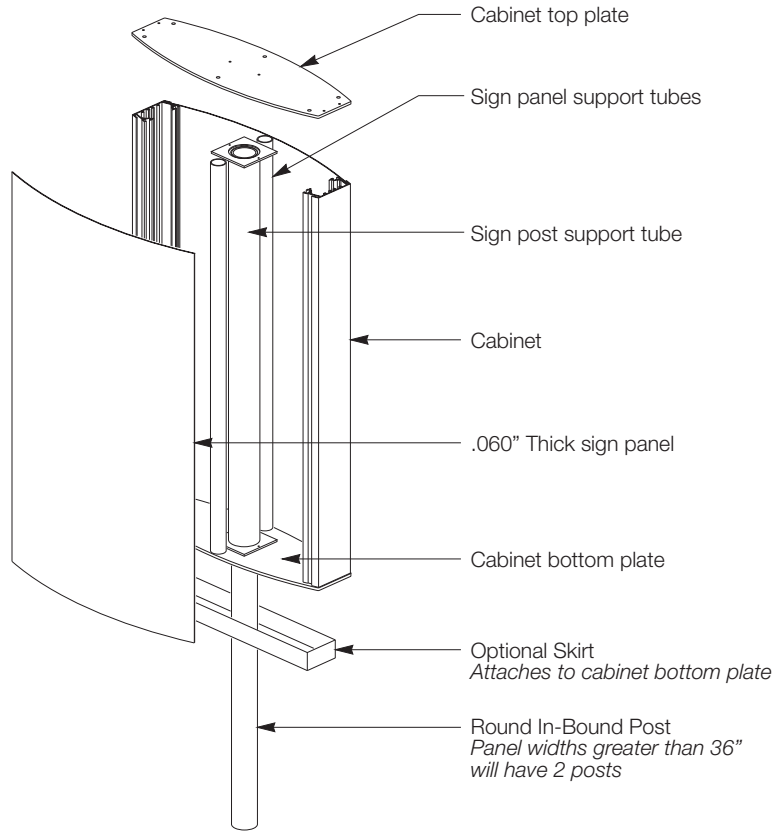
**Mounting Technique**

As a standard, support post is implanted directly into earth. An optional Above Grade mounting method is also available. Refer to "Support Post Mounting Options" earlier in this section.

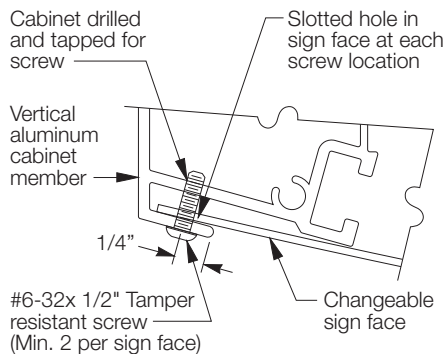
Note 1: 18" and 24" wide panels are provided with 2" round support post.

Note 2: 30" and wider panels are provided with 4" round support post(s).

Note 3: Panel widths greater than 36" will have two support posts.



**Sign Panel Retaining Screws**



**SignPanel Widths** (See Notes 1, 2 & 3)

SignPanel Heights	SignPanel Widths					
	18"	24"	30"	36"	48"	60"
12"	n/a	•	•	•	•	•
18"	n/a	•	•	•	•	•
24"	•	•	•	•	•	•
30"	•	•	•	•	•	•
36"	•	•	•	•	•	•
48"	•	•	•	•	•	•
60"	•	•	•	•	•	n/a
72"	•	•	•	•	•	n/a

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