

# Manual FlexShade System

by **DRAPER**

Please check all appropriate selections and attach room schedule with verified dimensions.

## Select Fabric\*

Color name, no., openness

- Draper GreenScreen® Revive \_\_\_\_\_
- Draper SunBloc SB9000 \_\_\_\_\_
- Draper SunBloc SB9100 \_\_\_\_\_
- Ferrari Soltis 99® \_\_\_\_\_
- Mermet "E" Screen \_\_\_\_\_
- Mermet Flocké \_\_\_\_\_
- Mermet "M" Screen \_\_\_\_\_
- Mermet "S" Screen \_\_\_\_\_
- Mermet SilverScreen \_\_\_\_\_
- Mermet "T" Screen \_\_\_\_\_
- Mermet Vela \_\_\_\_\_
- Mermet Vizela \_\_\_\_\_
- Phifer SheerWeave® Basic \_\_\_\_\_
- Phifer SheerWeave® Infinity \_\_\_\_\_
- Phifer SheerWeave® PW3500/4100/4400 \_\_\_\_\_
- Phifer SheerWeave® PW4500/4600 \_\_\_\_\_
- Phifer SheerWeave® PW4550/4650 \_\_\_\_\_
- Phifer SheerWeave® PW4800 \_\_\_\_\_
- Phifer SheerWeave® SW2000/2100 \_\_\_\_\_
- Phifer SheerWeave® SW2400/2500/2600/2900 \_\_\_\_\_
- Phifer SheerWeave® SW2701/2703/2705/2710 \_\_\_\_\_
- Phifer SheerWeave® SW3000 \_\_\_\_\_
- Phifer SheerWeave® SW5000 \_\_\_\_\_
- Phifer SheerWeave® SW7000 \_\_\_\_\_
- Phifer SheerWeave® SW7100 \_\_\_\_\_
- Phifer SheerWeave® SW7500 \_\_\_\_\_
- Rockland Roc-Rol \_\_\_\_\_

\*Please see Draper's Shade Fabric Reference Sheet for fabric colors and specifications.

## Select Operator

- Bead Chain/Clutch
  - Select Clutch Color
    - White
    - Black
    - Optional Spring Assist (minimum shade width 48")
  - Select Chain
    - Stainless Steel Chain (standard)
    - Polyester Chain
      - Ivory
      - Grey
      - Black
      - White
      - Brown
- Crank. Specify handle length (6' max.) \_\_\_\_\_  
Or, list sill ht. or ht. of unit off floor for proper handle length \_\_\_\_\_
  - Fixed Handle (6' max.) (one per unit)
  - Detachable Handle (6' max.)
  - Heavy Duty handle (10' max)
  - Two Piece Handle
    - Specify # of handles per job \_\_\_\_\_
- Spring Roller

## Select Cord Tension Device (Bead Chain only)

- P-Clip Cord Tension Device
- Optional Spring Loaded Cord Tension Device

## For Multiple Panels, Select Roller Installation:

- Standard
- Coupled (Crank Operator Only)

## Select Operator Location (except spring roller)

Select **right side (standard)** or left side as seen from inside the room, facing the window. Also indicate selection on room schedule.

- Right Side (standard)
- Left Side

## Select Hardware

- Universal Brackets (Ceiling/Wall/Inside/Outside) (Not available with crank)
- Optional Endcaps only
- Optional Fascia with Endcaps
  - Radius (**Small Hardware Only—not available with crank operator**)
  - Square
- Optional Headbox
  - Surface Style
  - Pocket Style
- Optional Type "D" Pocket with Tile Lip
- Optional Type "D" Dual Pocket with Tile Lip
- Optional Channels for Light Gap Reduction
  - ¾" x 1" x 12'3" "L" Channels (Or Indicate Cut Length: \_\_\_\_\_)
  - 1" x 2¾" x 16' "L" Channels (Or Indicate Cut Length: \_\_\_\_\_)
  - 1" x 2½" x 16' "U" Channels (Or Indicate Cut Length: \_\_\_\_\_)

## Select Hardware Finish

- Clear Anodized (standard)
- Black  Ivory
- White  Bronze

## Select Fabric Orientation

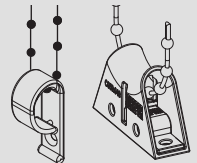
- Regular Roll (from back of roller)
- Reverse Roll (from front of roller) [Not available with fascia]

## Select Installation Option

- Inside (head/sill, jamb/jamb)
- Outside (overlap opening)
- Do any units abut at mullions? Which?
- Do any units install in pocket at ceiling? Which?

## Safety Note for Bead Chain Clutch Shades

Please Note: If shades are to be installed in areas accessible to young children, be certain to use cord tension device included with Bead Chain Clutch shades. Clutch-operated shades should not be installed near cribs or playpens.



For dimensions, see page 3.

PROJECT: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUPPLIER: \_\_\_\_\_

DATE: \_\_\_\_\_ REVISED: \_\_\_\_\_

**DRAPER**®



## Specifications-Manual FlexShades

### Equipment

**Bead Chain Clutch Operator:** DuPont™ Zytel® nylon resin (glass fiber reinforced), black or white. Bi-directional for mounting at either end of roller. Control loop, of any length, is a plastic or stainless steel bead chain (standard). Plastic chain in ivory, grey or black. Never needs adjusting. **Right hand location standard**, left hand available. Patent pending.

**Optional Spring-Assist Bead Chain Clutch:** Adjustment-free system shall be comprised of various components including a modified clutch and spring assist components. The clutch portion shall be comprised of multi-banded steel springs that create the pressure necessary to keep the shade in the desired position. All plastic components to be made of injected molded parts. All plastic clutch components to be made of glass reinforced polyester thermopolymer (PBT) conforming to military specification MIL M-24519. The clutch shall develop no more than 1/2 pound drag for easy lift. The Spring Assist assembly components shall be constructed from following materials: 1/4" inch Square Rod: 6061 Aluminum. Rod Retainer: Acetal plastic such as Delrin 500. Coiled Steel Spring Pin. Endcap: Polyester based plastic such as GE Valox 420 or equal quality. Sleeve: Low density polyethylene. Actuator: Polyester based plastic such as GE Valox 420 or equal quality. Spring: ASTM A 228 Stress Relieved High Carbon Steel. There shall be separate springs assist assemblies; one for left-hand control and one for right-hand control in two lengths each to accommodate a wide range of shade weight options. The System to be adaptable for left or right hand installation and can be adapted for either standard or reverse roll shades. The system shall require utilization of proprietary computer software to calculate appropriate spring size, tube diameter and pre-rotation tension. Utilizing proprietary computer software, the Spring Assist assembly shall ensure even lift and lowering forces of approximately 6 lbs or less on any weight fully assembled shade up to the maximum shade weight of 30 lbs.

**End Plug:** End plug to consist of an outside sleeve rotating freely on a center shaft, providing the bearing surfaces on which the roller rides. Outside sleeve and center shaft to be made of heat stabilized fiber reinforced plastic to ensure smooth, wear resistant operation.

**Crank Operator:** Gear box, of die cast aluminum and steel, has ratio of 3.0 to 1. Bi-directional to mount at either end of roller. Never needs lubrication or adjustment. Crank handle assembly, of anodized aluminum and chrome plated steel, up to 6' in length, detachable or permanently mounted. Heavy duty crank optionally available in lengths to 10'. Optional 2-Piece crank handle available for shades 14' or more above floor. Crank roller insert, of injection molded nylon and steel, is installed in the roller and engages to gear box.

**Spring Roller Operator:** Institutional quality, all with heavy-duty springs. All shades are mounted on one piece electro-galvanized, or enamel, steel rollers.

### Components

**Rollers** (except spring rollers): Sizes 1 1/4" dia. x .030 wall, 1 1/2" dia. with .065 wall, or 2" dia. with .080 wall, in steel or extruded aluminum. Roller assembly easily removable.

**Mounting Brackets:** 1018 plated steel stamping. Sizes 1 5/8" and 2 1/4". Mount to face, ceiling, or jamb. Brackets do not require additional adapters.

**Roller Idler Assembly:** Fiberglass reinforced polyester thermopolymer (PBT), with spring-loaded pin to interlock with mounting bracket.

**Slat:** Aluminum, min. 1/8" x 1", encased in heat sealed hem.

**Coupler Assembly (Crank Units only):** Zinc plated steel Coupler Shafts shall be retractable into coupler assembly for ease of installation and to lock units in place. Zinc plated steel coupler brackets shall have spherical OD bearings allowing for misalignment of the mounting brackets of up to 1.25-degrees. One crank operator to drive additional shade rollers. Patent Pending.

**Endcaps:** 1018 steel stamping. 2 sizes: 3 1/4" x 3 3/4" and 4 1/2" x 4 1/2". Complete with adapter roller bracket. Installs to face, ceiling, or jamb. Accepts box covers and fabric guide.

**Endcap Covers:** Plastic covers snap onto endcaps. Available in ivory, bronze, black or white to match fascia.

**Fascia:** L-shaped or radius cover of extruded aluminum, .060 wall. Assembly snaps onto endcaps without exposed fasteners. Radius fascia on small hardware only-not available on large fascia or crank-operated shades. **Clear anodized (standard)** finish or black, white, ivory or bronze powder coat finish.

**Headbox:** Standard consists of fascia, L-shaped back/top cover. Assembly snaps onto endcaps. Optional, for pocket installation, includes a U-shaped back/top/front cover with removable bottom closure panel. Small size: 3 7/16" x 3 15/16". Large size: 4 1 1/16" x 4 1 1/16". Some exposed fasteners required. **Clear anodized (standard)** finish or black, white, ivory or bronze powder coat finish.

**Type D Pocket:** Type D Shade Pocket, to be fabricated of metal for perimeter installation. Accepts FlexShades installed with ceiling brackets. Finished in white paint. 5" x 5 3/8" x .125" with 7/8" tile support lip and removable bottom closure. Dual pocket 9 1/2" x 5 3/8" x .125" with 7/8" tile support lip and removable bottom closure.

**Battens:** In order to ensure proper flatness and tracking, Draper reserves the right to utilize metal battens, installed in pockets across entire width of shade.

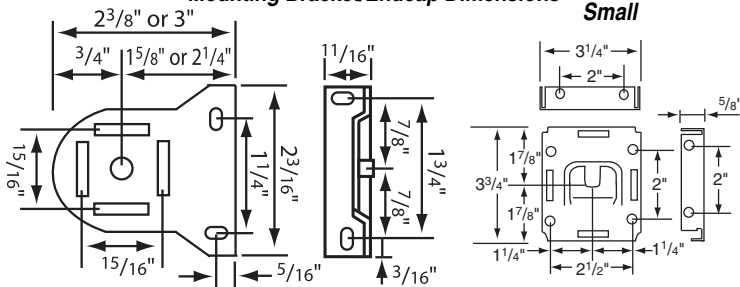
**"L" Angle** (3/4" x 1" x 12'3", 1" x 2 3/4" x 16' or cut to length) and **"U" Channel** (1" x 2 1/2" x 16' or cut to length): Accepts side edges of fabric, prevents light gaps. Interior of channel provides for use of flat head screws.

**Please note: Dimensions of rollers, operators and hardware at manufacturer's discretion.**

**Downloadable 3-part specifications are available at [www.draperinc.com](http://www.draperinc.com).**

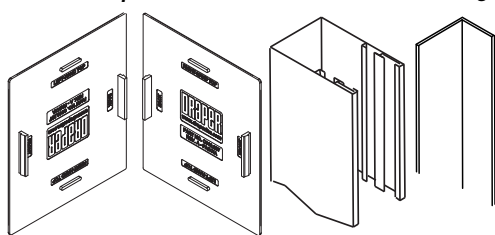
Zytel® is a registered trademark of E. I. du Pont de Nemours and Company. DuPont™ is a trademark of E. I. du Pont de Nemours and Company.

### Mounting Bracket/Endcap Dimensions



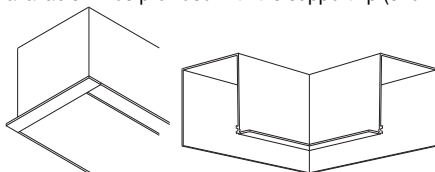
### Endcap Covers

### "U" Channel "L" Angle



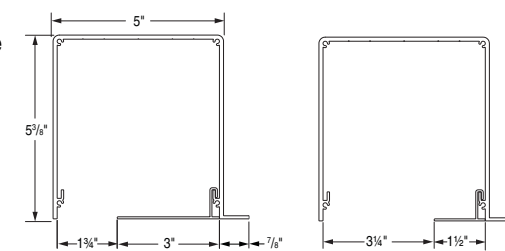
### Pocket Options

**Type D pocket**, white in color, features a 4 1/2" x 4 5/8" cross-section. A lip along lower edge supports lay-in ceiling. Suitable for use with clutch operated FlexShades. Pre-welded corners and pocket ends are available. Ends provided with tile support lip (shown).



Typical Type D pocket end (not to scale) Typical Type D pre-welded corner section (not to scale)

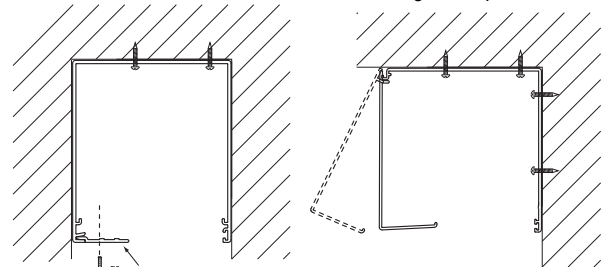
### Type D Pocket



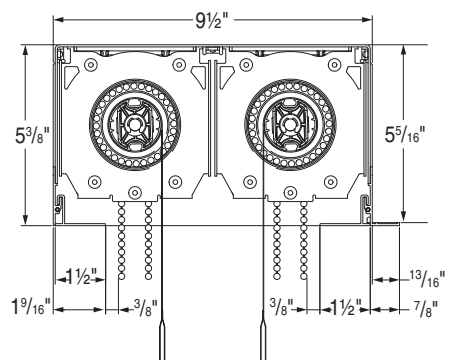
### Headbox Installation Options

Pocket style headbox consists of Draper's extruded pocket with bottom closure panel and ceiling/wall mounting endcaps

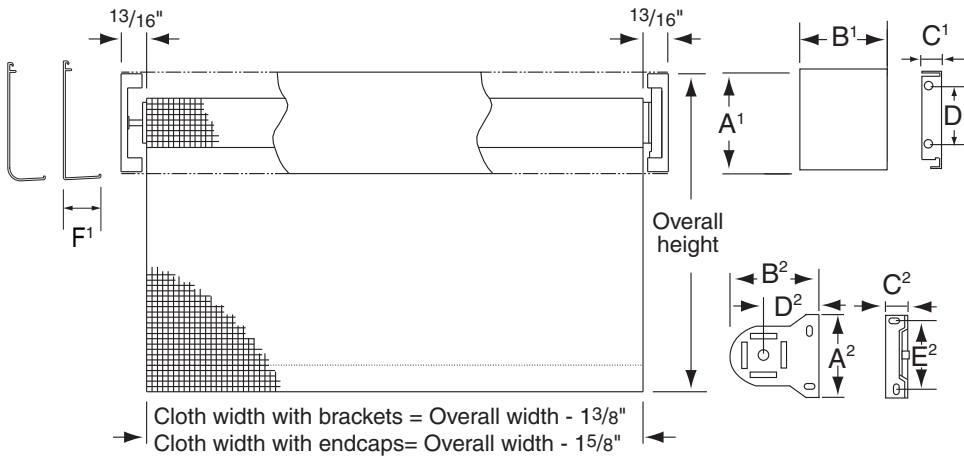
Surface style headbox consists of fascia, back/top cover and ceiling/wall mounting endcaps



### Type D Dual Pocket



## Clutch-Operated FlexShade



When measuring shade height, remember to include endcaps and fascia or headbox.

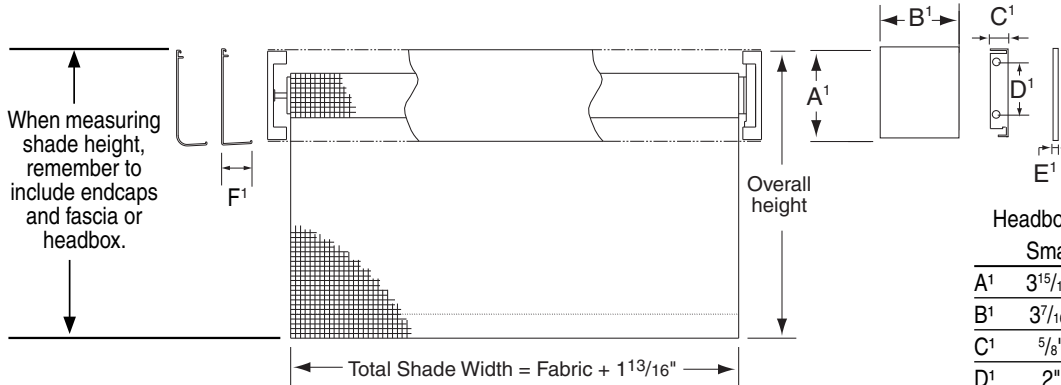
	Headbox with Endcaps		Fascia with Endcaps		Brackets*	
	Small	Large	Small	Large	Small	Large
A <sup>1</sup>	3 <sup>15</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	3 <sup>7</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	A <sup>2</sup>	2 <sup>3</sup> / <sub>16</sub> " 2 <sup>3</sup> / <sub>16</sub> "
B <sup>1</sup>	3 <sup>7</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	B <sup>2</sup>	2 <sup>3</sup> / <sub>8</sub> " 3"
C <sup>1</sup>	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	C <sup>2</sup>	1 <sup>1</sup> / <sub>16</sub> " 1 <sup>1</sup> / <sub>16</sub> "
D <sup>1</sup>	2"	3 <sup>1</sup> / <sub>4</sub> "	2"	3 <sup>1</sup> / <sub>4</sub> "	D <sup>2</sup>	1 <sup>5</sup> / <sub>8</sub> " 2 <sup>1</sup> / <sub>4</sub> "
E <sup>1</sup>	1 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	1 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	E <sup>2</sup>	1 <sup>3</sup> / <sub>4</sub> " 1 <sup>3</sup> / <sub>4</sub> "
F <sup>1</sup>	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	F <sup>2</sup>	N/A N/A

Above dimensions based upon 20 lb. clutch and 1/2" diameter roller.

\* Small brackets are supplied with #10 and #20 clutch. Large bracket optionally available at Draper's discretion. For #24 clutch, contact Draper for dimensions.

(Fascia Overall Width includes plastic endcap covers)  
(Pair adds 1/8" to Overall Width)

## Crank-Operated FlexShade

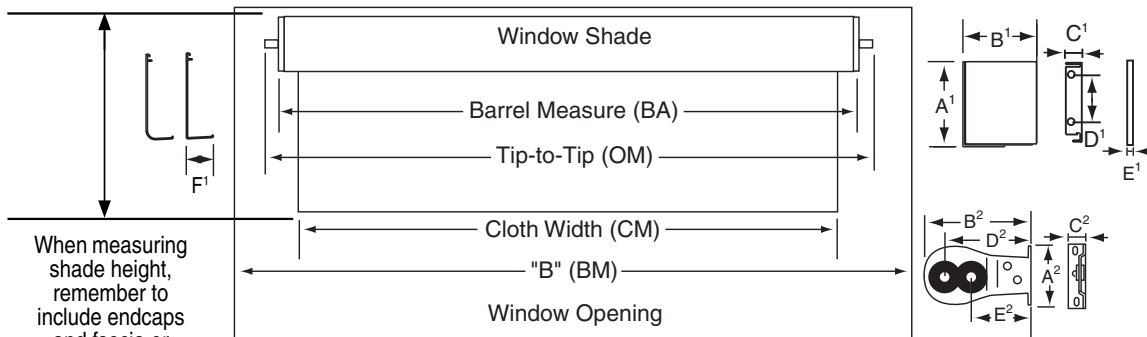


When measuring shade height, remember to include endcaps and fascia or headbox.

	Headbox with Endcaps		Endcaps with Fascia	
	Small	Large	Small	Large
A <sup>1</sup>	3 <sup>15</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	A <sup>1</sup>	3 <sup>7</sup> / <sub>8</sub> " 4 <sup>5</sup> / <sub>8</sub> "
B <sup>1</sup>	3 <sup>7</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	B <sup>1</sup>	3 <sup>3</sup> / <sub>8</sub> " 4 <sup>5</sup> / <sub>8</sub> "
C <sup>1</sup>	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	C <sup>1</sup>	5 <sup>5</sup> / <sub>8</sub> " 5 <sup>5</sup> / <sub>8</sub> "
D <sup>1</sup>	2"	3 <sup>1</sup> / <sub>4</sub> "	D <sup>1</sup>	2" 3 <sup>1</sup> / <sub>4</sub> "
E <sup>1</sup>	1 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	E <sup>1</sup>	1 <sup>1</sup> / <sub>16</sub> " 3 <sup>3</sup> / <sub>32</sub> "
F <sup>1</sup>	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	F <sup>1</sup>	1 <sup>3</sup> / <sub>16</sub> " 1 <sup>9</sup> / <sub>16</sub> "

(Fascia Overall Width includes plastic endcap covers)  
(Pair adds 1/8" to Overall Width)

## Spring-Roller FlexShade



When measuring shade height, remember to include endcaps and fascia or headbox.

	Headbox with Endcaps		Endcaps with Fascia		Brackets*	
	Small	Large	Small	Large	Small	Large
A <sup>1</sup>	3 <sup>15</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	A <sup>1</sup>	3 <sup>7</sup> / <sub>8</sub> " 4 <sup>5</sup> / <sub>8</sub> "	A <sup>2</sup>	1 <sup>3</sup> / <sub>8</sub> " 1 <sup>15</sup> / <sub>16</sub> "
B <sup>1</sup>	3 <sup>7</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	B <sup>1</sup>	3 <sup>3</sup> / <sub>8</sub> " 4 <sup>5</sup> / <sub>8</sub> "	B <sup>2</sup>	2" 2 <sup>5</sup> / <sub>8</sub> "
C <sup>1</sup>	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	C <sup>1</sup>	5 <sup>5</sup> / <sub>8</sub> " 5 <sup>5</sup> / <sub>8</sub> "	C <sup>2</sup>	5 <sup>5</sup> / <sub>8</sub> " 1 <sup>3</sup> / <sub>16</sub> "
D <sup>1</sup>	2"	3 <sup>1</sup> / <sub>4</sub> "	D <sup>1</sup>	2" 3 <sup>1</sup> / <sub>4</sub> "	D <sup>2</sup>	1 <sup>5</sup> / <sub>8</sub> " 2 <sup>3</sup> / <sub>16</sub> "
E <sup>1</sup>	1 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	E <sup>1</sup>	1 <sup>1</sup> / <sub>16</sub> " 3 <sup>3</sup> / <sub>32</sub> "	E <sup>2</sup>	1 <sup>1</sup> / <sub>4</sub> " 1 <sup>3</sup> / <sub>4</sub> "
F <sup>1</sup>	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	F <sup>1</sup>	1 <sup>3</sup> / <sub>16</sub> " 1 <sup>9</sup> / <sub>16</sub> "	F <sup>2</sup>	N/A N/A

(Fascia Overall Width includes plastic endcap covers)  
(Pair adds 1/8" to Overall Width)



