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# HENDERSON

COMMERCIAL AND INDUSTRIAL  
SLIDING AND FOLDING DOOR HARDWARE



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# HENDERSON

P C Henderson has long been acknowledged as the world leader in the design and manufacture of Sliding Gear Systems for residential, commercial and industrial applications.

Established in 1921, the company is a member of Cardo Door, the largest Business Area within Cardo AB, a major European engineering products group with an annual turnover in excess of £700 million.

P C Henderson is based in Bowburn in North East England and has subsidiaries in Holland and Ireland. The company has a long established sales and distribution network in over 70 countries, with head office support from Henderson's fully trained technical sales team.

The company is committed to quality and is registered to BS EN ISO 9002: 1994 Quality Systems.

## HENDERSON COMMERCIAL RANGE

The three models in the Henderson commercial range - Husky Glass, Pacer and Flexirol - are suitable for doors weighing up to 1100 lbs. (500kg). They are ideal for applications such as shop-fronts, hotels, conference centers and offices, where smooth action, high performance and aesthetics are important.

You can choose from wood, aluminum and glass door options, with straight sliding, folding and multidirectional stacking systems. Flexirol multidirectional systems can accommodate 90° and 135° movement. Pacer systems allow 135° movement.

Aluminum track can be painted on site to match interior colors and ceilings. Pacer track has the option of clip-on aluminum fascia.



# HUSKY, PACER AND FLEXIROL STRAIGHT SLIDING DOOR SYSTEMS

The main advantage of using a straight sliding system is that it saves room space, as the door does not require a swing or stacking space to open. Using straight sliding systems therefore makes perfect sense when space is at a premium. Sliding doors also offer a touch of individuality to a room design.

P C Henderson's commercial range of straight sliding door systems covers door weights up to 1100 lbs. (500kg). The three products in this range, Husky, Pacer and Flexirol have all been designed for high performance with particular attention to aesthetic appearance.

With this goal in mind, both Husky and Pacer straight sliding systems have been designed to accommodate a range of clip-on aluminum fascia also supplied by P C Henderson. This aluminum fascia is supplied as standard in a satin anodized finish, with other finishes available on request.

In today's modern working environment the use of glass as an important design element has become widespread practice. To meet this challenge, Pacer and Flexirol systems offer the option of glass panels, in  $\frac{5}{16}$ " (8mm),  $\frac{3}{8}$ " (10mm) and  $\frac{1}{2}$ " (12mm) thickness.

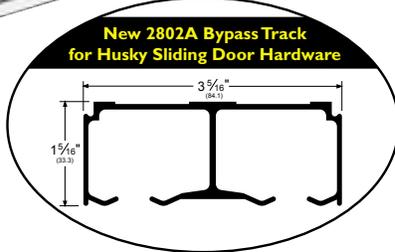
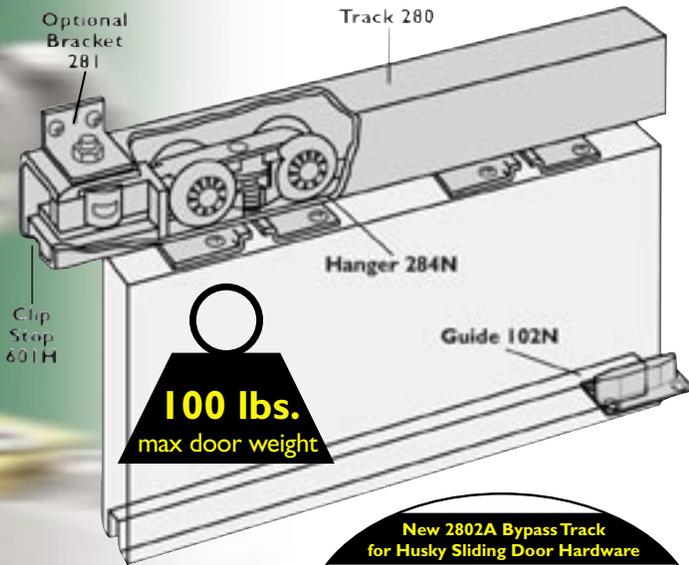
Pacer is particularly versatile when used in conjunction with glass, offering the opportunity for fixed glass panels to be integrated with the track system in a unique integrated track profile.



# HUSKY SLIDING 100

FOR SLIDING WOOD DOORS TO 100 lbs.

Reliable and highly versatile hardware using precision-made components for trouble-free operation.



**KITS (complete, ready to install) include:**

- 1 ea **280 or 280A** pre-drilled track, in steel or aluminum, 6 or 8 foot lengths
- 2 ea **284N** nylon bodied, acetal wheel hangers
- 1 ea **102N** nylon guide
- 2 ea **601H** clip stops

(Kit components can be ordered individually)

**Order KITS based on material and length of track:**

Kit No.	Material	Max Leaf Size
<b>HI00/6</b>	steel track/6 ft.	96" x 36" x 2"
<b>HI00/8</b>	steel track/8 ft.	96" x 48" x 2"
<b>HI00A/6</b>	aluminum track/6 ft.	96" x 36" x 2"
<b>HI00A/8</b>	aluminum track/8 ft.	96" x 48" x 2"

**HARDWARE PACK (no. "HI00PACK") = KIT w/o track:**

- 2 ea **284N** nylon bodied, acetal wheel hangers
- 1 ea **102N** nylon guide
- 2 ea **601H** clip stops

**BYPASS PACK ALSO AVAILABLE (no. "HBP100PACK")**

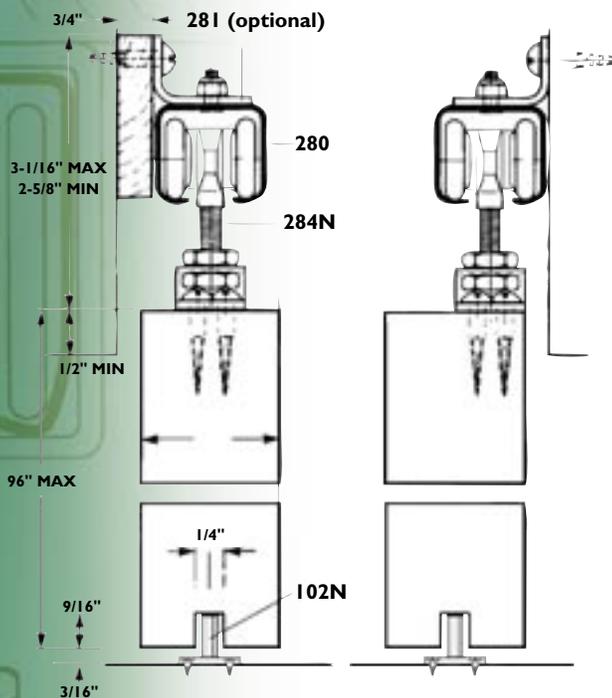
**OPTIONAL EXTRAS include:**

- 2815** 281 brackets - 5 each
- 287** track stop (bumper type)
- 285** hanger for metal doors
- 106R/94** roller guide (use w/94A)
- 94A** aluminum floor channel

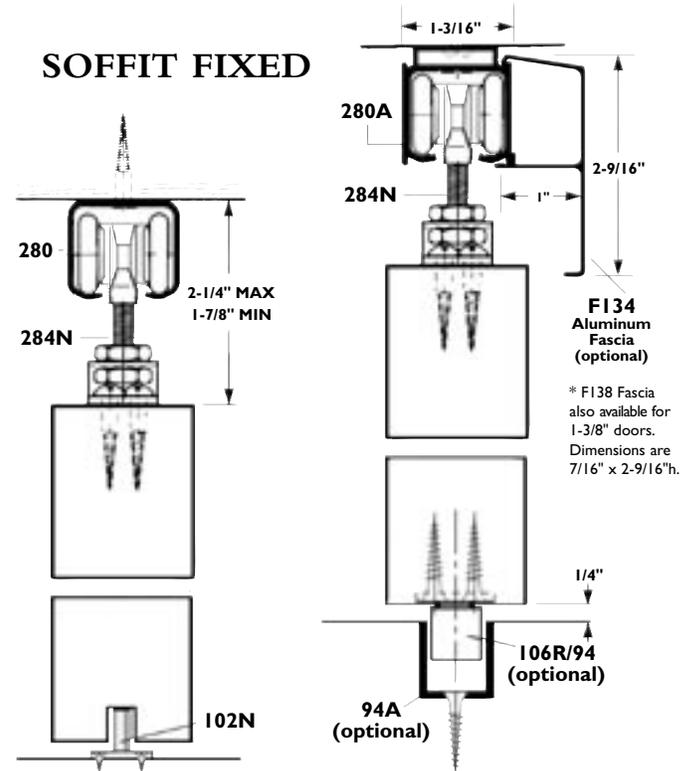
- F134**
- F138**
- 863**
- 400**
- 414**
- 333**

- aluminum fascia - 1-3/4" thick doors
- aluminum fascia - 1-3/8" thick doors
- iron bow handle (5-1/4" x 1-3/4")
- aluminum flush pull (4-1/4" x 1-7/8", 5/8" mortise)
- aluminum flush pull (5-1/4" x 2-1/2", 3/4" mortise)
- aluminum flush bolt (6" x 1-3/8")

**FACE FIXED**



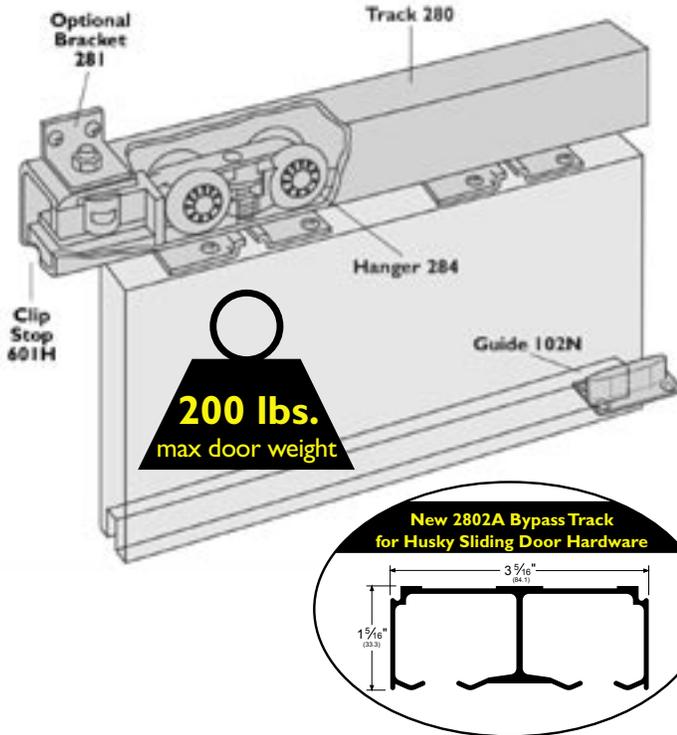
**SOFFIT FIXED**



# HUSKY SLIDING 200

Reliable and highly versatile hardware using precision-made components for trouble-free operation.

FOR SLIDING WOOD OR METAL DOORS TO 200 lbs.



### KITS (complete, ready to install) include:

- 1 ea **280 or 280A** pre-drilled track, in steel or aluminum, 6 or 8 foot lengths
- 2 ea **284** nylon bodied, needle bearing, acetal wheel hangers
- 1 ea **102N** nylon guide
- 2 ea **601H** clip stops

(Kit components can be ordered individually)

### Order KITS based on material and length of track:

Kit No.	Material	Max Leaf Size
<b>H200/6</b>	steel track/6 ft.	96" x 36" x 2"
<b>H200/8</b>	steel track/8 ft.	96" x 48" x 2"
<b>H200A/6</b>	aluminum track/6 ft.	96" x 36" x 2"
<b>H200A/8</b>	aluminum track/8 ft.	96" x 48" x 2"

### HARDWARE PACK (no. "H200PACK") = KIT w/o track:

- 2 ea **284** nylon bodied, needle bearing, acetal wheel hangers
- 1 ea **102N** nylon guide
- 2 ea **601H** clip stops

### BYPASS PACK ALSO AVAILABLE (no. "HBP200PACK")

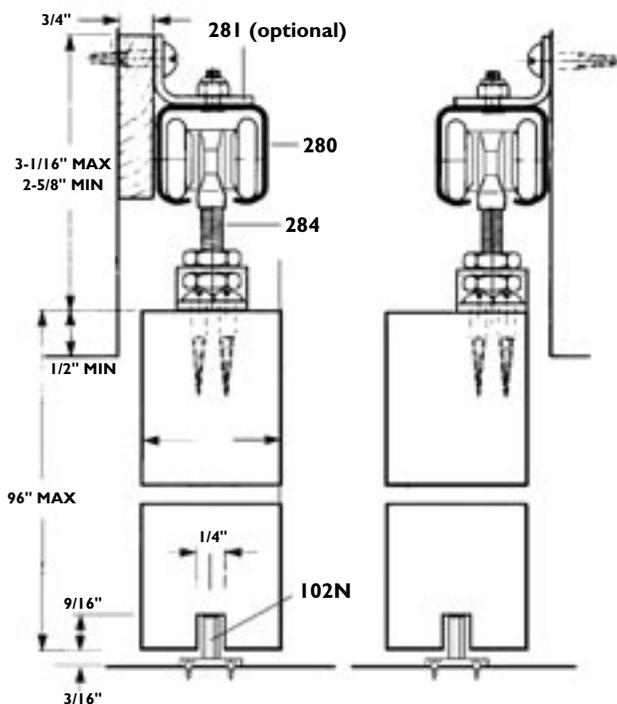
### OPTIONAL EXTRAS include:

- 281** 281 brackets - 5 each
- 287** track stop (bumper type)
- 285** hanger for metal doors
- 106R/94** roller guide (use w/94A)
- 94A** aluminum floor channel

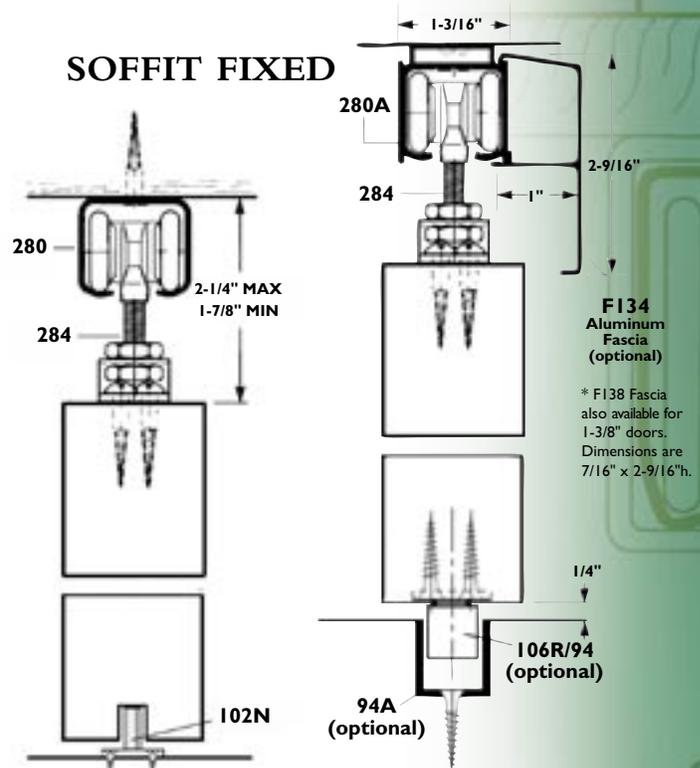
- F134**
- F138**
- 863**
- 400**
- 414**
- 333**

- aluminum fascia - 1-3/4" thick doors
- aluminum fascia - 1-3/8" thick doors
- iron bow handle (5-1/4" x 1-3/4")
- aluminum flush pull (4-1/4" x 1-7/8", 5/8" mortise)
- aluminum flush pull (5-1/4" x 2-1/2", 3/4" mortise)
- aluminum flush bolt (6" x 1-3/8")

## FACE FIXED



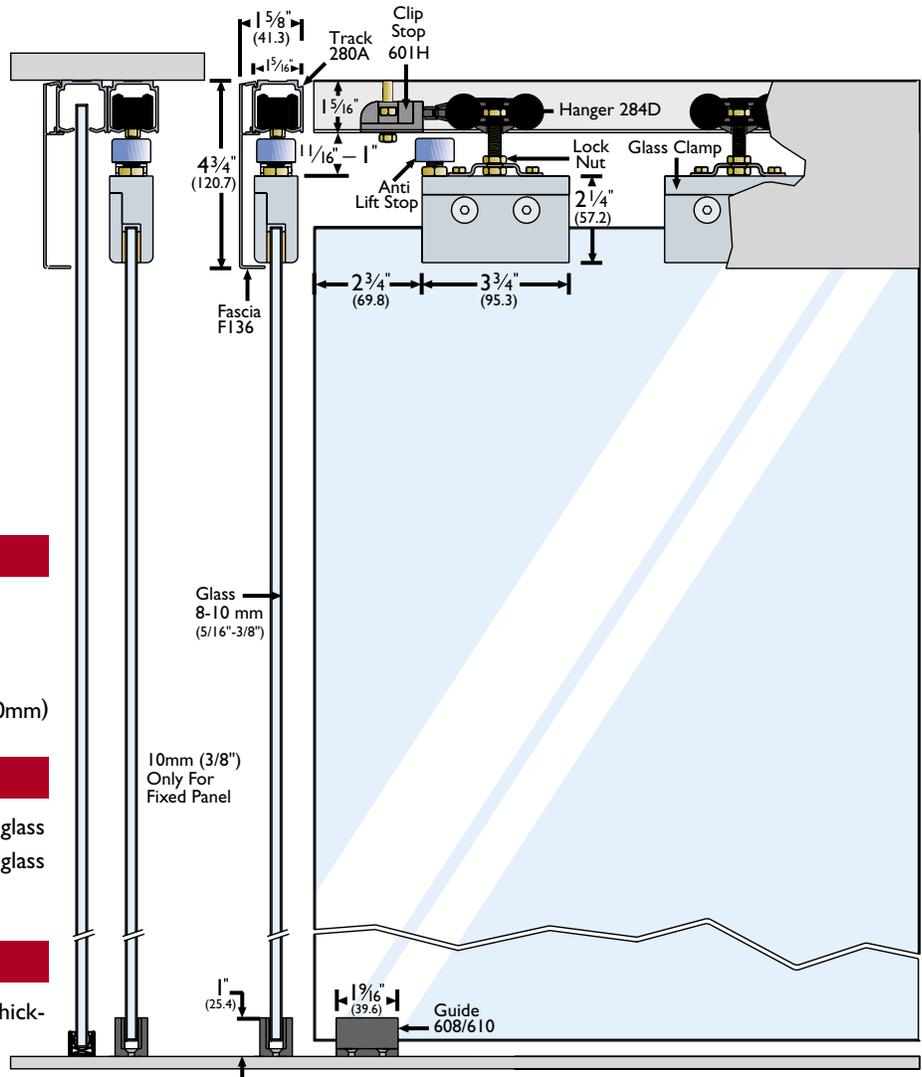
## SOFFIT FIXED



**F134**  
Aluminum  
Fascia  
(optional)

\* F138 Fascia  
also available for  
1-3/8" doors.  
Dimensions are  
7/16" x 2-9/16".

# HUSKY GLASS



## CAPACITY

- Max. door weight:** 165 lbs. (75kg)
- Max. door height:** 7'10" (2400mm)
- Max. door width:** 4'1" (1250mm)
- Glass thickness:** 5/16" (8mm) and 3/8" (10mm)

## APPLICATIONS

Husky offers a solution to lightweight glass applications such as office doors and small glass partitions.

## DOOR TYPES

Glass panels of 5/16" (8mm) or 3/8" (10mm) thickness in tempered or laminated glass.

Glass Clamp kits contain: 2 hangers, 2 clamps, 2 end track stops and 2 floor mounted guides.

**Note:** When using glass clamps in combination with protective coatings for glass surfaces such as Clear Shield, ensure that the glass surface to be clamped is not treated with the Clear Shield coating.

## TECHNICAL INFORMATION

- Track:** 280A (extruded aluminum)  
Available in 6', 8', and 12' lengths
- Brackets:** Face fix 281  
5-pack 2815
- Fascias:** Soffit fixed track F136
- Glass Clamp Kits:** For glass panels from
  - 5/16" (8mm) up to 8/75/I Kit - 8mm
  - 3/8" (10mm) 10/75/I Kit - 10mm

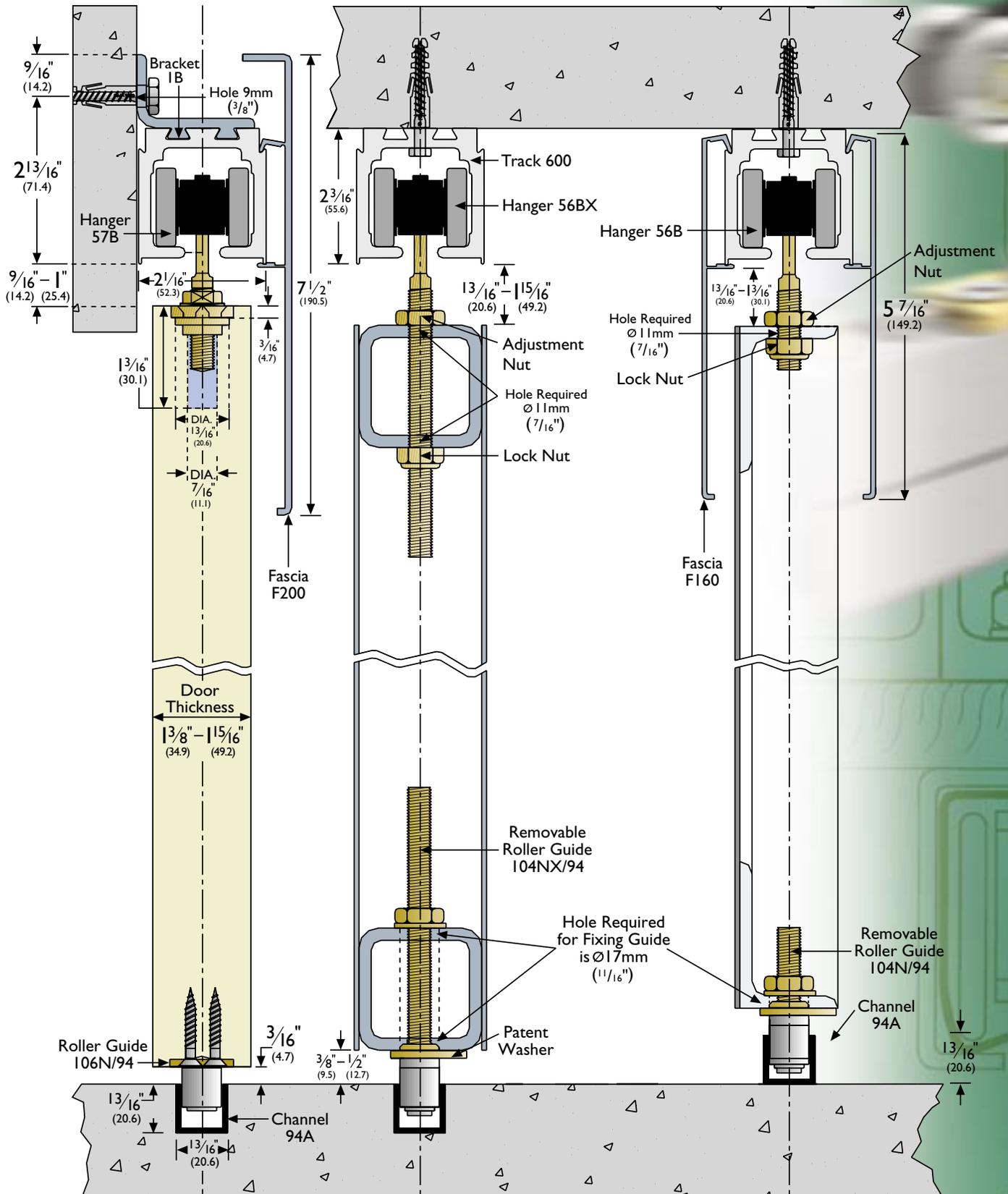
- Guides:** 5/16" (8mm) glass panels 608 - glass guide  
3/8" (10mm) glass panels 610 - glass guide

- Accessories:** 601H retaining stop mounted within the track



GLASS WEIGHT	
5/16" glass	3.95 lbs./sq. ft.
3/8" glass	5.05 lbs./sq. ft.

# PACER STRAIGHT SLIDING FOR TOP-HUNG WOOD AND METAL DOORS



## CAPACITY

**Max. door weight:** 440 lbs. (200kg)

**Max. door height:** 9'10" (3000mm)

**Door thickness:** 1 3/8"-1 5/16" (35mm-50mm)

## APPLICATIONS

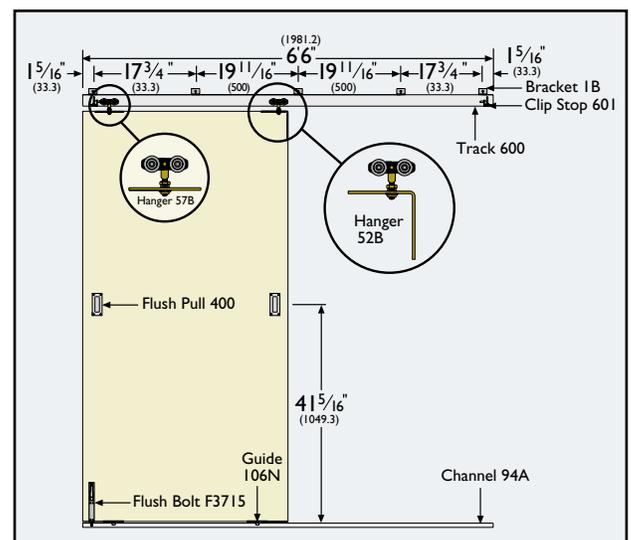
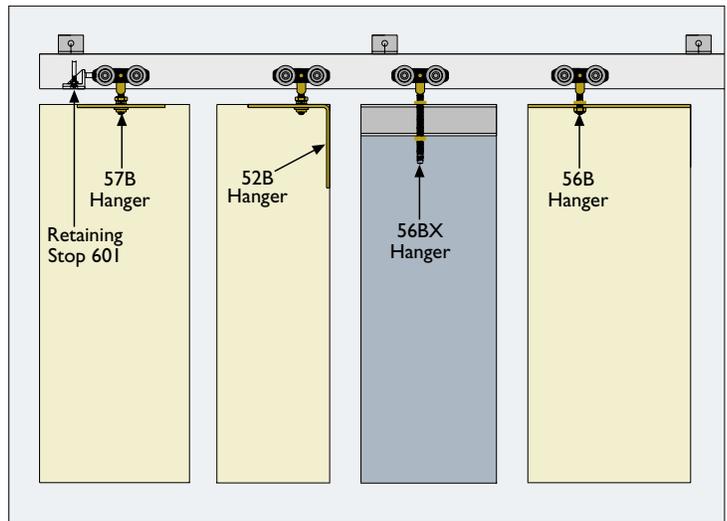
Combining performance and style with versatility, Pacer straight sliding in wood, glass, aluminum or metal is ideally suited for shop-fronts, offices and other stylish interiors.

## DOOR TYPES

Wood doors for interior applications can be either solid or glazed. Metal doors can be of angle or box section. Aluminum is dependent on extrusion profile.

## TECHNICAL INFORMATION

<b>Track:</b>	Aluminum Available in 6', 8', 10', and 16' lengths	600A
<b>Brackets:</b>	Face fix Joining bracket	IB IBX
<b>Fascias:</b>	Soffit fixed track Face fixed track  Fascia comes in a satin anodized aluminum finish in lengths of 6', 8' and 10'	F160 with standard return F200 with standard return
<b>Hangers:</b>	Wood doors Wood doors Aluminum/Metal doors Metal doors Metal doors	57B - concealed fixing 52B - angle plate fixing 57B - concealed fixing 56B - angle frame 56BX - box frame
<b>Guides:</b>	Wood/Aluminum/Metal doors Wood/Aluminum doors Metal doors Metal doors	89/2N - floor mounted guide 106N/94 - concealed fixing 104N/94 - angle frame 104NX/94 - box frame
<b>Guide Channel:</b>	Brass Aluminum  94 channel available in 4'11" (1.5 meter) and 9'10" (3 meter) lengths. 94A channel available in 6', 8', and 12' lengths.	94 94A
<b>Accessories:</b>	Retaining stop mounted within the track	601P

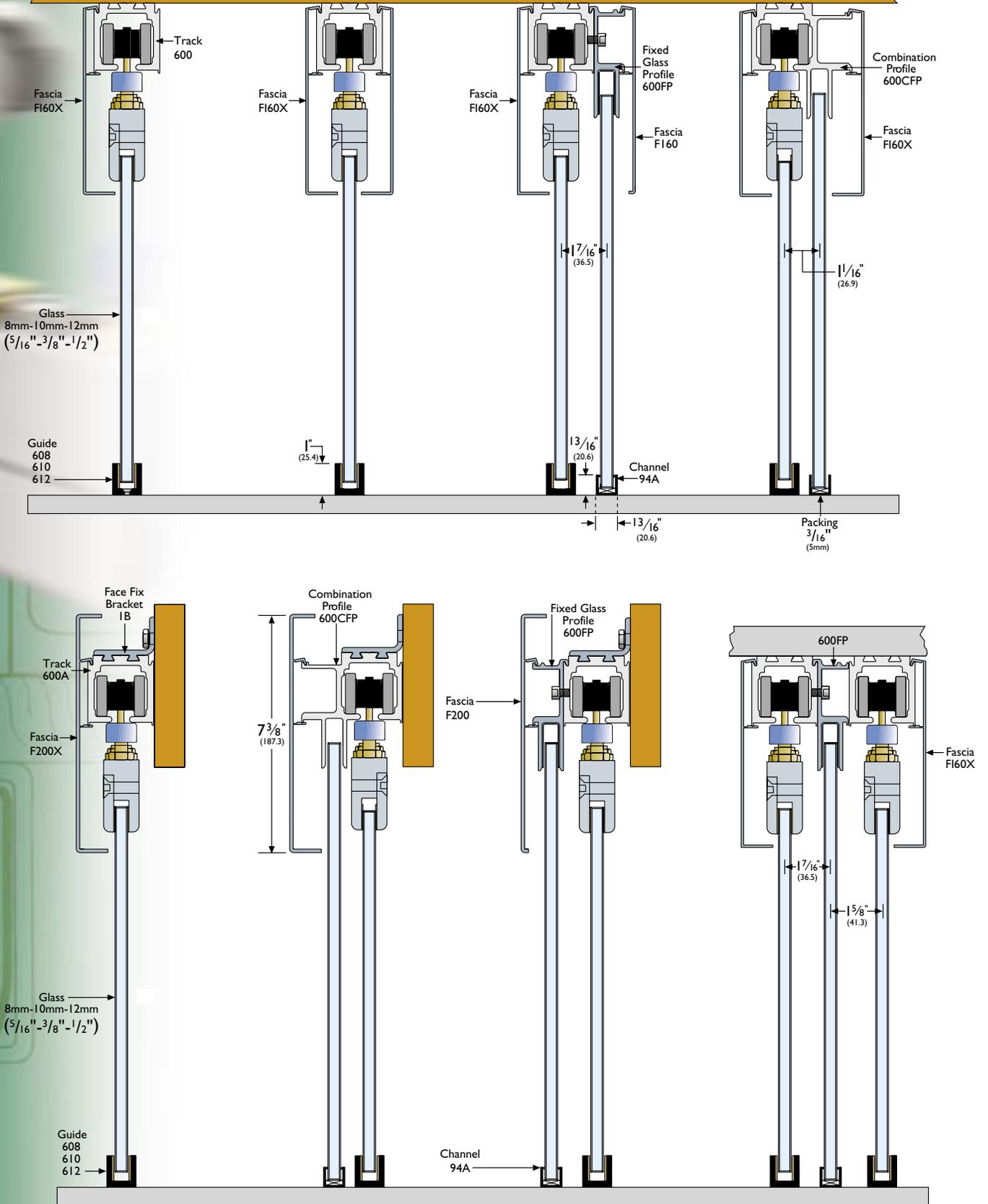


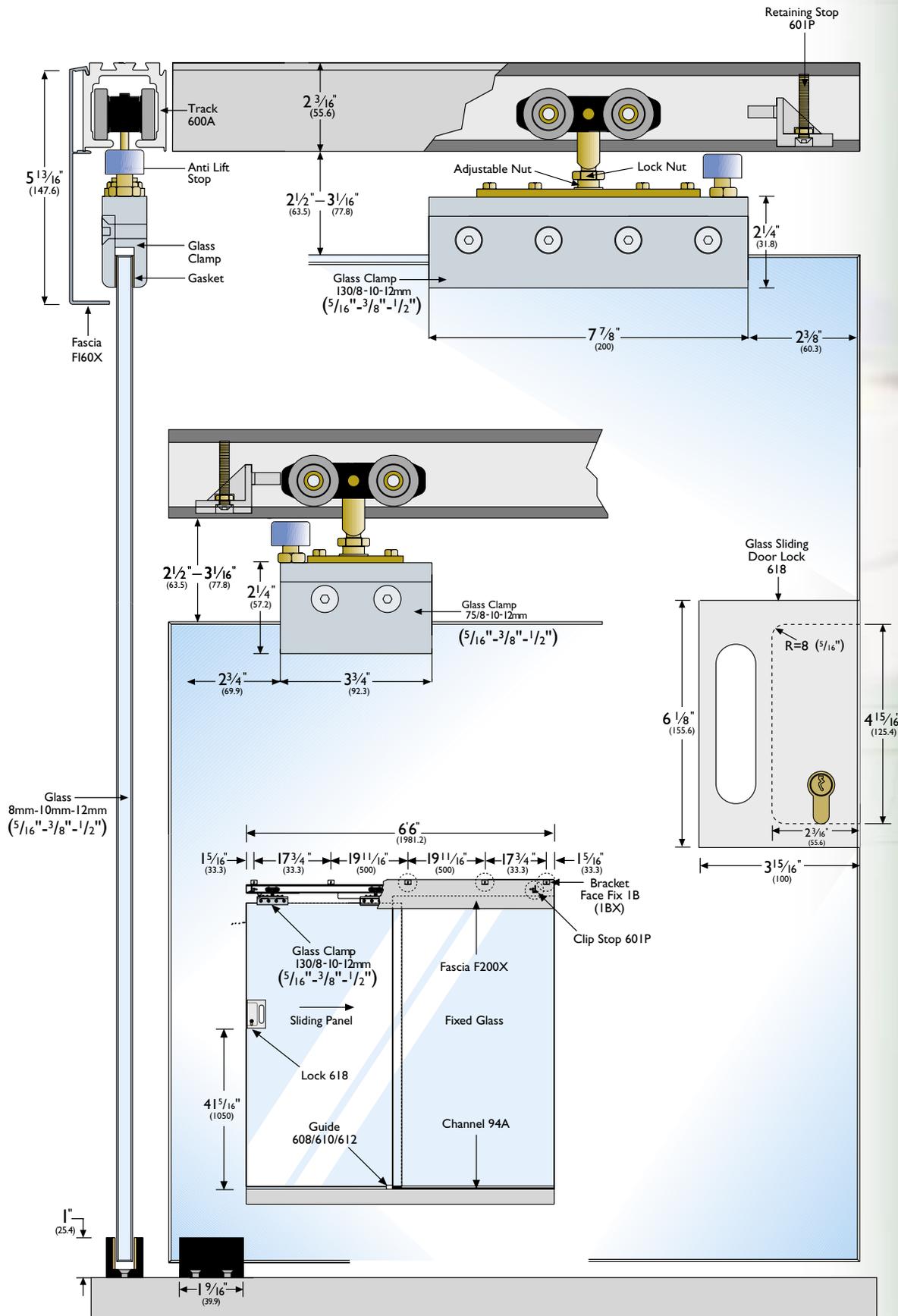
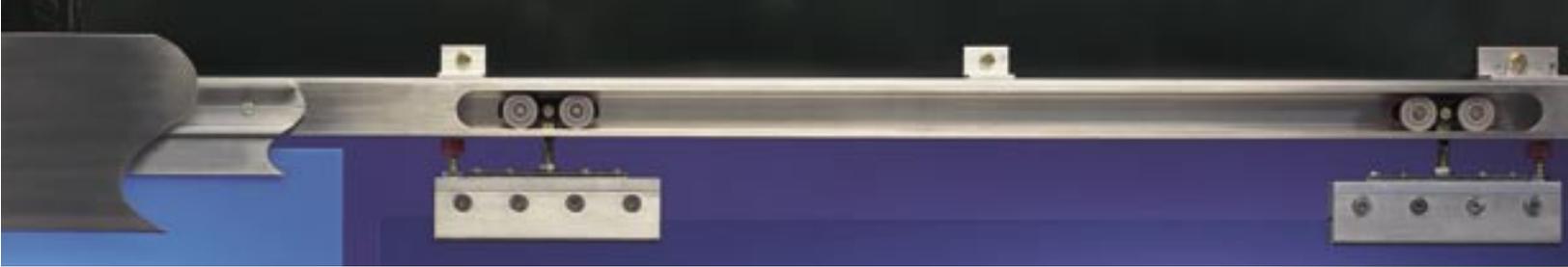


# PACER GLASS

GLASS WEIGHT	
3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.

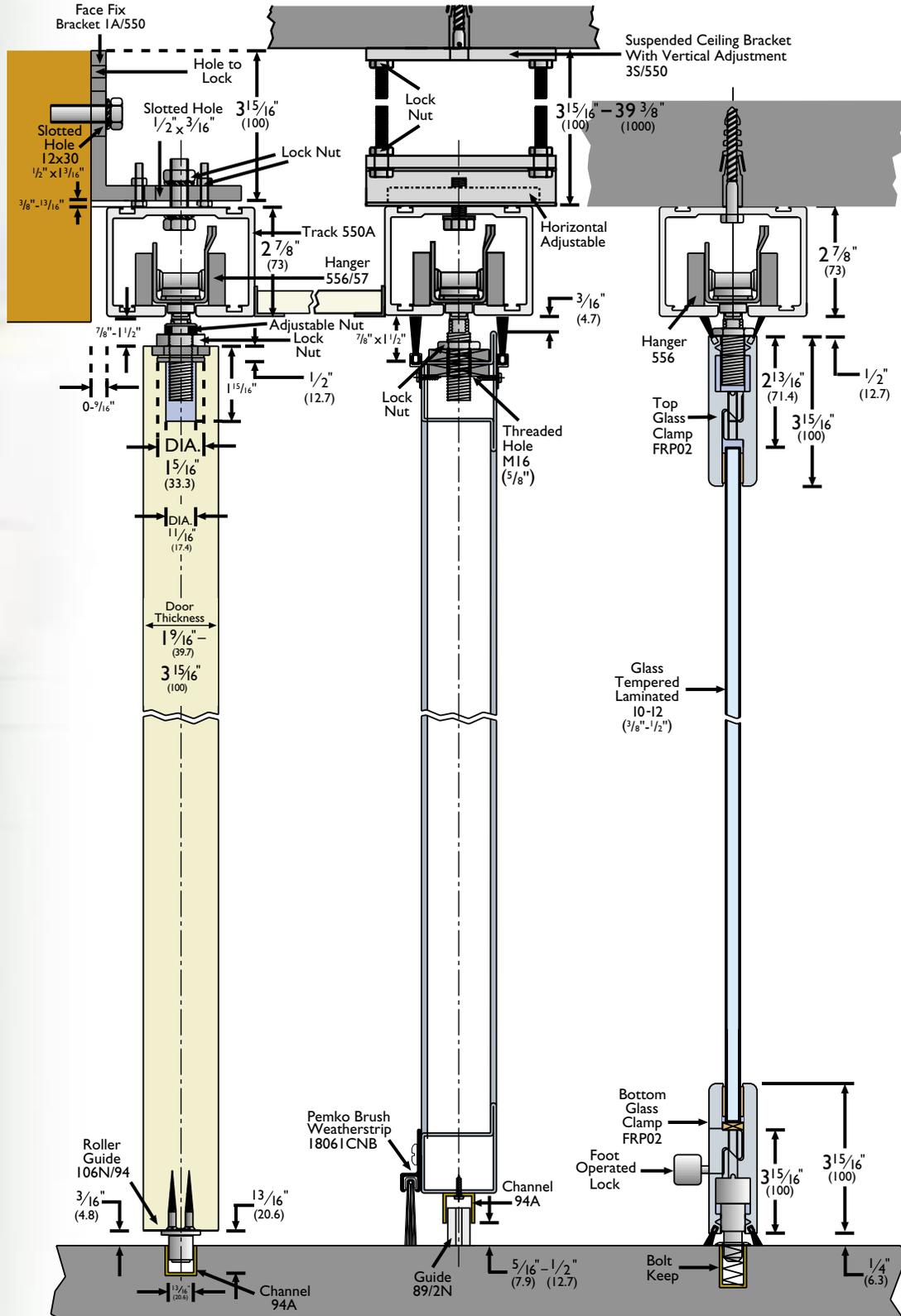
See capacity section on page 9 for min./max. heights and weights.







# FLEXIROL STRAIGHT SLIDING FOR TOP-HUNG WOOD, METAL OR GLASS DOORS



## CAPACITY

**Max. door weight:** 1100 lbs. (556 hanger) (500kg)

**Max. door height:** 19'8" (6000mm) - wood or metal framed  
 8'6" (2600mm) - 3/8" (10mm) tempered glass  
 13'2" (4000mm) - 1/2" (12mm) tempered glass  
 7'6" (2300mm) - 7/16" (10.76mm) laminated glass  
 8'2" (2500mm) - 1/2" (12.76mm) laminated glass

**Max. door width:** 19'8" (6000mm) - wood or metal framed  
 4'3" (1300mm) - 3/8" (10mm) tempered glass  
 4'11" (1500mm) - 1/2" (12mm) tempered glass  
 3' (900mm) - 7/16" (10.76mm) laminated glass  
 4' (1200mm) - 1/2" (12.76mm) laminated glass

**Door thickness:** 1 9/16" (40mm) - 3 15/16" (100mm) - wood or metal framed 3/8" (10mm) or 1/2" (12mm) - tempered glass

## APPLICATIONS

Henderson straight sliding Flexirol is ideally suited to hotels, conference centers, shop-fronts, showrooms or any site that requires high performance and attractive finish.

## DOOR TYPES

Wood doors, metal doors of either angle frame or box section and aluminum extrusion. Tempered glass panels of either 3/8" (10mm) or 1/2" (12mm) thickness and laminated glass panels of either 7/16" (10.76mm) or 1/2" (12.76mm) thickness.

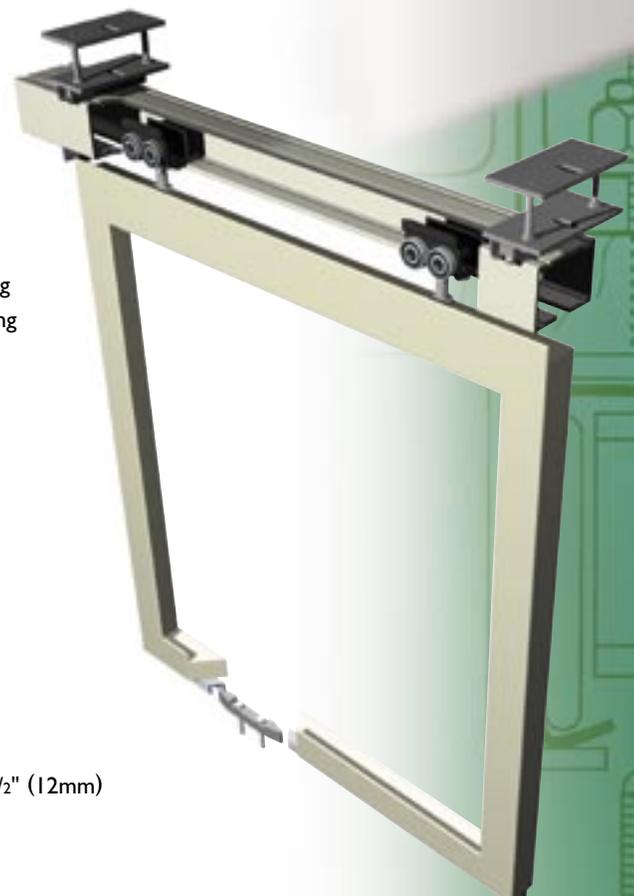
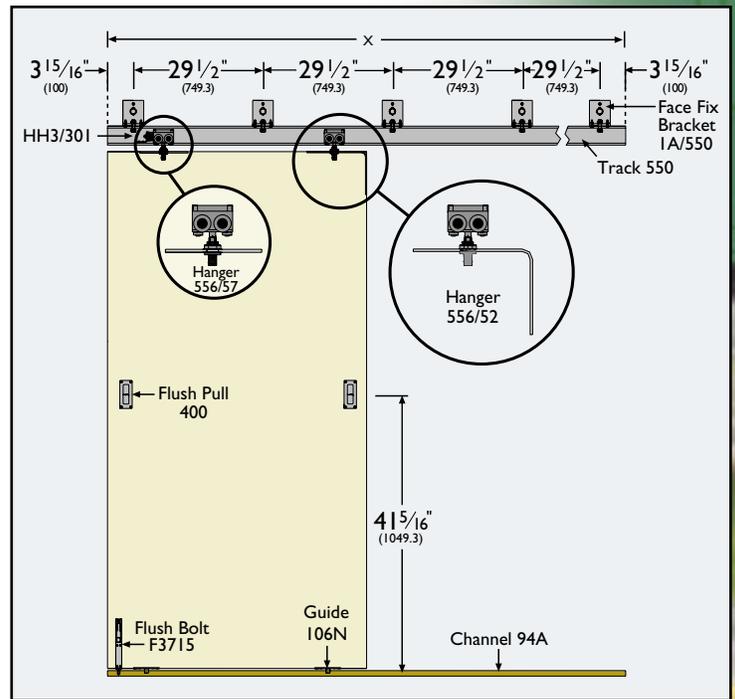
**Note:** when using glass clamps in combination with protective coatings for glass surfaces such as Clear Shield, ensure that the glass surface to be clamped is not treated with the Clear Shield coating.

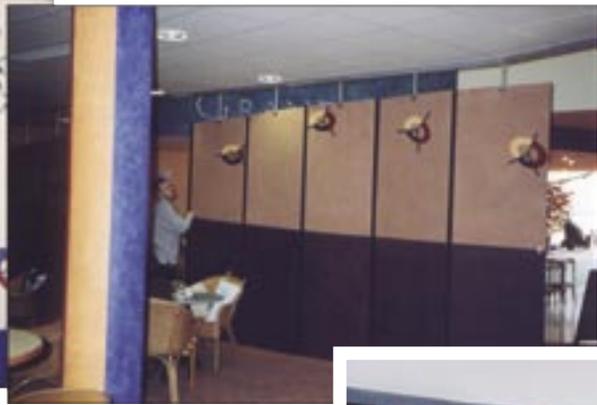
## TECHNICAL INFORMATION

<b>Track:</b>		550A
<b>Brackets:</b>	Face fix	1A/550
	Soffit fix	3S/550
<b>Hangers:</b>	Metal doors	556
	Wood doors	556/57 - concealed fixing
	Wood doors	556/52 - angle plate fixing
<b>Glass Profiles:</b>	Glass profile	FRP02
<b>Guides:</b>	Wood and metal doors	89/2N
	Wood doors	106N/94
	Metal doors	104N/94
	Metal doors, extended version	104NX/94
<b>Guide Channel:</b>	Brass	94
	Aluminum	94A
<b>Accessories:</b>	Flush pull	400
	Flush bolt	333/454
	Narrow flush bolt and keep	F3715 and F3734
	Trackstop	HH3/301
	Sliding door lock for glass panels	618 (3/8" (10mm) and 1/2" (12mm) glass only - see page 9)

## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.





# HUSKY, PACER AND FLEXIROL FOLDING DOOR SYSTEMS

The use of folding doors is ideal for interior and, in particular, exterior situations where space is limited or where it is desirable to have the door leaves stacked behind a reveal.

With the Pacer and Flexirol folding door systems, flexibility is the key. The range covers everything from internal folding partitions to exterior folding entrance ways.

The Pacer system covers weights up to 143 lbs. (65kg) per leaf. The Flexirol system has a capacity of up to 275 lbs. (125kg). Both systems use high performance components that are extremely durable, ensuring a long, trouble-free operating life.

When considering internal partition systems, specifiers are provided with the option of either centerfold or endfold configurations.

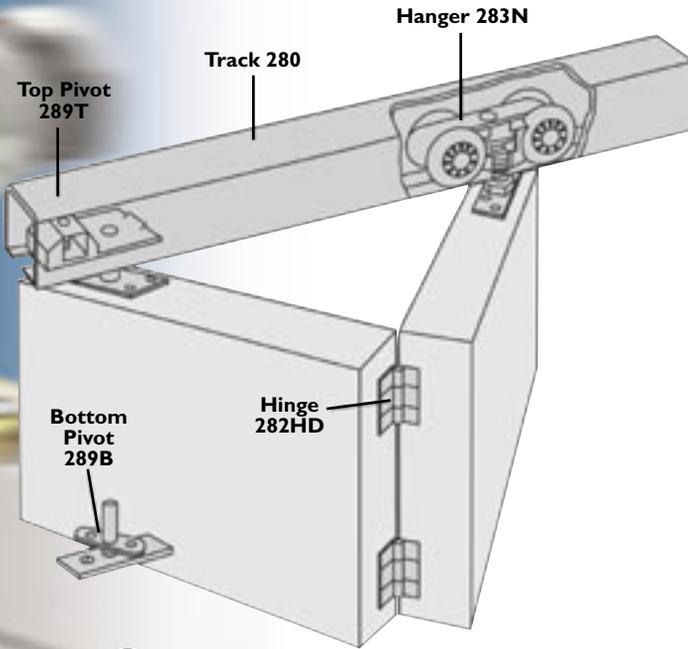
To match the variety of materials used in modern day design, Pacer and Flexirol folding systems cater for doors of glass, wood or metal construction.



# HUSKY FOLDING 55

FOR FOLDING DOORS AND ROOM DIVIDERS TO 55 lbs.

High quality hardware makes light folding doors efficient and easy-to-use. Two and four leaf kits are available.



**HF2/55 KITS (complete, ready to install) include:**

- 1 ea **280/4** or **280A/4** pre-drilled track, in steel or aluminum, 4 foot lengths
- 1 ea **283N** nylon bodied, acetal wheel hanger
- 1 ea **289T** top pivot
- 1 ea **289B** bottom pivot
- 3 ea **282HD** heavy duty butt hinges

(Kit components can be ordered individually)

**HF4/55 KITS (complete, ready to install) include:**

- 1 ea **280/8** or **280A/8** pre-drilled track, in steel or aluminum, 8 foot lengths
- 2 ea **283N** nylon bodied, acetal wheel hangers
- 2 ea **289T** top pivot
- 2 ea **289B** bottom pivot
- 6 ea **282HD** heavy duty butt hinges

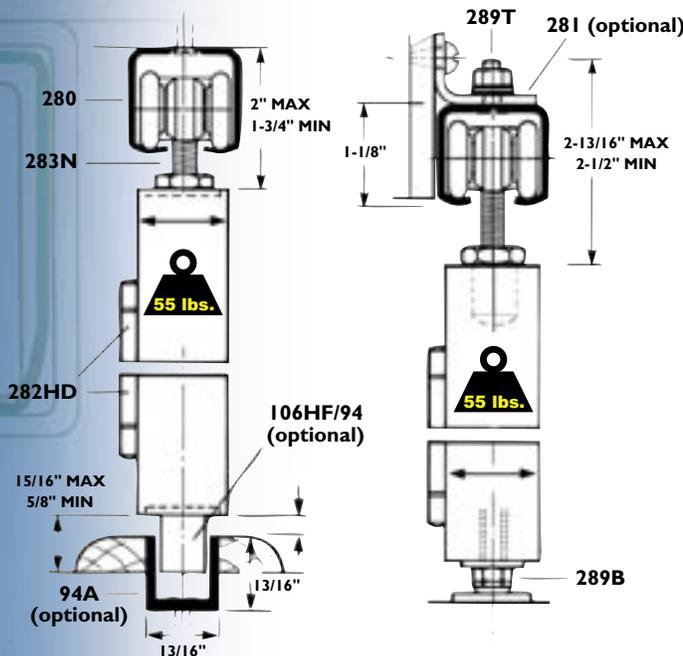
(Kit components can be ordered individually)



Order KITS based on material, length of track and number of leaves:

Kit No.	Track Mat'l / Length	Max Door Leaf Size	Max Opening	No. of Leaves	Door Leaf Thickness
HF2/55/4	steel/4 ft.	96" H x 24" W	48"	2	13/16" - 1-3/4"
HF2/55A/4	aluminum/4 ft.	96" H x 24" W	48"	2	13/16" - 1-3/4"
HF4/55/8	steel/8 ft.	96" H x 24" W	96"	4	13/16" - 1-3/4"
HF4/55A/8	aluminum/8 ft.	96" H x 24" W	96"	4	13/16" - 1-3/4"

**SOFFIT FIXED      FACE FIXED**



**HARDWARE PACK (no. "HF2/55PACK") = KIT w/o track**

- 1 ea **283N** nylon bodied, acetal wheel hanger
- 1 ea **289T** top pivot
- 1 ea **289B** bottom pivot
- 3 ea **282HD** heavy duty butt hinges

(For 4 leaf configurations, order 2 each of the above hardware pack HF2/55PACK)

**OPTIONAL EXTRAS include:**

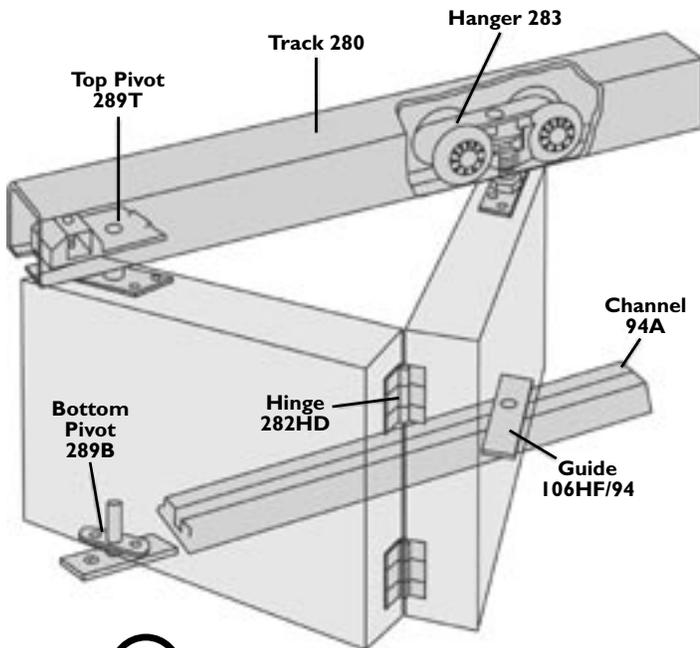
- 2815**      **281** brackets - 5 each
- 106HF/94** roller guide (use w/94A)
- 94A** aluminum floor channel
- 400** aluminum flush pull (4-1/4" x 1-7/8")
- 333** aluminum flush bolt (6" x 1-3/8")

(For door leaves which weigh over 33 lbs. or are wider than 18", order one (for 2 leaf configurations) or two (for 4 leaf configurations) 106HF/94 roller guide(s) and one 94A aluminum floor channel)

# HUSKY FOLDING 100

FOR FOLDING DOORS AND ROOM DIVIDERS TO 100 lbs.

High quality hardware makes medium weight folding doors efficient and easy-to-use. Two and four leaf kits are available.



**HF2/100 KITS (complete, ready to install) include:**

- 1 ea **280/4** or **280A/4** pre-drilled track, in steel or aluminum, 4 feet
  - 1 ea **94A/4** aluminum floor channel, 4 feet
  - 1 ea **283** nylon bodied, needle bearing, acetal wheel hanger
  - 1 ea **289T** heavy duty top pivot
  - 1 ea **289B** heavy duty bottom pivot
  - 3 ea **282HD** heavy duty butt hinges
  - 1 ea **106HF/94** roller guide (use w / 94A)
- (Kit components can be ordered individually)**

**HF4/100 KITS (complete, ready to install) include:**

- 1 ea **280/8** or **280A/8** pre-drilled track, in steel or aluminum, 8 feet
  - 1 ea **94A/8** aluminum floor channel, 8 feet
  - 2 ea **283** nylon bodied, needle bearing acetal wheel hangers
  - 2 ea **289T** heavy duty top pivots
  - 2 ea **289B** heavy duty bottom pivots
  - 6 ea **282HD** heavy duty butt hinges
  - 2 ea **106HF/94** roller guides (use w/94A)
- (Kit components can be ordered individually)**

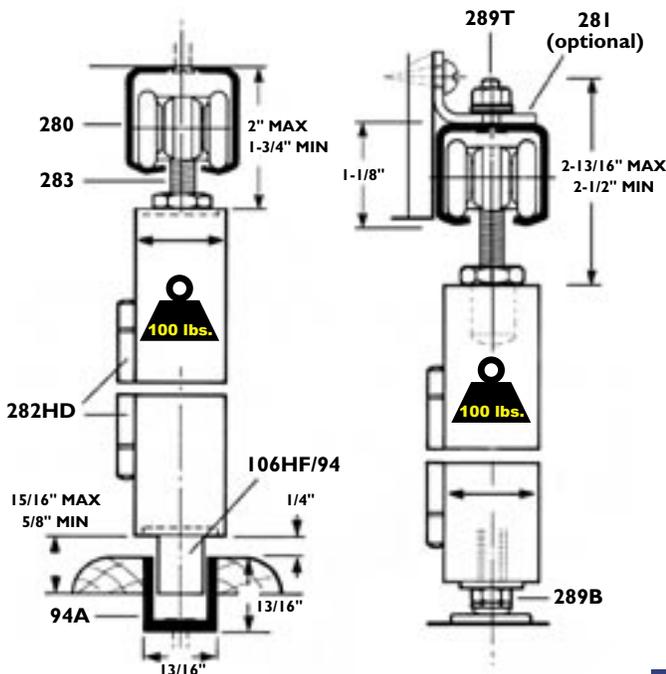


Order KITS based on material, length of track and number of leaves:

Kit No.	Track Mat'l / Length	Max Door Leaf Size	Max Opening	No. of Leaves	Door Leaf Thickness
<b>HF2/100/4</b>	steel/4 ft.	96" H x 24" W	48"	2	13/16" - 1-3/4"
<b>HF2/100A/4</b>	aluminum/4 ft.	96" H x 24" W	48"	2	13/16" - 1-3/4"
<b>HF4/100/8</b>	steel/8 ft.	96" H x 24" W	96"	4	13/16" - 1-3/4"
<b>HF4/100A/8</b>	aluminum/8 ft.	96" H x 24" W	96"	4	13/16" - 1-3/4"

**SOFFIT FIXED**

**FACE FIXED**



**HARDWARE PACK (no. "HF2/100PACK") = KIT w/o track:**

- 1 ea **283** nylon bodied, needle bearing, acetal wheel hanger
- 1 ea **289T** heavy duty top pivot
- 1 ea **289B** heavy duty bottom pivot
- 3 ea **282HD** heavy duty butt hinges
- 1 ea **106HF/94** roller guide (use w/94A)

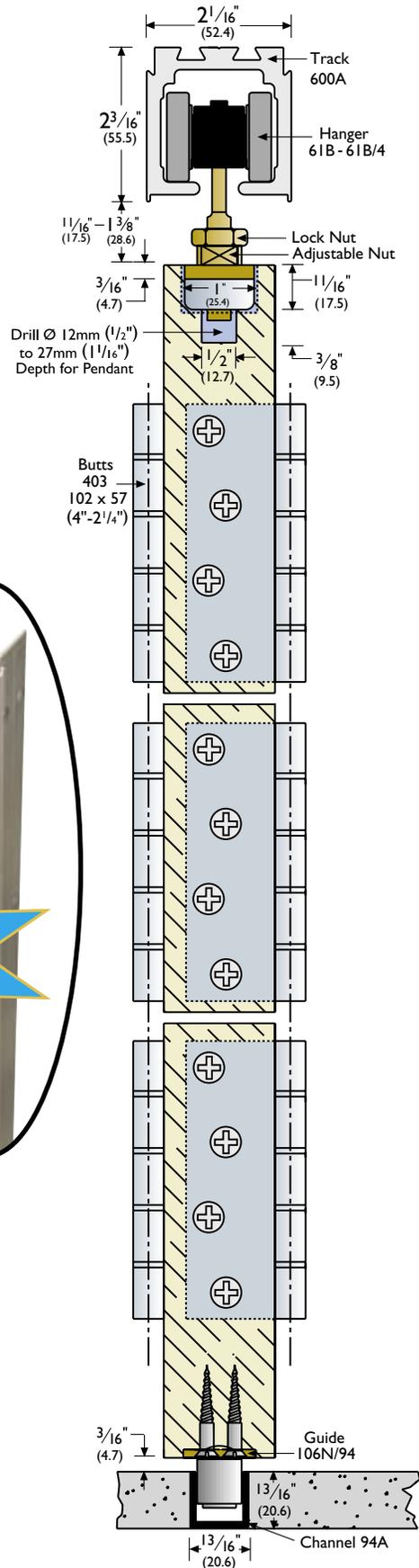
**(For 4 leaf configurations, order 2 each of the above hardware pack HF2/100PACK)**

**OPTIONAL EXTRAS include:**

- 2815** 281 brackets - 5 each
- 400** aluminum flush pull (4-1/4" x 1-7/8")
- 333** aluminum flush bolt (6" x 1-3/8")



# PACER INTERIOR CENTERFOLD FOR WOOD DOORS



Use in Place of  
401/402/403 Hinges:  
**PemkoHinge™**  
Continuous Geared  
Aluminum  
Hinges



## CAPACITY

**Max. door weight:** 77 lbs. (35kg) (61B hanger)  
 165 lbs. (75kg) (61B/4 hanger)  
**Max. door height:** 8'10" (2700mm)  
**Max. door width:** 2'11" (900mm)  
**Door thickness:** 1<sup>3</sup>/<sub>8</sub>"-1<sup>5</sup>/<sub>16</sub>" (35mm-50mm)

## APPLICATIONS

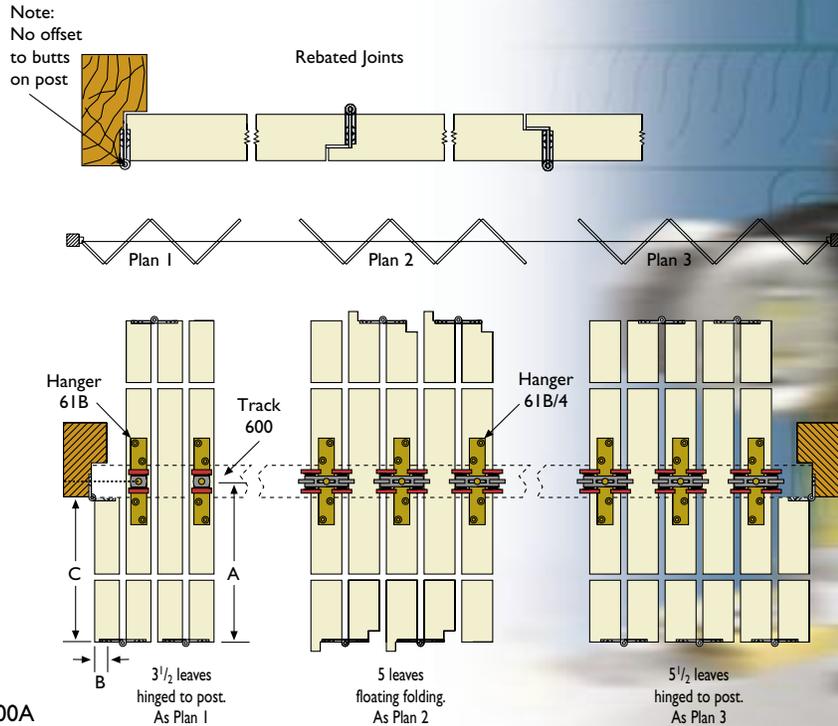
Top-hung Pacer gear and fittings for center folding wood partition doors. Leaves are hung centrally and can fold to one or both sides. For applications hinged to the jamb, 3<sup>1</sup>/<sub>2</sub>, 5<sup>1</sup>/<sub>2</sub> or 7<sup>1</sup>/<sub>2</sub> leaves can be used with the half-leaf hinged to the jamb. For best operation of floating units, 5, 7 or 9 leaves should be used. Any access door should be hinged separately to the jamb.

## DOOR TYPES

Residential and commercial wood doors.

## TECHNICAL INFORMATION

<b>Track:</b>	Aluminum Available in 6', 8', 10', and 16'5", lengths	600A
<b>Brackets:</b>	Face fix Jointing bracket	IB IBX
<b>Hangers:</b>	Two-wheeled hanger Four-wheeled hanger	61B 61B/4
<b>Guides:</b>	Nylon guide roller	106N/94
<b>Guide Channel:</b>	Brass Aluminum 94 channel available in 4'11" (1.5 meter) and 9'10" (3 meter) lengths. 94A channel available in 6', 8', and 12' lengths.	94 94A
<b>Hinges:</b>	Butt hinges	403
<b>Accessories:</b>	Flush pull Flush bolts Narrow flush bolt and keep	400 333/454 F3715 & F3734

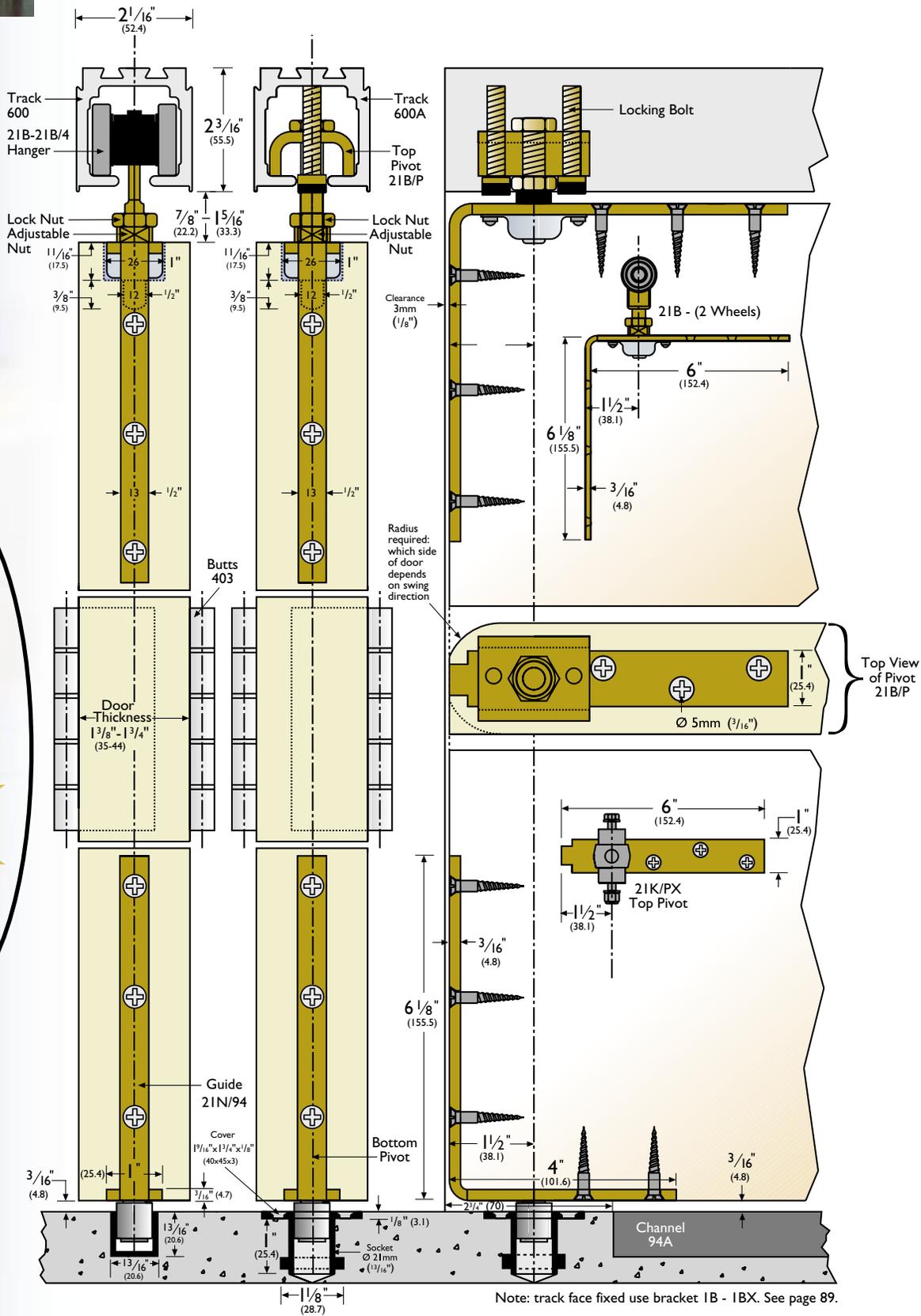


All full leaves are of equal width.  
 A pivoting half-leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).





# PACER INTERIOR ENDFOLD FOR WOOD DOORS



Use in Place of  
 401/402/403 Hinges:  
**PemkoHinge™**  
 Continuous Gearing  
 Aluminum  
 Hinges

## CAPACITY

Max. door weight: 77 lbs. (35kg) (21B hanger)  
 165 lbs. (75kg) (21B/4 hanger)  
 165 lbs. (75kg) (21BO/4 hanger)  
 Max. door height: 8'10" (2700mm)  
 Max. door width: 2'11" (900mm)  
 Door thickness: 1 3/8"-1 3/4" (35mm-44mm)

## APPLICATIONS

Pacer Endfold offers both two-wheeled and four-wheeled hangers to cover a wide range of residential and commercial applications. Leaves can be hung to the left or the right of an opening, or hung as floating units. In applications using the four-wheeled hanger with an even number of leaves folding left and right meeting in the center of the opening, an offset hanger is required (Plan 4).

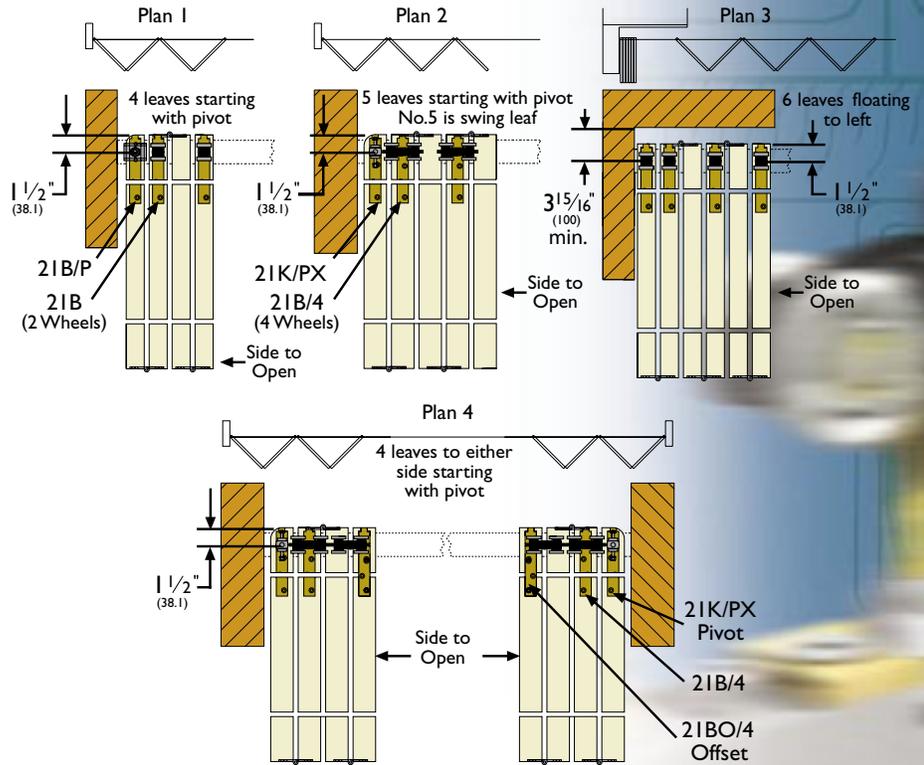
## DOOR TYPES

Residential and commercial wood doors.

## TECHNICAL INFORMATION

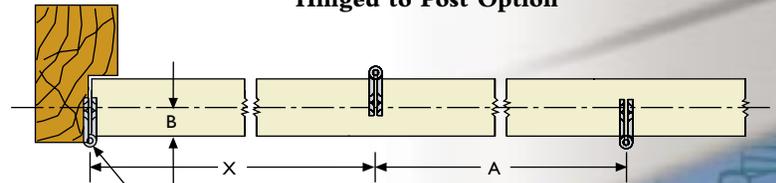
<b>Track:</b>	Aluminum Available in 6', 8', 10', and 16'5", lengths	600A
<b>Brackets:</b>	Face fix Joining bracket	1B 1BX
<b>Hangers:</b>	Two-wheeled hanger Four-wheeled hanger Four-wheeled offset hanger	21B 21B/4 21BO/4
<b>Pivots:</b>	For door widths between 1"-1 3/8" (25-34mm) For door widths between 1 3/8"-1 3/4" (35-44mm)	21K/PX 21B/P
<b>Guides:</b>	Nylon end guide roller	21N/94
<b>Guide Channel:</b>	Brass Aluminum	94 94A
<b>Hinges:</b>	Butt hinges	403
<b>Accessories:</b>	Flush pull Flush bolts Narrow flush bolt and keep	400 333/454 F3715 & F3734

\* **Note:** Using a pivot allows leaves to be of equal width.



Note: Hangers and guides are to be fitted to alternate leaves only.

### Hinged to Post Option



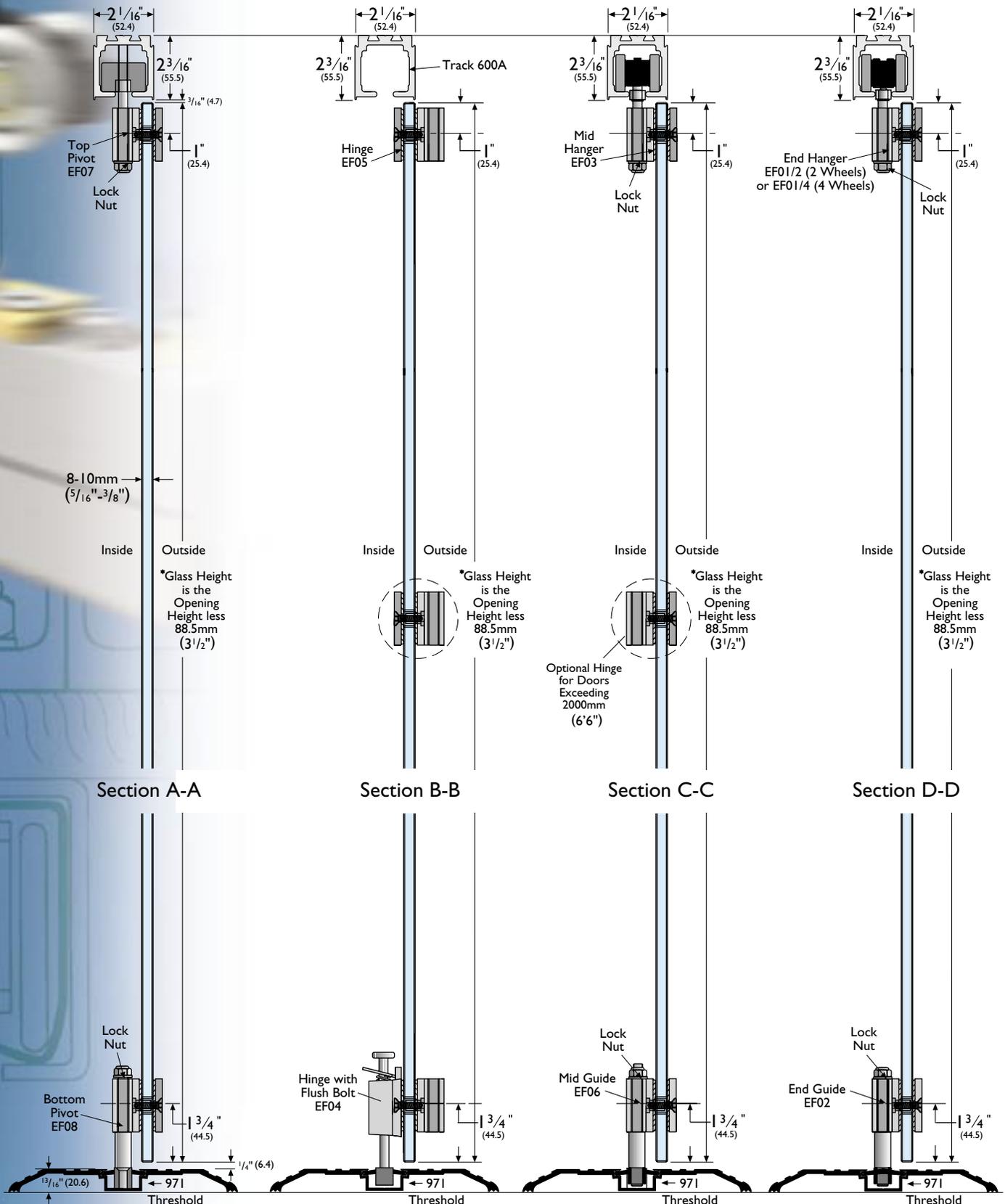
Note: Butt hinges on posts are not offset

All leaves are of equal width except the leaf hinged to the post.  
 The dimension for the leaf hinged to the post (X) is,  
 A, less B (half the leaf thickness), less 1 1/2" (38mm).

**Formula:**  $X = (A - B) - 1\frac{1}{2}"$  (38mm)



# PACER ENDFOLD FOR GLASS DOORS



Section A-A

Section B-B

Section C-C

Section D-D

\* In Combination with 971 Glass Height is the Opening Height less 67.5mm(2 5/8")

\* For Glass Dimensions and Cutting Please Contact P C Henderson Technical Sales.

## CAPACITY

- Max. panel weight: 99 lbs. (45kg)
- Max. panel height: 7'10" (2400mm)
- Max. panel width: 2'6" (750mm)
- Panel thickness: 5/16" (8mm) or 3/8" (10mm)

## APPLICATIONS

Pacer Endfold for glass is a system designed for both interior and exterior applications. Panels and hinges are connected using a system of glass hinges.

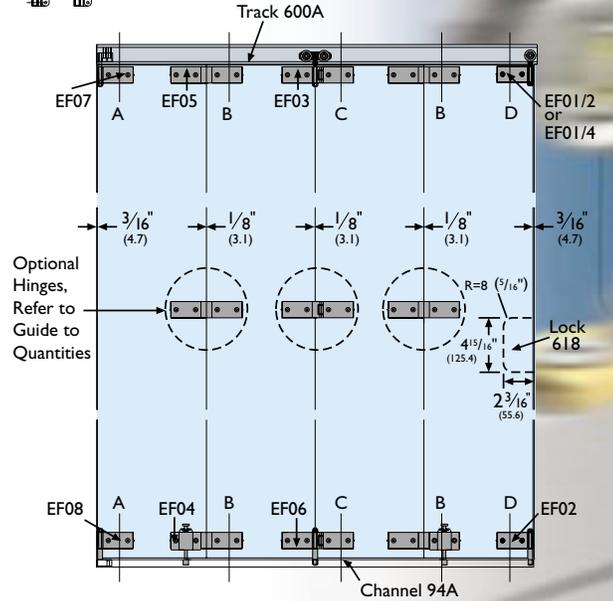
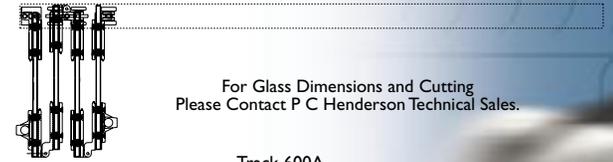
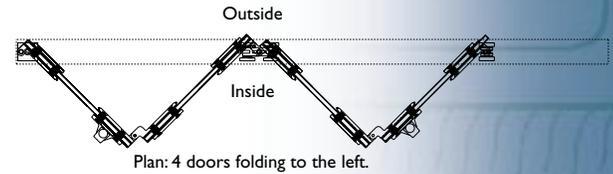
## DOOR TYPES

Glass panels of 5/16" (8mm) or 3/8" (10mm) thickness in tempered glass.

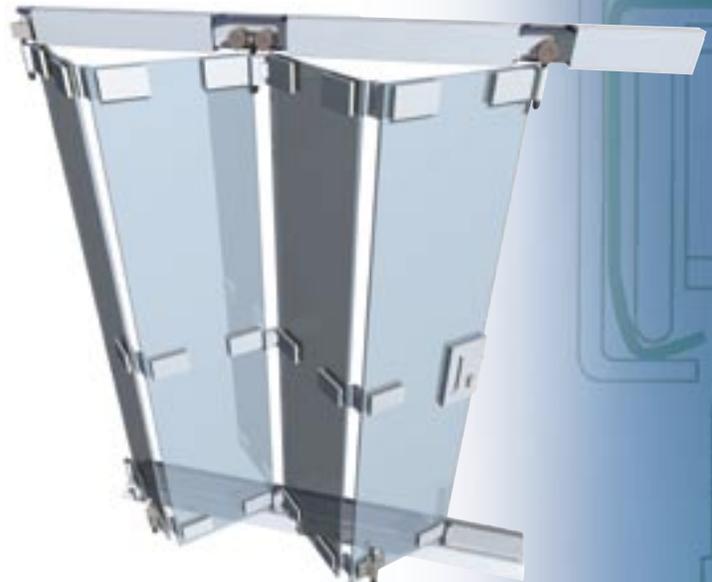
## TECHNICAL INFORMATION

<u>Track:</u>	Aluminum	600A
	Available in 6', 8', 10', and 16'5", lengths	
<u>Brackets:</u>	Face fix	IB
	Jointing bracket	IBX
<u>Hangers:</u>	Two-wheeled end hanger with single hinge*	EF01/2
	Four-wheeled intermediate hanger with double hinge*	EF03
	Four-wheeled end hanger with single hinge*	EF01/4
<u>Hinges:</u>	Double hinge	EF05
<u>Pivots:</u>	Top pivot with single hinge*	EF07
	Bottom pivot with single hinge*	EF08
<u>Guides:</u>	End guide with single hinge*	EF02
	Intermediate guide with double hinge*	EF06
<u>Guide Channel:</u>	Brass	94
	Aluminum	94A
<u>Accessories:</u>	Double hinge with spring-loaded foot operated bolt	EF04
	Sliding door lock for glass panels	618
	Sliding door receiving lock	619
	Spring-loaded foot operated bolt	EF09

\* All with stainless steel strapbolt/spindle.



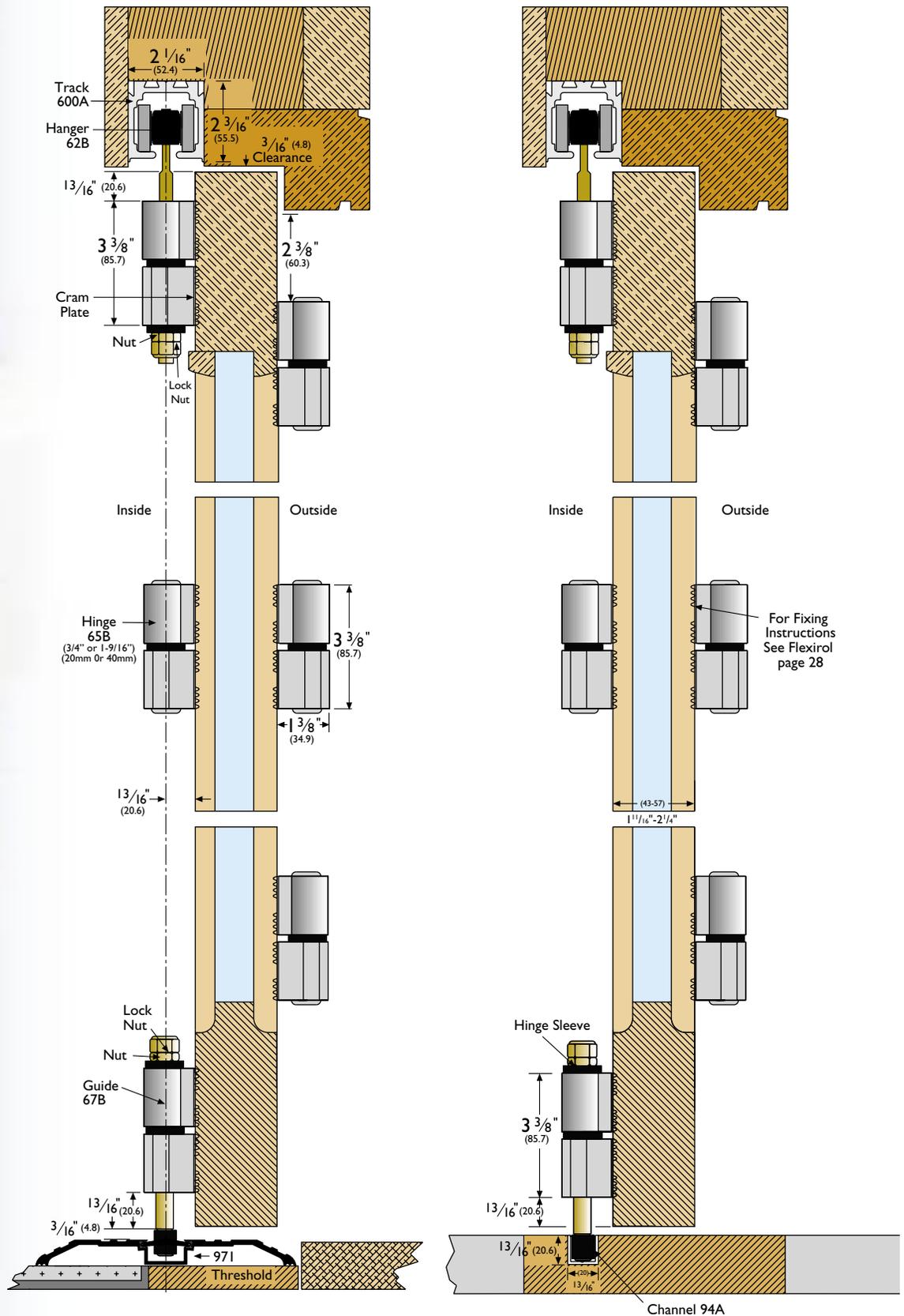
\* For other options see Guide to Quantities



## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.

# PACER EXTERIOR ENDFOLD FOR WOOD DOORS



## CAPACITY

Max. door weight: 143 lbs. (65kg)

Max. door height: 9'10" (3000mm)

Max. door width: 2'11" (900mm)

Door thickness: 1 1/16"-2 1/4" (43mm-57mm)

## APPLICATIONS

Top-hung Pacer gear for end folding exterior doors in wood. Pacer Endfold offers four-wheeled hangers with offset option to cover a wide range of residential and commercial applications. In applications using the four-wheeled hanger with an even number of leaves folding left and right meeting in the center of the opening, an offset hanger is required.

## DOOR TYPES

Residential and commercial wood doors.

## TECHNICAL INFORMATION

**Track:** Aluminum  
Available in 6', 8', 10', and 16'5", lengths

**Brackets:** Face fix  
Joining track

**Hangers:** Intermediate hanger for wood doors with 5 13/16" (148mm) strapbolt, no hinge  
End hanger for wood doors with 4 1/16" (104mm) strapbolt, no hinge  
Offset end hanger for all doors with 4 1/2" (114mm) strapbolt, no hinge

**Guides:** Intermediate guide for wood doors with 5 15/16" (150mm) spindle, no hinge  
End guide for wood doors with 4 3/16" (110mm) spindle, no hinge

**Guide Channel:** Brass  
Aluminum

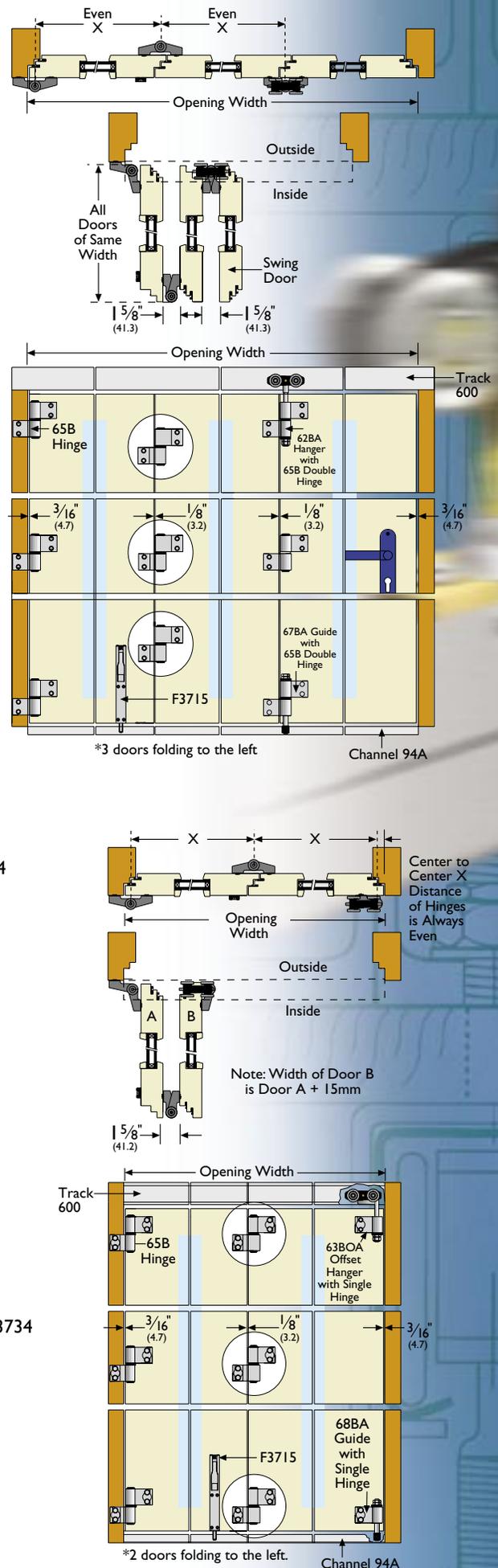
**Hinges:**† 1 3/16" (20mm) single hinge for wood/aluminum doors  
1 3/16" (20mm) double hinge for wood/aluminum doors  
1 9/16" (40mm) single hinge for wood/aluminum doors  
1 9/16" (40mm) double hinge for wood/aluminum doors  
1 3/16"-1 9/16" (20-40mm) double hinge for wood/aluminum frames

**Accessories:** Flush pull  
Flush bolts  
Narrow flush bolt and keep

† Refer to page 110 for hinge installation.

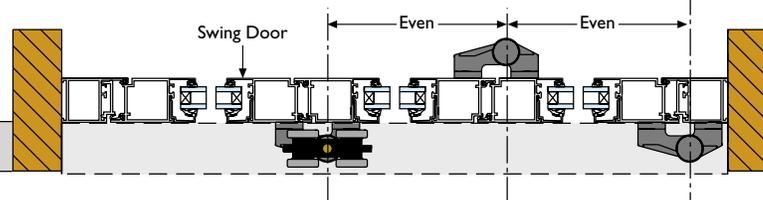
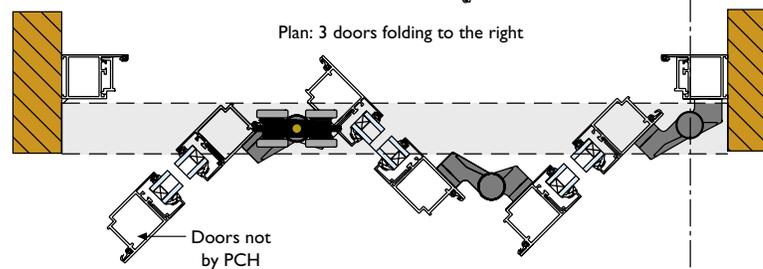
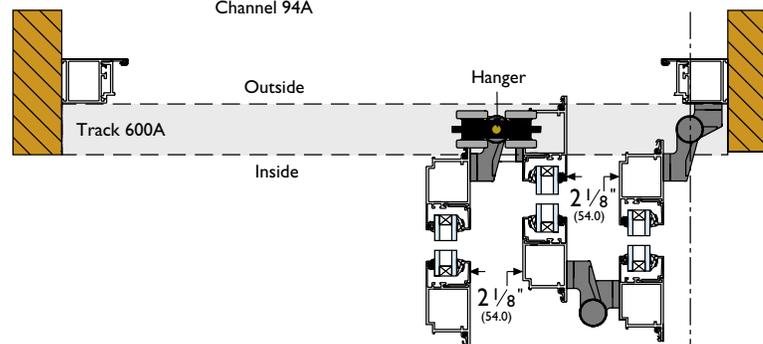
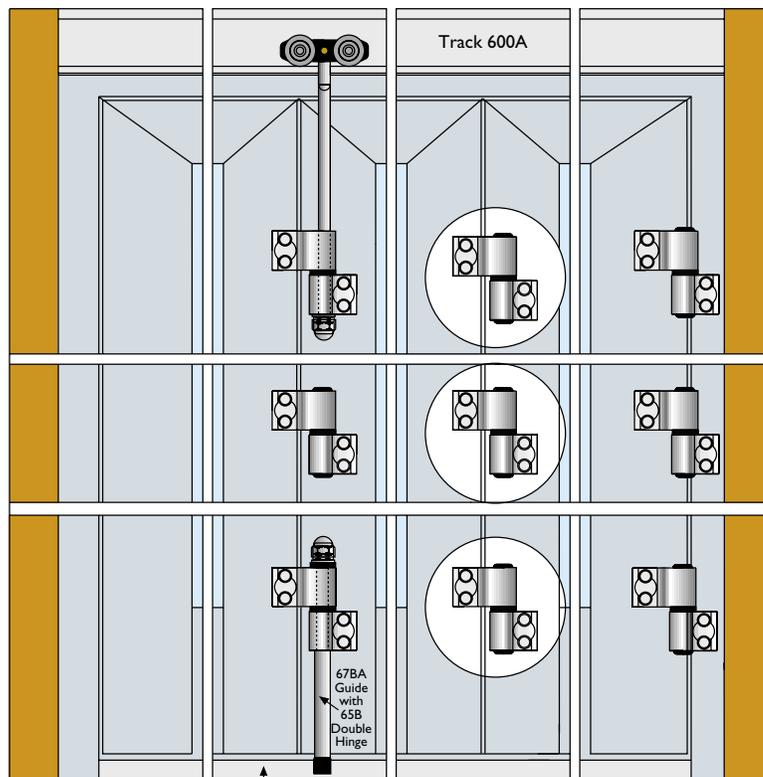
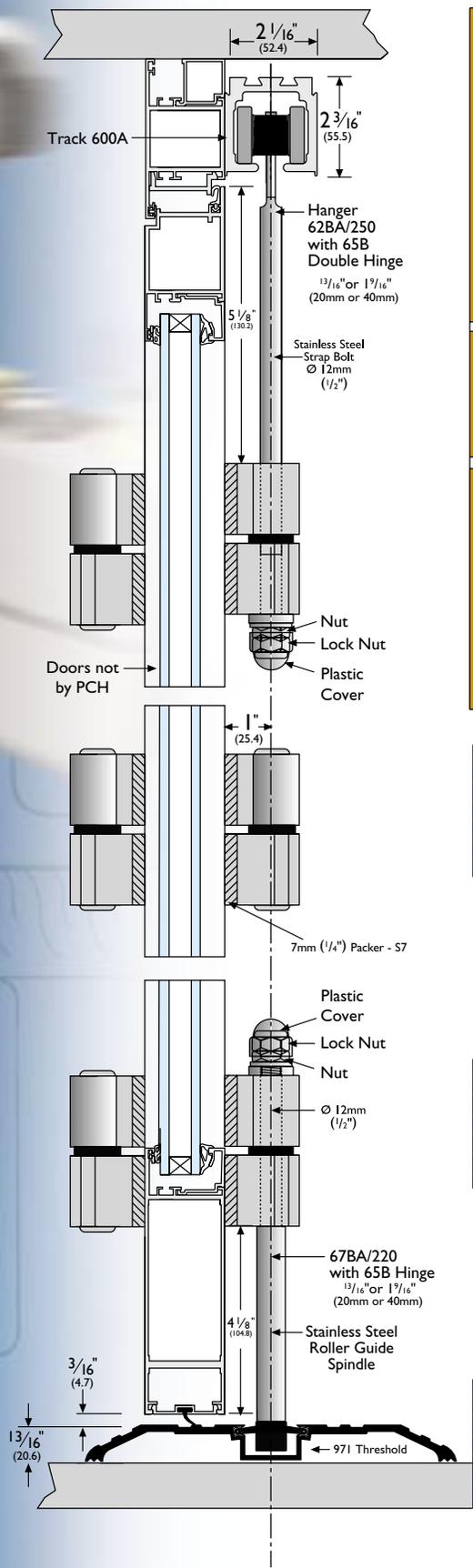


Hinges for hangers and guides must be ordered separately. Use a single hinge for end hangers and guides, double hinge for intermediate hangers and guides.





# PACER EXTERIOR ENDFOLD FOR ALUMINUM DOORS



## CAPACITY

- Max. door weight: 143 lbs. (65kg)
- Max. door height: 9'10" (3000mm)
- Max. door width: 2'11" (900mm)
- Door thickness: 1<sup>3</sup>/<sub>8</sub>"-1<sup>5</sup>/<sub>16</sub>" (35mm-50mm)

## APPLICATIONS

Top-hung Pacer gear for end folding exterior doors in aluminum. Pacer Endfold offers four-wheeled hangers with an offset option to cover a wide range of residential and commercial applications. In applications with an even number of leaves folding left and right meeting in the center of the opening, an offset hanger is required.

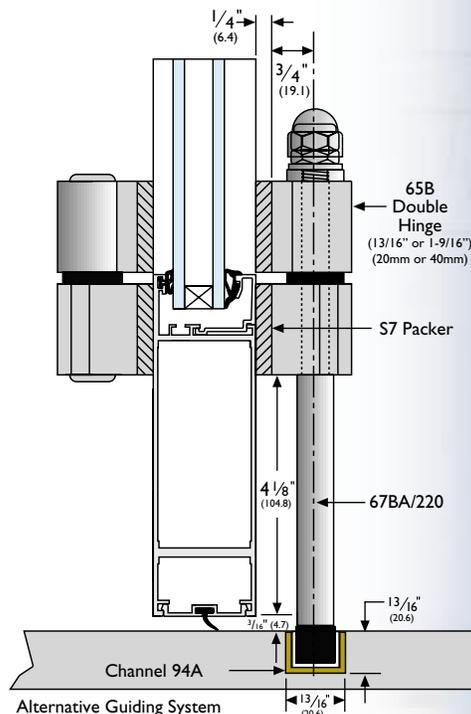
## DOOR TYPES

Pacer Exterior Endfold is suitable for both residential and commercial aluminum doors. **Fixing components are not supplied as standard for aluminum doors.**

## TECHNICAL INFORMATION

- Track: Aluminum  
Available in 6', 8', 10', and 16'5", lengths
- Brackets: Face fix  
Joining track
- \*Hangers: Intermediate hanger for aluminum doors with no hinge 5<sup>13</sup>/<sub>16</sub>" (148mm)/9<sup>15</sup>/<sub>16</sub>" (250mm) strapbolt  
End hanger for aluminum doors with no hinge 5<sup>1</sup>/<sub>2</sub>" (140mm)/8<sup>1</sup>/<sub>16</sub>" (205mm) strapbolt  
Offset end hanger for all doors with no hinge 4<sup>1</sup>/<sub>2</sub>" (114mm) strapbolt
- \*Guides: Intermediate guide for aluminum doors with no hinge 5<sup>15</sup>/<sub>16</sub>" (150mm)/8<sup>11</sup>/<sub>16</sub>" (220mm) spindle  
End guide for aluminum doors with no hinge 4<sup>5</sup>/<sub>16</sub>" (110mm)/7<sup>1</sup>/<sub>16</sub>" (180mm) spindle
- Guide Channel: Brass  
Aluminum
- Hinges: 1<sup>3</sup>/<sub>16</sub>" (20mm) single hinge for wood/aluminum doors  
1<sup>3</sup>/<sub>16</sub>" (20mm) double hinge for wood/aluminum doors  
1<sup>9</sup>/<sub>16</sub>" (40mm) single hinge for wood/aluminum doors  
1<sup>9</sup>/<sub>16</sub>" (40mm) double hinge for wood/aluminum doors  
1<sup>3</sup>/<sub>16</sub>"-1<sup>9</sup>/<sub>16</sub>" (20-40mm) double hinge for wood/aluminum frames
- Accessories: Flush pull  
Flush bolts  
Narrow flush bolt and keep

\* All with stainless steel strapbolt/spindle.

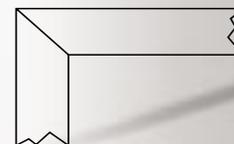
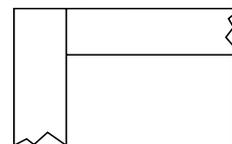


600A

**Squared Joint**

**Mitred Joint**

IB  
IBX



62BA/148

62BA/250

63BA/104

63BA/205

63BOA/114

63BOA/114

67BA/150

67BA/220

68BA/110

68BA/180

94

94A

65B/20/1

65B/20

65B/40/1

65B/40

65B/20-40

400

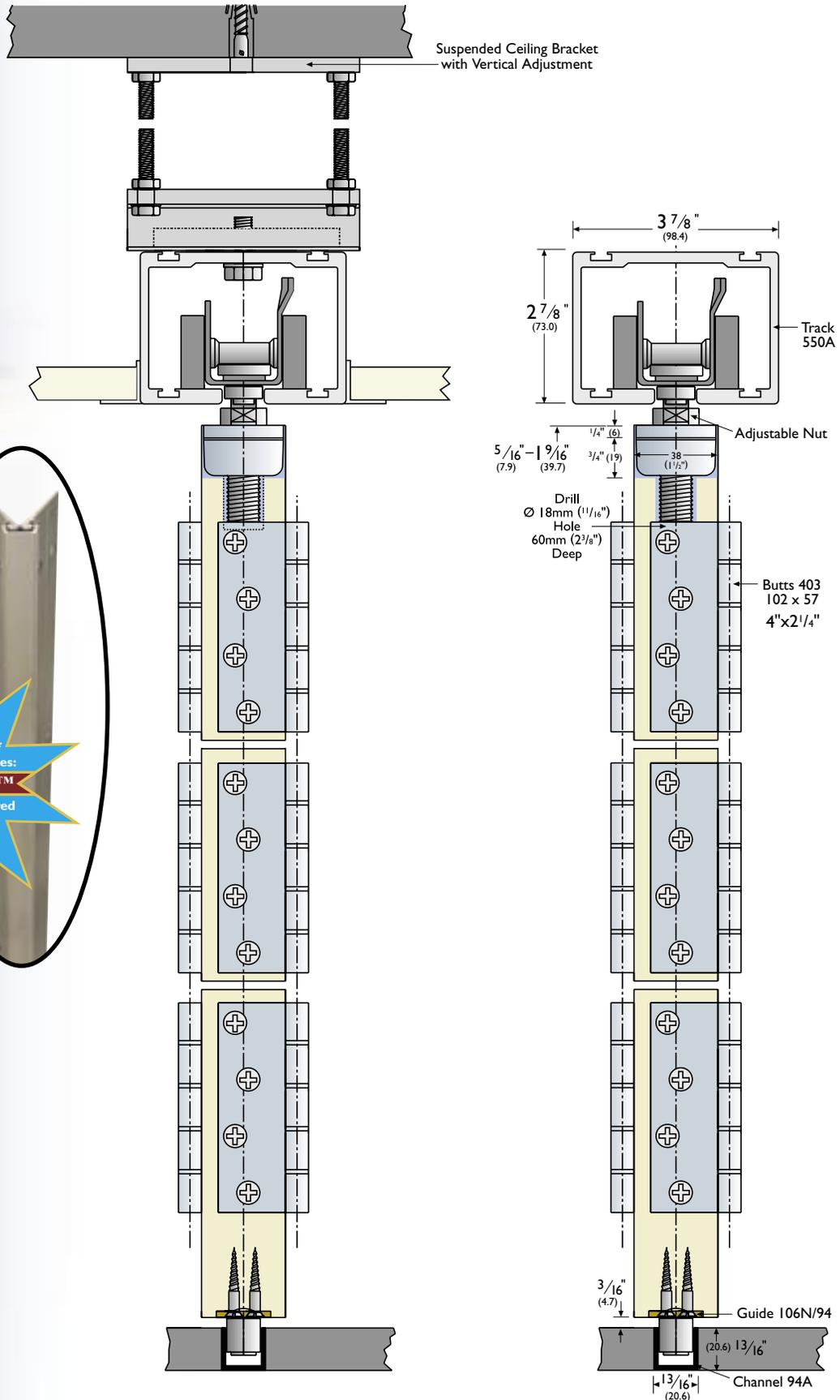
333/454

F3715 & F3734



Hinges for hangers and guides must be ordered separately. Use a single hinge for end hangers and guides, double hinge for intermediate hangers and guides.

# FLEXIROL INTERIOR CENTERFOLD FOR WOOD DOORS



Use in Place of  
401/402/403 Hinges:  
**PemkoHinge™**  
Continuous Geared  
Aluminum  
Hinges

## CAPACITY

Max. door weight: 275 lbs. (125kg)

Max. door height: 14'9" (4500mm)

Max. door width: 4' (1200mm)

Door thickness: 1 1/16"-2 1/4" (43mm-57mm)

## APPLICATIONS

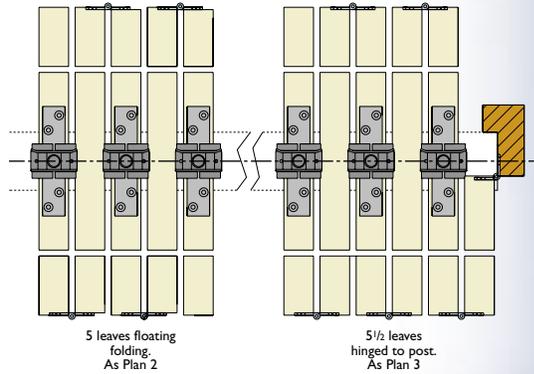
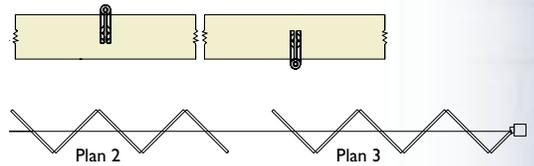
Top-hung Flexirol gear and fittings for center folding wood partition doors. Leaves are hung centrally and can fold to one or both sides. For applications hinged to the jamb, 3 1/2, 5 1/2 or 7 1/2 leaves can be used with the half-leaf hinged to the jamb. For best operation of floating units, 5, 7 or 9 leaves should be used. Any access door should be hinged separately to the jamb.

## DOOR TYPES

Heavy commercial wood doors.

## TECHNICAL INFORMATION

<u>Track:</u>		550A
<u>Brackets:</u>	Face fix	1A/550
	Soffit fix	3S/550
<u>Hangers:</u>	Wood doors	556/61
<u>Guides:</u>	Nylon roller guide	106N/94
<u>Guide Channel:</u>	Brass	94
	Aluminum	94A
<u>Hinges:</u>	Butt hinges	403
<u>Accessories:</u>	Flush pull	400
	Flush bolts	333/454
	Narrow flush bolt and keep	F3715 & F3734



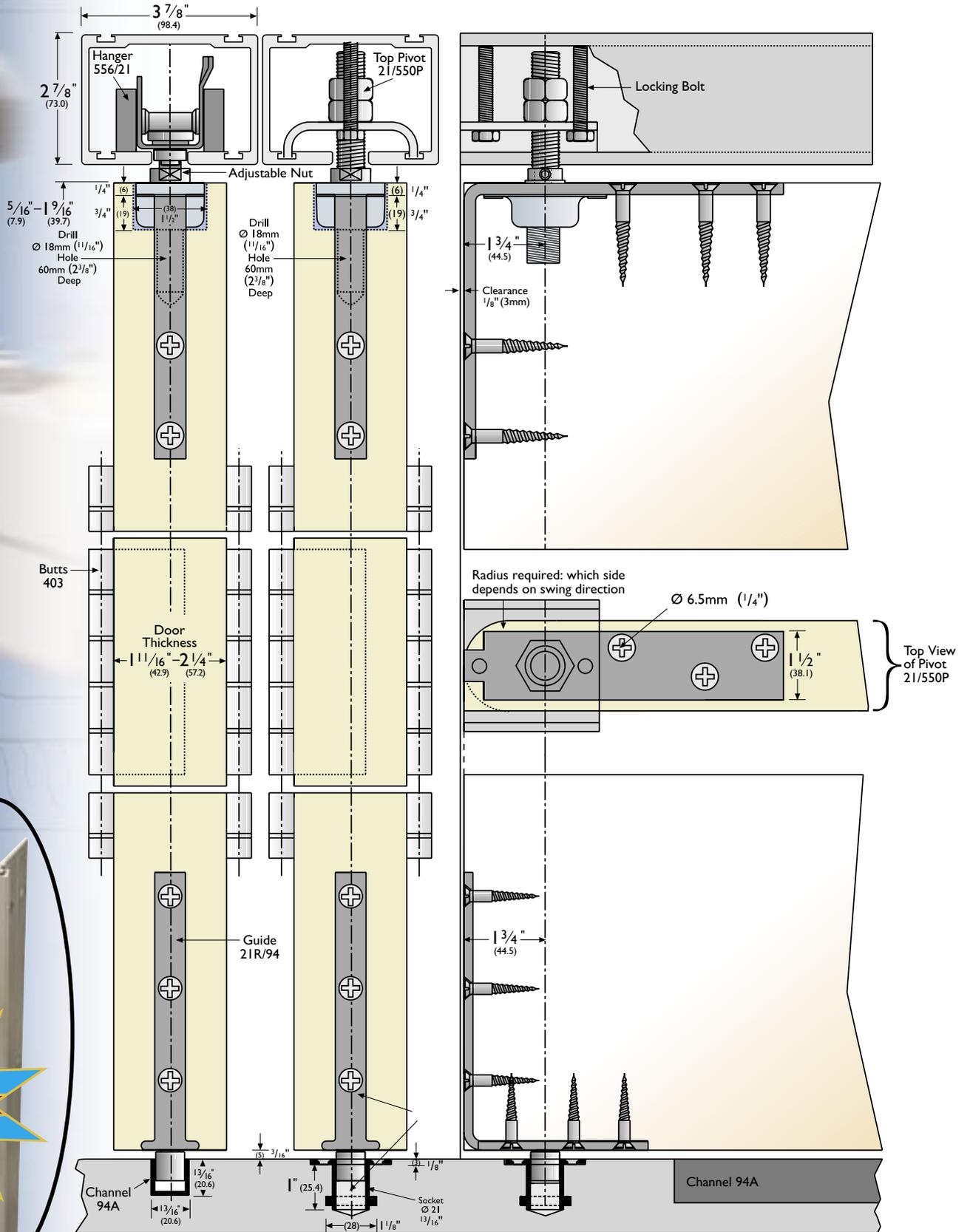
All full leaves are of equal width.

A pivoting half-leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).

Note: Hangers and guides are to be fitted to alternate leaves only.



# FLEXIROL INTERIOR ENDFOLD FOR WOOD DOORS



Use in Place of  
401/402/403 Hinges:  
**PemkoHinge™**  
Continuous Geared  
Aluminum  
Hinges

## CAPACITY

Max. door weight: 275 lbs. (125kg)

Max. door height: 14'9" (4500mm)

Max. door width: 4' (1200mm)

Door thickness: 1 1/16"-2 1/4" (43mm-57mm)

## APPLICATIONS

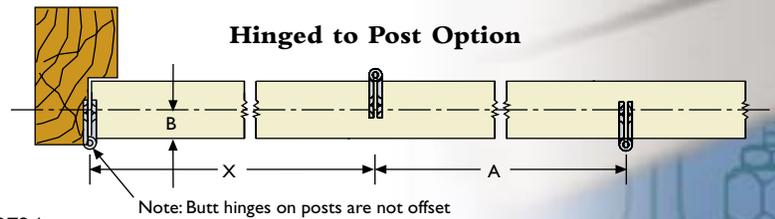
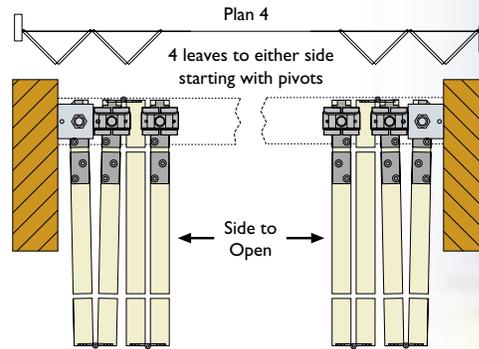
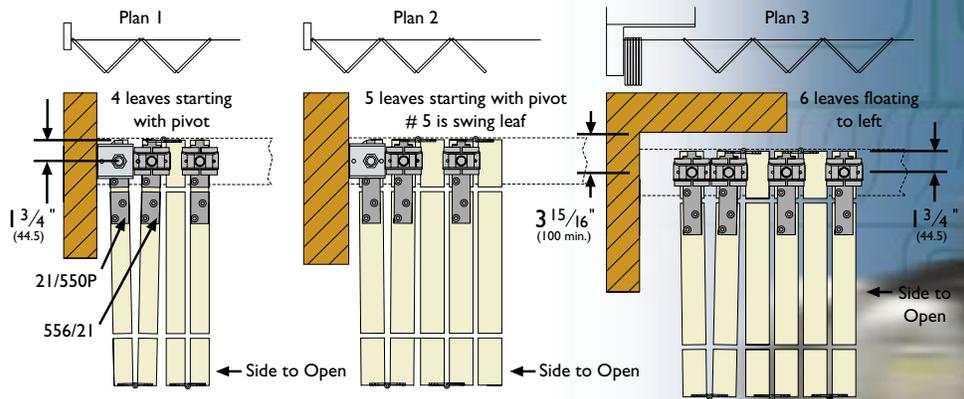
Top-hung Flexirol gear and fittings for end folding wood partition doors. Leaves can be hung to the left or right of an opening or hung as floating units.

## DOOR TYPES

Heavy commercial wood doors.

## TECHNICAL INFORMATION

<u>Track:</u>		550
	(see component section for range of finishes)	
<u>Brackets:</u>	Face fix	1A/550
	Soffit fix	3S/550
<u>Hangers:</u>	Wood doors	556/21
<u>Pivots:</u>	Wood doors	21/550P
<u>Guides:</u>	Brass end guide roller	21R/94
<u>Guide Channel:</u>	Brass	94
	Aluminum	94A
<u>Hinges:</u>	Butt hinges	403
<u>Accessories:</u>	Flush pull	400
	Flush bolts	333/454
	Narrow flush bolt and keep	F3715 & F3734



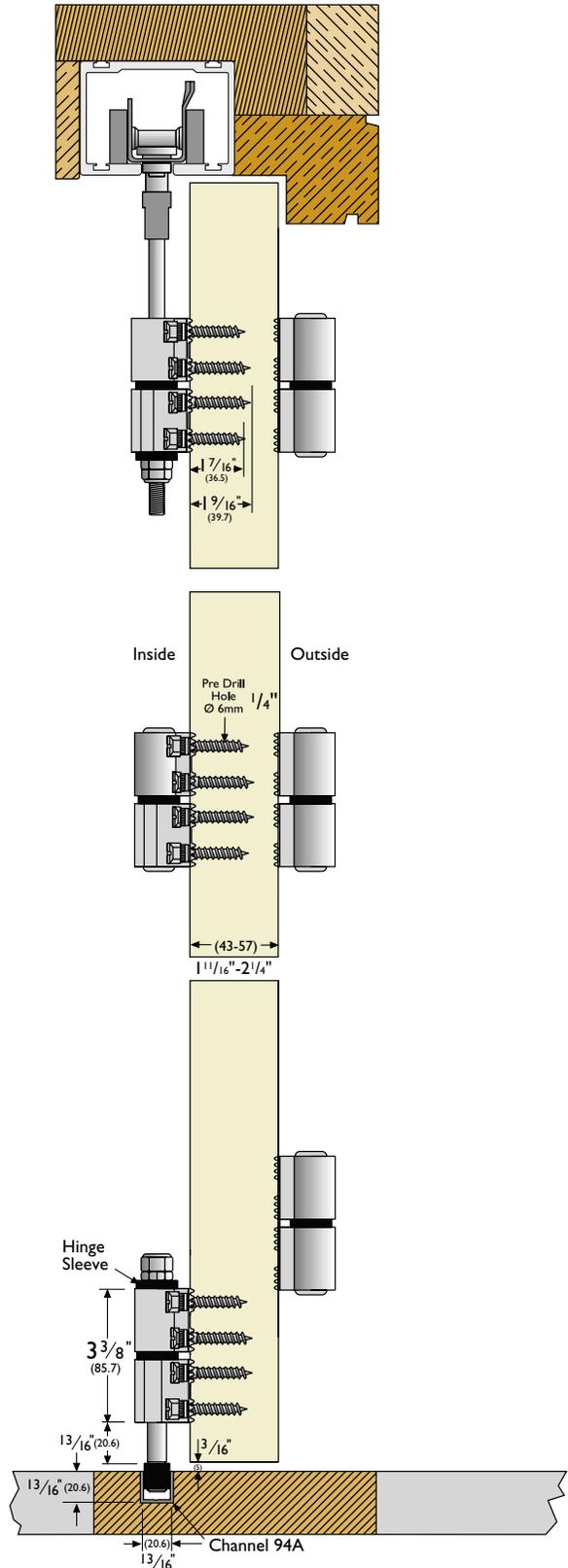
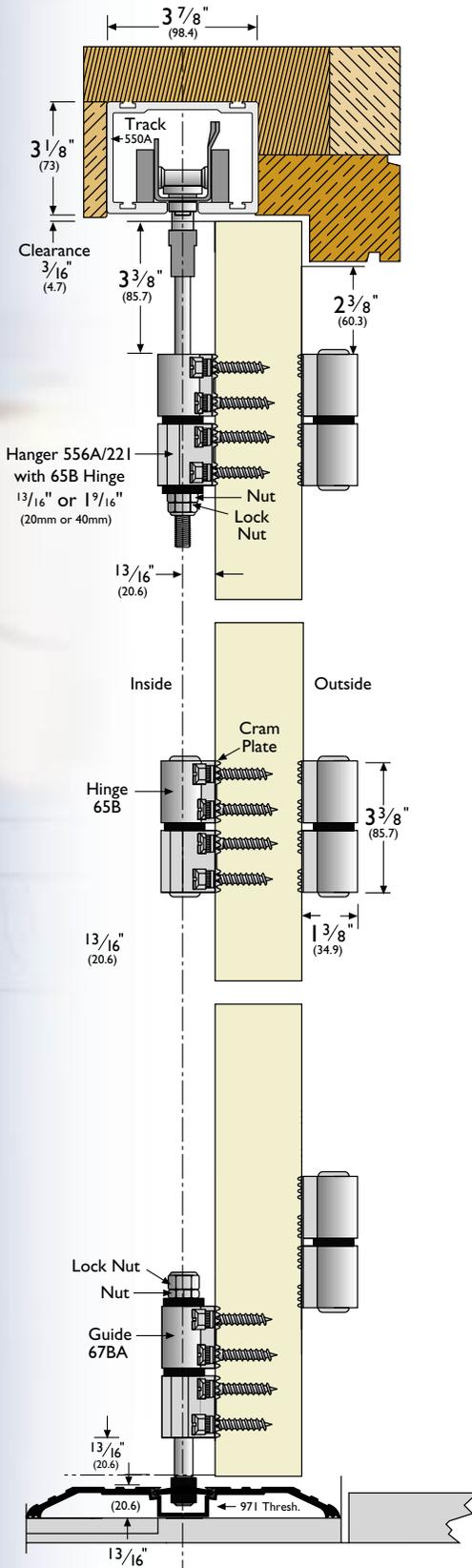
All leaves are of equal width except the leaf hinged to the post. The dimension for the leaf hinged to the post (X) is, A, less B (half the leaf thickness), less 45mm (1 3/4").

$$\text{Formula: } X = (A - B) - 45\text{mm } (1\frac{3}{4}\text{'})$$





# FLEXIROL EXTERIOR ENDFOLD FOR WOOD DOORS



## CAPACITY

Max. door weight: 275 lbs. (125kg)  
 Max. door height: 14'9" (4500mm)  
 Max. door width: 4' (1200mm)  
 Door thickness: 1 1/16"-2 1/4" (43mm-57mm)

## APPLICATIONS

Top-hung Flexirol gear and fittings for heavy end folding wood doors. Leaves can be hung to the left or right of an opening.

## DOOR TYPES

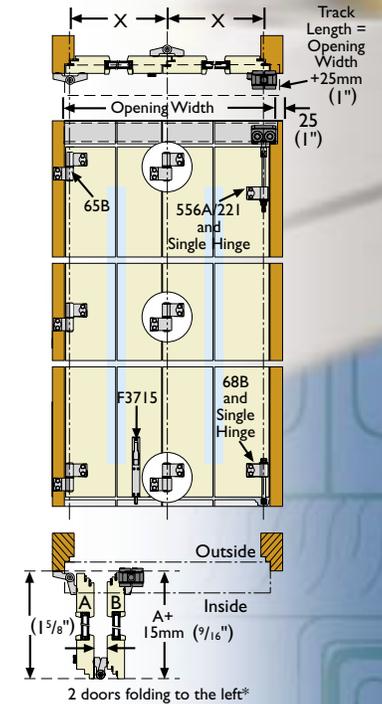
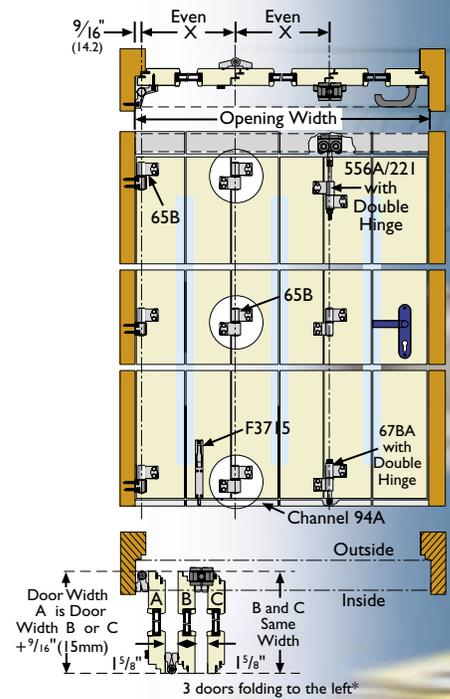
Heavy commercial wood doors.

## TECHNICAL INFORMATION

<b>Track:</b>	Aluminum	550A
<b>Brackets:</b>	Face fix Joining track	1A/550 3S/550
<b>Hangers:</b>	Intermediate or end hanger for wood/ aluminum doors with 8 3/4" (221mm) strapbolt, no hinge	556A/221
<b>Guides:</b>	Intermediate guide for wood doors with 5 15/16" (150mm) spindle, no hinge End guide for wood doors with 4 5/16" (110mm) spindle, no hinge	67BA/150 68BA/110
<b>Guide Channel:</b>	Brass Aluminum	94 94A
<b>Hinges:†</b>	1 3/16" (20mm) single hinge for wood/aluminum doors 1 3/16" (20mm) single hinge for wood/aluminum doors 1 9/16" (40mm) single hinge for wood/aluminum doors 1 9/16" (40mm) double hinge for wood/aluminum doors 1 3/16"-1 9/16" (20-40mm) double hinge for wood/aluminum frames	65B/20/1 65B/20 65B/40/1 65B/40 65B/20-40
<b>Accessories:</b>	Flush pull Flush bolts Narrow flush bolt and keep	400 333/454 F3715 & F3734

\* All with stainless steel strapbolt/spindle.

† Refer to page 110 for hinge installation.

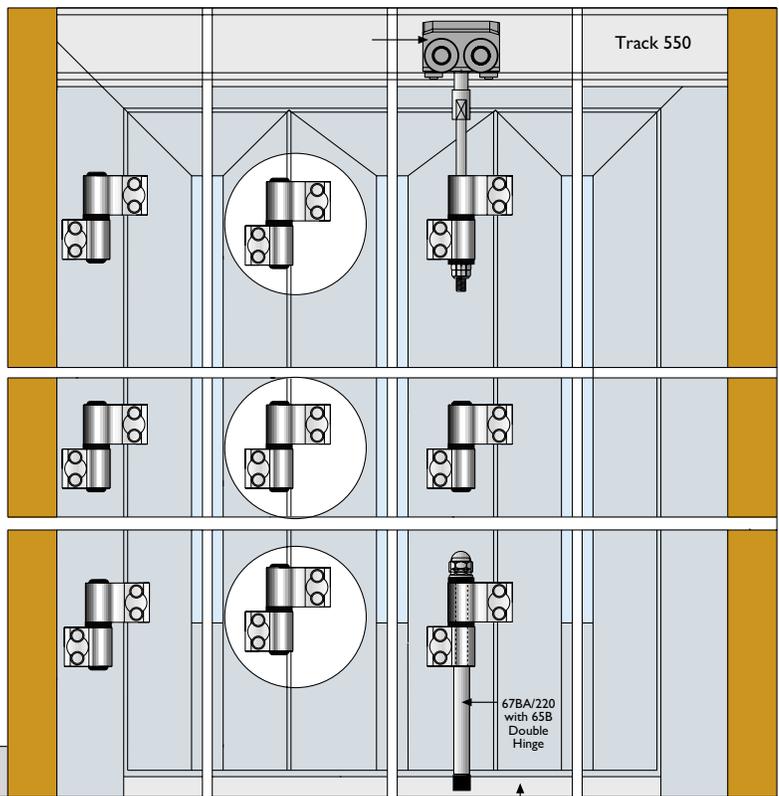
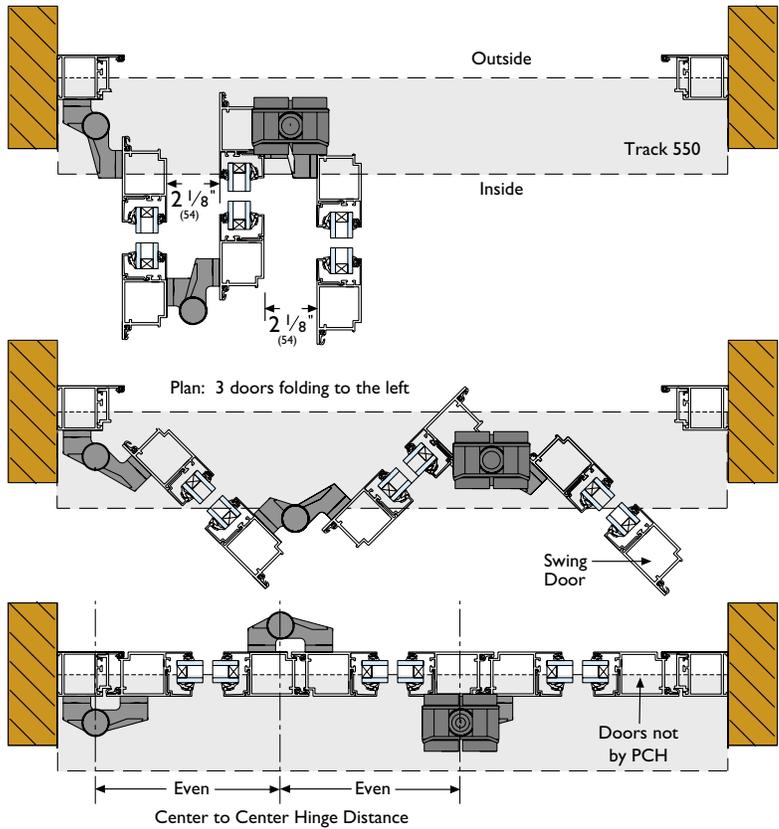
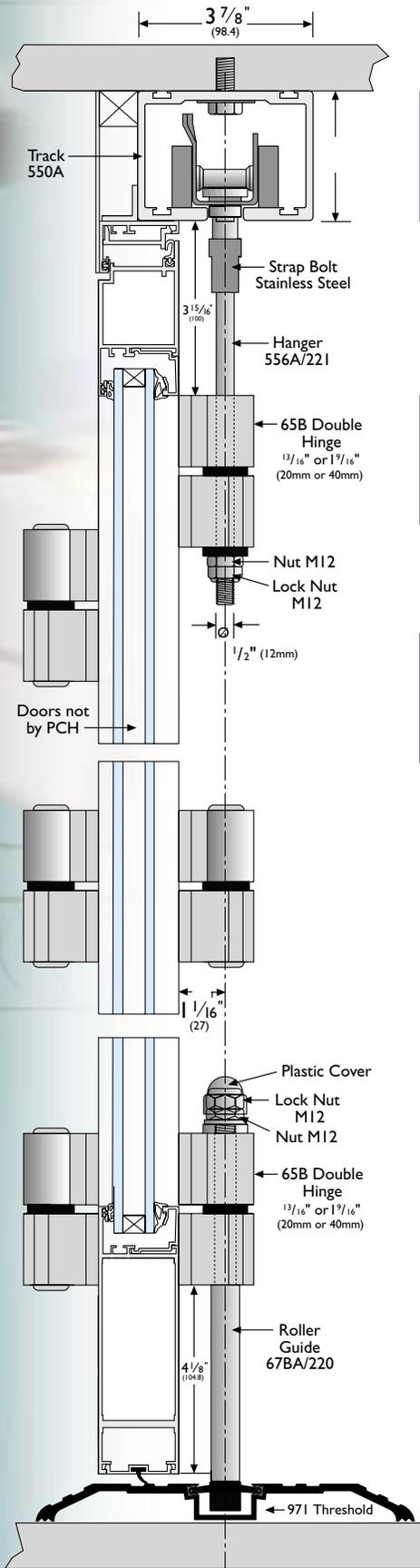


\* For other options see Hinge Installation page 110.



Hinges for hangers and guides must be ordered separately. Use a single hinge for end hangers and guides, double hinge for intermediate hangers and guides.

# FLEXIROL EXTERIOR ENDFOLD FOR ALUMINUM DOORS



## CAPACITY

- Max. door weight:** 275 lbs. (125kg)
- Max. door height:** 14'9" (4500mm)
- Max. door width:** 4' (1200mm)
- Door thickness:** 1 1/16"-2 1/4" (43mm-57mm)

## APPLICATIONS

Top-hung Flexirol gear and fittings for end folding aluminum doors. Leaves can be hung to the left or right of an opening.

## DOOR TYPES

Flexirol Exterior Endfold is suitable for aluminum doors  
**Fixing components are not supplied as standard for aluminum doors.**

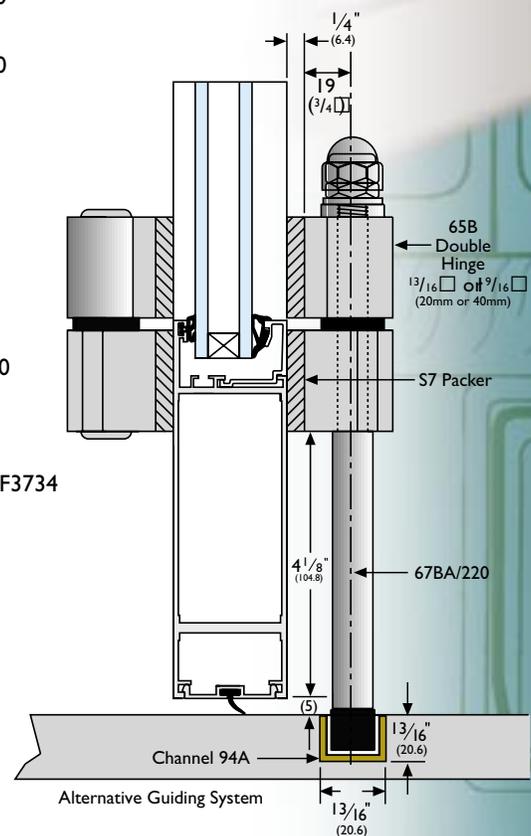


## TECHNICAL INFORMATION

<b>Track:</b>	Aluminum	550A
<b>Brackets:</b>	Face fix	1A/550
	Joining track	3S/550
<b>Hangers:</b>	Intermediate or end hanger for wood/ aluminum doors with 8 3/4" (221mm) strapbolt, no hinge	556A/221
<b>Guides:</b>	Intermediate guide for aluminum with 5 15/16" (150mm) spindle, no hinge	67BA/220
	End guide for aluminum doors with 4 5/16" (110mm) spindle, no hinge	68BA/180
<b>Guide Channel:</b>	Brass	94
	Aluminum	94A
<b>Hinges:†</b>	1 3/16" (20mm) single hinge for aluminum doors	65B/20/1
	1 3/16" (20mm) double hinge for aluminum doors	65B/20
	1 9/16" (40mm) single hinge for aluminum doors	65B/40/1
	1 9/16" (40mm) double hinge for aluminum doors	65B/40
	1 3/16"-1 9/16" (20-40mm) double hinge for aluminum frames	65B/20-40
<b>Accessories:</b>	Flush pull	400
	Flush bolts	333/454
	Narrow flush bolt and keep	F3715 & F3734
	1/4" (7mm) packer	S7

\* All with stainless steel strapbolt/spindle.

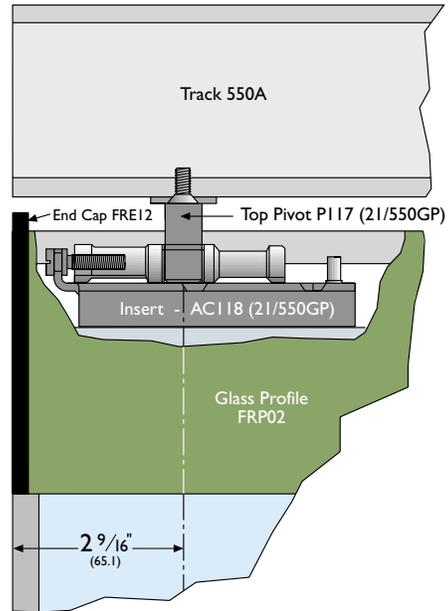
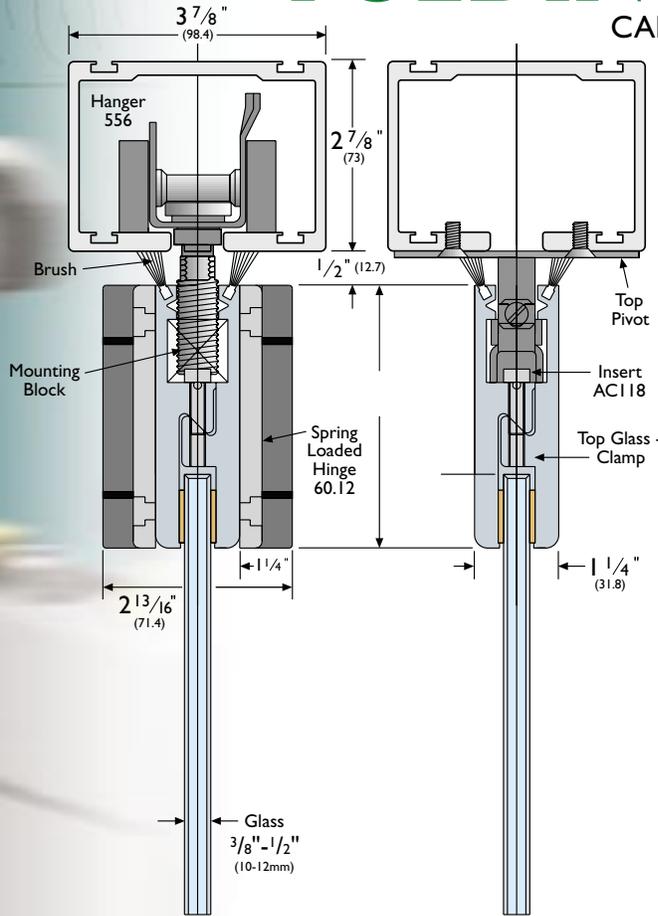
† Refer to page 110 for hinge installation.



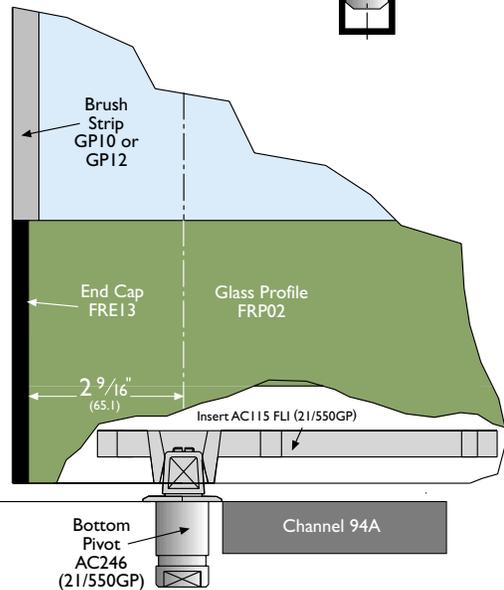
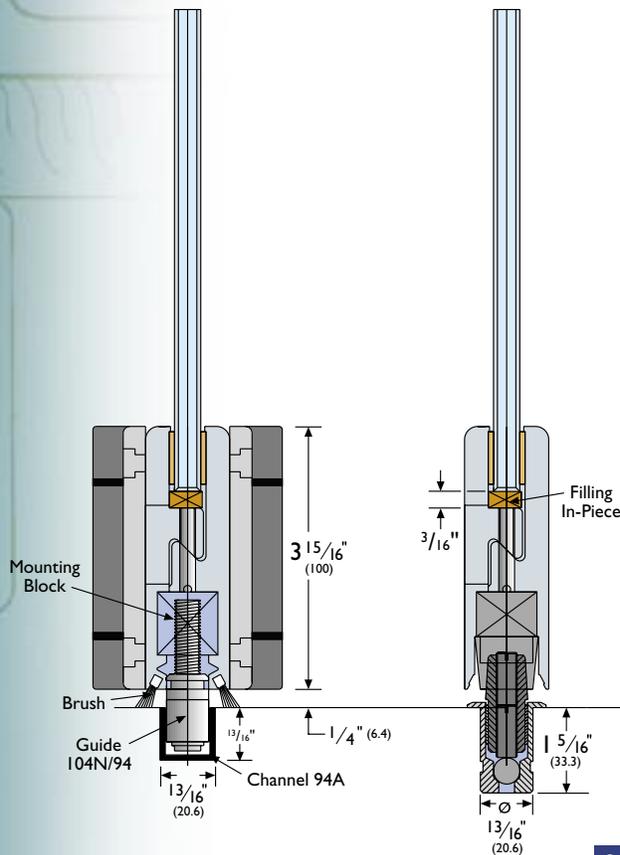
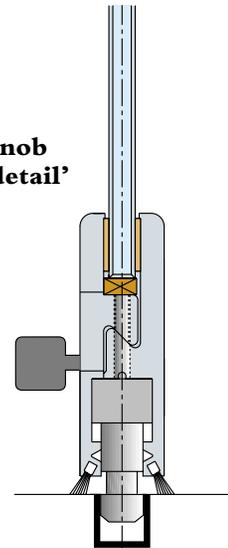
Hinges for hangers and guides must be ordered separately.  
 Use a single hinge for end hangers and guides, double hinge  
 for intermediate hangers and guides.

# FLEXIROL FOLDING GLASS

CAN ALSO BE USED WITH PACER



**'Turn knob locking detail'**



## CAPACITY

**Max. door weight:** 275 lbs. (125kg)

**Max. door height:** 8'2" (2500mm)

**Max. door width:** 2'11" (900mm)

**Door thickness:** 3/8"-1/2" (10mm or 12mm)

## APPLICATIONS

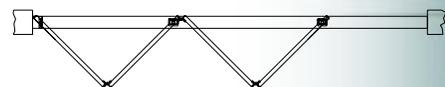
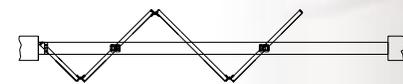
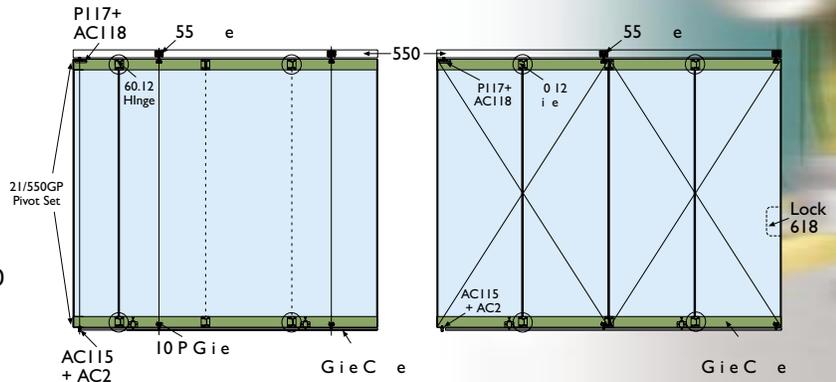
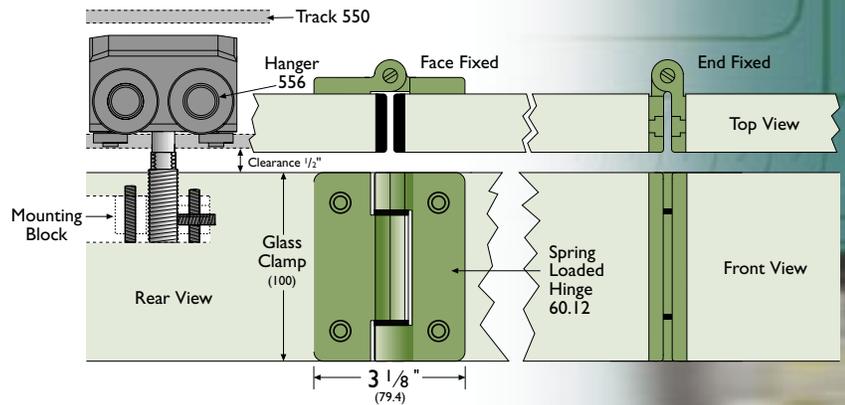
Flexirol Folding Glass covers both center fold and end fold applications depending on the placement of the hangers within the profile.

## DOOR TYPES

Glass panels of 3/8" (10mm) or 1/2" (12mm) thickness in tempered or laminated glass. All profiles for glass panels are made to measure with all necessary routing completed.

## TECHNICAL INFORMATION

<b>Track:</b>		550A
<b>Brackets:</b>	Face fix	1A/550
	Soffit fix	3S/550
<b>Hangers:</b>	556 with mounting block	
<b>Pivots:</b>	Glass pivot set	21/550GP
<b>Guides:</b>	104N/94 with mounting block	
<b>Guide Channel:</b>	Brass	94
	Aluminum	94A
<b>Hinges:</b>	Adjustable face fixed,	60.12
	spring-loaded hinge	
<b>Accessories:</b>	Glass door lock	618
	Glass door receiving lock	619



## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.



# PACER AND FLEXIROL MULTIDIRECTIONAL DOOR SYSTEMS

The Henderson series of multidirectional door systems offers the designer unparalleled flexibility without compromising the practicality of the application. The two multidirectional systems, Pacer and Flexirol, offering two degrees of movement, provide this flexibility.

The Pacer multidirectional system offers 135° movement for wood, metal and glass doors to a maximum weight of 264 lbs. (120kg) per door. The Flexirol system offers a choice of two hangers providing either 90° or 135° maximum movement, to a maximum weight of 1100 lbs. (500kg) depending on the choice of hanger.

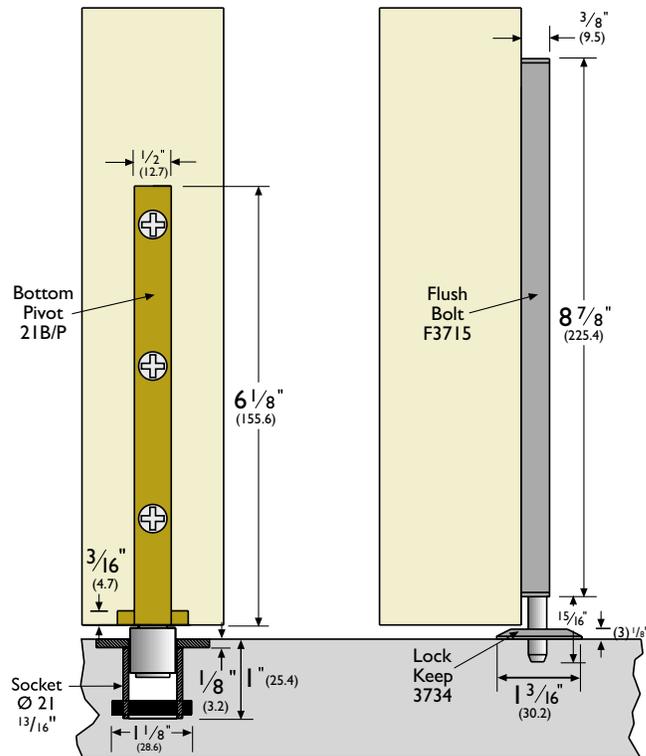
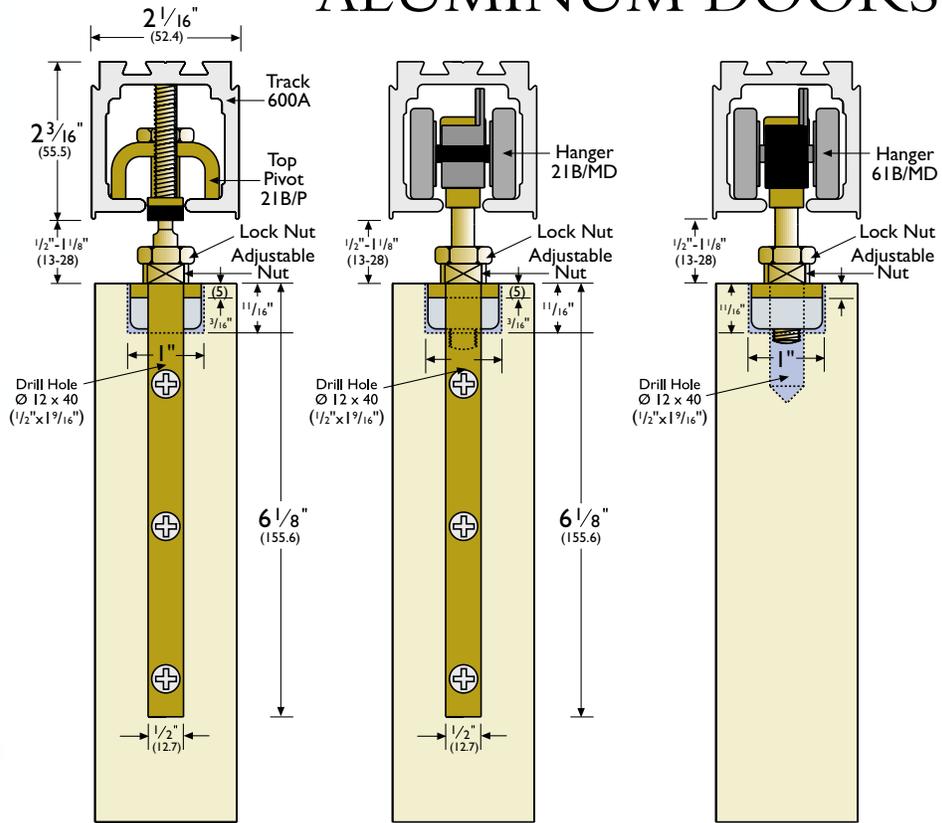
Both systems offer the options of curved track and track colored to any BS color, as well as a variety of plated finishes. As part of the Flexirol system, Henderson also offers the option of acoustic panels, to be used in conjunction with both the 90° and 135° hangers.

The multidirectional range of systems is ideal for shop-fronts, internal partitions, movable walls, conference rooms and any situation requiring the flexibility of a stacking system.



PACER

# MULTIDIRECTIONAL FOR WOOD AND ALUMINUM DOORS



## CAPACITY

**Max. door weight:** 264 lbs. (120kg)

**Max. door height:** 9'10" (3000mm)

**Max. door width:** 4' (1200mm)

**Door thickness:** 1<sup>3</sup>/<sub>8</sub>"-2" (35mm-50mm)

## APPLICATIONS

Top hung Pacer gear for residential and commercial doors requiring 135° movement.

## DOOR TYPES

Moderate weight wood and aluminum doors.

## TECHNICAL INFORMATION

**Track:** 600A (extruded aluminum)  
Available in 6', 8', 10', and 16'5" lengths

**Intersects:** Right-hand intersect 45R/600  
Left-hand intersect 45L/600

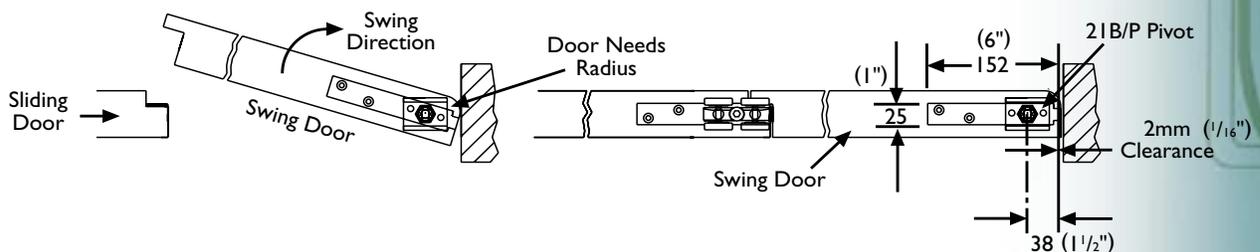
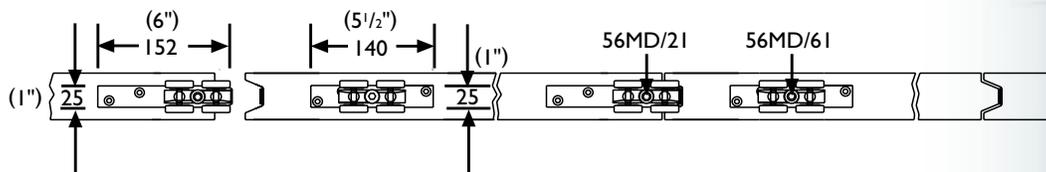
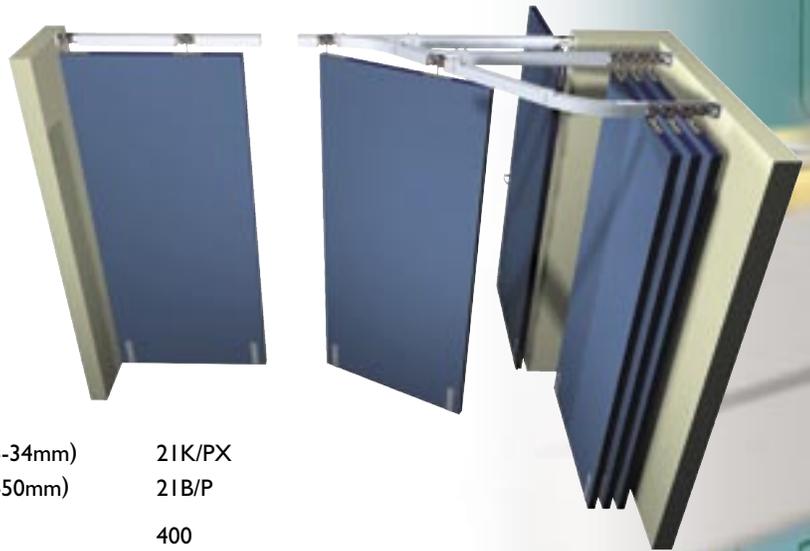
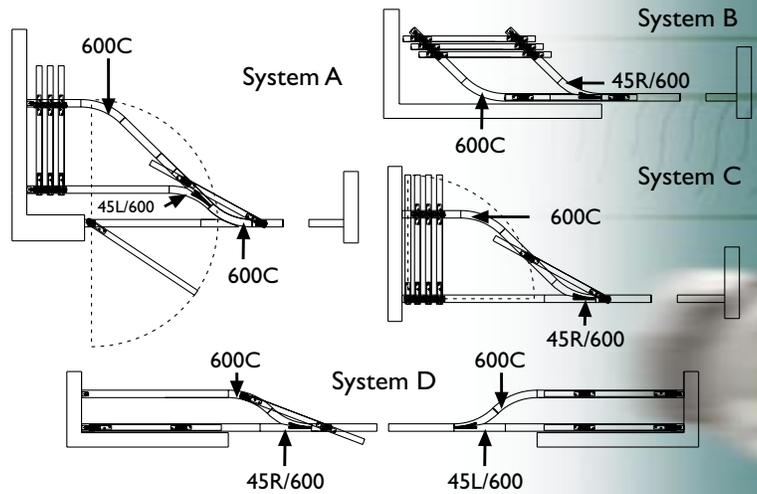
**Curves:** 45° curve 600C

**Brackets:** Face fix IB  
Joining bracket IBX

**Hangers:** Concealed fixing 61B/MD  
Angle plate fixing 21B/MD

**Pivots:** For door widths between 1"-1<sup>5</sup>/<sub>16</sub>" (25-34mm) 21K/PX  
For door widths between 1<sup>3</sup>/<sub>8</sub>"-2" (35-50mm) 21B/P

**Accessories:** Flush pull 400  
Flush bolts 333/454  
Narrow flush bolt and keep F3715 & F3734  
Track stop HH3/290





## CAPACITY

**Max. door weight:** 264 lbs. (120kg)

**Max. door height:** 9'10" (3000mm)

**Max. door width:** 4' (1200mm)

**Panel thickness:** 3/8" (10mm) or 1/2" (12mm)

## APPLICATIONS

The Pacer multidirectional system for glass is a system for both interior and exterior applications. Panels can be secured by either full length glass profile or patch fittings.

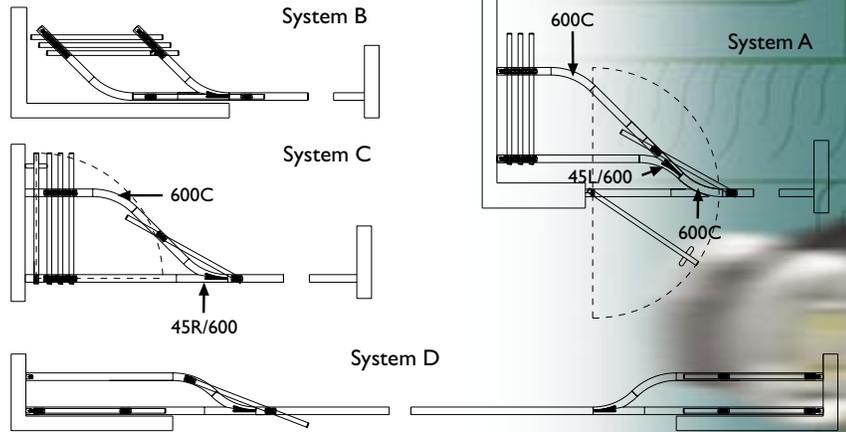
## DOOR TYPES

Tempered glass panels of 3/8" (10mm) or 1/2" (12mm) thickness. Use of laminated glass panels is also possible.

Note: when using glass clamps in combination with protective coatings for glass surfaces such as Clear Shield, ensure that the glass surface to be clamped is not treated with the Clear Shield coating.

## TECHNICAL INFORMATION

<b>Track:</b>	600A (extruded aluminum)	
	Available in 6', 8', 10', and 16'5", lengths	
<b>Intersects:</b>	Right-hand intersect	45R/600
	Left-hand intersect	45L/600
<b>Curves:</b>	45° curve	600C
<b>Brackets:</b>	Face fix	1B
	Joining bracket	1BX
<b>Hangers:</b>	56B/MD	
<b>Glass Profiles:</b>	Top/bottom profile	FRP02
<b>Pivots:</b>	Glass pivot set	21/550GP
<b>Accessories:</b>	Track stop	HH3/290



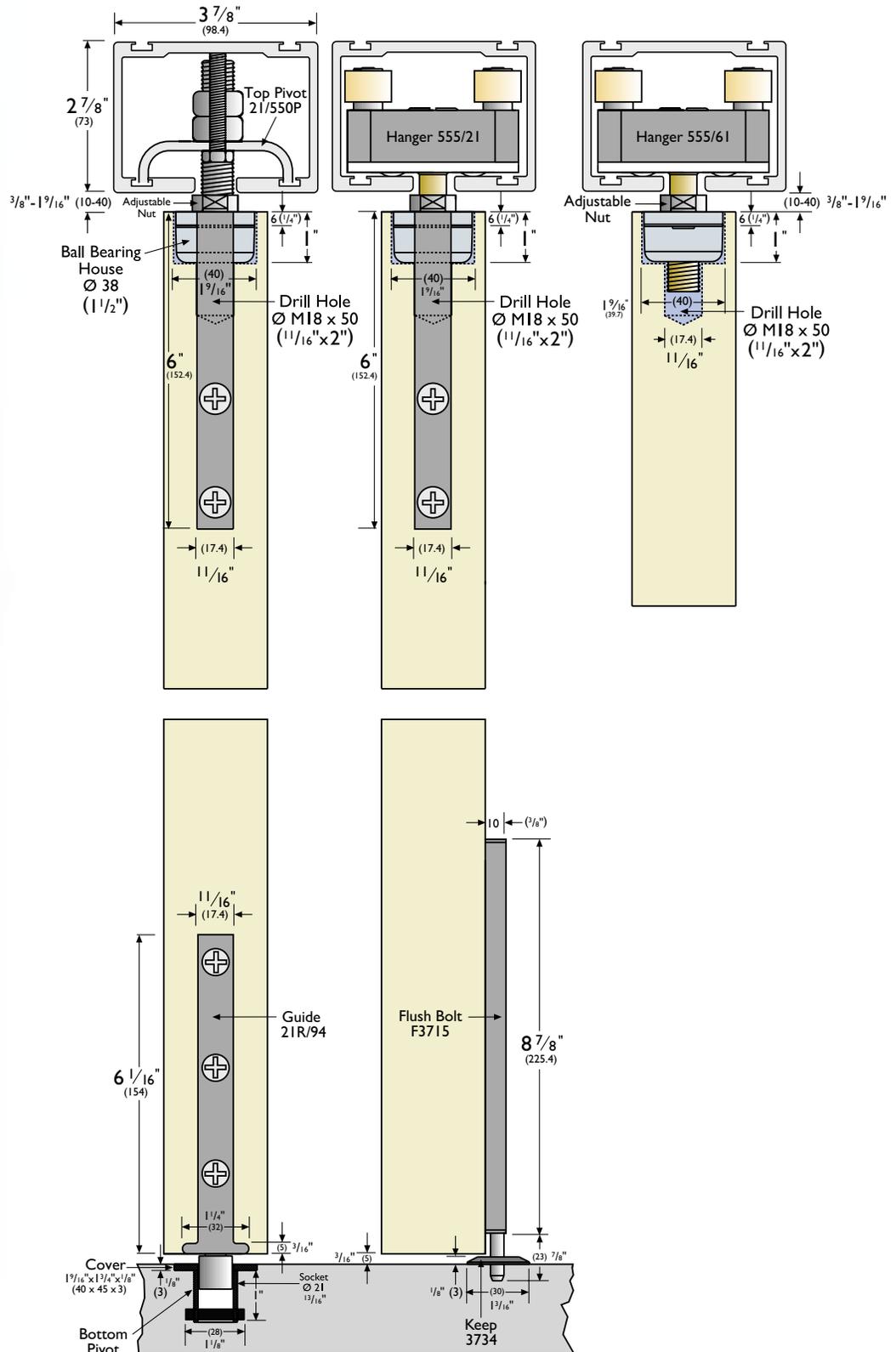
## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.





# FLEXIROL 90° MULTIDIRECTIONAL SYSTEM FOR WOOD AND ALUMINUM DOORS



## CAPACITY

<b>Max. leaf weight:</b>	220 lbs. (100kg) (2 hangers per leaf) 110 lbs. (50kg) (1 hanger per leaf)
<b>Max. door height:</b>	19'8" (6000mm)
<b>Max. door width:</b>	19'8" (6000mm)
<b>Door thickness:</b>	1 <sup>9</sup> / <sub>16</sub> "-3 <sup>15</sup> / <sub>16</sub> " (40mm-100mm)
<b>Max. swing door width:</b>	4' (1200mm)

## APPLICATIONS

Lightweight partitions for internal and external applications requiring 90° movement.

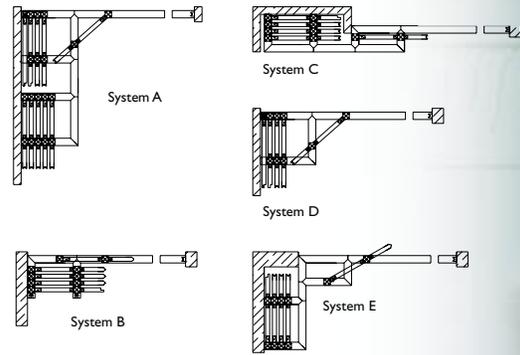
## DOOR TYPES

Commercial wood and aluminum doors.

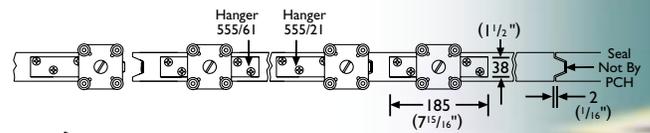
## TECHNICAL INFORMATION

<b>Track:</b>		550A
<b>Intersects:</b>	'T' junction	550AT
	Cross-junction	550ACROSS
<b>Elbows:</b>	90° elbow	550A90
<b>Brackets:</b>	Face fix	1A/550
	Soffit fix	3S/550
<b>Hangers:</b>	Angle plate fixing	555/21
	Concealed fixing	555/61
<b>Pivots:</b>	Pivot set	21/550P
<b>Accessories:</b>	Track stop	HH3/301
	Flush pull	400
	Flush bolts	333/454
	Narrow flush bolt and keep	F3715 & F3734

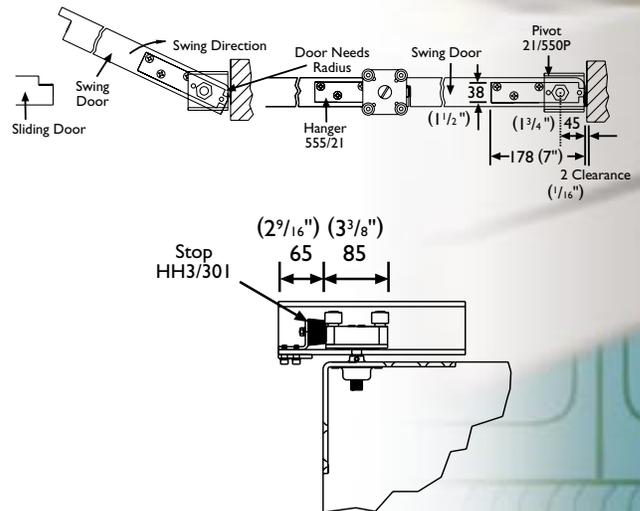
## 90° Configurations



## Door Rebates



## Example Rebated Doors





## CAPACITY

<b>Max. door weight:</b>	220 lbs. (100kg) (2 hangers per leaf) 110 lbs. (50kg) (1 hanger per leaf)
<b>Max. door height:</b>	9'2"-3/8" (2800mm-10mm) tempered glass 13'1"-1/2" (4000mm-12mm) tempered glass
<b>Max. door width:</b>	4'3"-3/8" (1300mm-10mm) tempered glass 4'3"-1/2" (1300mm-12mm) tempered glass
<b>Panel thickness:</b>	3/8" (10mm) or 1/2" (12mm)
<b>Max. swing door width:</b>	4' (1200mm)

## APPLICATIONS

Lightweight glass partitions for internal and external applications requiring 90° movement.

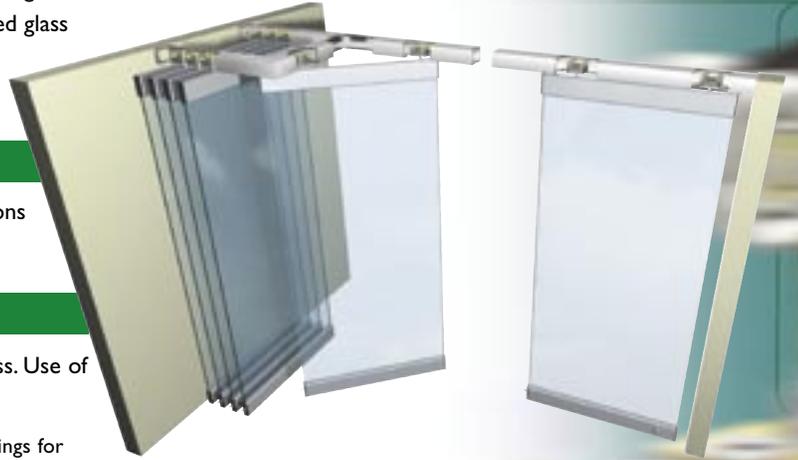
## DOOR TYPES

Tempered glass panels of 10mm (3/8") or 12mm (1/2") thickness. Use of laminated glass panels is also possible.

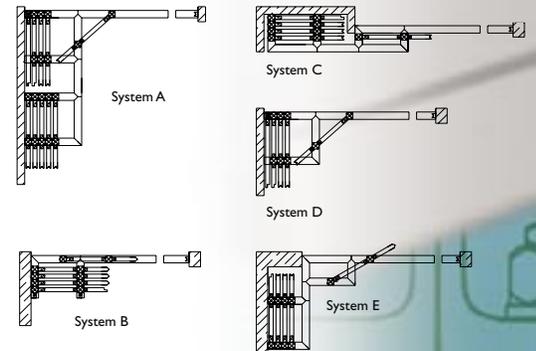
**Note:** When using glass clamps in combination with protective coatings for glass surfaces such as Clear Shield, ensure that the glass surface to be clamped is not treated with the Clear Shield coating.

## TECHNICAL INFORMATION

<b>Track:</b>		550A
<b>Brackets:</b>	Face fix	1A/550
	Soffit fix	3S/550
<b>Hangers:</b>	90° hanger	555
<b>Glass Profiles:</b>	Top/bottom glass profile	FRP02
<b>Pivots:</b>	Glass pivot set (top and bottom)	21/550GP
<b>Accessories:</b>	Track stop	HH3/301



## 90° Configurations



## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.

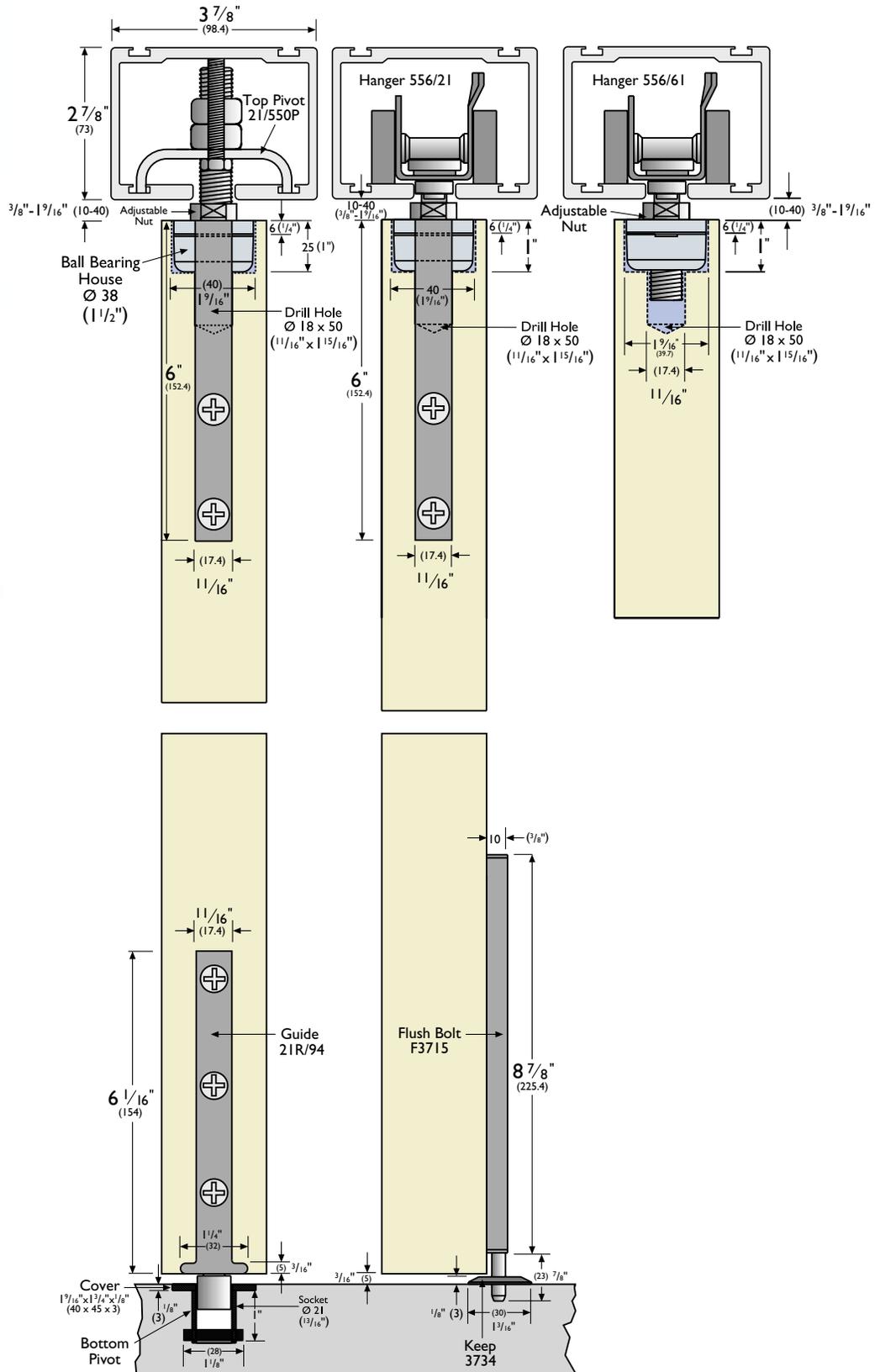


# FLEXIROL 135°

## MULTIDIRECTIONAL

### SYSTEM FOR WOOD

### AND ALUMINUM DOORS



## CAPACITY

<b>Max. door weight:</b>	1100 lbs. (500kg) (2 hangers per leaf) 550 lbs. (250kg) (1 hanger per leaf)
<b>Max. door height:</b>	19'8" (6000mm)
<b>Max. door width:</b>	19'8" (6000mm)
<b>Door thickness:</b>	1 <sup>9</sup> / <sub>16</sub> "-3 <sup>15</sup> / <sub>16</sub> " (40mm-100mm)
<b>Max. swing door width:</b>	4' (1200mm)

## APPLICATIONS

Multidirectional Flexirol is ideally suited to hotels, conference centers, shop-fronts, showrooms, any site that requires high performance and the flexibility of 135° movement.

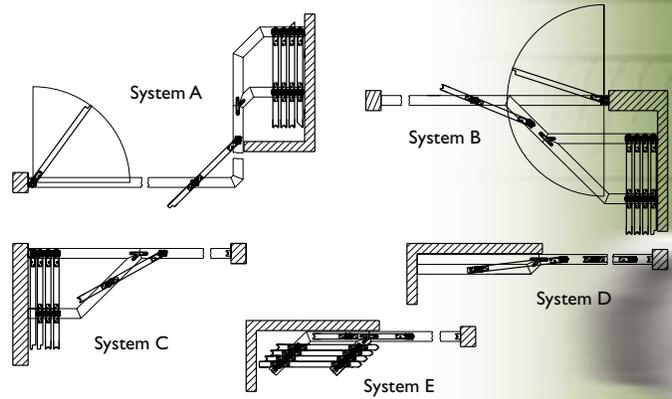
## DOOR TYPES

Heavy commercial wood and aluminum doors.

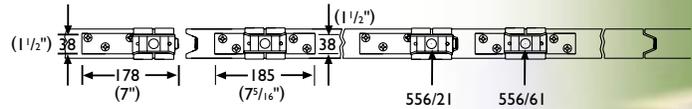
## TECHNICAL INFORMATION

<b>Track:</b>		550A (extruded aluminum)
<b>Intersects:</b>	135° right-hand 135° left-hand	45R/550 45L/550
<b>Elbows:</b>	135° swept elbow 90° swept elbow	550A135 550ASWEPT
<b>Brackets:</b>	Face fix Soffit fix	1A/550 3S/550
<b>Hangers:</b>	Angle plate fixing Concealed fixing	556/21 556/61
<b>Pivots:</b>	Pivot set	21/550P
<b>Accessories:</b>	Track stop Flush pull Flush bolts Narrow flush bolt and keep	HH3/301 400 333/454 F3715 and F3734

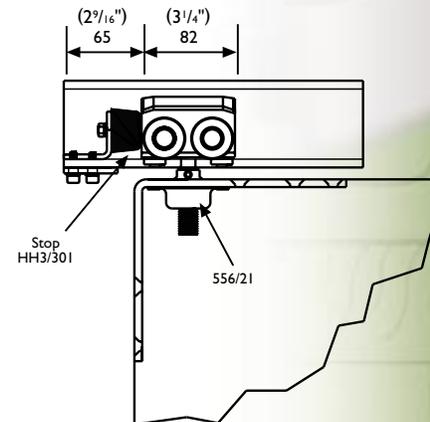
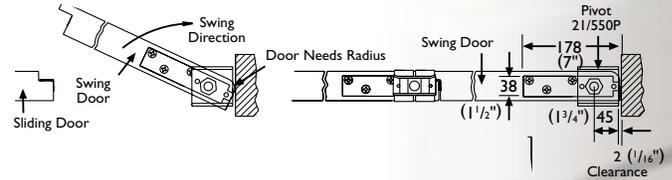
## 135° Configurations



## Door Rebates



## Example Rebated Doors





## CAPACITY

<b>Max. door weight:</b>	1100 lbs. (500kg) (2 hangers per leaf) 550 lbs. (250kg) (1 hanger per leaf)
<b>Max. door height:</b>	9'2"-3/8" (2800mm-10mm) tempered glass 13'1"-1/2" (4000mm-12mm) tempered glass
<b>Max. door width:</b>	4'3"-3/8" (1300mm-10mm) tempered glass 4'3"-1/2" (1300mm-12mm) tempered glass
<b>Door thickness:</b>	3/8" (10mm) or 1/2" (12 mm) - tempered glass
<b>Max. swing door width:</b>	4' (1200mm)



## APPLICATIONS

Multidirectional Flexirol is ideally suited to hotels, conference centers, shop-fronts, showrooms, any site that requires high performance and the flexibility of 135° movement.

## DOOR TYPES

Tempered glass panels of 3/8" (10mm) or 1/2" (12mm) thickness. Use of laminated glass panels is also possible.

**Note:** When using glass clamps in combination with protective coatings for glass surfaces such as Clear Shield, ensure that the glass surface to be clamped is not treated with the Clear Shield coating.

## TECHNICAL INFORMATION

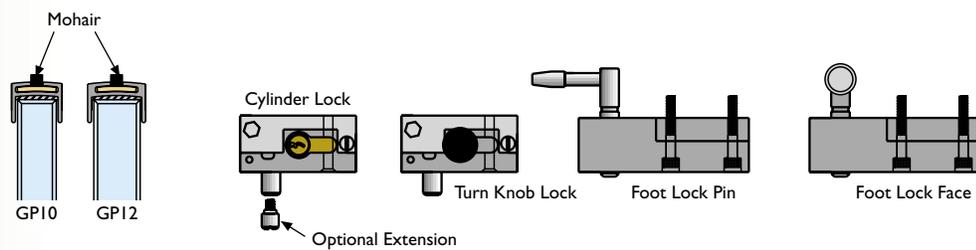
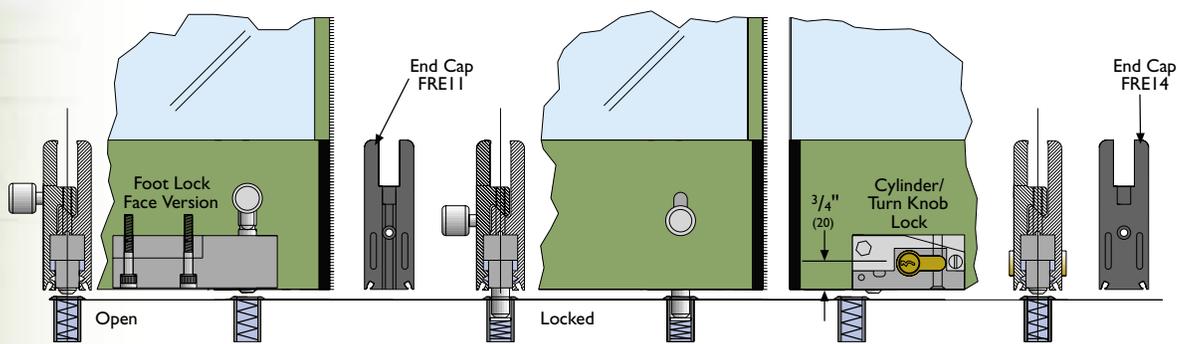
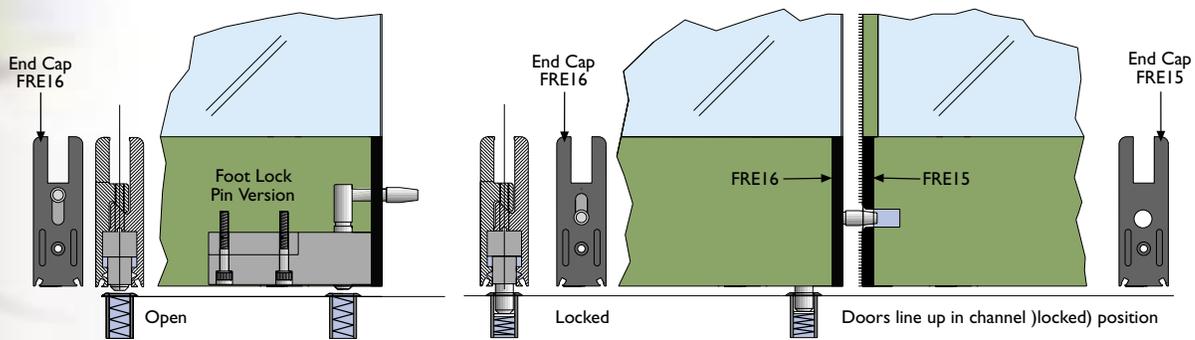
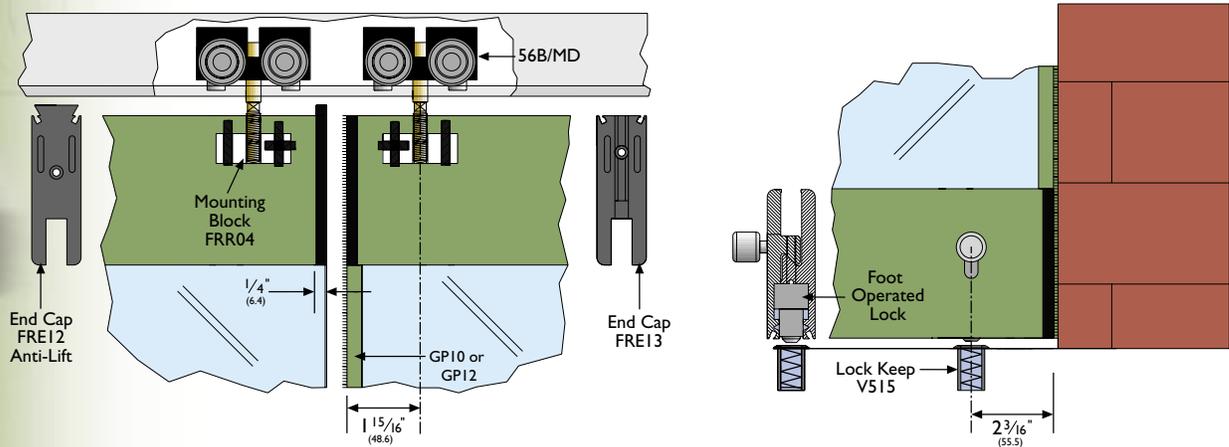
<b>Track:</b>		550A (extruded aluminum)
<b>Brackets:</b>	Face fix	1A/550
	Soffit fix	3S/550
<b>Glass Profiles:</b>	Top/bottom glass profile	FRP02
<b>Pivots:</b>	Glass pivot set	21/550GP
<b>Accessories:</b>	Track stop	HH3/301



## GLASS WEIGHT

3/8" glass	5.05 lbs./sq. ft.
1/2" glass	6.4 lbs./sq. ft.





# HENDERSON

DISTRIBUTED IN NORTH AMERICA BY PEMKO



## INDUSTRIAL & STAINLESS STEEL TRACK AND HARDWARE



# 290-307

## FOR STRAIGHT SLIDING WOOD DOORS

### APPLICATIONS

- ◆ The hardware is suitable for industrial and commercial applications, with single or double lines of track, in situations where the structure will support the weight of the door. Where this support is insufficient, "Sherwood" bottom roller hardware should be specified.
- ◆ Openings may be covered by any number of doors sliding to one or both sides as required. (See plan details).
- ◆ On large doors where individual access is required, a wicket door may be incorporated in one of the sliding units.
- ◆ Where doors are fitted externally, an overhang is recommended.



### For straight sliding wood doors, the following are included:

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Guides
- ◆ Full range of

Five track sizes are available to suit doors of different weights up to 4400 lbs.



Accessories

**For best operation the door width should not exceed 3/4 of the door height. Wood doors for industrial applications should be framed, ledged and braced.**

**For commercial applications wood doors may be of flush construction, or fully glazed for show-rooms.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION

- Track:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** Cast aluminum alloy or pressed steel.  
Suitable brackets available for single, double and triple run applications. Track ends closed by end-clips or closed brackets.
- Hangers:** Fitted with maintenance-free precision needle bearings, sealed for life. Adjustable in height.  
Steel parts rustproofed by electrozinc plating or painted.
- Guides:** Choice of bottom guide arrangements available.  
For heavier doors, always fit guide channel 97 and guides 102 1/2 or 105.
- Door Stops & Accessories:** In painted or galvanized steel.



Bracket IA

Hanger 53

Track 290-307

Flush Pull 414

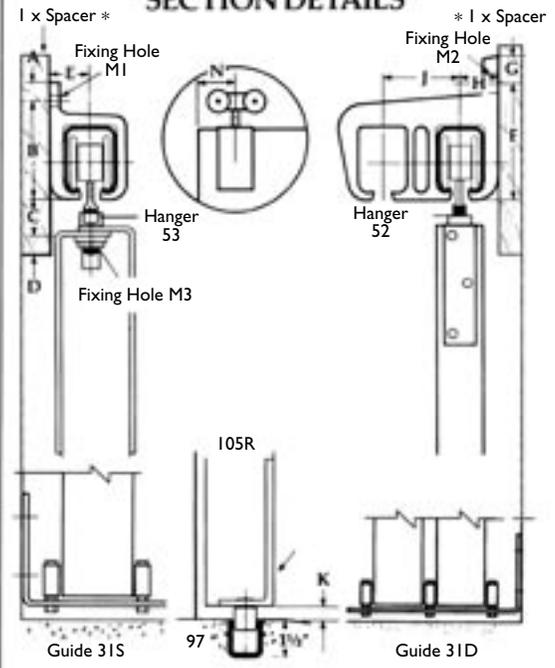
Guide 31S

All Dimensions in Feet and Inches

Track	280	290	301/ 301H	305	307
A	3/4	1/2	3/4	1	1
B	19/16	15/8	313/16	5 1/2	6 1/8
C	3/4	1	2	2	2 5/8
D	1/2	1/2	1	1	1 1/2
E	5/8	1 1/16	1 3/8	1 1/2	1 3/4
F		3 5/32	4 3/8	6 1/8	7 9/16
G		3/4	1 5/16	1 1/2	1
H		1 1/16	1 1/2	1 7/8	1 3/4
J		2 1/8	3 1/8	3 5/8	3 5/8
K	3/8	3/8	3/8	1/2	1/2
M1	8G	5/16	1/2	5/8	5/8
M2		1/2	5/8	3/4	3/4
M3		7/16	3/4	3/4	1
N	1 1/2	2	3	3 1/2	4 1/2

\*When using 280 or 290 track with doors 1-3/8" and thicker for a sidewall condition, a spacer must be used behind the bracket.

### SECTION DETAILS



Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

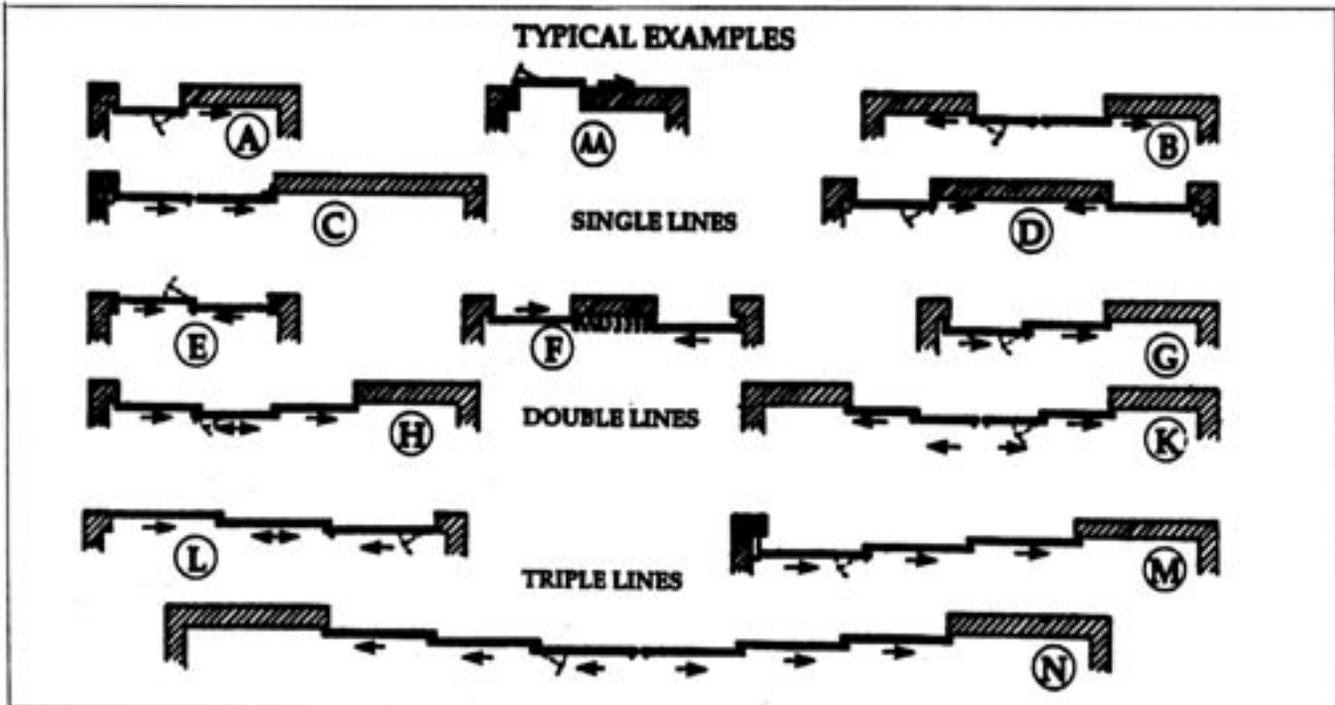
## STRAIGHT SLIDING TRACK

JOB NAME \_\_\_\_\_

QUOTE

ORDER   
P.O.# \_\_\_\_\_

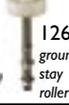
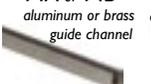
1.	Type of Track Required or Proposed: <input type="checkbox"/> Top Hung <input type="checkbox"/> Bottom Roller
2.	Position of Door: <input type="checkbox"/> Exterior (exposed) <input type="checkbox"/> Interior (inside building)
3.	Width of Opening:
4.	Height of Opening:
5.	Proposed Number of Doors:
6.	Door Thickness (1-3/8" min. - 2-1/4" max.): _____ Other: _____
7.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Leadlined <input type="checkbox"/> Glazed <input type="checkbox"/> Metal Frame <input type="checkbox"/> Hollowcore <i>if metal frame or leadlined, give details under question 16</i>
8.	Door Weight:
9.	Do Doors Slide within Opening (as in plan "E" or "L")? <i>if NO, go to question 11</i> <i>if YES, go to question 13</i>
10.	When Looking at the Door from the Inside of the Building, do Doors Slide: <input type="checkbox"/> Both Ways <input type="checkbox"/> Left Only <input type="checkbox"/> Right Only
11.	Do the Doors Slide: <input type="checkbox"/> Inside the Building (as in plan "A") <input type="checkbox"/> Outside the Building (as in plan "AA")
12.	How Many Lines of Track? <input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three
13.	Bracket Mounting: <input type="checkbox"/> Sidewall <input type="checkbox"/> Overhead
14.	Depth of Header: _____ Width of Header: _____
15.	Door Construction (metal doors): <input type="checkbox"/> Angle Frame <input type="checkbox"/> Box Frame (depth of section 0-6") <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special Frame / Leadlined
16.	Type of Floor: <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> No Floor (elevated opening) <input type="checkbox"/> Wood <input type="checkbox"/> Tile
17.	Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): <input type="checkbox"/> Nylon <input type="checkbox"/> Steel
18.	Security: <input type="checkbox"/> Lock <input type="checkbox"/> Bolt <input type="checkbox"/> Unsecured <i>Will lock bolt be seen from the same side of door as doors hung - YES or NO</i>
19.	Number of Identical Openings:



Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# 290-307

## HARDWARE KIT FOR STRAIGHT

Max. Door Height	up to 10 ft.	up to 12 ft.
Max. Door Weight	up to 300-400 lbs.*	up to 600-800 lbs.*
Door Thickness	1 1/2"	1 3/4-2 1/4"
KIT NUMBER	290	301
<b>Track</b>	 290	 301
<b>Brackets</b> (one bracket for every three feet of track)  Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301) 	<p>1A/290 sidewall-use for limited installation space </p> <p>3A/290 overhead-use for limited installation space </p> <p>5/290 sidewall dual track </p> <p>4A/290 overhead-use for ample installation space </p> <p>4R/290S overhead-suspended </p> <p>9A/290 sidewall-use for ample installation space </p>	<p>1A/301 sidewall-use for limited installation space </p> <p>3A/301 overhead-use for limited installation space </p> <p>5/301 sidewall double track </p> <p>4A/301 overhead-use for ample installation space </p> <p>4R/301S overhead-suspended </p> <p>9A/301 sidewall-use for ample installation space </p>
<b>Hangers</b> (two per door)	<p>52K/N 300 lb. door door top/edge mount </p> <p>57K/N 300 lb. door door top mount </p> <p>53K/N 300 lb. door* door top mount w/door face flanges </p> <p>53K/S200 400 lb. door* door top mount w/door face flanges </p>	<p>52A/S 600 lb. door door top/edge mount </p> <p>53A/S 600 lb. door* door top mount w/door face flanges </p> <p>57A/S 600 lb. door* door top mount </p> <p>52A/N 800 lb. door w/door face flanges door top/edge mount </p> <p>53A/N 800 lb. door* door top mount w/door face flanges </p> <p>57A/N 800 lb. door* door top mount </p>
<b>Stops</b> (two per door)	<p>109 double fastener single wall or ground stop </p> <p>HH3/290 track mounted double fastener stop </p>	<p>HH3/301 track mounted double fastener stop </p> <p>107 single wall stop-double rubber buffers </p>
<b>Guides</b> (three per door)	<p>31S single wall mounted stay roller </p> <p>106R under guide roller </p> <p>126HD/A heavy duty ground stay roller </p> <p>126 ground stay roller </p> <p>105 roller guide </p>	<p>31S single wall mounted stay roller </p> <p>31D double wall mounted stay roller </p>
<b>Guide Channel</b>	<p>94A or 94B aluminum or brass guide channel </p> <p>89 steel guide channel </p> <p>97 steel guide channel </p>	<p>97 steel guide channel </p>
<b>Flush Pulls</b>	<p>414 flush pull </p>	<p>414 flush pull </p>
<b>Bow Handles</b>	<p>463 bow handle - 6 1/4" </p>	<p>863 bow handle - 5 1/4"  463 bow handle - 6 1/4" </p>

# SLIDING WOOD DOORS (complete, ready to install)

	up to 14 ft.	up to 16 ft.	up to 20 ft.
	up to 1000 lbs.	up to 1500 lbs.	up to 4400 lbs.
	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> -2 <sup>3</sup> / <sub>4</sub> "
	301H	305	307
			
	<p>1A/301 sidewall-use for limited installation space</p> <p>3A/301 overhead-use for limited installation space</p> <p>5/301 sidewall double track</p> <p>4A/301 overhead-use for ample installation space</p> <p>4R/301S overhead-suspended</p> <p>9A/301 sidewall-use for ample installation space</p>	<p>1A/305 sidewall-use for limited installation space</p> <p>3A/305 overhead-use for limited installation space</p> <p>5/305 sidewall double track</p> <p>4A/305 overhead-use for ample installation space</p> <p>4R/305S overhead-suspended</p>	<p>1/307/S sidewall-use for limited installation space</p> <p>3/307/S overhead-use for limited installation space</p> <p>5/307/S sidewall double track</p> <p>4/307/S overhead-use for ample installation space</p> <p>4R/307/S overhead-suspended</p>
	<p>52A/N 1000 lb. door door top/edge mount</p> <p>53A/N 1000 lb. door door top mount w/door face flanges</p> <p>57A/N 1000 lb. door door top mount</p>	<p>52C/S 1500 lb. door door top/edge mount</p> <p>53C/S 1500 lb. door door top mount w/door face flanges</p> <p>57C/S 1500 lb. door door top mount</p>	<p>53FJ/S 4400 lb. door door top mount w/door face flanges</p>
	<p>HH3/301 track mounted double fastener stop</p> <p>107 single wall stop-double rubber buffers</p>	<p>107 single wall stop-double rubber buffers</p>	<p><b>not required</b></p>
	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>
	<p>97 steel guide channel</p>	<p>97 steel guide channel</p> <p>89 steel guide channel</p>	<p>97 steel guide channel</p> <p>89 steel guide channel</p>
	<p>414 flush pull</p>	<p>414 flush pull</p>	<p>413 flush pull</p>
	<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	<p>464 bow handle - 10<sup>1</sup>/<sub>4</sub>"</p>

# 290-307

## FOR STRAIGHT SLIDING METAL DOORS

**For straight sliding metal doors, the following are included:**

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Guides
- ◆ Full range of accessories

Five track sizes are available to suit doors of different weights up to 4400 lbs.



**For best operation the door width should not exceed 3/4 of the door height. Door construction is normally framed and braced using steel angle section then clad with steel sheet or other suitable material. When steel box section is used, specify hangers with extended strap bolts and elongated guides. If aluminum framed doors are to be used, type of hanger required will depend on door section.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

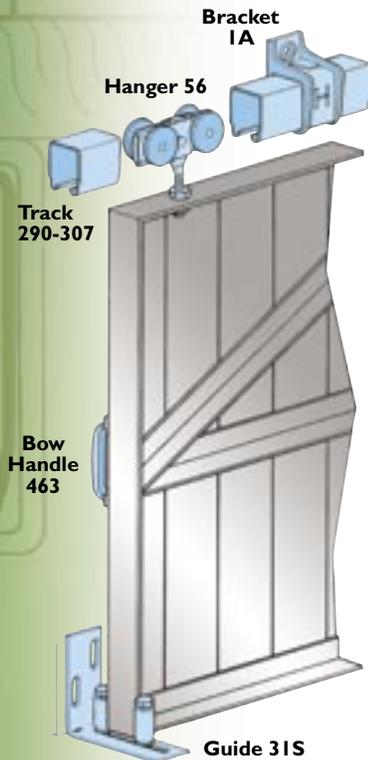
### APPLICATIONS

- ◆ The hardware is suitable for industrial and commercial applications, with single or double lines of track, in situations where the structure will support the weight of the door. Where this support is insufficient, "Sherwood" bottom roller hardware should be specified.
- ◆ Openings may be covered by any number of doors sliding to one or both sides as required. (See plan details).
- ◆ On large doors where individual access is required, a wicket door may be incorporated in one of the sliding units.
- ◆ Where doors are fitted externally, an overhang is recommended.



### COMPOSITION

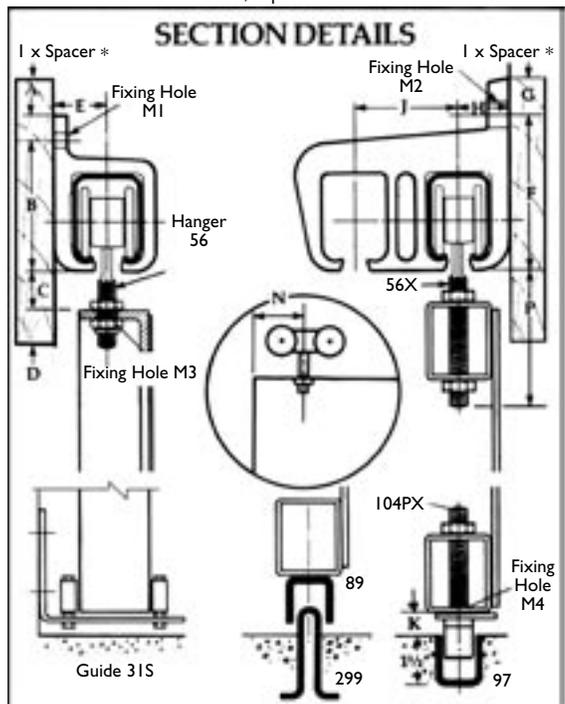
- Track:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** Cast aluminum alloy or pressed steel. Suitable brackets available for single, double and triple run applications. Track ends closed by end-clips or closed brackets.
- Hangers:** Fitted with maintenance-free precision needle bearings, sealed for life. Adjustable in height.
- Guides:** Steel parts rustproofed by electrozinc plating or painted. Choice of bottom guide arrangements available. For heavier doors, always fit guide channel 97 and guides 104P or 104PX.
- Door Stops & Accessories:** In painted or galvanized steel.



All Dimensions in Feet and Inches

Track	280	290	301/301H	305	307
A	1/4	1/2	3/4	1	1
B	19/16	15/8	313/16	5 1/2	6 1/8
C	3/4	1	2	2	2 5/8
D	1/2	1/2	1	1	1 1/2
E	5/8	1 1/16	1 3/8	1 1/2	1 3/4
F		35/32	4 3/8	6 1/8	7 9/16
G		3/4	1 5/16	1 1/2	1
H		1 1/16	1 1/2	1 7/8	1 3/4
J		2 1/8	3 1/8	3 5/8	3 5/8
K	3/8	3/8	3/8	1/2	1/2
M1	8G	5/16	1/2	5/8	5/8
M2		1/2	5/8	3/4	3/4
M3	1/8	7/16	11/16	11/16	1/8
M4	11/16	11/16	11/16	13/16	13/16
N	1 1/2	2	3	3 1/2	4 1/2
P		4 3/8	5 1/2	5 1/2	5 1/2

\*When using 280 or 290 track with doors 1-3/8" and thicker for a sidewall condition, a spacer must be used behind the bracket.



Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

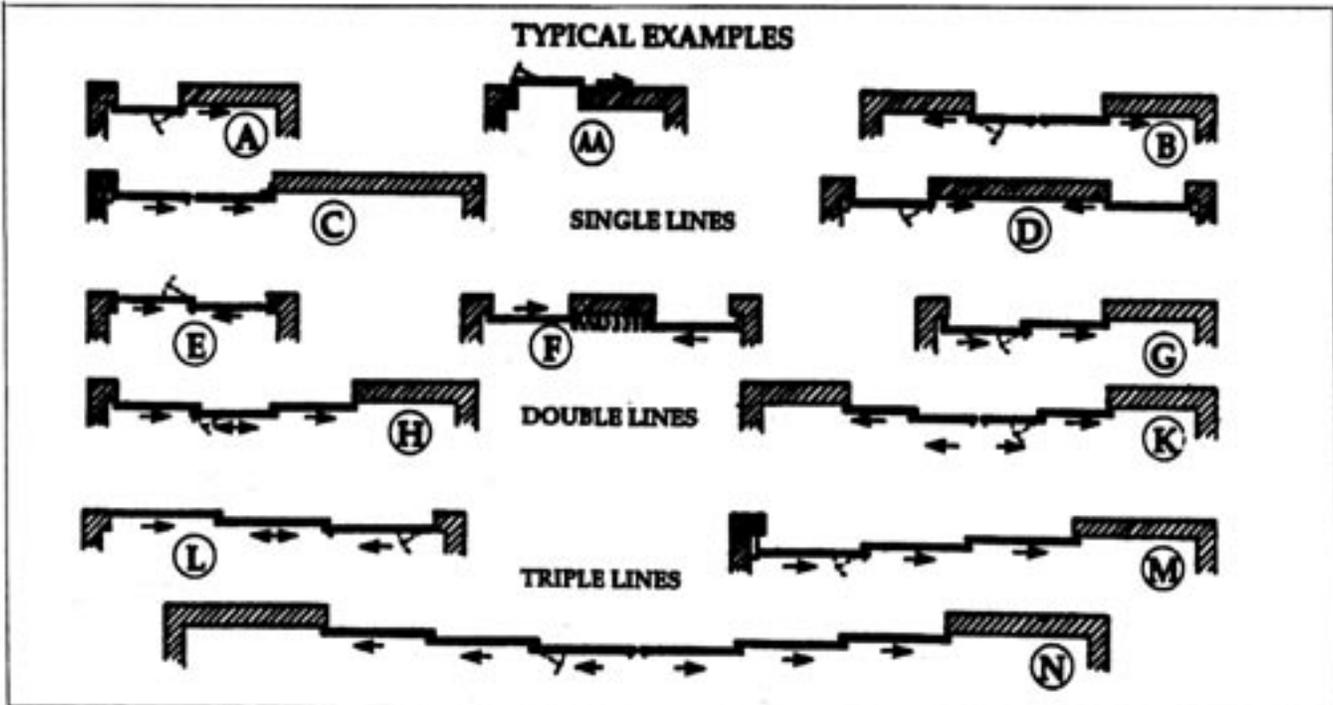
## STRAIGHT SLIDING TRACK

JOB NAME \_\_\_\_\_

QUOTE

ORDER   
P.O.# \_\_\_\_\_

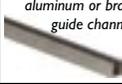
1.	Type of Track Required or Proposed: <input type="checkbox"/> Top Hung <input type="checkbox"/> Bottom Roller
2.	Position of Door: <input type="checkbox"/> Exterior (exposed) <input type="checkbox"/> Interior (inside building)
3.	Width of Opening:
4.	Height of Opening:
5.	Proposed Number of Doors:
6.	Door Thickness (1-3/8" min. - 2-1/4" max.):      Other:
7.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Leadlined <input type="checkbox"/> Glazed <input type="checkbox"/> Metal Frame <input type="checkbox"/> Hollowcore <i>if metal frame or leadlined, give details under question 16</i>
8.	Door Weight:
9.	Do Doors Slide within Opening (as in plan "E" or "L")? <i>if NO, go to question 11</i> <i>if YES, go to question 13</i>
10.	When Looking at the Door from the Inside of the Building, do Doors Slide: <input type="checkbox"/> Both Ways <input type="checkbox"/> Left Only <input type="checkbox"/> Right Only
11.	Do the Doors Slide: <input type="checkbox"/> Inside the Building (as in plan "A") <input type="checkbox"/> Outside the Building (as in plan "AA")
12.	How Many Lines of Track? <input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three
13.	Bracket Mounting: <input type="checkbox"/> Sidewall <input type="checkbox"/> Overhead
14.	Depth of Header:      Width of Header:
15.	Door Construction (metal doors): <input type="checkbox"/> Angle Frame <input type="checkbox"/> Box Frame (depth of section 0-6") <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special Frame/Leadlined
16.	Type of Floor: <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> No Floor (elevated opening) <input type="checkbox"/> Wood <input type="checkbox"/> Tile
17.	Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): <input type="checkbox"/> Nylon <input type="checkbox"/> Steel
18.	Security: <input type="checkbox"/> Lock <input type="checkbox"/> Bolt <input type="checkbox"/> Unsecured <i>Will lock bolt be seen from the same side of door as doors hung - YES or NO</i>
19.	Number of Identical Openings:



Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# 290-307

## HARDWARE KIT FOR STRAIGHT

Max. Door Height	up to 10 ft.		up to 12 ft.							
Max. Door Weight	up to 300-400 lbs.*		up to 600-800 lbs.*							
Door Thickness	1 1/2"-2"		1 3/4"-2 1/4"							
KIT NUMBER	290		301							
Track	 <p>290</p>		 <p>301</p>							
<b>Brackets</b> (one bracket for every three feet of track)  <b>Joining Brackets</b> available for joining two pieces of track at bracket (i.e. 1AX/301) 	<p>1A/290 sidewall-use for limited installation space</p> 	<p>3A/290 overhead-use for limited installation space</p> 	<p>5/290 sidewall dual track</p> 	<p>1A/301 sidewall-use for limited installation space</p> 	<p>3A/301 overhead-use for limited installation space</p> 	<p>5/301 sidewall double track</p> 				
	<p>4A/290 overhead-use for ample installation space</p> 	<p>4R/290S overhead-suspended</p> 	<p>9A/290 sidewall-use for ample installation space</p> 	<p>4A/301 overhead-use for ample installation space</p> 	<p>4R/301S overhead-suspended</p> 	<p>9A/301 sidewall-use for ample installation space</p> 				
<b>Hangers</b> (two per door)	<p>56K/S 300 lb. door door top/edge mount</p> 	<p>56KX/S 300 lb. door door top/edge mount</p> 	<p>56A/S 600 lb. door door top/edge mount</p> 	<p>56AX/S 600 lb. door* door top mount w/door face flanges</p> 	<p>57A/S 600 lb. door* door top mount</p> 	<p>56K/S 300 lb. door* door top mount w/door face flanges</p> 	<p>57K/N 300 lb. door door top mount</p> 	<p>56A/N 800 lb. door* door top/edge mount</p> 	<p>56AX/N 800 lb. door* door top mount w/door face flanges</p> 	<p>57A/N 800 lb. door* door top mount</p> 
<b>Stops</b> (two per door)	<p>109 double fastener single wall or ground stop</p> 	<p>HH3/290 track mounted double fastener stop</p> 	<p>HH3/301 track mounted double fastener stop</p> 	<p>107 single wall stop-double rubber buffers</p> 						
<b>Guides</b> (three per door)	<p>31S single wall mounted stay roller</p> 	<p>106R under guide roller</p> 	<p>126HD/A heavy duty ground stay roller</p> 	<p>126 ground stay roller</p> 	<p>105 roller guide</p> 	<p>31S single wall mounted stay roller</p> 	<p>31D double wall mounted stay roller</p> 			
<b>Guide Channel</b>	<p>94A or 94B aluminum or brass guide channel</p> 	<p>89 steel guide channel</p> 	<p>97 steel guide channel</p> 	<p>97 steel guide channel</p> 						
<b>Flush Pulls</b>	<p>414 flush pull</p> 	<p>414 flush pull</p> 								
<b>Bow Handles</b>	<p>463 bow handle - 5 1/4"</p> 	<p>463 bow handle - 6 1/4"</p> 	<p>863 bow handle - 5 1/4"</p> 	<p>463 bow handle - 6 1/4"</p> 						

# SLIDING METAL DOORS (complete, ready to install)

	up to 14 ft.	up to 16 ft.	up to 20 ft.
	up to 1000 lbs.	up to 1500 lbs.	up to 4400 lbs.
	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> -2 <sup>3</sup> / <sub>4</sub> "
	<b>301H</b>	<b>305</b>	<b>307</b>
			
	<p>1A/301 sidewall-use for limited installation space</p> <p>3A/301 overhead-use for limited installation space</p> <p>5/301 sidewall double track</p> <p>4A/301 overhead-use for ample installation space</p> <p>4R/301S overhead-suspended</p> <p>9A/301 sidewall-use for ample installation space</p>	<p>1A/305 sidewall-use for limited installation space</p> <p>3A/305 overhead-use for limited installation space</p> <p>5/305 sidewall double track</p> <p>4A/305 overhead-use for ample installation space</p> <p>4R/305S overhead-suspended</p>	<p>1/307/S sidewall-use for limited installation space</p> <p>3A/307 overhead-use for limited installation space</p> <p>5/307/S sidewall double track</p> <p>4A/307 overhead-use for ample installation space</p> <p>4R/307S overhead-suspended</p>
	<p>56A/N 1000 lb. door door top/edge mount</p> <p>56AX/N 1000 lb. door door top mount w/door face flanges</p> <p>57A/N 1000 lb. door door top mount</p>	<p>56C/S 1500 lb. door door top/edge mount</p> <p>56CX/S 1500 lb. door door top mount</p> <p>57C/S 1500 lb. door door top mount</p>	<p>56F/S 4400 lb. door door top mount w/door face flanges - angle frame</p> <p>56FJX/S 4400 lb. door door top mount - box frame</p>
	<p>HH3/301 track mounted double fastener stop</p> <p>107 single wall stop-double rubber buffers</p>	<p>107 single wall stop-double rubber buffers</p>	<b>not required</b>
	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>	<p>31S single wall mounted stay roller</p> <p>31D double wall mounted stay roller</p>
	<p>97 steel guide channel</p>	<p>97 steel guide channel</p> <p>89 steel guide channel</p>	<p>97 steel guide channel</p> <p>89 steel guide channel</p>
	<p>414 flush pull</p>	<p>414 flush pull</p>	<p>413 flush pull</p>
	<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	<p>464 bow handle - 10<sup>1</sup>/<sub>4</sub>"</p>

# MANSION/ MAJESTIC

## FOR STRAIGHT SLIDING WOOD DOORS

### For straight sliding wood doors, the following are included:

- ◆ Top guide brackets and top guide, or top guide only
- ◆ Top guide Rollers
- ◆ Bottom Rollers
- ◆ Bottom Rail
- ◆ Full range of accessories

Two track sizes are available to suit doors of different weights up to 600 lbs.



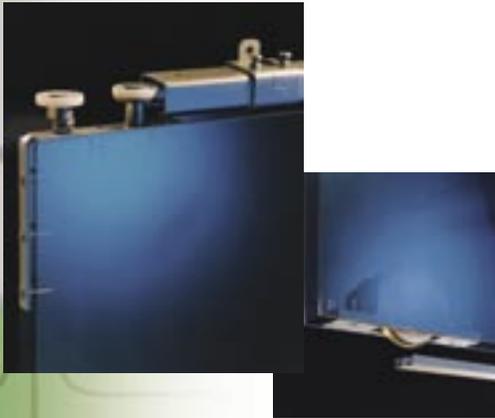
**Three systems are available to suit doors of different weights up to 600 lbs. Doors must be constructed with deep bottom rails to accommodate the concealed and mortised bottom rollers (6" deep for 913XB and 7" deep for 916). Doors may be panelled, flush or glazed.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### APPLICATIONS

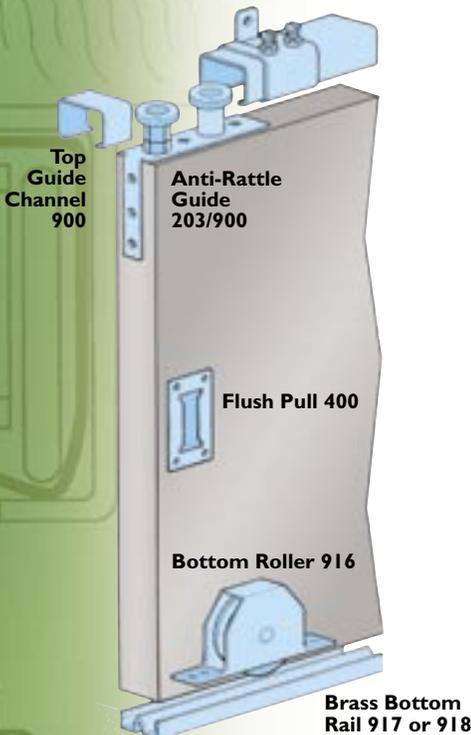
- ◆ Hardware is designed for straight sliding partitions, picture windows, or fully glazed patio or showroom doors where good glass joinery requires the highest quality fittings.



### COMPOSITION

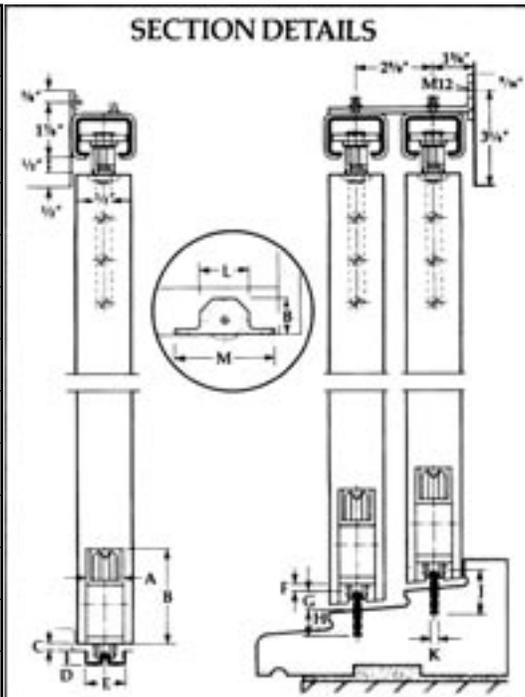
- Track:** Cold-rolled steel section hot-dip galvanized. Aluminum channel section for lighter doors.
- Brackets:** Pressed steel, painted finish. Single and double side wall fixing. Side ear overhead fixing.
- Top Guide Rollers:** Concealed edge fixing with electrozinc plated aprons and double adjustable anti-rattle nylon rollers. Concealed edge fixing with electrozinc plated aprons and brass rollers for light doors.
- Bottom Rollers:** Steel or aluminum body with brass wheel and ball journal bearings. Steel electrozinc plated body with nylon wheel and silver steel axle for light doors.
- Bottom Rail:** Brass drilled and counter-sunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar. Aluminum drilled and counter-sunk for light doors.
- Flush Pull:** In satin anodized aluminum.

Bracket 1/900



All Dimensions in Feet and Inches

Track	Mansion	Majestic
A	7/8	1 1/4
B	1 7/8	3 1/4
C	1/4	1/4
D	3/8	1/2
E	1	1 3/8
F	1/4	1/4
G	5/8	5/8
H	5/8	7/8
J	1 1/4	1 1/2
K	1/4	5/16
L	2 1/4	4 3/8
M	4 5/8	9



Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

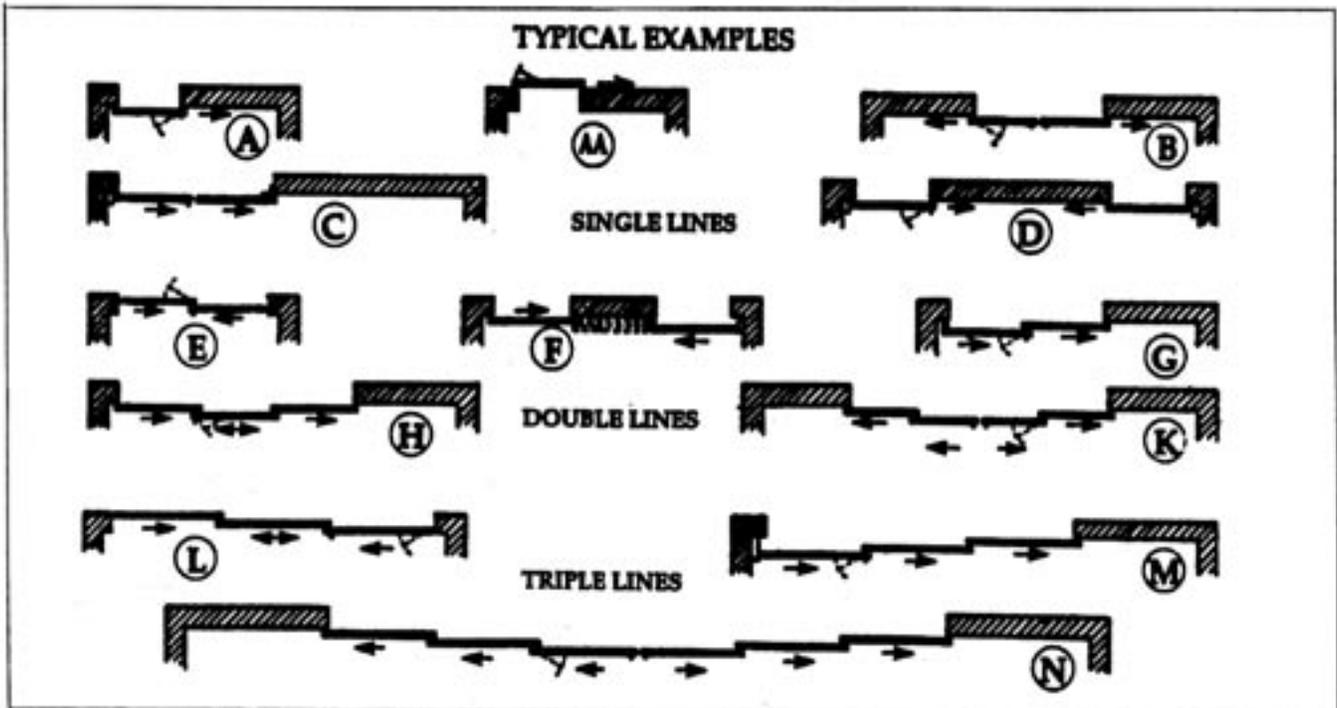
## STRAIGHT SLIDING TRACK

JOB NAME \_\_\_\_\_

QUOTE

ORDER   
P.O.# \_\_\_\_\_

1.	Type of Track Required or Proposed: <input type="checkbox"/> Top Hung <input type="checkbox"/> Bottom Roller
2.	Position of Door: <input type="checkbox"/> Exterior (exposed) <input type="checkbox"/> Interior (inside building)
3.	Width of Opening:
4.	Height of Opening:
5.	Proposed Number of Doors:
6.	Door Thickness (1-3/8" min. - 2-1/4" max.): <span style="float: right;">Other:</span>
7.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Leadlined <input type="checkbox"/> Glazed <input type="checkbox"/> Metal Frame <input type="checkbox"/> Hollowcore <small>if metal frame or leadlined, give details under question 16</small>
8.	Door Weight:
9.	Do Doors Slide within Opening (as in plan "E" or "L")? <small>if NO, go to question 11</small> <span style="float: right;"><small>if YES, go to question 13</small></span>
10.	When Looking at the Door from the Inside of the Building, do Doors Slide: <input type="checkbox"/> Both Ways <input type="checkbox"/> Left Only <input type="checkbox"/> Right Only
11.	Do the Doors Slide: <input type="checkbox"/> Inside the Building (as in plan "A") <input type="checkbox"/> Outside the Building (as in plan "AA")
12.	How Many Lines of Track? <input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three
13.	Bracket Mounting: <input type="checkbox"/> Sidewall <input type="checkbox"/> Overhead
14.	Depth of Header: <span style="float: right;">Width of Header:</span>
15.	Door Construction (metal doors): <input type="checkbox"/> Angle Frame <input type="checkbox"/> Box Frame (depth of section 0-6") <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special Frame/Leadlined
16.	Type of Floor: <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> No Floor (elevated opening) <input type="checkbox"/> Wood <input type="checkbox"/> Tile
17.	Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): <input type="checkbox"/> Nylon <input type="checkbox"/> Steel
18.	Security: <input type="checkbox"/> Lock <input type="checkbox"/> Bolt <input type="checkbox"/> Unsecured <small>Will lock bolt be seen from the same side of door as doors hung - YES or NO</small>
19.	Number of Identical Openings:



Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# MANSION/MAJESTIC HARDWARE KIT FOR

<b>Max. Door Height</b>	<b>up to 8 ft.</b>	
<b>Max. Door Weight</b>	<b>up to 120 lbs.</b>	
<b>Door Thickness</b>	<b>1 1/4-2 1/4"</b>	
<b>Top Guide Channel</b>	 <p>94A</p>	
<b>Brackets</b> (one bracket for every three feet of track)	<b>not required</b>	
<b>Guides</b> (two per door)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>113R/94</b> 120 lb. door Steel plate with brass roller. Not recommended for heavy doors or dirty conditions.</p> </div> <div style="text-align: center;">  <p><b>106R/94</b> 120 lb. door Steel plate with brass roller. Ideal for small, light doors especially internal applications. Not recommended for dirty conditions.</p> </div> </div>	
<b>Bottom Rollers</b> (two per door)	<p><b>913N</b> steel electrozinx plated body with nylon wheel and silver steel axle for light doors</p> 	
<b>Bottom Rail</b>	<p><b>915A</b> aluminum drilled and countersunk for light doors</p> 	
<b>Flush Pull</b>	<p><b>400</b> in satin anodized aluminum</p> 	
<b>Bow Handle</b>	<p><b>863 bow handle - 5 1/4"</b></p> 	
<b>Optional Extras</b>		

# STRAIGHT SLIDING WOOD DOORS (complete, ready to install)

	up to 9 ft.	up to 11 ft.
	up to 380 lbs.	up to 600 lbs.
	1 1/4-2 1/4"	1 1/4-2 1/4"
	 900	 900
	<p>1/900 sidewall-use for limited installation space</p>  <p>5/900 sidewall dual track</p> 	<p>1/900 sidewall-use for limited installation space</p>  <p>5/900 sidewall dual track</p> 
	<p>203/900 Concealed edge fixing with electrozinc plated aprons and double adjustable anti-rattle nylon rollers. Concealed edge fixing with electrozinc plated aprons and brass rollers for light doors.</p> 	<p>203/900 Concealed edge fixing with electrozinc plated aprons and double adjustable anti-rattle nylon rollers. Concealed edge fixing with electrozinc plated aprons and brass rollers for light doors.</p> 
	<p>913XB steel or aluminum body with brass wheel and ball journal bearings</p> 	<p>916 steel or aluminum body with brass wheel and ball journal bearings</p> 
	<p>918 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar</p>  <p>815 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar</p> 	<p>917 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar</p>  <p>817 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar</p> 
	<p>400 in satin anodized aluminum</p> 	<p>400 in satin anodized aluminum</p> 
	<p>863 bow handle - 5 1/4"</p> 	<p>863 bow handle - 5 1/4"</p> 
	<p>917/918 lug use with 917/918 cup for fixing rail to concrete</p>  <p>917/918 cup (coupler) use with 917/918 lug for fixing rail to concrete</p> 	<p>917/918 lug use with 917/918 cup for fixing rail to concrete</p>  <p>917/918 cup (coupler) use with 917/918 lug for fixing rail to concrete</p> 

# Sherwood

## FOR STRAIGHT SLIDING WOOD DOORS

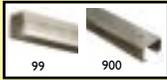
### APPLICATIONS

- ◆ Hardware is suitable for light commercial, showroom, industrial and heavy commercial installations where the overhead structure will not support the weight of doors or where headroom is limited.
- ◆ Any number of doors may be used on single or multiple lines of rail sliding to one or both sides as required.
- ◆ On large doors where individual access is required, a wicket door may be incorporated in one of the sliding units.
- ◆ Where doors are fitted externally, an overhang is recommended.

### For straight sliding wood doors, the following are included:

- ◆ Top guide channel and brackets
- ◆ Top guide Rollers
- ◆ Bottom Rollers
- ◆ Bottom Rail
- ◆ Full range of accessories

Three systems (two track sizes) are available to suit doors of different weights up to 1800 lbs.



**For best operation, door width should not be less than half the door height. Wood doors should be framed, ledged and braced for industrial application or may be partly or fully glazed. The rollers should be positioned in the bottom rail of door clear of the joints with the stiles. 9" deep bottom rails for No. 5 and No. 2 bottom rollers and 12" deep bottom rails for No. 3 bottom rollers are recommended.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

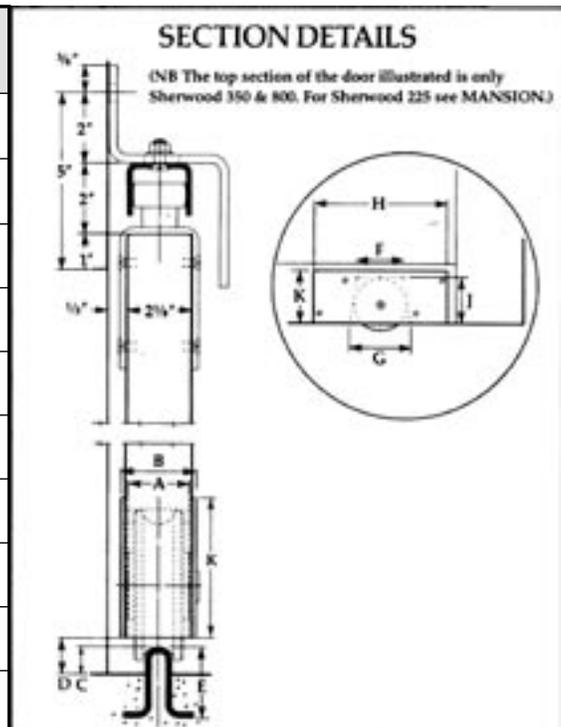
### COMPOSITION

- Top Guide Channel:** Cold-rolled steel section.  
**Brackets:** Pressed steel, painted finish. Single and double side wall fixing.  
**Top Guide Rollers:** Steel electrozinc plated or painted aprons with nylon or brass rollers.  
**Bottom Rollers:** Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.  
**Bottom Rail:** Cold-rolled steel section complete with couplers.  
**Door Stops & Accessories:** In painted or galvanized steel.



All Dimensions in Feet and Inches

System	225	350	800
A	1 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	2
B	2	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>
C	5/8	3/4	3/4
D	1	1	1 <sup>3</sup> / <sub>16</sub>
E	1	1	1
F	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>
G	4	5 <sup>3</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>
H	6 <sup>1</sup> / <sub>4</sub>	12	15
J	2 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>8</sub>
K	3	4	6



Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

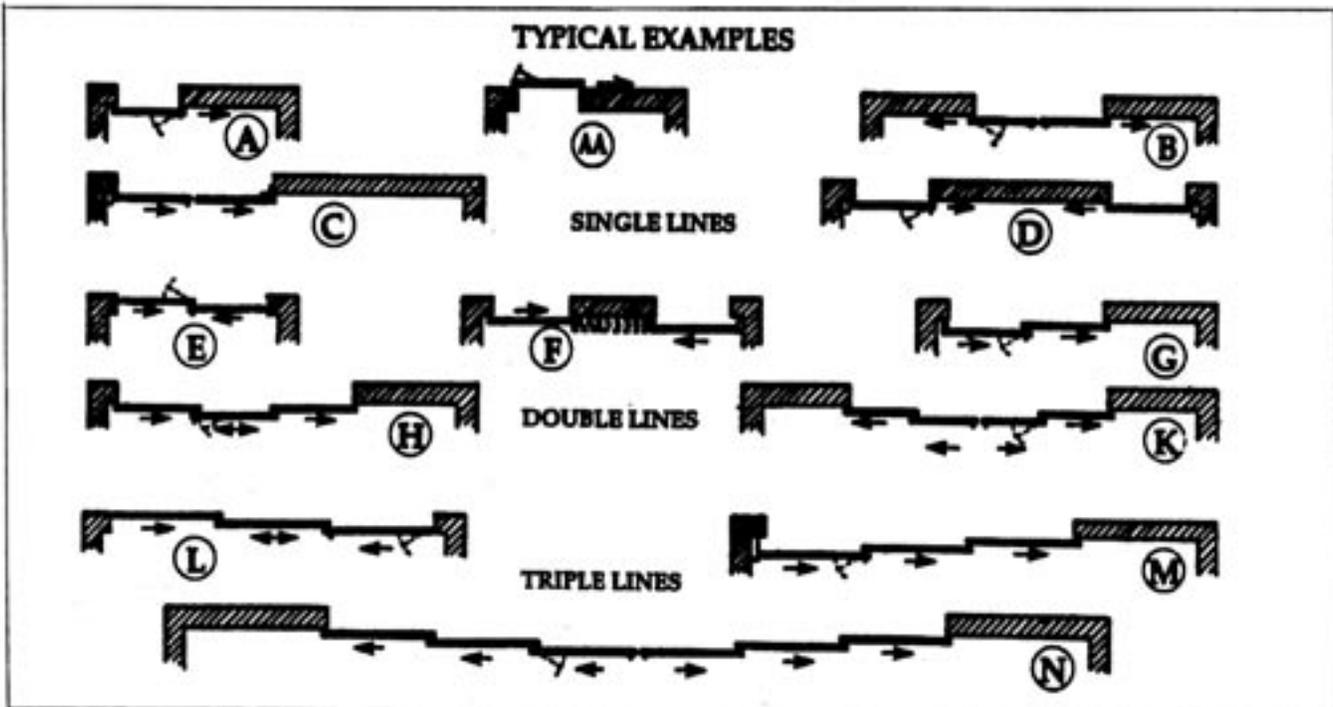
## STRAIGHT SLIDING TRACK

JOB NAME \_\_\_\_\_

QUOTE

ORDER   
P.O.# \_\_\_\_\_

1.	Type of Track Required or Proposed: <input type="checkbox"/> Top Hung <input type="checkbox"/> Bottom Roller
2.	Position of Door: <input type="checkbox"/> Exterior (exposed) <input type="checkbox"/> Interior (inside building)
3.	Width of Opening:
4.	Height of Opening:
5.	Proposed Number of Doors:
6.	Door Thickness (1-3/8" min. - 2-1/4" max.): <span style="float: right;">Other:</span>
7.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Leadlined <input type="checkbox"/> Glazed <input type="checkbox"/> Metal Frame <input type="checkbox"/> Hollowcore <small><i>if metal frame or leadlined, give details under question 16</i></small>
8.	Door Weight:
9.	Do Doors Slide within Opening (as in plan "E" or "L")? <small><i>if NO, go to question 11</i></small> <small><i>if YES, go to question 13</i></small>
10.	When Looking at the Door from the Inside of the Building, do Doors Slide: <input type="checkbox"/> Both Ways <input type="checkbox"/> Left Only <input type="checkbox"/> Right Only
11.	Do the Doors Slide: <input type="checkbox"/> Inside the Building (as in plan "A") <input type="checkbox"/> Outside the Building (as in plan "AA")
12.	How Many Lines of Track? <input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three
13.	Bracket Mounting: <input type="checkbox"/> Sidewall <input type="checkbox"/> Overhead
14.	Depth of Header: <span style="float: right;">Width of Header:</span>
15.	Door Construction (metal doors): <input type="checkbox"/> Angle Frame <input type="checkbox"/> Box Frame (depth of section 0-6") <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special Frame / Leadlined
16.	Type of Floor: <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> No Floor (elevated opening) <input type="checkbox"/> Wood <input type="checkbox"/> Tile
17.	Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): <input type="checkbox"/> Nylon <input type="checkbox"/> Steel
18.	Security: <input type="checkbox"/> Lock <input type="checkbox"/> Bolt <input type="checkbox"/> Unsecured <small><i>Will lock bolt be seen from the same side of door as doors hung - YES or NO</i></small>
19.	Number of Identical Openings:



Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# Sherwood **HARDWARE FOR STRAIGHT**

**Max. Door Height**

**up to 11 ft. - System 225**

**Max. Door Weight**

**up to 500 lbs.**

**Door Thickness**

**1<sup>3</sup>/<sub>4</sub>"-2"**

**Top Guide Channel**



900

**Brackets**

*(one bracket for every three feet of track)*

1/900  
sidewall-use for limited installation space



3/900  
overhead-use for limited installation space



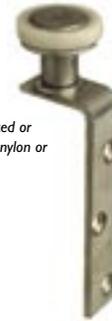
5/900  
sidewall dual track



**Guides**

*(two per door)*

54/900  
Steel electrozinc plated or painted aprons with nylon or brass rollers



**Bottom Rollers**

*(two per door)*

5  
Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.



**Bottom Rail**

299  
Cold-rolled steel section complete with couplers.



**Flush Pull**



414 flush pull



413 flush pull

**Bow Handle**



463 bow handle - 6<sup>1</sup>/<sub>4</sub>"

**Optional Extras**

115  
corner protection plate



994, 994R or 994S  
cane bolt



77J flush bolt



109 or 107  
stops



430 or 431  
locking bar



# SLIDING WOOD DOORS

up to 13 ft. - System 350		up to 17 ft. - System 800	
up to 750 lbs.		up to 1800 lbs.	
1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "		2 <sup>1</sup> / <sub>8</sub> -2 <sup>1</sup> / <sub>2</sub> "	
 <p>99</p>		 <p>99</p>	
<p>31 sidewall-use for limited installation space</p> 		<p>31 sidewall-use for limited installation space</p> 	
<p>53/99 Steel electrozinc plated or painted aprons with nylon or brass rollers</p> 		<p>53/99 Steel electrozinc plated or painted aprons with nylon or brass rollers</p> 	
<p>2 Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.</p> 		<p>3 Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.</p> 	
<p>298 Cold-rolled steel section complete with couplers.</p> 		<p>298 Cold-rolled steel section complete with couplers.</p> 	
<p>414 flush pull</p> 		<p>414 flush pull</p> 	
<p>413 flush pull</p> 		<p>413 flush pull</p> 	
<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p> 		<p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p> 	
<p>115 corner protection plate</p> 		<p>115 corner protection plate</p> 	
<p>994, 994R or 994S cane bolt</p> 		<p>994, 994R or 994S cane bolt</p> 	
<p>77J flush bolt</p> 		<p>77J flush bolt</p> 	
<p>109 or 107 stops</p> 		<p>109 or 107 stops</p> 	
<p>430 or 431 locking bar</p> 		<p>430 or 431 locking bar</p> 	

# Sherwood

## FOR STRAIGHT SLIDING METAL DOORS

### APPLICATIONS

- ◆ The hardware is suitable for internal and external use in commercial and industrial buildings where the overhead structure will not support the weight of doors or where headroom is limited.
- ◆ Any number of doors may be used on single or multiple lines of rail sliding to one or both sides as required.
- ◆ Where doors are fitted externally, an overhang is recommended.



### For straight sliding metal doors, the following are included:

- ◆ Top guide channel and brackets
- ◆ Top guide Rollers
- ◆ Bottom Rail
- ◆ Full range of accessories

Six systems (three track sizes) are available to suit doors of different weights up to 17,500 lbs.



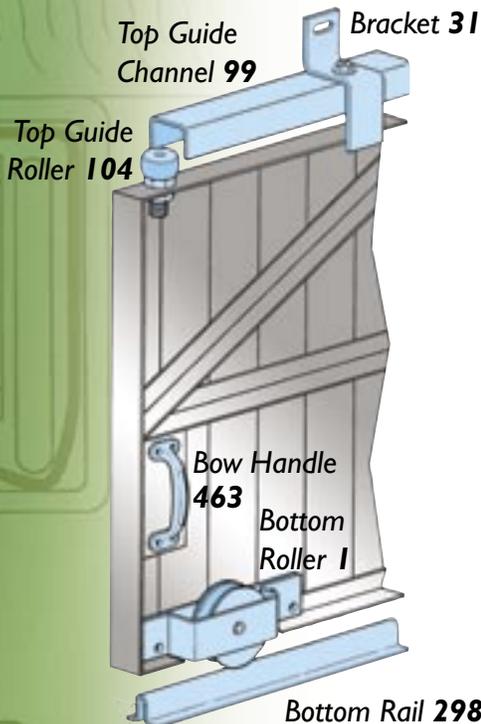
For best operation, door width shall be the door height. The door is not to be constructed using steel angle section and then clad with steel sheet or other suitable material except for Sherwood 3600 and 8000 hardware where the door would be constructed from steel channel section. Sherwood 3600 and 8000 hardware comprises standard and purpose made components as required. Bottom rollers can be supplied for mechanical operation by geared chain wheel and winding handle.

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION (Except 3600 and 8000 hardware)

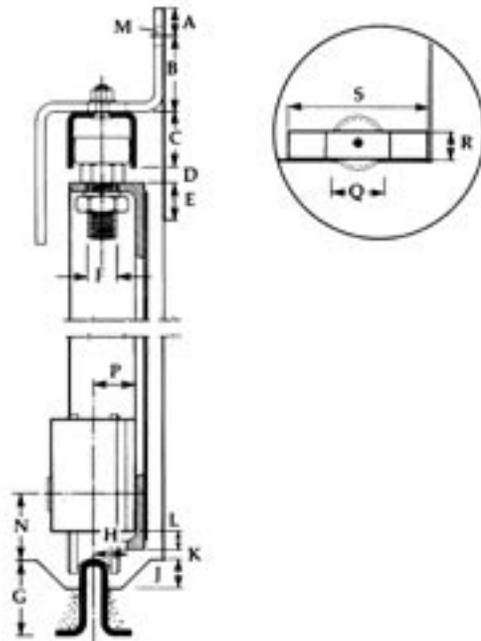
- Top Guide Channel:** Channel cold-rolled steel section.
- Brackets:** Pressed steel, painted finish. Single and double side wall fixing.
- Top Guide Rollers:** Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.
- Bottom Rollers:** Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.
- Bottom Rail:** Cold-rolled steel section complete with couplers. 3600 and 8000 hardware is manufactured to custom requirements. Composition is available on request.
- Door Stops & Accessories:** In painted or galvanized steel.



All Dimensions in Feet and Inches

System	225	350	800	2000	3600	8000
A	3/8	3/4	3/4	1 1/4		
B	3/8	2	2	1 3/8		
C	1 1/2	1 1/2	1 1/2	3 3/8		
D	3/4	3/8	3/8	1		
E	1	1	1	1 3/16		
F	1 1/16	7/8	7/8	1	1 1/4	1 1/4
G	2	2	2	2	2 1/2	2 1/2
H	9/16	7/8	7/8	1		
J	5/8	3/4	3/4	3/4	1	1
K	1/8	1/4	1/4	3/8	3/4	3/4
L	7/16	1/2	1/2	1/2		
M	1/2	1/2	1/2	5/8		
N	1 3/16	1 3/4	2 7/16	3 3/8	5	8
P	3/4	1 1/8	1 1/4	1 1/4	3	3
Q	3	3 3/4	5	7 7/8		
R	2	3	3	4		
S	9	12	15	18		

### SECTION DETAILS



Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

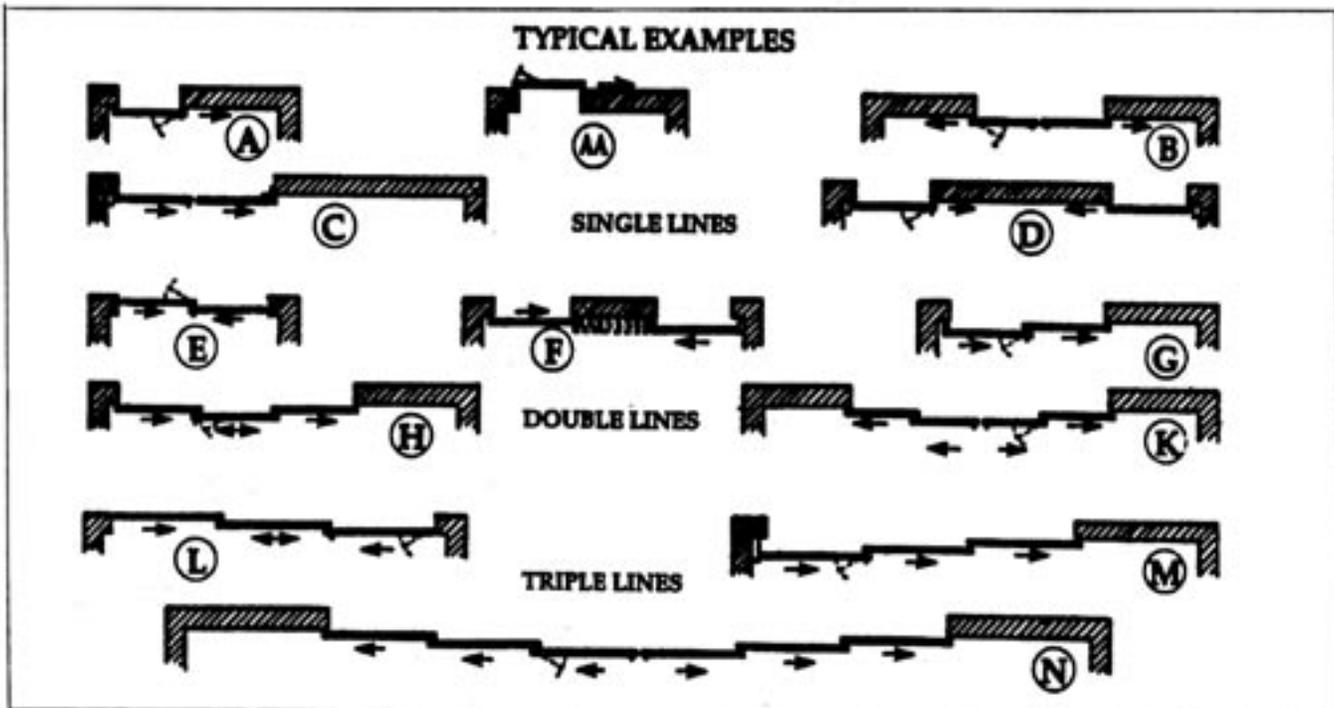
## STRAIGHT SLIDING TRACK

JOB NAME \_\_\_\_\_

QUOTE

ORDER   
P.O.# \_\_\_\_\_

1.	Type of Track Required or Proposed: <input type="checkbox"/> Top Hung <input type="checkbox"/> Bottom Roller
2.	Position of Door: <input type="checkbox"/> Exterior (exposed) <input type="checkbox"/> Interior (inside building)
3.	Width of Opening:
4.	Height of Opening:
5.	Proposed Number of Doors:
6.	Door Thickness (1-3/8" min. - 2-1/4" max.): <span style="float: right;">Other:</span>
7.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Leadlined <input type="checkbox"/> Glazed <input type="checkbox"/> Metal Frame <input type="checkbox"/> Hollowcore <small><i>if metal frame or leadlined, give details under question 16</i></small>
8.	Door Weight:
9.	Do Doors Slide within Opening (as in plan "E" or "L")? <small><i>if NO, go to question 11</i></small> <span style="float: right;"><small><i>if YES, go to question 13</i></small></span>
10.	When Looking at the Door from the Inside of the Building, do Doors Slide: <input type="checkbox"/> Both Ways <input type="checkbox"/> Left Only <input type="checkbox"/> Right Only
11.	Do the Doors Slide: <input type="checkbox"/> Inside the Building (as in plan "A") <input type="checkbox"/> Outside the Building (as in plan "AA")
12.	How Many Lines of Track? <input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three
13.	Bracket Mounting: <input type="checkbox"/> Sidewall <input type="checkbox"/> Overhead
14.	Depth of Header: <span style="float: right;">Width of Header:</span>
15.	Door Construction (metal doors): <input type="checkbox"/> Angle Frame <input type="checkbox"/> Box Frame (depth of section 0-6") <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special Frame / Leadlined
16.	Type of Floor: <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> No Floor (elevated opening) <input type="checkbox"/> Wood <input type="checkbox"/> Tile
17.	Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): <input type="checkbox"/> Nylon <input type="checkbox"/> Steel
18.	Security: <input type="checkbox"/> Lock <input type="checkbox"/> Bolt <input type="checkbox"/> Unsecured <small><i>Will lock bolt be seen from the same side of door as doors hung - YES or NO</i></small>
19.	Number of Identical Openings:



Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# Sherwood HARDWARE KIT FOR STRAIGHT

Max. Door Height	up to 11 ft.	up to 13 ft.	
Max. Door Weight	up to 500 lbs.	up to 750 lbs.	
Door Thickness	1 <sup>3</sup> / <sub>4</sub> -2"	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>8</sub> "	
SYSTEM NUMBER	225	350	
<b>Top Guide Channel</b>	 900	 99	
<b>Brackets</b> (one bracket for every three feet of track)	<p>1/900 sidewall-use for limited installation space</p>  <p>3/900 overhead-us for limited installation space</p>  <p>5/900 sidewall dual track</p> 	<p>31 Pressed steel painted finish. Single side wall fixing.</p> 	
<b>Guides</b> (two per door) (four per door on 3600/8000 systems)	 <p>104/900 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.</p>	 <p>104/99 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.</p>	
<b>Bottom Rollers</b> (two per door)	 <p>5S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.</p>	 <p>1S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.</p>	
<b>Bottom Rail</b>	 <p>299 Cold-rolled steel section complete with couplers.</p>	 <p>298 Cold-rolled steel section complete with couplers.</p>	
<b>Bow Handle</b>	 <p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	 <p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	
<b>Optional Extras</b>	<p>994, or 994S cane bolt</p>  <p>414 flush pull</p>  <p>109 or 107 stops</p>  <p>994 994S 109 107</p>	<p>994, or 994S cane bolt</p>  <p>414 flush pull</p>  <p>109 or 107 stops</p>  <p>994 994S 109 107</p>	

# SLIDING METAL DOORS

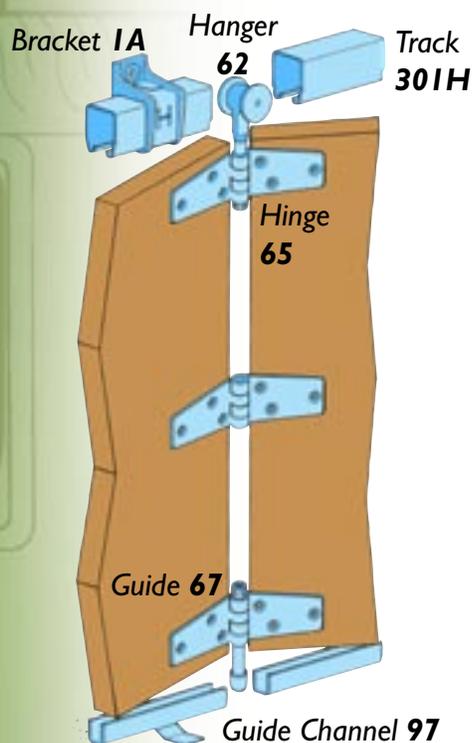
	up to 17 ft.	up to 25 ft.	up to 40 (3600) or 65 (8000) ft.
	up to 1800 lbs.	up to 4400 lbs.	up to 8000 (3600) or 17500 (8000) lbs.
	2 <sup>1</sup> / <sub>8</sub> -2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>4</sub> -2 <sup>3</sup> / <sub>4</sub> "	6" minimum thickness
	<b>800</b>	<b>2000</b>	<b>3600 or 8000</b>
	 99	13 not shown	<b>not required</b>
	 31 Pressed steel painted finish. Single side wall fixing.	 1/13 sidewall single track	<b>not required</b>
	 104/99 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.	 104/13 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.	104S (not shown) Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.
	 3S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.	 4S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.	3600 (not shown) Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting. Made to suit door. Chain driven geared rollers also available.  8000 (not shown) Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting. Made to suit door. Chain driven geared rollers also available.
	 298 Cold-rolled steel section complete with couplers.	 298 Cold-rolled steel section complete with couplers.	297 cold rolled steel section complete with couplers 
	 463 bow handle - 6 <sup>1</sup> / <sub>4</sub> "	 464 bow handle - 10 <sup>1</sup> / <sub>4</sub> "	<b>not required</b>
	994, or 994S cane bolt   414 flush pull  109 or 107 stops  	994, or 994S cane bolt   414 flush pull  109 or 107 stops  	994, or 994S cane bolt   414 flush pull  109 or 107 stops  

# Tangent

## FOR FOLDING METAL OR WOOD DOORS

### APPLICATIONS

- ◆ The hardware is suitable for commercial or industrial folding doors, folding windows and showroom doors.
- ◆ Up to six door panels can be hinged to a jamb fixed within the opening or behind a reveal.
- ◆ Alternatively free-floating units can be parked behind a reveal, units must be made up of four or five units for stability.
- ◆ A swinging pass door (for doors under 10' high) is obtained by using three or five panels hinged to jamb or an independently hung panel (see plan details).
- ◆ For doors over 10' high, a wicket door is recommended.



For folding metal or wood doors, the following are included:

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Hinges
- ◆ Guides
- ◆ Bottom channel
- ◆ Full range of accessories

Four track sizes are available to suit doors of different weights up to 180 lbs.



For smooth operation, no more than six door panels should be hinged together in one unit. Doors may be panelled or flush, glazed if required. Hinges should be fixed to framing and joints of the door. Fittings are available in standard or deluxe finish which is polished or satin anodized aluminum.

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

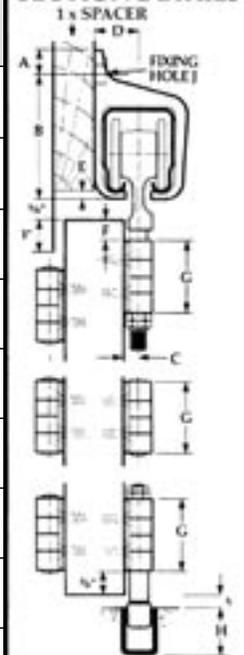
### COMPOSITION

- Track:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** Cast aluminum alloy or pressed steel, suitable for side wall or overhead fixing. Closed brackets or end-clips available for track ends.
- Hangers:** Steel wheels fitted with maintenance free precision needle bearings sealed for life. Adjustable in height. Steel parts are rustproofed by electrozinc plating or painted, and hinge parts are in cast aluminum alloy, or painted cast iron. Deluxe finish hangers have polished aluminum hinge parts.
- Hinges:** In cast aluminum alloy (deluxe = S.A.A.) or painted cast iron.
- Channel and Guides:** Bottom channel steel section in three sizes, lugged for concrete and drilled for drainage. Brass roller guides are mounted on alloy or cast iron hinge parts (deluxe = polished aluminum). Aluminum or brass channel is available for deluxe applications.
- Bolts and Bow Handles:** In painted or galvanized steel.
- Flush Bolts and Pulls:** In satin anodized aluminum.

All Dimensions in Feet and Inches

Track	290	301/301H	305
A	1/2	3/4	1
B	2 5/8	3 13/16	5 1/2
C	7/16	7/16	9/16
D	1 1/16	1 3/8	1 1/2
E	1/4	1/4	3/8
F	3/8	5/8	5/8
G	2 1/4	2 1/4	3 1/4
H	1	1 1/2	1 1/2
J	5/16	1/2	5/8

### SECTION DETAILS



All dimensions in feet and inches.

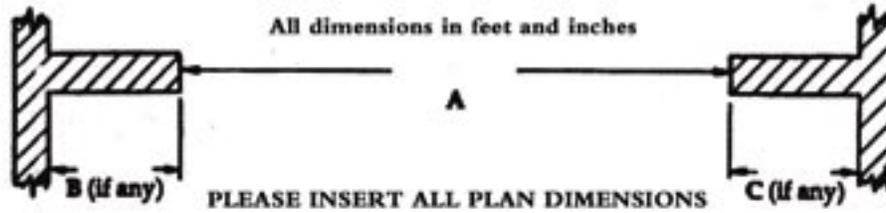
Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

# FOLDING TRACK

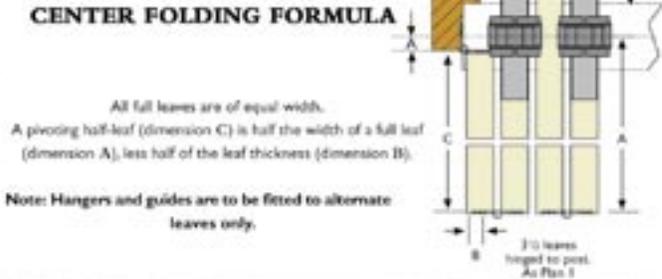
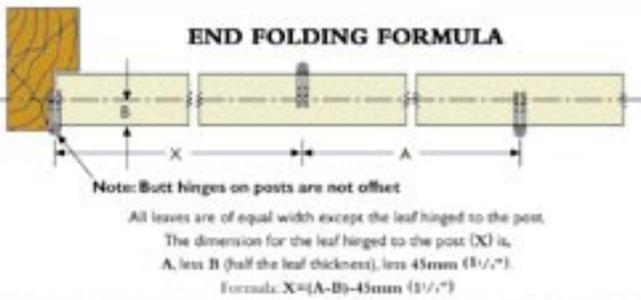
JOB REFERENCE \_\_\_\_\_

INQUIRY

ORDER



1. Is the Installation to be:  Top Hung  or Bottom Rolling.
2. Are Partitions to be:  Center Folding  or End Folding (see diagrams below)
3. Width of Opening: 3'0" min. - 60'0" max.
4. Height of Opening: 3'0" min. - 15'0" max.
5. Are Partitions:  Hinged to the Jamb  Floating  Hinged and Floating  Pivoted (end fold only)
6. Is an Additional Swing Door Required:  Yes  No
7. Leaf Thickness:  Top Hung (1-3/4" min. or 2-1/4" max.)  Bottom Rolling (1-3/4" min. or 2-1/4" max.)
8. Leaf Material:  Solid Core  Leadlined  Glazed
9. Leaf Weight: state actual weight if known
10. Width of Header:
11. Type of Floor:  Concrete  Tile  Wood
12. Bottom Guide Channel Required: applies to top hung track only  Brass  Aluminum
13. Number of Units: see also question 5
14. Number of Leaves per Unit:  Left Hand  Right Hand  Middle Unit
15. No. of Sets Required: one or more identical openings
16. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below)



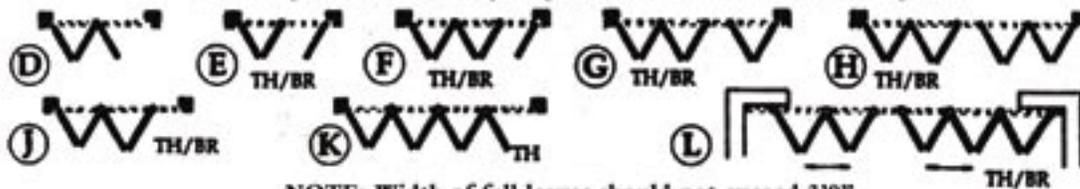
## TYPICAL EXAMPLES OF CENTER FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attached.



## TYPICAL EXAMPLES OF END FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track.

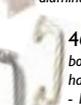


NOTE: Width of full leaves should not exceed 3'0"

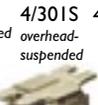
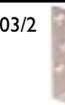
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# Tangent

## HARDWARE FOR FOLDING

Max. Door Size	up to 8 ft./2'8" wide	up to 8 ft./2'8" wide	up to 11 ft./3ft. wide
Max. Door Weight	up to 80 lbs.	up to 80 lbs.	up to 120 lbs.
Door Thickness	1 <sup>3</sup> / <sub>8</sub> -2"	1 <sup>3</sup> / <sub>8</sub> -2"	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "
SYSTEM	Standard 8 ft.	Deluxe 8 ft.	Standard 11 ft.
Track	 290	 290	 301
<b>Brackets</b> <i>(one bracket for every three feet of track)</i>  <b>Joining Brackets</b> available for joining two pieces of track at bracket (i.e. 1AX/301) 	 1A/290 sidewall-use for limited installation space  3A/290 overhead-use for limited installation space  4R/290S overhead-suspended  4A/290 overhead-use for ample installation space	 1A/290 sidewall-use for limited installation space  3A/290 overhead-use for limited installation space  4R/290S overhead-suspended  4A/290 overhead-use for ample installation space	 1A/301 sidewall-use for limited installation space  3A/301 overhead-use for limited installation space  4R/301S overhead-suspended  4/301S overhead-suspended  4A/301 overhead-use for ample installation space
<b>Hangers</b> <i>(one every two doors)</i>	 62K folding pivot hanger  63K pivot hanger	 62A/P folding pivot hanger-polished  63A/P pivot hanger-polished	 62A folding pivot hanger  63A pivot hanger
<b>Hinges</b>	 65 In cast aluminum alloy or painted cast iron.	 403/2  403/3 In cast aluminum alloy (deluxe=S.A.A.) or painted cast iron.	 65 In cast aluminum alloy or painted cast iron.
<b>Guides</b> <i>(one every two doors)</i>	 67/89  68/89 Brass roller guides mounted on alloy or cast iron hinge parts	 67/94P  68/94P Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)	 67/97  68/97 Brass roller guides mounted on alloy or cast iron hinge parts
<b>Guide Channel</b>	 89 steel guide channel	 94A aluminum guide channel	 97 steel guide channel
<b>Optional Extras</b>	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 <sup>1</sup> / <sub>4</sub> "  863 bow handle - 5 <sup>1</sup> / <sub>4</sub> "  771 78 454 333	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 <sup>1</sup> / <sub>4</sub> "  863 bow handle - 5 <sup>1</sup> / <sub>4</sub> "  771 78 454 333	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 <sup>1</sup> / <sub>4</sub> "  863 bow handle - 5 <sup>1</sup> / <sub>4</sub> "  771 78 454 333

# METAL OR WOOD DOORS

up to 11 ft./3ft. wide	up to 12 ft./3ft. wide	up to 12 ft./3ft. wide	up to 15 ft./3ft. wide
up to 120 lbs.	up to 150 lbs.	up to 150 lbs.	up to 180 lbs.
1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> "
Deluxe 11 ft.	Standard 12 ft.	Deluxe 12 ft.	Standard 15 ft.
 301	 301H	 301H	 305
 1A/301 sidewall-use for limited installation space  3A/301 overhead-use for limited installation space  4R/301S overhead-suspended  4/301S overhead-suspended  4A/301 overhead-use for ample installation space	 1A/301 sidewall-use for limited installation space  3A/301 overhead-use for limited installation space  4R/301S overhead-suspended  4/301S overhead-suspended  4A/301 overhead-use for ample installation space	 1A/301 sidewall-use for limited installation space  3A/301 overhead-use for limited installation space  4R/301S overhead-suspended  4/301S overhead-suspended  4A/301 overhead-use for ample installation space	 1A/305 sidewall-use for limited installation space  3A/305 overhead-use for limited installation space  4A/305 overhead-use for ample installation space  4R/305S overhead-suspended
 62A/P folding pivot hanger-polished  63A/P pivot hanger-polished	 62A folding pivot hanger  63A pivot hanger	 62A/P folding pivot hanger-polished  63A/P pivot hanger-polished	 62C folding pivot hanger  63C pivot hanger
 403/2  403/3 <i>In cast aluminum alloy (deluxe=S.A.A.) or painted cast iron.</i>	 65 <i>In cast aluminum alloy or painted cast iron.</i>	 403/2  403/3 <i>In cast aluminum alloy (deluxe=S.A.A.) or painted cast iron.</i>	 65 <i>In cast aluminum alloy or painted cast iron.</i>
 67/94P  68/94P <i>Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)</i>	 67/97  68/97 <i>Brass roller guides mounted on alloy or cast iron hinge parts</i>	 67/94P  68/94P <i>Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)</i>	 67C/97  68C/97 <i>Brass roller guides mounted on alloy or cast iron hinge parts</i>
 94A aluminum guide channel	 97 steel guide channel	 94A aluminum guide channel	 97 steel guide channel
 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 1/4"  863 bow handle - 5 1/4"  77J 78 454 333	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 1/4"  863 bow handle - 5 1/4"  77J 78 454 333	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 1/4"  863 bow handle - 5 1/4"  77J 78 454 333	 414 flush pull  413 flush pull  400 in satin anodized aluminum  cane bolts  flush bolts  994 994R 994S  464 bow handle - 10 1/4"  863 bow handle - 5 1/4"  77J 78 454 333

# Tangent

## FOR ROUND THE CORNER WOOD OR METAL DOORS

### APPLICATIONS

- ◆ The hardware is suitable for commercial or industrial Tangent doors, windows and showroom doors.
- ◆ The doors slide clear of the opening and are parked along the side walls.
- ◆ Openings may be covered by any number of units sliding to one or both sides.
- ◆ Units should not be less than three panels nor more than six panels hinged together.
- ◆ The end panel under the curve normally forms an access swing door.



For "round-the-corner" metal or wood doors, the following are included:

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Hinges
- ◆ Guides
- ◆ Bottom channel
- ◆ Full range of accessories

Four track sizes are available to suit doors of different weights up to 180 lbs.



For smooth operation, no more than six door panels should be hinged together in one unit. Doors may be panelled or flush, glazed if required, with framing and joints designed to provide suitable fixing for hinges.

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION

#### Track and Track Curves:

Cold-rolled steel section hot-dip galvanized.

#### Brackets:

Cast aluminum alloy or pressed steel, suitable for side wall or overhead fixing. Closed brackets or end-clips are available for track ends, and jointing brackets for both ends of the track curve.

#### Hangers:

Steel wheels are fitted with maintenance free precision needle bearings sealed for life. Adjustable in height. Steel parts are rustproofed by electrozinc plating or painted, and hinge parts are in cast aluminum alloy, or painted cast iron. Deluxe finish hangers have polished aluminum hinge parts.

#### Hinges:

In cast aluminum alloy or painted cast iron.

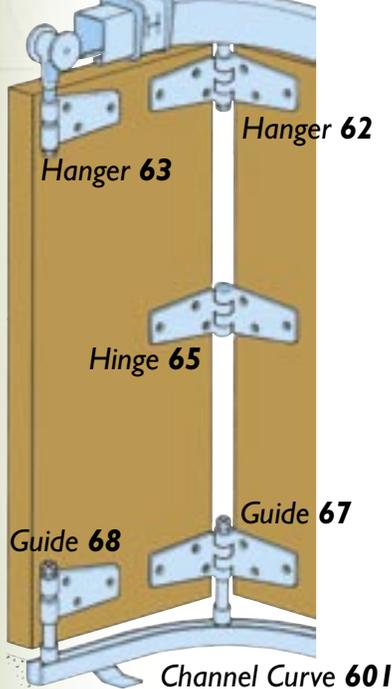
#### Channel and Guides:

Bottom channel steel section in three sizes, lugged for concrete and drilled for drainage. Brass roller guides are mounted on alloy or cast iron hinge parts.

#### Bolts, Stops and Handles:

In painted or galvanized steel.

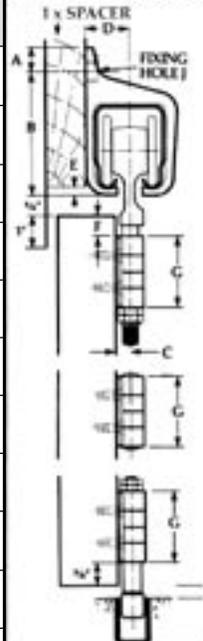
Bracket 1A Track Curve 600



All Dimensions in Feet and Inches

Track	290	301/301H	305
A	1/2	3/4	1
B	2 5/8	3 13/16	5 1/2
C	7/16	7/16	9/16
D	1 1/16	1 3/8	1 1/2
E	1/4	1/4	3/8
F	3/8	5/8	5/8
G	2 1/4	2 1/4	3 1/4
H	1	1 1/2	1 1/2
J	5/16	1/2	5/8
K	1	1 1/2	1 1/2
L	5/16	1/2	5/8

### SECTION DETAILS



All dimensions in feet and inches.

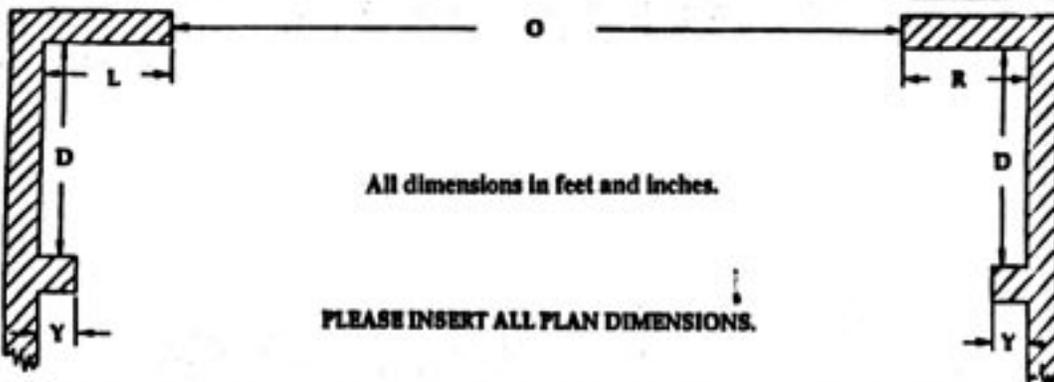
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## ROUND THE CORNER TRACK

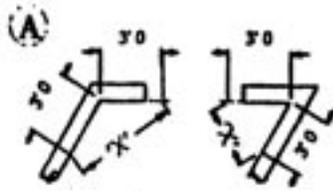
JOB NAME \_\_\_\_\_

QUOTE

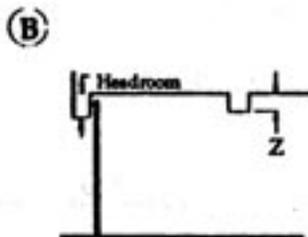
ORDER   
P.O.# \_\_\_\_\_



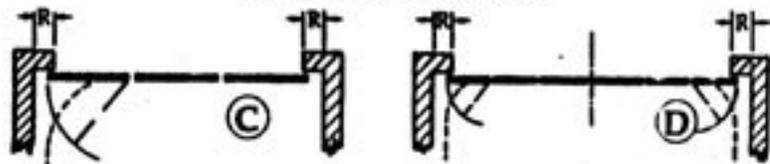
1. Width of Opening: 3'0 min. - 60'0 max.
2. Height of Opening: 5'0 min - 15'0 max.
3. Proposed No. of Leaves (2-20)
4. Door Thickness: 1-3/4" min. - 2-1/4" max.
5. Door Material:  Solid Core  Softwood  Metal Frame if metal frame:  Channel Frame  Special  Box Frame if box frame: depth of box section
6. Leaf Weight: state actual weight if you know
7. Doors Open to the:  Left only  Right only  Both ways
8. Depth of Left Reveal:
9. Depth of Right Reveal:
10. Is Side Wall:  Clear  Obstructed if obstructed, show dimensions on diagram below
11. Is Side Wall Square: if out of square show dimension "X" on diagram A below
12. Headroom Available Above Opening Inches:
13. Depth of Header:
14. Is Roof:  Clear  Obstructed if obstructed, show dimension "z" on diagram B below
15. If Swing Door(s) Required, State Number:
16. No. of Units and No. of Leaves per Unit:
17. No. of Units Opening to:  Left  Right
18. No. of Sets Required (one or more identical openings):



If side walls are not square.



### TYPICAL INSTALLATIONS



We recommend reveals R should not exceed 12" for convenient locking  
Usually a 4" or 8" reveal is preferred. If the swinger under the curve is not required the reveal must be a minimum of 27" to accommodate the corner curve.

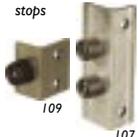


**NUMBER OF LEAVES:** To calculate correct number of leaves  
divide opening width (O above) by 32" - 36".

# Tangent HARDWARE KIT FOR ROUND-THE-

Max. Door Height	up to 8ft.- System 290		up to 11 ft.- System 301	
Max. Door Weight	up to 80 lbs.		80-120 lbs.	
Door Thickness/Width	1 <sup>3</sup> / <sub>8</sub> -2" thick, 32" wide		1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide	
<b>Track and Track Curve</b>	 <p>290 600K track curve</p>		 <p>301 600B track curve</p>	
<b>Brackets</b> <i>(one bracket for every three feet of track)</i>  <b>Joining Brackets</b> available for joining two pieces of track at bracket (i.e. 1AX/301) 	 <p>1A/290 sidewall-use for limited installation space</p>	 <p>3A/290 overhead-use for limited installation space</p>	 <p>1A/301 sidewall-use for limited installation space</p>	 <p>3A/301 overhead-use for limited installation space</p>
	 <p>4A/290 overhead-use for ample installation space</p>	 <p>4R/290S overhead-suspended</p>	 <p>4A/301 overhead-use for ample installation space</p>	 <p>4R/301S overhead-suspended</p>
<b>Guides</b> <i>(two per door)</i>	 <p>67/89</p>	 <p>68/89</p>	 <p>67/97</p>	 <p>68/97</p>
	Brass roller guides mounted on alloy or cast iron hinge parts		Brass roller guides mounted on alloy or cast iron hinge parts	
<b>Hangers</b>	 <p>62K folding pivot hanger (1 per panel joint)</p>	 <p>63K pivot hanger (for end panel)</p>	 <p>62A folding pivot hanger (1 per panel joint)</p>	 <p>63A pivot hanger (for end panel)</p>
<b>Hinges</b>	 <p>65 In cast aluminum alloy or painted cast iron.</p>		 <p>65 In cast aluminum alloy or painted cast iron.</p>	
<b>Guide Channel/ Channel Curve</b>	 <p>89 steel guide channel</p>	 <p>601/89 guide channel curve</p>	 <p>97 steel guide channel</p>	 <p>601/97 guide channel curve</p>
<b>Bow Handles, Flush Pulls, Flush Bolts</b>	 <p>863 bow handle - 5<sup>1</sup>/<sub>4</sub>"</p>	 <p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>	 <p>863 bow handle - 5<sup>1</sup>/<sub>4</sub>"</p>	 <p>463 bow handle - 6<sup>1</sup>/<sub>4</sub>"</p>
	 <p>414 flush pull</p>	 <p>400 flush pull</p>	 <p>994R cane bolt</p>	 <p>414 flush pull</p>
		 <p>994R cane bolt</p>	 <p>400 flush pull</p>	 <p>994R cane bolt</p>
<b>Optional Extras</b>	 <p>109 or 107 stops</p>	 <p>994X offset cane bolt</p>	 <p>109 or 107 stops</p>	 <p>994X offset cane bolt</p>

# CORNER WOOD OR METAL DOORS

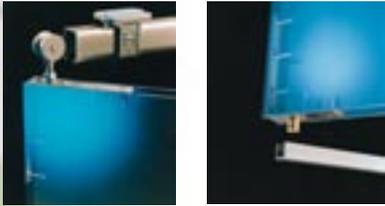
up to 12 ft. - System 301H		up to 15 ft. - System 305	
120-150 lbs.		150-180 lbs.	
1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide		1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide	
 301H	 600BH track curve	 305	 600D track curve
 1A/301 sidewall-use for limited installation space	 3A/301 overhead-use for limited installation space	 1A/305 sidewall-use for limited installation space	 3A/305 overhead-use for limited installation space
 4A/301 overhead-use for ample installation space	 4R/301S overhead- suspended	 4A/305 overhead-use for ample installation space	 4R/305S overhead- suspended
 67/97	 68/97	 67C/97	 68C/97
Brass roller guides mounted on alloy or cast iron hinge parts		Brass roller guides mounted on alloy or cast iron hinge parts	
 62A folding pivot hanger (1 per panel joint)	 63A pivot hanger (for end panel)	 62C folding pivot hanger (1 per panel joint)	 63C pivot hanger (for end panel)
 65 In cast aluminum alloy or painted cast iron.		 65 In cast aluminum alloy or painted cast iron.	
 97 steel guide channel	 601/97 guide channel curve	 97 steel guide channel	 601/97 guide channel curve
 863 bow handle - 5 <sup>1</sup> / <sub>4</sub> "	 463 bow handle - 6 <sup>1</sup> / <sub>4</sub> "	 463 bow handle - 6 <sup>1</sup> / <sub>4</sub> "	 413 flush pull
 414 flush pull	 400 flush pull	 994R cane bolt	 994R cane bolt
 109 or 107 stops	 994X offset cane bolt	 109 or 107 stops	 994X offset cane bolt

# Council 290-305

## FOR END FOLDING WOOD PARTITION DOORS

### APPLICATIONS

- ◆ The hardware is suitable for residential, commercial and public buildings where concealed fixing of the fittings is required.
- ◆ Only the neat flush pulls and bolts are visible on the face of the screen.
- ◆ Folding units should consist of an even number of panels up to a maximum of six hinged to jamb or anchored by pivots.
- ◆ For wide openings, the center units may be "floating" and these should consist of four or six panels.
- ◆ A swing door independently hinged to post is recommended for easy access, or alternatively one can be added to a two or four panel unit. Avoid these on partitions over 10" high and if access is required a wicket door should be arranged.



### For flush end-folding wood doors, the following are included:

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Hinges
- ◆ Guides
- ◆ Bottom channel
- ◆ Full range of accessories

Four track sizes are available to suit doors of different weights up to 180 lbs.



**For smooth operation, the recommended maximum number of panels in one unit is six hinged to jamb. If the panels are all of equal width and are required to be anchored at one end, Council "Flush fold pivot" hardware can be used. Panels may be panelled, glazed or flush and should be constructed with solid top and bottom rails to provide a secure fixing for edge fitting, hangers and guides.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

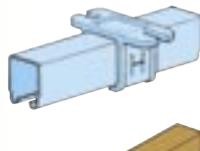
Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION

- Track:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** Cast aluminum or pressed steel electrozinc plated finish. Suitable brackets available for side wall or overhead fixing as well as closed brackets for each end.
- Hangers:** Fitted with maintenance free precision needle bearings sealed for life. Adjustable in height. Steel wheels and other parts are electrozinc plated.
- Hinges:** Aluminum alloy satin anodized finish. For economy, specify electrozinc plated steel hinges.
- Guides:** Brass rollers fitted to steel aprons which are electrozinc plated.
- Guide Channel:** Brass or aluminum drilled and counter-sunk for wood or lugged for concrete.
- Pivot Set (if required):** Comprises a top pivot, standard bottom guide and alternative sockets for wood or concrete floors.
- Flush Pulls and Bolts:** In satin anodized aluminum.

Bracket 3A

Hanger 21  
Track



Hinge  
403

Flush Pull  
400

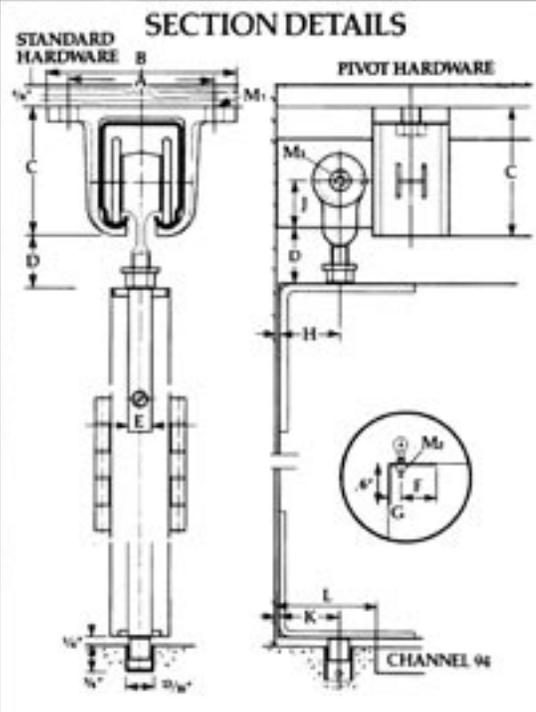
Flush Bolt

Guide  
21

Guide Channel

All Dimensions in Feet and Inches

Track	290	301/301H	305
A	2 1/2	4	5
B	3 1/4	5 1/8	6 5/8
C	2 3/16	3 3/8	4 3/4
D	3/4	1 3/8	2 3/8
E	1/2	11/16	11/16
F	4 1/2	5 1/4	5 1/4
G	1 1/2	1 3/4	1 3/4
H	1 9/16	1 7/8	
J	3/4	1 3/8	
K	1 9/16	1 7/8	
L	2 3/4	3	
M1	5/16	1/2	5/8
M2	1/2	5/8	5/8
M3	1/4	5/16	



Use in Place of  
401/402/403 Hinges:  
**PemkoHinge™**  
Continuous Geared  
Aluminum  
Hinges

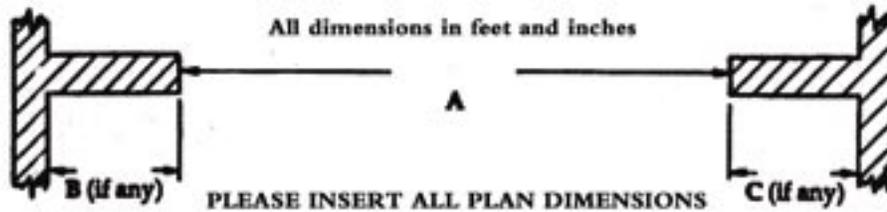
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# FOLDING TRACK

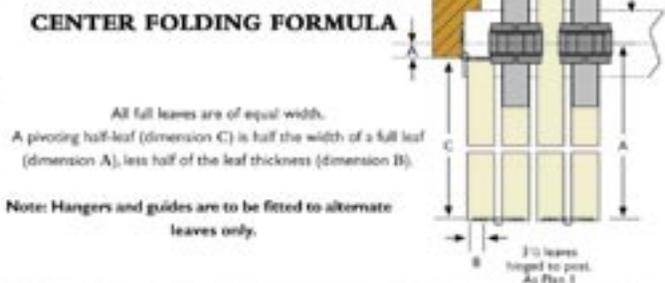
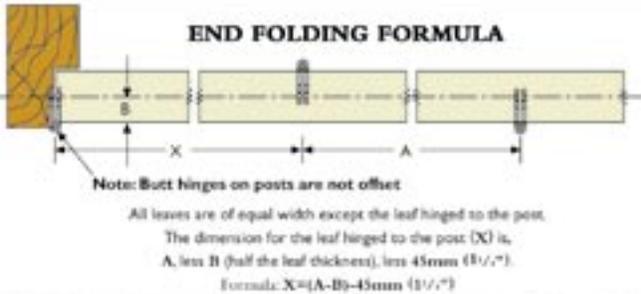
JOB REFERENCE \_\_\_\_\_

INQUIRY

ORDER

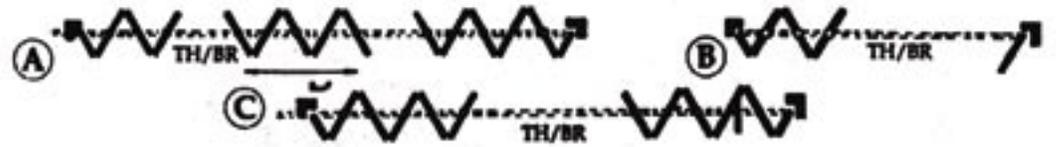


1. Is the Installation to be:  Top Hung  or Bottom Rolling
2. Are Partitions to be:  Center Folding  or End Folding (see diagrams below)
3. Width of Opening: 3'0" min. - 60'0" max.
4. Height of Opening: 3'0" min. - 15'0" max.
5. Are Partitions:  Hinged to the Jamb  Floating  Hinged and Floating  Pivoted (end fold only)
6. Is an Additional Swing Door Required:  Yes  No
7. Leaf Thickness:  Top Hung (1-3/4" min. or 2-1/4" max.)  Bottom Rolling (1-3/4" min. or 2-1/4" max.)
8. Leaf Material:  Solid Core  Leadlined  Glazed
9. Leaf Weight: state actual weight if known
10. Width of Header:
11. Type of Floor:  Concrete  Tile  Wood
12. Bottom Guide Channel Required: applies to top hung track only  Brass  Aluminum
13. Number of Units: see also question 5
14. Number of Leaves per Unit:  Left Hand  Right Hand  Middle Unit
15. No. of Sets Required: one or more identical openings
16. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below)



## TYPICAL EXAMPLES OF CENTER FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attached.



## TYPICAL EXAMPLES OF END FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track.

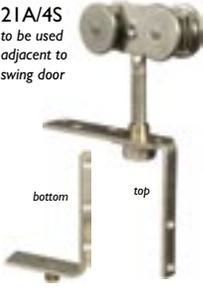
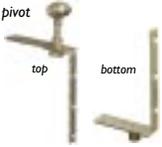
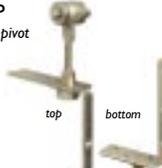


NOTE: Width of full leaves should not exceed 3'0"

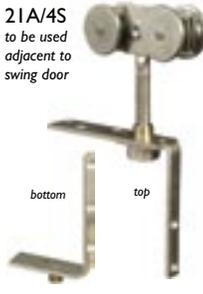
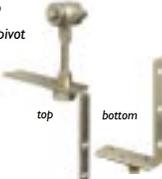
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# Council 290-305

## HARDWARE FOR END FOLDING

Max. Door Height	up to 9ft. - System 290	up to 11 ft. - System 301	
Max. Door Weight	up to 80 lbs.	80-120 lbs.	
Door Thickness/Width	1 <sup>3</sup> / <sub>8</sub> -1 <sup>3</sup> / <sub>4</sub> " thick, 32" wide	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide	
Track	 <p>290</p>	 <p>301</p>	
Brackets <i>(one bracket for every three feet of track)</i>	<p>1A/290 sidewall-use for limited installation space</p>  <p>3A/290 overhead-use for limited installation space</p>  <p>4A/290 overhead-use for ample installation space</p> 	<p>1A/301 sidewall-use for limited installation space</p>  <p>3A/301 overhead-use for limited installation space</p>  <p>4A/301 overhead-use for ample installation space</p> 	
Guides <i>(two per door)</i>	<p>21KR/94 guide</p> 	<p>21KR/94 guide</p> 	
Hangers	<p>21K/S endfold hanger (1 for every 2 panels)</p>  <p>21K/4N to be used adjacent to swing door</p> 	<p>21A/S endfold hanger (1 for every 2 panels)</p>  <p>21A/4S to be used adjacent to swing door</p>  <p>bottom top</p>	
Hinges, Pivots	<p>403/1</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p> <p>21K/P endfold pivot</p>  <p>top bottom</p>	<p>403/2</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p> <p>21A/P endfold pivot</p>  <p>top bottom</p>	
Guide Channel	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 	
Flush Pulls, Flush Bolts	<p>414 flush pull</p>  <p>400 flush pull</p>  <p>454 flush bolt</p>  <p>333 flush bolt</p> 	<p>414 flush pull</p>  <p>400 flush pull</p>  <p>454 flush bolt</p>  <p>333 flush bolt</p> 	
Optional Extras	<p>113R guide</p>  <p>21R endfold guide</p>  <p>1/290EC (not shown) end clip for 290 steel brackets (1A/290 end clips also available for aluminum brackets)</p>	<p>113R guide</p>  <p>21R endfold guide</p>  <p>1/301EC end clip for 301 steel brackets (1A/301 end clips also available for aluminum brackets)</p> 	

# WOOD PARTITION DOORS

	up to 12 ft. - System 301H	up to 15 ft. - System 305
	120-150 lbs.	150-180 lbs.
	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide
	<p>301H</p> 	<p>305</p> 
	<p>1A/301 sidewall-use for limited installation space</p>  <p>3A/301 overhead-use for limited installation space</p>  <p>4A/301 overhead-use for ample installation space</p> 	<p>1A/305 sidewall-use for limited installation space</p>  <p>3A/305 overhead-use for limited installation space</p>  <p>4A/305 overhead-use for ample installation space</p> 
	<p>21KR/94 guide</p> 	<p>21KR/94 guide</p> 
	<p>21A/S endfold hanger (1 for every 2 panels)</p>  <p>21A/4S to be used adjacent to swing door</p>  <p>bottom top</p>	<p>21C/S endfold hanger (1 for every 2 panels)</p> 
	<p>403/2</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p> <p>21A/P endfold pivot</p>  <p>top bottom</p>	<p>403/3</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p>
	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 
	<p>414 flush pull</p>  <p>400 flush pull</p>  <p>454 flush bolt</p>  <p>333 flush bolt</p> 	<p>414 flush pull</p>  <p>400 flush pull</p>  <p>454 flush bolt</p> 
	<p>113R guide</p>  <p>21R endfold guide</p>  <p>1/301EC end clips for 301 steel brackets (1A/301 end clips also available for aluminum brackets)</p> 	<p>113R guide</p>  <p>21R endfold guide</p> 

# Council 290-305

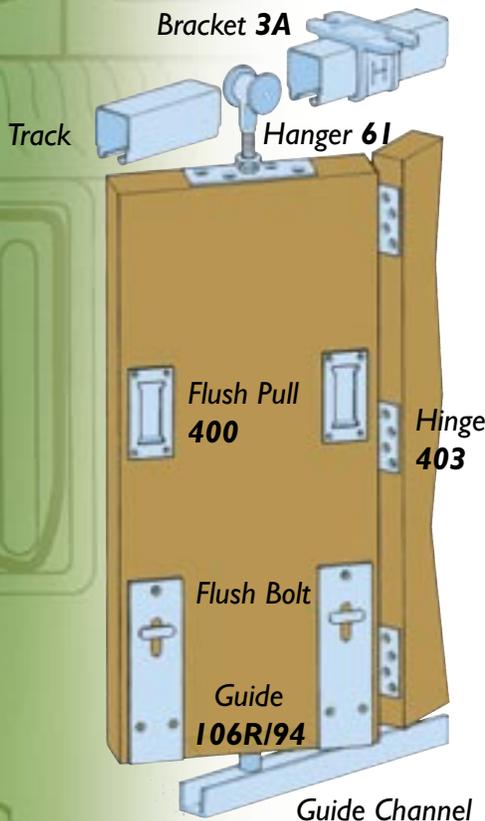
## FOR CENTER FOLDING WOOD PARTITION DOORS

### APPLICATIONS

- ◆ The hardware is suitable for residential, commercial and public buildings.
- ◆ Partitions are usually hung centrally under the lintel and fold to one or both sides, occupying a minimum of space during closing operation.
- ◆ The folding units should consist of an odd number of full panels with one half panel hinged to jamb.
- ◆ For wide openings, the center units may be "floating" and consist of five or seven panels in one unit.
- ◆ Where an access door is required this may be hung separately to the jamb and not form part of the folding unit, or a wicket door should be arranged in one panel.



Bracket 3A



### For center-folding wood doors, the following are included:

- ◆ Support brackets and track
- ◆ Hangers
- ◆ Hinges
- ◆ Guides
- ◆ Bottom channel
- ◆ Full range of accessories

Four track sizes are available to suit doors of different weights up to 180 lbs.



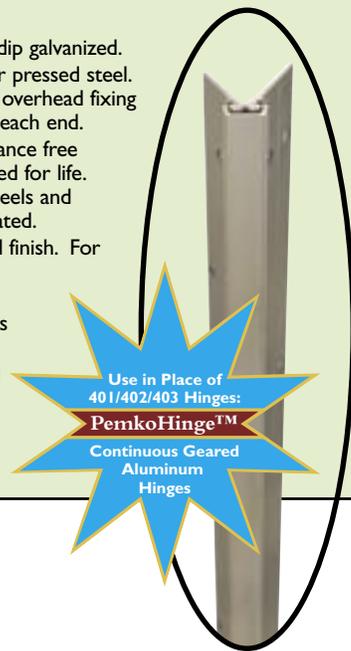
**For smooth operation, the recommended maximum number of panels in one unit is five and a half hinged to jamb. Panels may be panelled, glazed or flush and should be constructed with solid top and bot-**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION

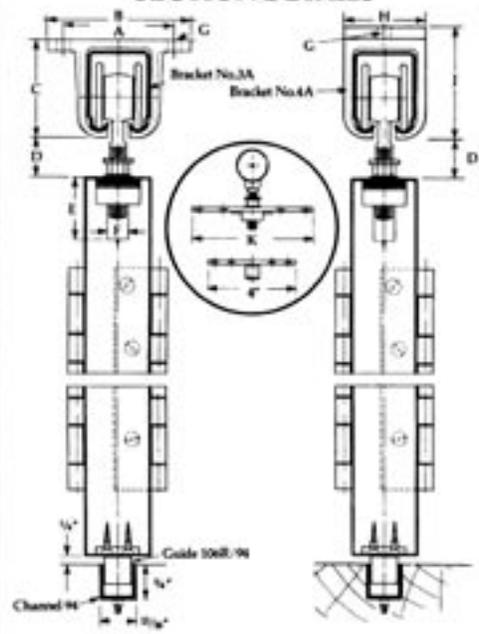
- Track:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** These are of cast aluminum or pressed steel. Suitable brackets are available overhead fixing as well as closed brackets for each end.
- Hangers:** These are fitted with maintenance free precision needle bearings sealed for life. Adjustable in height. Steel wheels and other parts are electrozinc plated.
- Hinges:** Aluminum alloy satin anodized finish. For economy, specify electrozinc plated steel hinges.
- Guides:** Brass rollers fitted to steel plates which are electrozinc plated.
- Channel:** Brass or aluminum drilled and counter-sunk for wood or lugged for concrete.
- Flush Pulls and Bolts:** In satin anodized aluminum.



All Dimensions in Feet and Inches

Track	290	301/301H	305
A	2 1/2	4	5
B	3 1/4	5 1/8	6 5/8
C	2 3/16	3 3/8	4 3/4
D	3/4	1 3/8	2 3/8
E	1 1/2	2	2 1/2
F	1/2	3/4	3/4
G	5/16	1/2	5/8
H	1 7/8	3	3 1/4
J	2 5/8	3 3/4	5 3/8
K	5 1/2	7 1/4	9 1/2

### SECTION DETAILS



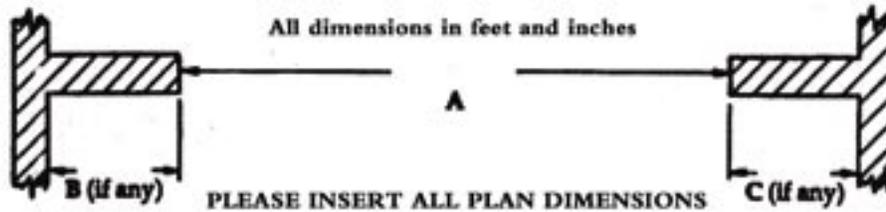
Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

# FOLDING TRACK

JOB REFERENCE \_\_\_\_\_

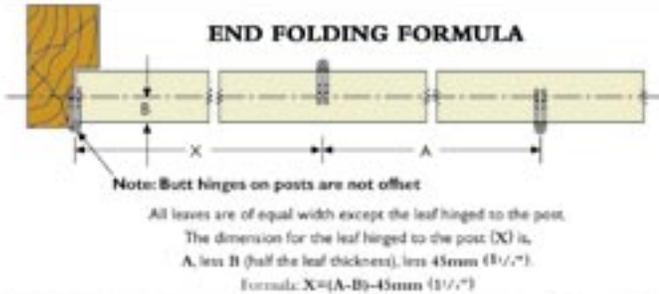
INQUIRY

ORDER



1. Is the Installation to be:  Top Hung  or Bottom Rolling
2. Are Partitions to be:  Center Folding  or End Folding (see diagrams below)
3. Width of Opening: 3'0" min. - 60'0" max.
4. Height of Opening: 3'0" min. - 15'0" max.
5. Are Partitions:  Hinged to the Jamb  Floating  Hinged and Floating  Pivoted (end fold only)
6. Is an Additional Swing Door Required:  Yes  No
7. Leaf Thickness:  Top Hung (1-3/4" min. or 2-1/4" max.)  Bottom Rolling (1-3/4" min. or 2-1/4" max.)
8. Leaf Material:  Solid Core  Leadlined  Glazed
9. Leaf Weight: state actual weight if known
10. Width of Header:
11. Type of Floor:  Concrete  Tile  Wood
12. Bottom Guide Channel Required: applies to top hung track only  Brass  Aluminum
13. Number of Units: see also question 5
14. Number of Leaves per Unit:  Left Hand  Right Hand  Middle Unit
15. No. of Sets Required: one or more identical openings
16. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below)

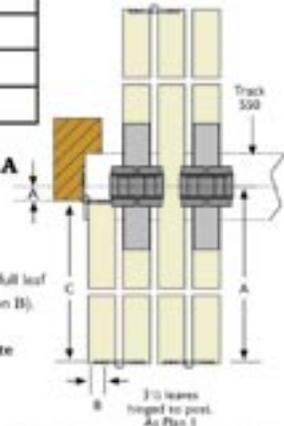
## END FOLDING FORMULA



## CENTER FOLDING FORMULA

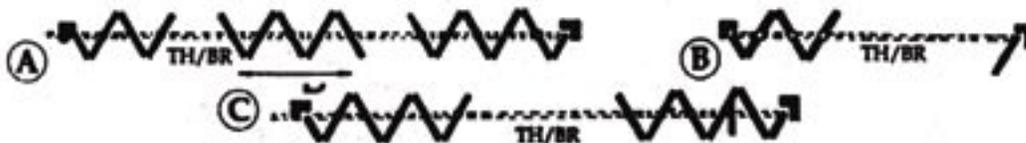
All full leaves are of equal width. A pivoting half-leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).

Note: Hangers and guides are to be fitted to alternate leaves only.



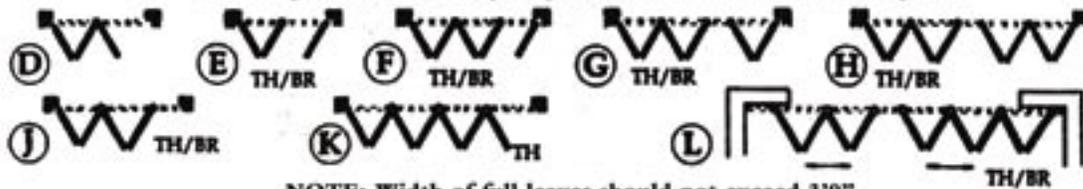
## TYPICAL EXAMPLES OF CENTER FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attached.



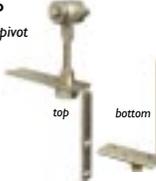
## TYPICAL EXAMPLES OF END FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track.



NOTE: Width of full leaves should not exceed 3'0"

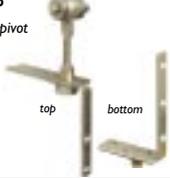
# Council 290-305 HARDWARE FOR CENTER

Max. Door Height	up to 9ft.- System 290		up to 11 ft. - System 301					
Max. Door Weight	up to 80 lbs.		80-120 lbs.					
Door Thickness/Width	1 <sup>3</sup> / <sub>8</sub> -1 <sup>3</sup> / <sub>4</sub> " thick, 32" wide		1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide					
<b>Track</b>	 <p>290</p>		 <p>301</p>					
<b>Brackets</b> (one bracket for every three feet of track)	<p>1A/290 sidewall-use for limited installation space</p> 	<p>3A/290 overhead-use for limited installation space</p> 	<p>4A/290 overhead-use for ample installation space</p> 	<p>1A/301 sidewall-use for limited installation space</p> 	<p>3A/301 overhead-use for limited installation space</p> 	<p>4A/301 overhead-use for ample installation space</p> 		
<b>Guides</b> (two per door)	<p>21KR/94 guide</p> 		<p>21R/94 guide</p> 					
<b>Hangers</b>	<p>21K/S endfold hanger (1 for every 2 panels)</p> 	<p>21K/4N to be used adjacent to swing door</p> 	<p>21A/S endfold hanger (1 for every 2 panels)</p> 	<p>21A/4S to be used adjacent to swing door</p>  <p>bottom top</p>				
<b>Hinges, Pivots</b>	<p>403/1</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p>	<p>21K/P endfold pivot</p>  <p>top bottom</p>	<p>403/2</p>  <p>In cast aluminum alloy (deluxe=S, AA) or painted cast iron.</p>	<p>21A/P endfold pivot</p>  <p>top bottom</p>				
<b>Guide Channel</b>	<p>94 brass guide channel</p> 	<p>94A aluminum guide channel</p> 	<p>94 brass guide channel</p> 	<p>94A aluminum guide channel</p> 				
<b>Flush Pulls, Flush Bolts</b>	<p>414 flush pull</p> 	<p>400 flush pull</p> 	<p>454 flush bolt</p> 	<p>333 flush bolt</p> 	<p>414 flush pull</p> 	<p>400 flush pull</p> 	<p>454 flush bolt</p> 	<p>333 flush bolt</p> 
<b>Optional Extras</b>	<p>113R guide</p> 	<p>21R endfold guide</p> 	<p>1A/301EC end clips for 301 brackets</p> 	<p>113R guide</p> 	<p>21R endfold guide</p> 	<p>1A/301EC end clips for 301 brackets</p> 		

# FOLDING WOOD PARTITION DOORS

## up to 12 ft. - System 301H

## up to 15 ft. - System 305

	120-150 lbs.	150-180 lbs.
	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide	1 <sup>3</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>4</sub> " thick, 36" wide
	<p>301H</p> 	<p>305</p> 
	<p>1A/301 sidewall-use for limited installation space</p>  <p>3A/301 overhead-use for limited installation space</p>  <p>4A/301 overhead-use for ample installation space</p> 	<p>1A/305 sidewall-use for limited installation space</p>  <p>3A/305 overhead-use for limited installation space</p>  <p>4A/305 overhead-use for ample installation space</p> 
	<p>21R/94 guide</p> 	<p>21R/94 guide</p> 
	<p>21A/S endfold hanger (1 for every 2 panels)</p>  <p>21A/4S to be used adjacent to swing door</p>  <p>bottom top</p>	<p>21C/S endfold hanger (1 for every 2 panels)</p> 
	<p>403/2</p>  <p>In cast aluminum alloy (deluxe=S, AA.) or painted cast iron.</p> <p>21A/P endfold pivot</p>  <p>top bottom</p>	<p>403/3</p>  <p>In cast aluminum alloy (deluxe=S, AA.) or painted cast iron.</p>
	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 	<p>94 brass guide channel</p>  <p>94A aluminum guide channel</p> 
	<p>414 flush pull   400 flush pull   454 flush bolt   333 flush bolt</p>    	<p>414 flush pull   400 flush pull   454 flush bolt</p>   
	<p>113R guide</p>  <p>21R endfold guide</p>  <p>1A/301EC end clips for 301 brackets</p> 	<p>113R guide</p>  <p>21R endfold guide</p>  <p>1A/301EC end clips for 301 brackets</p> 

# Arcade A70

## FOR END AND CENTER FOLDING ALUMINUM AND WOOD SECTION DOORS

### APPLICATIONS

- ◆ High-quality bottom roller hardware and fittings for end and center folding aluminum section glazed for retail and display applications to a maximum leaf weight of 150 lbs.



**For end folding and center folding aluminum and wood partition doors, the following are included:**

- ◆ Top guide brackets
- ◆ Bottom rail
- ◆ Back flap hinges
- ◆ Bottom rollers
- ◆ Top guide rollers
- ◆ Top guide channel
- ◆ Full range of accessories

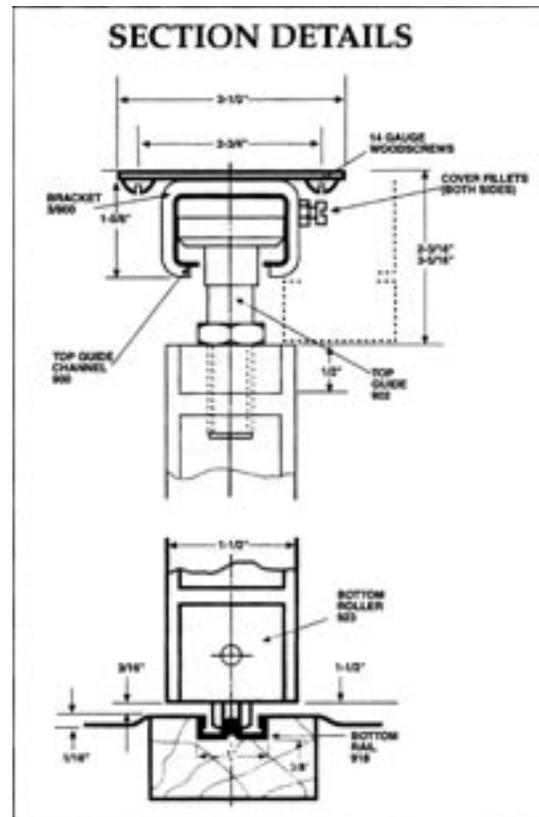
**For best endfold operation, not more than 8 leaves should be hinged to one jamb; alternatively leaves may be floating in units of 6 or 8. Any access door should be hung separately to the jamb. For best centerfold operation, not more than 7<sup>1</sup>/<sub>2</sub> leaves to be hinged to one jamb; alternatively leaves may be floating in units of 5 or 7. Any access door should be hung separately to the jamb.**

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.

Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

### COMPOSITION

- Top Guide Channel:** 900 galvanized steel with safety lip.
- Top Guide Brackets:** Pressed steel zinc plated.
- Top Guide Rollers:** Fitted with adjustable nylon rollers. Vertical adjustment is simple and positive.
- Bottom Rollers:** Supported on thrust bearings.
- Hinges:** Proprietary hinges used to suit the aluminum rails and stile used to construct the leaves.
- Rail:** Pre-drilled and countersunk for wood or lugging into concrete.
- Accessories:** Flush Pulls, Flush Bolts and Locks.



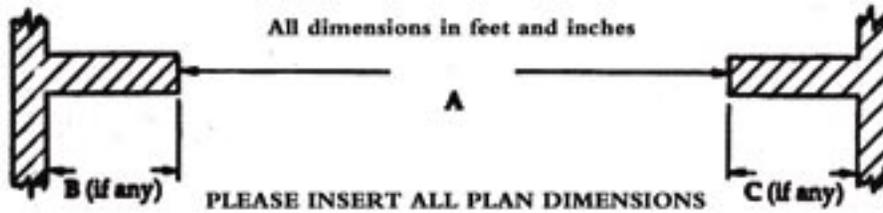
Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

# FOLDING TRACK

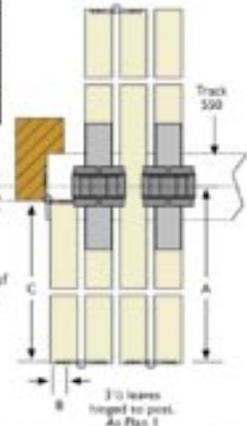
JOB REFERENCE \_\_\_\_\_

INQUIRY

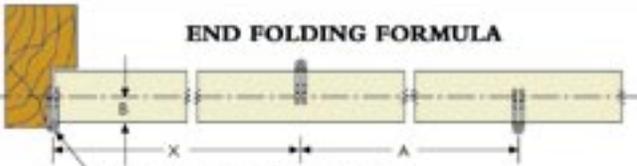
ORDER



1. Is the Installation to be:  Top Hung  or Bottom Rolling.
2. Are Partitions to be:  Center Folding  or End Folding (see diagrams below)
3. Width of Opening: 3'0" min. - 60'0" max.
4. Height of Opening: 3'0" min. - 15'0" max.
5. Are Partitions:  Hinged to the Jamb  Floating  Hinged and Floating  Pivoted (end fold only)
6. Is an Additional Swing Door Required:  Yes  No
7. Leaf Thickness:  Top Hung (1-3/4" min. or 2-1/4" max.)  Bottom Rolling (1-3/4" min. or 2-1/4" max.)
8. Leaf Material:  Solid Core  Leadlined  Glazed
9. Leaf Weight: state actual weight if known
10. Width of Header:
11. Type of Floor:  Concrete  Tile  Wood
12. Bottom Guide Channel Required: applies to top hung track only  Brass  Aluminum
13. Number of Units: see also question 5
14. Number of Leaves per Unit:  Left Hand  Right Hand  Middle Unit
15. No. of Sets Required: one or more identical openings
16. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below)



## END FOLDING FORMULA



Note: Butt hinges on posts are not offset

All leaves are of equal width except the leaf hinged to the post.

The dimension for the leaf hinged to the post (X) is:

A, less B (half the leaf thickness), less 45mm (1 7/8").

Formula:  $X = (A - B) - 45\text{mm} (1\frac{7}{8}')$

## CENTER FOLDING FORMULA

All full leaves are of equal width.

A pivoting half-leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).

Note: Hangers and guides are to be fitted to alternate leaves only.

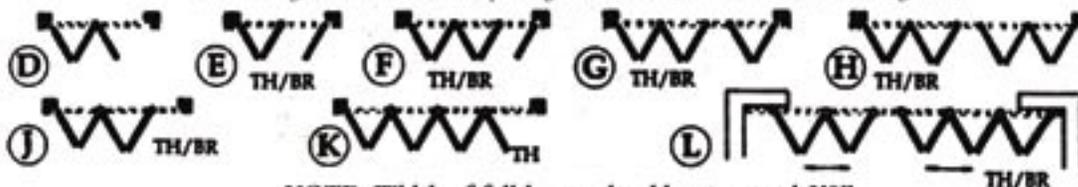
## TYPICAL EXAMPLES OF CENTER FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attached.



## TYPICAL EXAMPLES OF END FOLDING PARTITION TRACK

TH = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track.



NOTE: Width of full leaves should not exceed 3'0"

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and

# Arcade A70 HARDWARE FOR END AND CENTER

**Max. Folding Leaf Height**

**up to 12 ft. - Endfold System A70**

**Max. Door Weight** up to 150 lbs.

up to 150 lbs.

**Top Guide Channel**



900

**Brackets**

*(fix every 3' max and at channel joints. Fix extra bracket where doors stack)*

1/900  
sidewall-use for limited  
installation space

3/900  
overhead-use for limited  
installation space



**Top Guide Rollers** *(one every two doors)*

902  
comes with flat  
mounting plate  
(not shown)



**Hinges**

*(three in height)*



65/65P hinge

**Bottom Rollers**

*(one every two doors)*

922  
for aluminum doors

923  
for wood doors



**Bottom Rail**



918 brass  
bottom rail

**Flush Pull**



400 flush pull

**Flush Bolt**



454 flush bolt

# FOLDING ALUMINUM AND WOOD SECTION DOORS

## up to 12 ft. - Centerfold System A70

	 <p>900</p>	
	<p>1/900 sidewall-use for limited installation space</p>  <p>3/900 overhead-use for limited installation space</p> 	
	<p>902 comes with flat mounting plate (not shown)</p> 	
	 <p>65/65P hinge</p>	
	<p>922 for aluminum doors</p>  <p>923 for wood doors</p> 	
	 <p>918 brass bottom rail</p>	
	 <p>400 flush pull</p>	
	 <p>454 flush bolt</p>	

# Overhead Runways

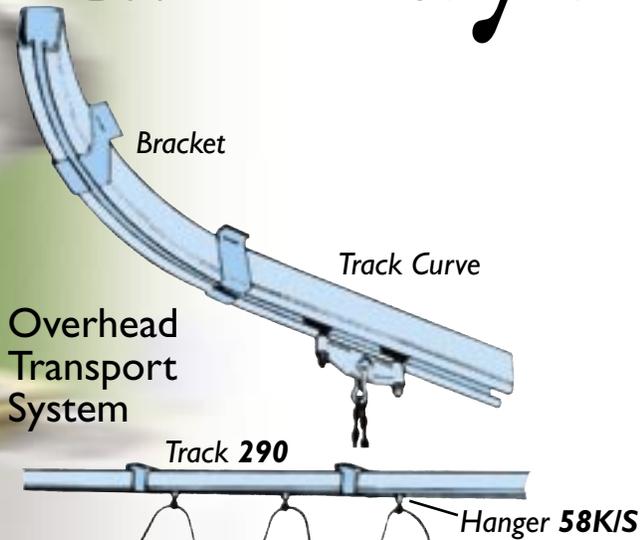
Henderson standard tracks, curves and brackets can be used together with a choice of specially adapted hangers to make a variety of overhead runway systems.

These are suited not only to the transfer of load from one location to another, but also for more specialized applications such as industrial and vehicle curtains, cable carriers, safety runways for window cleaners of high buildings, and even gymnasium climbing ropes.

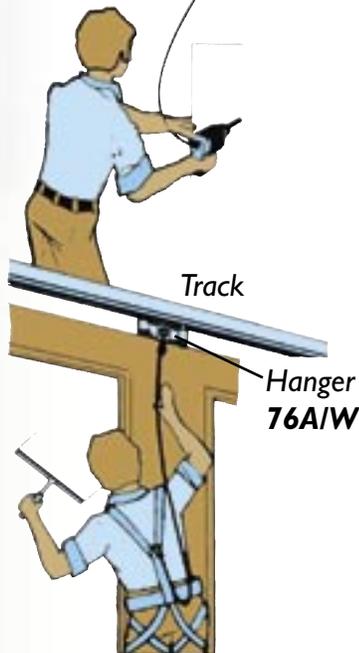
Five track sizes are available depending on load weight.



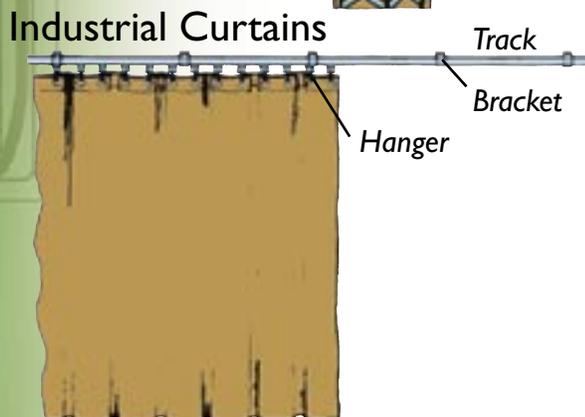
These are suited not only to the transfer of load from one location to another, but also for more specialized applications such as industrial and vehicle curtains, cable carriers, safety runways for window cleaners of high buildings, and even gymnasium climbing ropes.



Cable Carrying System



Window Cleaning Safety System

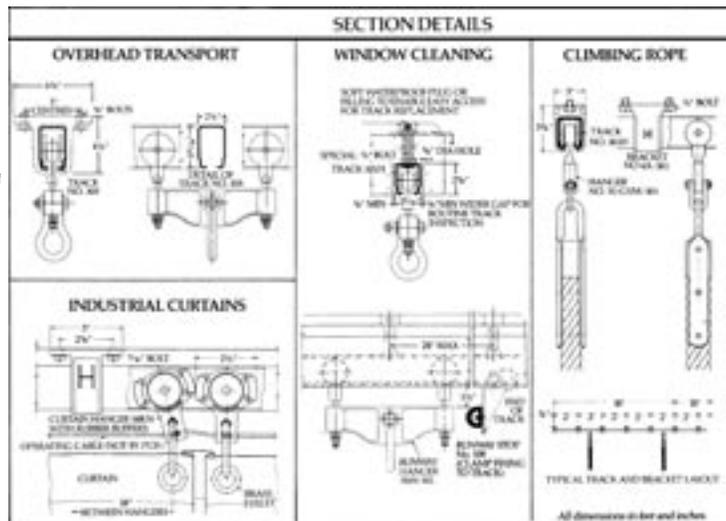


## APPLICATIONS

- ◆ The hardware is suitable for factories, warehouses, commercial and public buildings and vehicles.
- ◆ For overhead transport runways layouts including curves are possible.
- ◆ These are usually attached to the roof support structure, using fixed or adjustable overhead fixing brackets spaced 2-3 ft. apart, but it is important that the overhead structure can support a moving load.
- ◆ Window cleaning runways are fitted to the outside of buildings designed with a parapet wide enough for a person to walk along.
- ◆ The specially punched track is normally fixed into a precast recess within the overhead concrete slab, using purpose designed bolt assemblies.
- ◆ A window cleaner (load weight 300lbs max) wearing an approved safety harness and lanyard attached to the hanger can be restrained through a 6 ft. fall, but the track and fittings must afterwards be inspected and if necessary replaced.
- ◆ Suitable for straight track applications only.

## COMPOSITION

- Track and Track Curves:** Cold-rolled steel section hot-dip galvanized.
- Brackets:** These are cast aluminum or pressed steel electrozinc plated finish or painted.
- Hangers:** Steel wheels are fitted with maintenance free precision needle bearings sealed for life. All steel parts are electrozinc plated or painted.
- Stops:** In painted or galvanized steel.



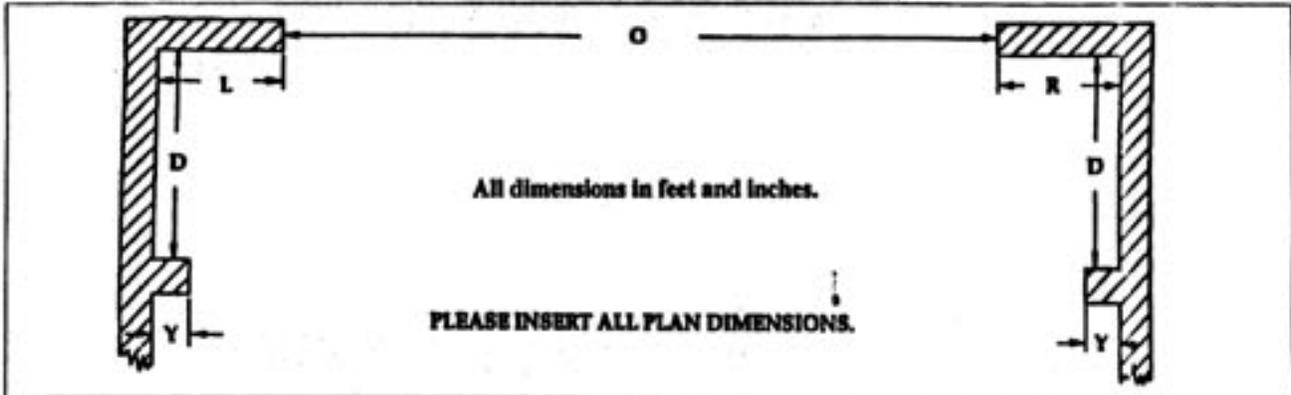
Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.

## ROUND THE CORNER TRACK

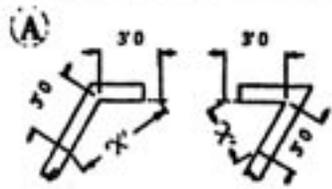
JOB NAME \_\_\_\_\_

QUOTE

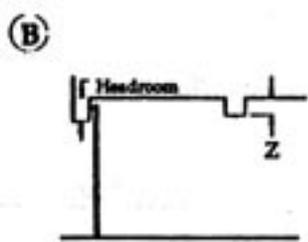
ORDER   
P.O.# \_\_\_\_\_



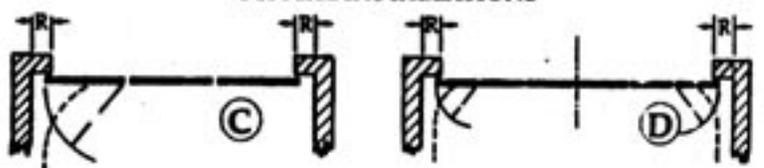
1.	Width of Opening: 3'0 min. - 6'0 max.
2.	Height of Opening: 5'0 min - 15'0 max.
3.	Proposed No. of Leaves (2-20)
4.	Door Thickness: 1-3/4" min. - 2-1/4" max.
5.	Door Material: <input type="checkbox"/> Solid Core <input type="checkbox"/> Softwood <input type="checkbox"/> Metal Frame if metal frame: <input type="checkbox"/> Channel Frame <input type="checkbox"/> Special <input type="checkbox"/> Box Frame (if box frame: depth of box section)
6.	Leaf Weight: state actual weight if you know
7.	Doors Open to the: <input type="checkbox"/> Left only <input type="checkbox"/> Right only <input type="checkbox"/> Both ways
8.	Depth of Left Reveal:
9.	Depth of Right Reveal:
10.	Is Side Wall: <input type="checkbox"/> Clear <input type="checkbox"/> Obstructed if obstructed, show dimensions on diagram below
11.	Is Side Wall Square: if out of square show dimension "X" on diagram A below
12.	Headroom Available Above Opening Inches:
13.	Depth of Header:
14.	Is Roof: <input type="checkbox"/> Clear <input type="checkbox"/> Obstructed if obstructed, show dimension "z" on diagram B below
15.	If Swing Door(s) Required, State Number:
16.	No. of Units and No. of Leaves per Unit:
17.	No. of Units Opening to: <input type="checkbox"/> Left <input type="checkbox"/> Right
18.	No. of Sets Required (one or more identical openings):



If side walls are not square.



### TYPICAL INSTALLATIONS

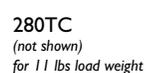
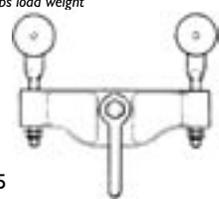
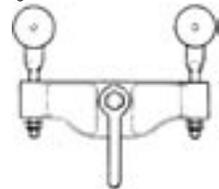
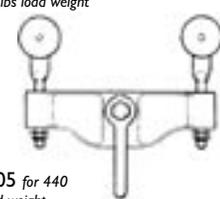
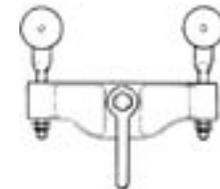


We recommend reveals R should not exceed 12" for convenient locking. Usually a 4" or 6" reveal is preferred. If the swinger under the curve is not required the reveal must be a minimum of 27" to accommodate the corner curve.

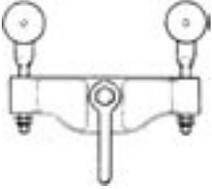


**NUMBER OF LEAVES:** To calculate correct number of leaves divide opening width (O above) by 32" - 36".

# Overhead Runways

Max. Load Weight	0-500 lbs.	0-440 lbs.	11 lbs. / 44 lbs.
System Type	Overhead Transport (straight)	Overhead Transport (curved)	Industrial Curtains
<b>Track</b>	 301 for 300 lbs load weight   301H for 400 lbs load weight   305 for 500 lbs load weight	 301 for 240 lbs load weight   301H for 300 lbs load weight   305 for 440 lbs load weight	 280 for 11 lbs load weight   290 for 44 lbs load weight
<b>Track Curves (23" radius)</b>	<b>not required</b>	 600B for 240 lbs load weight   600BH for 300 lbs load weight   600D for 440 lbs load weight	 280TC (not shown) for 11 lbs load weight   600K for 44 lbs load weight
<b>Brackets</b> (one bracket for every three feet of track and at track joints)  Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301) 	 3A/301 overhead fixed  3A/305 overhead fixed   4R/301S overhead-fixed adjustable  4R/305S overhead-fixed adjustable	 3A/301 overhead fixed  3A/305 overhead fixed   4R/301S overhead-fixed adjustable  4R/305S overhead-fixed adjustable	 4R/280S overhead fixed adjustable-for 11 lbs. load weight  3A/290 overhead fixed-for 44 lbs load weight   4R/290S overhead fixed adjustable-for 44 lbs. load weight
<b>Hangers</b>	 76/301 (can also use 71A) for 400 lbs load weight   76/305 lbs load weight	 76/301 for 300 lbs load weight   76/305 for 440 lbs load weight	 288H for 11 lbs load weight   58K/S for 44 lbs load weight

# Overhead Transport Systems

	44 lbs.	90 lbs.	300 lbs.*	440 lbs.
	Vehicle Curtains	Cable Carriers	Window Cleaning	Climbing Rope
	 <p>290</p>	 <p>290</p>	 <p>301H 305</p>	 <p>301H</p>
	<b>not required</b>	<b>not required</b>	<b>not required</b>	<b>not required</b>
	<p>3A/290 overhead fixed</p>  <p>4R/290S overhead fixed adjustable</p> 	<p>3A/290 overhead fixed</p>  <p>4R/290S overhead fixed adjustable</p> 	<p>M12 Bolts not shown</p>	<p>4A/301 overhead fixed</p>  <p>4R/301S overhead fixed or overhead adjustable</p> 
	<p>55MV/S</p> 	<p>56K/N</p> 	<p>76A/W</p> 	<p>70GYM</p> 

\* Capacity when load is dropped through 6 ft.

# Titan

FOR SLIDING  
CANTILEVER  
GATES

## APPLICATIONS

- ◆ Gates into security-fenced areas (e.g. airports, storage), factory entrances, condominiums and residences.
- ◆ Gates over railway lines or uneven – surface roadways.
- ◆ These gates are best constructed in welded steel square tubing to your own design giving better security than round tube and chainlink gates.
- ◆ Opening width and gate weight determine the length of overhang required and track and roller type to use.
- ◆ There should be enough space available to slide the gate and overhang clear of the opening.
- ◆ Rollers should be mounted on substantial concrete footings, as wide apart as possible on the overhang.
- ◆ Titan can also be used for doors, where no overhead support exists for a sectional or shutter door to be fitted.

**Titan cantilever hardware suits sliding metal gates. The track is fixed to the base of the gate, which runs on a pair of rollers ground-fixed to one side of the opening. This leaves the roadway**

**free from any obstructions, especially top or bottom rails, which easily get blocked, damaged or can upset forklift loads. The heavy-duty rollers are hidden within the rail for maximum security and weather protection.**

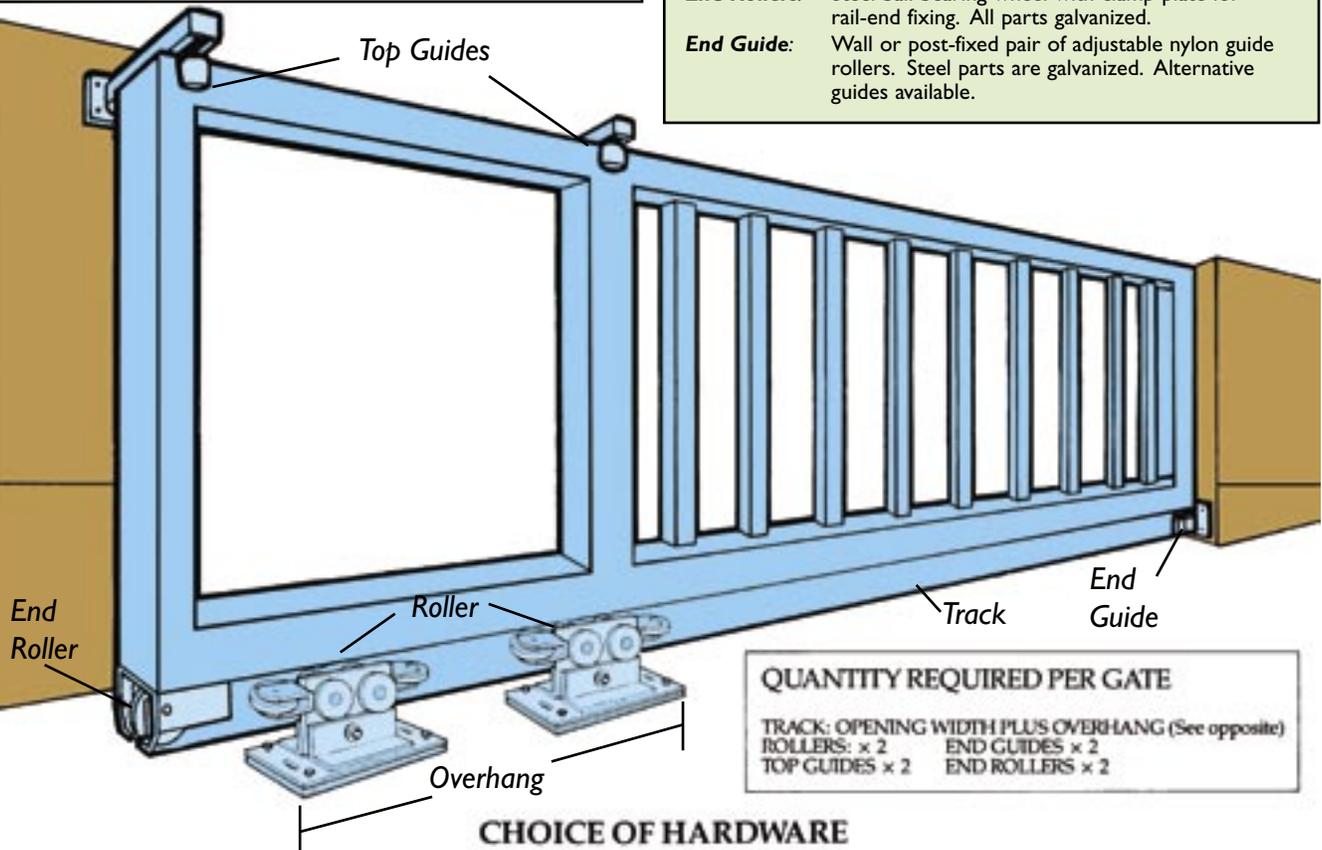
Two track sizes are available to suit openings up to 32 ft. wide.

710 (not shown) holds up to 2000 lbs. if manually operated

700 (not shown) holds up to 1200 lbs. if power operated.

## COMPOSITION

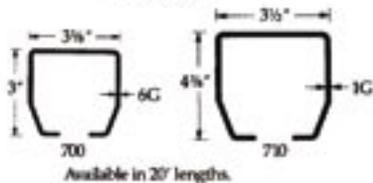
- Track:** Cold-rolled galvanized steel section in 20 ft. lengths.
- Rollers:** Steel wheels with precision ball bearings mounted on height-adjustable ground plates. All parts are galvanized or painted.
- End Rollers:** Steel ball bearing wheel with clamp-plate for rail-end fixing. All parts galvanized.
- End Guide:** Wall or post-fixed pair of adjustable nylon guide rollers. Steel parts are galvanized. Alternative guides available.



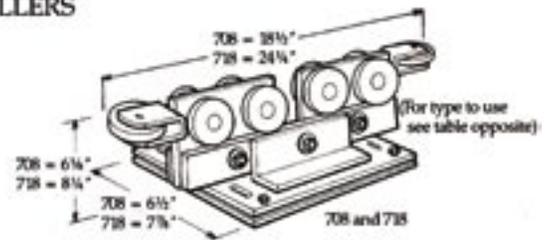
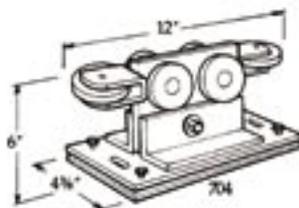
QUANTITY REQUIRED PER GATE	
TRACK:	OPENING WIDTH PLUS OVERHANG (See opposite)
ROLLERS:	× 2
TOP GUIDES:	× 2
END GUIDES:	× 2
END ROLLERS:	× 2

## CHOICE OF HARDWARE

### TRACKS

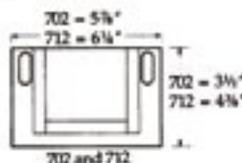


### ROLLERS

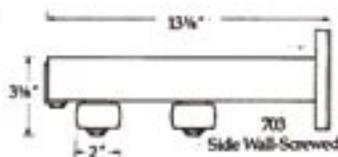


### END GUIDE

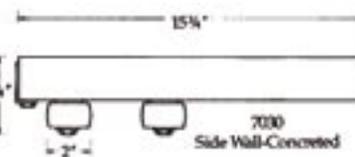
(702 for track 700  
712 for track 710)



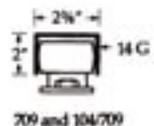
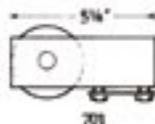
### TOP GUIDES



### ALTERNATIVE GUIDES



### END ROLLER



**HOW TO CHOOSE YOUR HARDWARE:** Choose gate type, manual or automatic. Read across to required gate opening width, then read downward to estimated gate weight. Shaded area indicates roller type and overhang length required.

☐ Use a pair of rollers No. 704 and track No. 700

☐ Use a pair of rollers No. 708 and track No. 700

■ Use a pair of rollers No. 718 and track No. 710

**MANUAL**

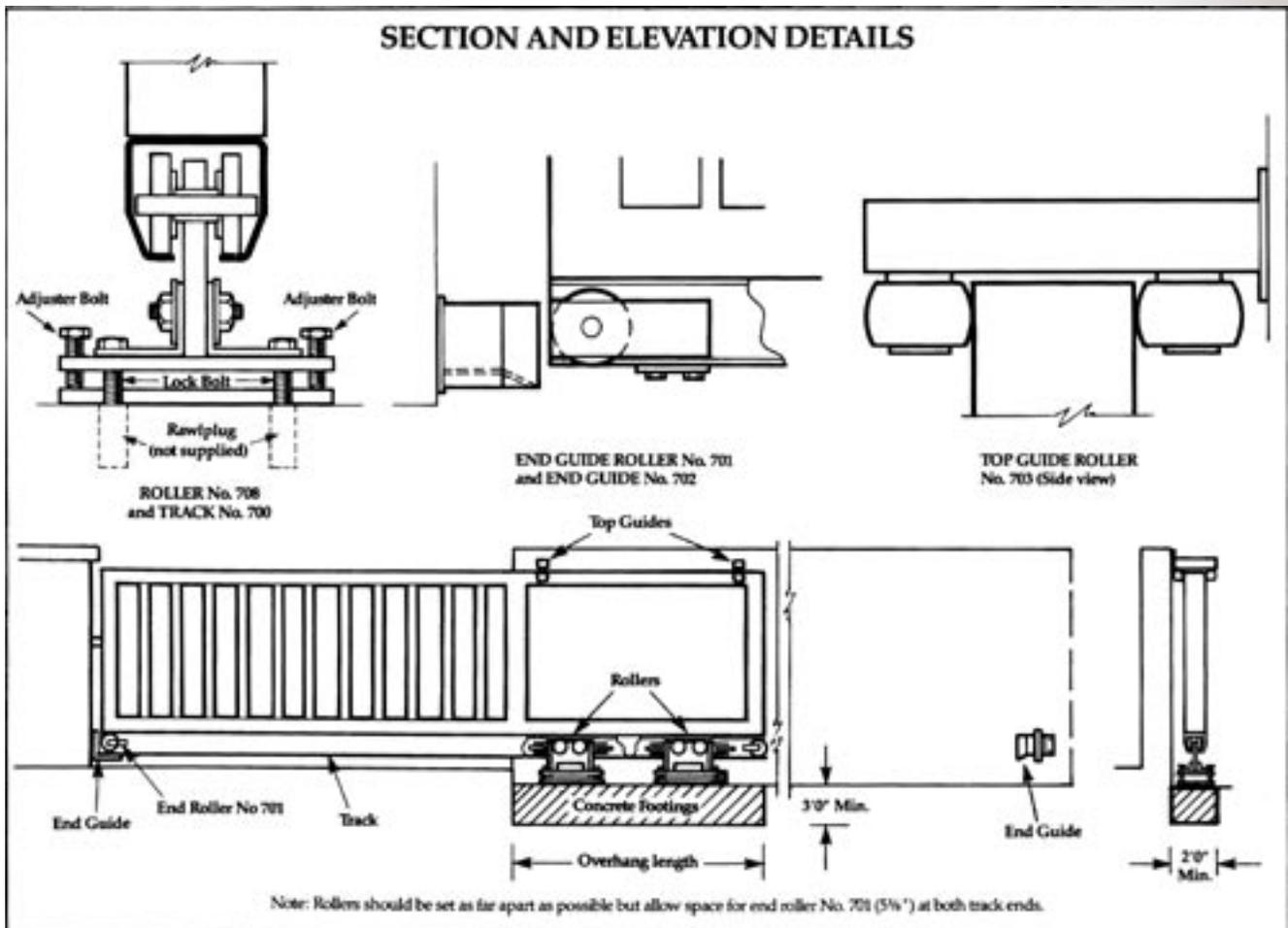
GATE WEIGHT: 400lbs.  
600lbs.  
800lbs.  
1000lbs.  
1200lbs.  
1400lbs.  
1600lbs.  
1800lbs.  
2000lbs.

		OPENING WIDTH (ft)													
		6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
400lbs.		4'	4'	4'6"	5'	5'6"	6'	6'6"	7'6"	5'6"	6'	6'	6'6"	6'6"	7'
600lbs.		5'	6'	7'	8'	9' 5/6"	10' 6/6"	11' 6/6"	12' 7/6"	7'6"	8'	8'6"	9'	9'6"	10'
800lbs.		8'	9'6"	11'	12'6"	14'	15'6"	17'	18'6"	9'6"	10'	10'6"	11'	11'6"	12'
1000lbs.						9'6"	10'6"	11'6"	12'	13'	14'	15'	16'	17'	18'
1200lbs.						13'	14'	15'	16'	7'6"	8'	8'6"	9'	9'6"	10'
1400lbs.							7'	7'6"	8'	8'6"	9'	9'6"	10'	10'6"	11'
1600lbs.							8'6"	9'	9'6"	10'	10'6"	11'	11'6"	12'	12'6"
1800lbs.							9'6"	10'	10'6"	11'	12'	12'6"	13'	14'	15'
2000lbs.							10'6"	11'6"	12'6"	13'6"	14'6"	15'	15'6"	16'	16'6"

**AUTOMATIC**

GATE WEIGHT: 300lbs.  
400lbs.  
500lbs.  
600lbs.  
700lbs.  
800lbs.  
900lbs.  
1000lbs.  
1100lbs.  
1200lbs.

		OPENING WIDTH (ft)													
		6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
300lbs.		5'6"	6'	6'6"	7' 5/6"	7'6"	8'	8'6"	9'	10' 7/6"	6'	6'6"	7'	7'6"	8'
400lbs.		7'	8'	8'6"	9' 5/6"	10' 6/6"	11' 6/6"	12' 7/6"	13' 8/6"	14' 9/6"	7'	7'6"	8'	8'6"	9'
500lbs.		6'	6'6"	7'	8'	9' 5/6"	10' 6/6"	11' 6/6"	12' 7/6"	13' 8/6"	8'	8'6"	9'	9'6"	10'
600lbs.		8'6"	9'6"	10'6"	11'6"	13'	14'6"	16'	17'6"	19'	8'6"	9'	9'6"	10'	10'6"
700lbs.		10'	11'	12'	13'	14'6"	16'	17'6"	19'	8'	8'6"	9'	9'6"	10'	10'6"
800lbs.						8'	8'6"	9'	9'6"	10'	10'6"	11'	11'6"	12'	12'6"
900lbs.						9'	9'6"	10'	10'6"	11'	12'	12'6"	13'	14'	15'
1000lbs.						9'6"	10'6"	11'6"	12'6"	13'6"	14'6"	15'	15'6"	16'	16'6"
1100lbs.						11'	12'	13'	14'	15'	16'				
1200lbs.						13'6"	14'6"	15'6"	16'6"						





# STAINLESS STEEL

## SLIDING DOOR HARDWARE

STAINLESS  
STEEL FOLDING  
HARDWARE ALSO  
AVAILABLE. SEE  
PAGE 82.

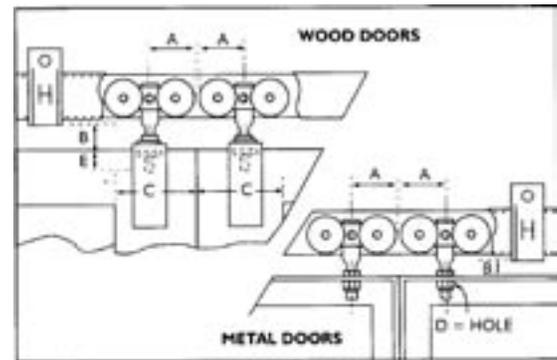


# HENDERSON

Since 1921 Henderson has been developing Sliding Gear Systems to enable almost any object to slide. Throughout the world, Henderson gear is used for a wide variety of applications.

For areas exposed to extreme levels of corrosive elements or where a high level of hygiene is essential, Henderson has developed a stainless steel range. Manufactured from high quality stainless steel and incorporating the latest polymers, this gear offers a high level of performance and corrosion resistance.

The Henderson Stainless Steel range can be used for an array of applications including chemical factories, oil rigs, abattoirs, cold storage, food processing plants and areas exposed to salt water. Whatever the conditions, Henderson Stainless Steel Gear will perform.



A = Distance from the center of the hanger to wheel

B = Vertical adjustment distance

C = Minimum door stile width

D = Diameter of holes (Steel doors)

E = Hole depth for pendant bolt

Wood Doors	Stainless Track	280	290	301
	Hangers	284N	53	53
A		1-3/16"	1-11/16"	2-11/16"
B	Min.	9/16"	7/8"	1-1/4"
	Max.	15/16"	1-1/8"	2-3/4"
C		-	4-1/2"	4-1/2"
E		13/16"	7/8"	2-3/8"

Metal Doors	Stainless Track	280	290	301
	Hangers	285N	56	56
A		1-3/16"	1-11/16"	2-11/16"
B	Min.	1/4"	3/8"	13/16"
	Max.	15/16"	1"	2-1/2"
D		5/16"	7/16"	11/16"

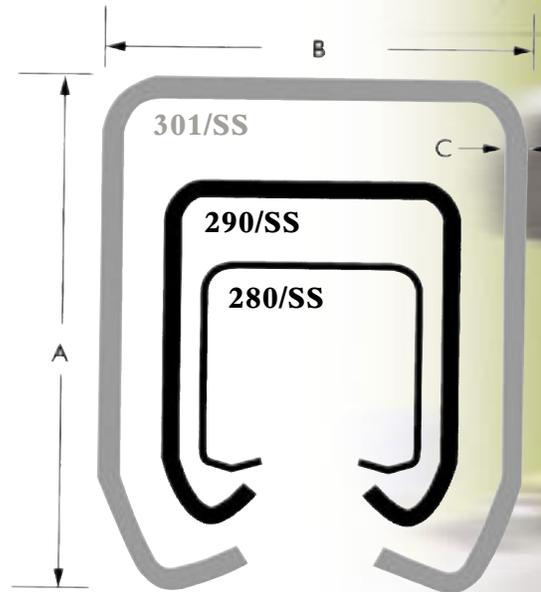
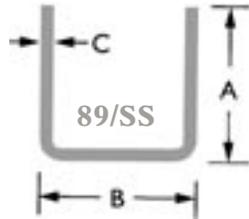
# 280/SS, 290/SS, 301/SS

## TRACK, GUIDE, CHANNEL, GUIDES

Track	Dimensions			Capacities for straight sliding doors		
	C	A	B	Max. Door weight	Max. Door height	Door thickness
280/SS	1/16	1-1/8	1-1/4	200lbs.	96	3/4 to 2"
290/SS	1/8	1-3/4	1-1/2	300lbs.	120	1-3/8 to 2"
301/SS	3/16	2-5/8	2-1/4	600lbs.	144	1-3/4 to 2-1/4"

Material: All track and channel in grade 316L (A4) stainless steel  
 Supply lengths: 2000mm (6'6") and 3000mm (9'10")

Channel	Dimensions		
	C	A	B
89/SS	1/8"	3/4"	3/4"

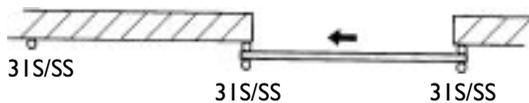
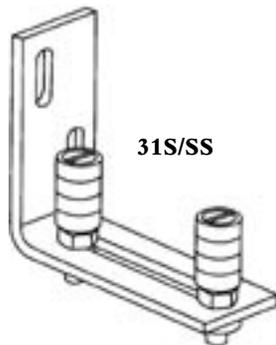


Guides and channels are essential for stability, safety and functioning of the system.

### Guide 31S/SS

Grade 316(A4) stainless steel angle with horizontal adjustable nylon guiding wheels on grade 304(A2) stainless steel bolts.

Guide 31S/SS gives unhindered access and is suitable for applications where dirt might enter the guide channel and hinder sliding.



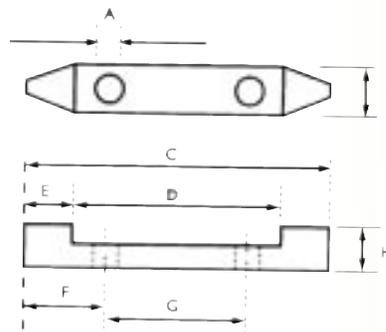
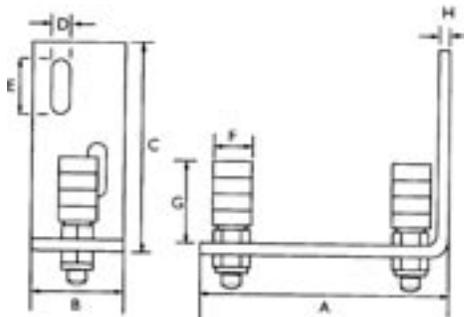
### Torpedo Guide 89/2N/SS screw-in type

Nylon guide with stainless steel fixings.

Torpedo guide in combination with 89/SS guide channel rebated in door or fixed to underside of door.



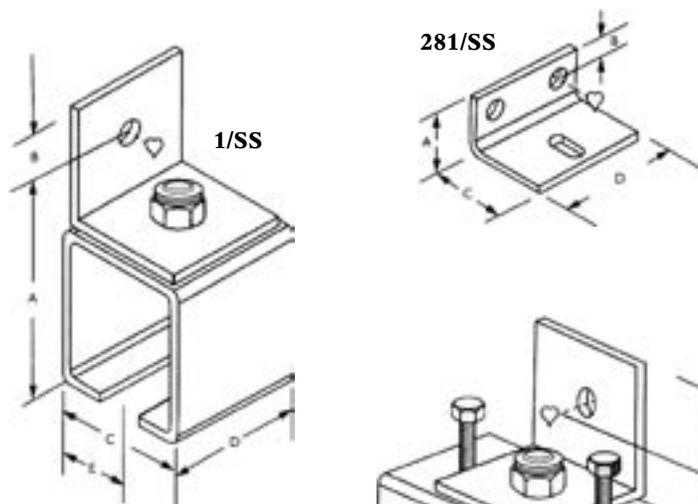
Guide	Dimensions							
	A	B	C	D	E	F	G	H
31S/SS	5-3/8"	2"	4-1/2"	3/8"	1"	7/8"	2-3/8"	1/8"
89/2N/SS	3/8"	5/8"	5-7/8"	3-1/8"	1-3/8"	1-7/8"	2-1/8"	1"



# STAINLESS STEEL BRACKETS

## SOFFIT/FACE FIXED

I/SS	Dimensions					
	A	B	C	D	E	Bolt
281/SS	3/4"	1/4"	1-1/8"	1-5/8"	-	M5
1/290/SS	3-3/8"	3/4"	2"	1-5/8"	1"	M8
1/301/SS	4-3/8"	1-1/8"	2-5/8"	2-5/8"	1-1/4"	M10

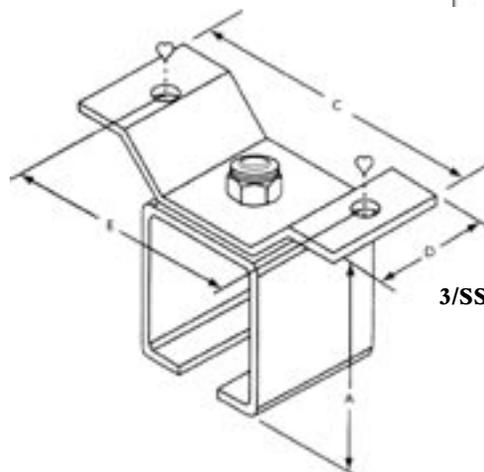


281/SS

1/SS

IX/SS	Dimensions					
	A	B	C	D	E	Bolt
1X/290/SS	3-3/8"	3/4"	2"	3-7/8"	1"	M8
1X/301/SS	4-3/8"	1-1/8"	2-5/8"	4-1/2"	1-1/4"	M10

1X/SS



3/SS

3/SS	Dimensions					
	A	B	C	D	E	Bolt
3/290/SS	2-7/8"	-	3-1/2"	1-5/8"	2-1/2"	M8
3/301/SS	3-7/8"	-	5-3/8"	2-3/8"	4-1/8"	M10

3X/SS

3X/SS	Dimensions					
	A	B	C	D	E	Bolt
3X/290/SS	2-7/8"	-	3-1/2"	1-5/8"	2-1/2"	M8
3X/301/SS	3-7/8"	-	5-3/8"	2-3/8"	4-1/8"	M10

### Brackets and center-to-center distance

The center-to-center distance of the brackets can vary depending on track length. Recommended spacing is 24" and in case of maximum load 20".

Joining brackets are required at each track joint; the letter "X" denotes the joining bracket.

It is recommended, should stainless steel brackets or track be fitted directly to a material which is not of stainless steel, that a packing be placed between the two surfaces to avoid possible contact corrosion.

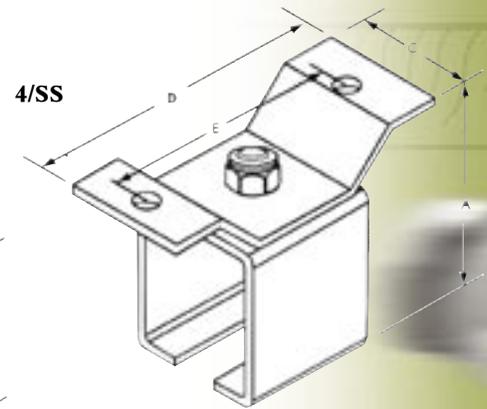
All brackets are made in grade 316(A4) stainless steel, all nuts and bolts in grade 304(A2) stainless steel.

For fixing of all stainless steel sliding door hardware stainless steel fixings must be used!

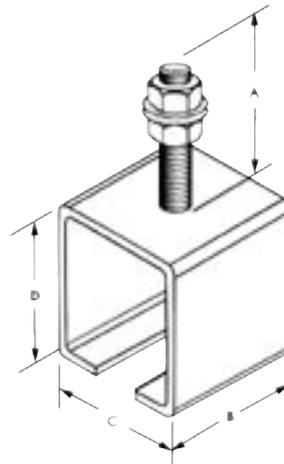
# STAINLESS STEEL BRACKETS

## SOFFIT FIXED

4/SS		Dimensions				
	A	B	C	D	E	Bolt
4/290/SS	2-7/8"	-	1-5/8"	3-1/2"	2-1/2"	M8
4/301/SS	3-7/8"	-	2-3/8"	5-3/8"	4-1/8"	M10

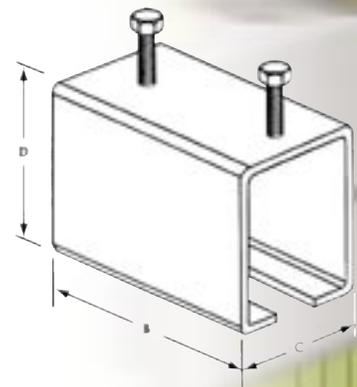


4R/SS		Dimensions				
	A	B	C	D	Bolt	
4R/280/SS	2"	2"	1-1/2"	1-1/2"	M8	
4R/290/SS	2"	1-5/8"	2"	2-1/4"	M10	
4R/301/SS	2-1/2"	2-5/8"	2-5/8"	3-1/8"	M12	



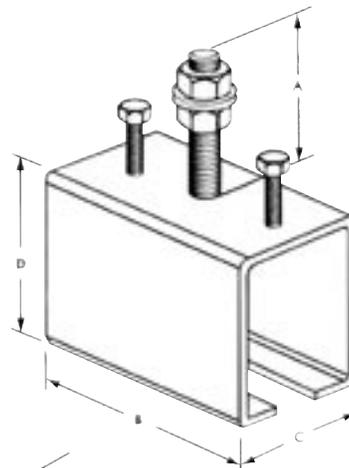
4R/SS

4X/SS		Dimensions				
	A	B	C	D	Bolt	
4X/290/SS	-	3-7/8"	2"	2-1/4"	M10	
4X/301/SS	-	4-1/2"	2-5/8"	3-1/8"	M12	



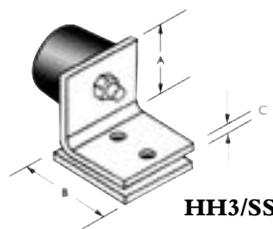
4X/SS

4RX/SS		Dimensions				
	A	B	C	D	Bolt	
4RX/280/SS	2"	2"	1-1/2"	1-1/2"	M8	
4RX/290/SS	2"	3-7/8"	2"	2-1/4"	M10	
4RX/301/SS	2-1/2"	4-1/2"	2-5/8"	3-1/8"	M12	



4RX/SS

HH3/SS		Dimensions		
	A	B	C	
HH3/290/SS	1-1/4"	1-1/4"	4"	
HH3/301/SS	1-5/8"	1-5/8"	5"	

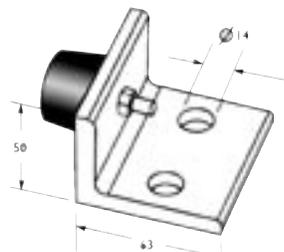


HH3/SS

### HH3/SS Stops

Stops HH3/290/SS and HH3/301/SS for fitting in 290 and 301 track. Complete with rubber stop and grade 304(A2) stainless steel hexagonal screws.

109/SS		Dimensions		
	A	B	C	
109/SS	2-1/2"	2"	1/2"	



109/SS

### 109/SS Doorstop

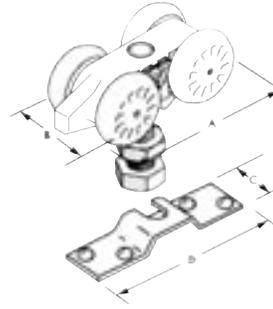
Doorstops can be fitted at ground height or on the wall of an opening. (2/3 of the door height from the ground).

# STAINLESS STEEL HANGERS

Track Type	Hanger	Dimensions					Max. Door Capacity
		A	B	C	D	Ø	
280	284N/SS	2"	1-1/8"	7/8"	3-1/8"	8	100 lbs.
280	285N/SS	2"	1-1/8"	-	-	8	100 lbs.
280	284/SS	2-1/2"	-	7/8"	3-1/8"	8	200 lbs.
280	285/SS	2-1/2"	1-1/8"	-	-	8	200 lbs.

Hanger body and wheels of high-performance nylon. All metal components in grade 304(A2) stainless steel.

N.B. Maximum door capacity means the maximum weight of each door carried by two hangers.



284N/SS for wood doors - 100 lbs.  
 284/SS for wood doors - 200 lbs.  
 285N/SS for metal doors - 100 lbs.  
 285/SS for metal doors - 200 lbs.

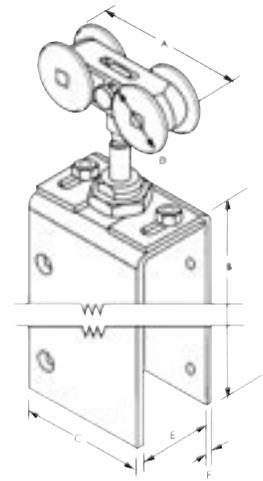
Track Type	Hanger	Dimensions						Max. Door Capacity
		A	B	C	D	E	F	
290	53/290/SS	3-3/8"	7-1/8"	3"	1-1/2"	1-3/4"-2-1/4"	1/8"	300 lbs.
301	53/301/SS	5-3/8"	7-1/8"	3"	1-7/8"	1-3/4"-2-1/4"	1/8"	600 lbs.

53/290/SS Hanger body of high-performance nylon. All other components in grade 304(A2) stainless steel.

53/301/SS Complete in grade 304(A2) stainless steel.

N.B. Maximum door capacity means the maximum weight of each door carried by two hangers.

53/SS for wood doors

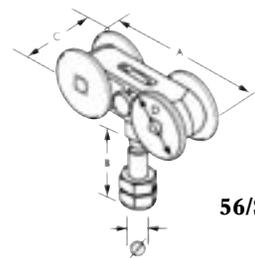


Track Type	Hanger	Dimensions					Max. Door Capacity
		A	B	C	D	Ø	
290	56/290/SS	3-3/8"	1-5/8"	1-1/8"	1-1/2"	M10	300 lbs.
301	56/301/SS	5-3/8"	3-1/8"	1-3/4"	2"	M16	600 lbs.

56/290/SS Hanger body of high-performance nylon. All other components in grade 304(A2) stainless steel.

56/301/SS Complete in grade 304(A2) stainless steel.

N.B. Maximum door capacity means the maximum weight of each door carried by two hangers.



56/SS for metal doors

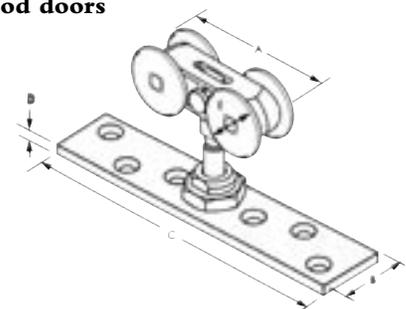
Track Type	Hanger	Dimensions					Max. Door Capacity
		A	B	C	D	E	
290	57/290/SS	3-3/8"	1-1/2"	7-3/8"	1/8"	1-1/2"	300 lbs.
301	57/301/SS	5-3/8"	1-1/2"	7-3/8"	1/8"	2"	600 lbs.

57/290/SS Hanger body of high-performance nylon. All other components in grade 304(A2) stainless steel.

57/301/SS Complete in grade 304(A2) stainless steel.

N.B. Maximum door capacity means the maximum weight of each door carried by two hangers.

57/SS for wood doors



# 280/SS

## STAINLESS STEEL HARDWARE FOR TOP-HUNG WOOD OR METAL STRAIGHT SLIDING DOORS

### CAPACITY

Max. door weight: 100 LBS. OR 200 LBS.

Max. door height: 96"

Door thickness: 3/4" to 2"

### APPLICATIONS

For sliding doors or gates in abattoirs, oil rigs, boats, chemical plants.

### TECHNICAL INFORMATION

**280/SS Track:** Grade 316L(A4) stainless steel provided with 1/4" punched holes for direct soffit fixing.

**Hangers:** 284N/SS and 285N/SS nylon body, nylon wheels, axles, fixing plate, bolt and nuts in grade 304(A2) stainless steel. Max. 100 lbs. per two hangers.

**Hangers:** 284N/SS and 285N/SS nylon body, nylon wheels, axles, fixing plate, bolt and nuts in grade 304(A2) stainless steel. Max. 200 lbs. per two hangers.

**Guide:** 102N nylon guide

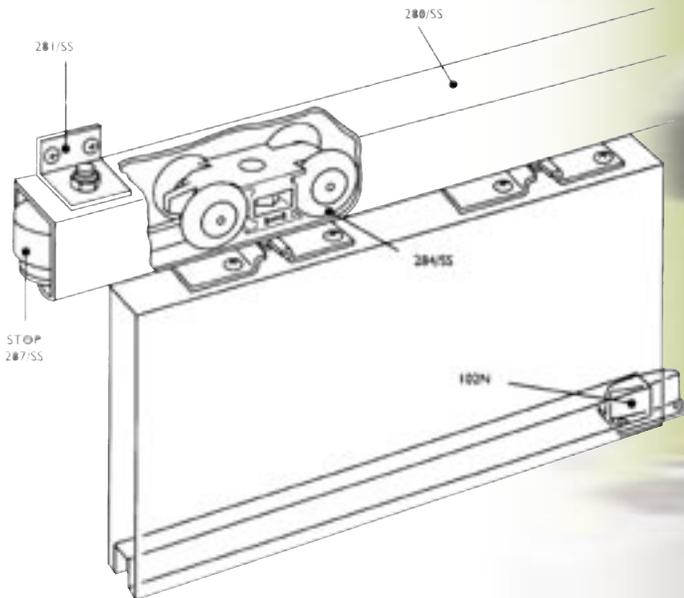
**Guide:** 89/2N/SS nylon guide used in conjunction with stainless steel channel 89/SS.

**Guide Channel:** 89/SS Grade 316L(A4) stainless steel.

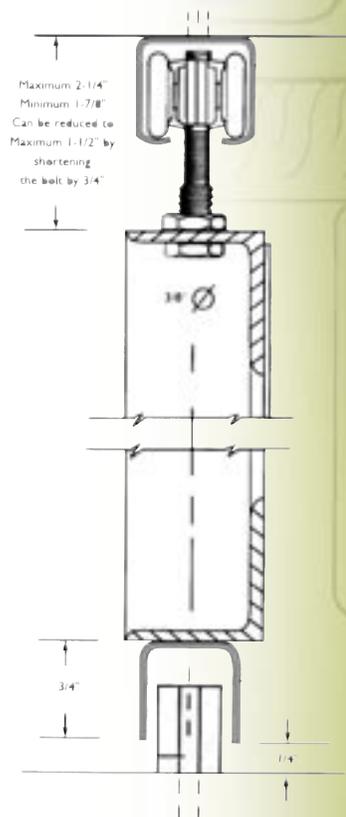
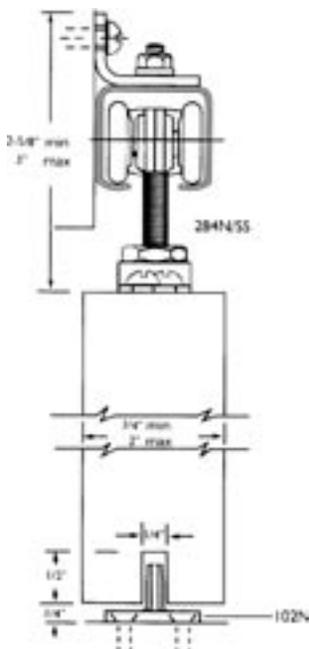
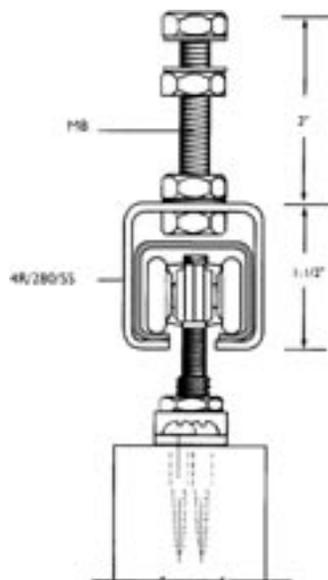
**Face bracket:** 281/SS face fixed in grade 316L(A4) stainless steel.

**Face bracket:** 4R/280/SS soffit fixed in grade 316L(A4) stainless steel.

**Stop:** 287/SS rubber stop with stainless steel plate and bolt.

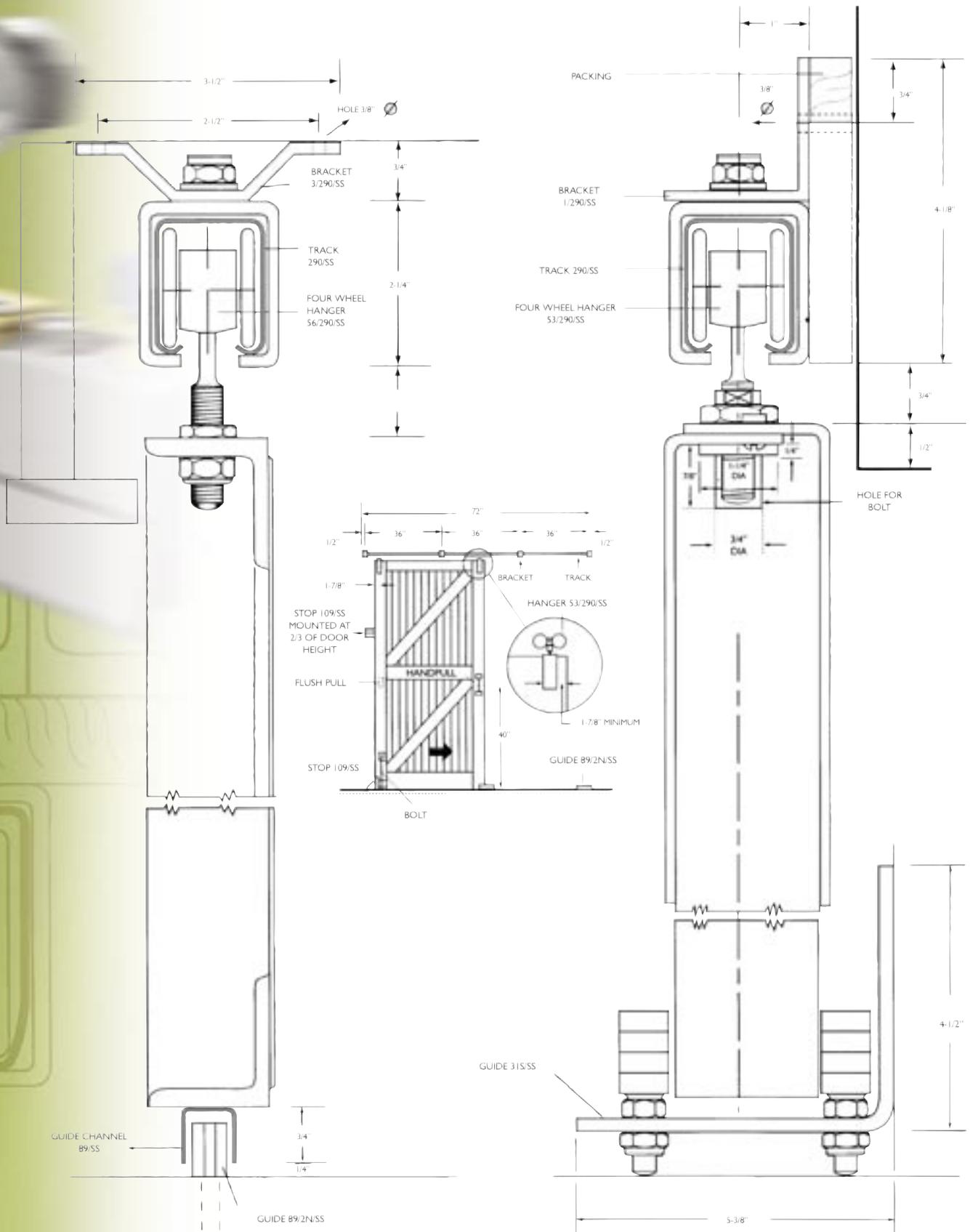


\*Track, brackets and hangers in stainless steel cannot be used with the standard Henderson non-stainless 280 range.



# 290/SS

## STAINLESS STEEL HARDWARE FOR STRAIGHT SLIDING DOORS



# 290/SS

## STAINLESS STEEL HARDWARE FOR TOP-HUNG WOOD OR METAL STRAIGHT SLIDING DOORS

### CAPACITY

Max. door weight: 300 LBS.  
Max. door height: 120"  
Door thickness: 1-3/8" to 2"

### APPLICATIONS

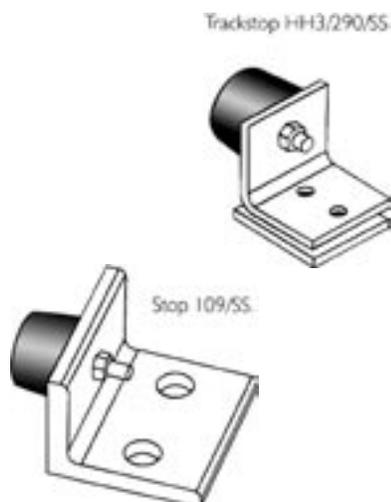
For lightweight doors in abattoirs, boats, oil rigs, food industry, chemical plants etc.

### DOOR TYPES

Wood doors, either solid or glazed, for industrial use require a strong, solid frame. Metal doors can be of angle or box section.

### TECHNICAL INFORMATION

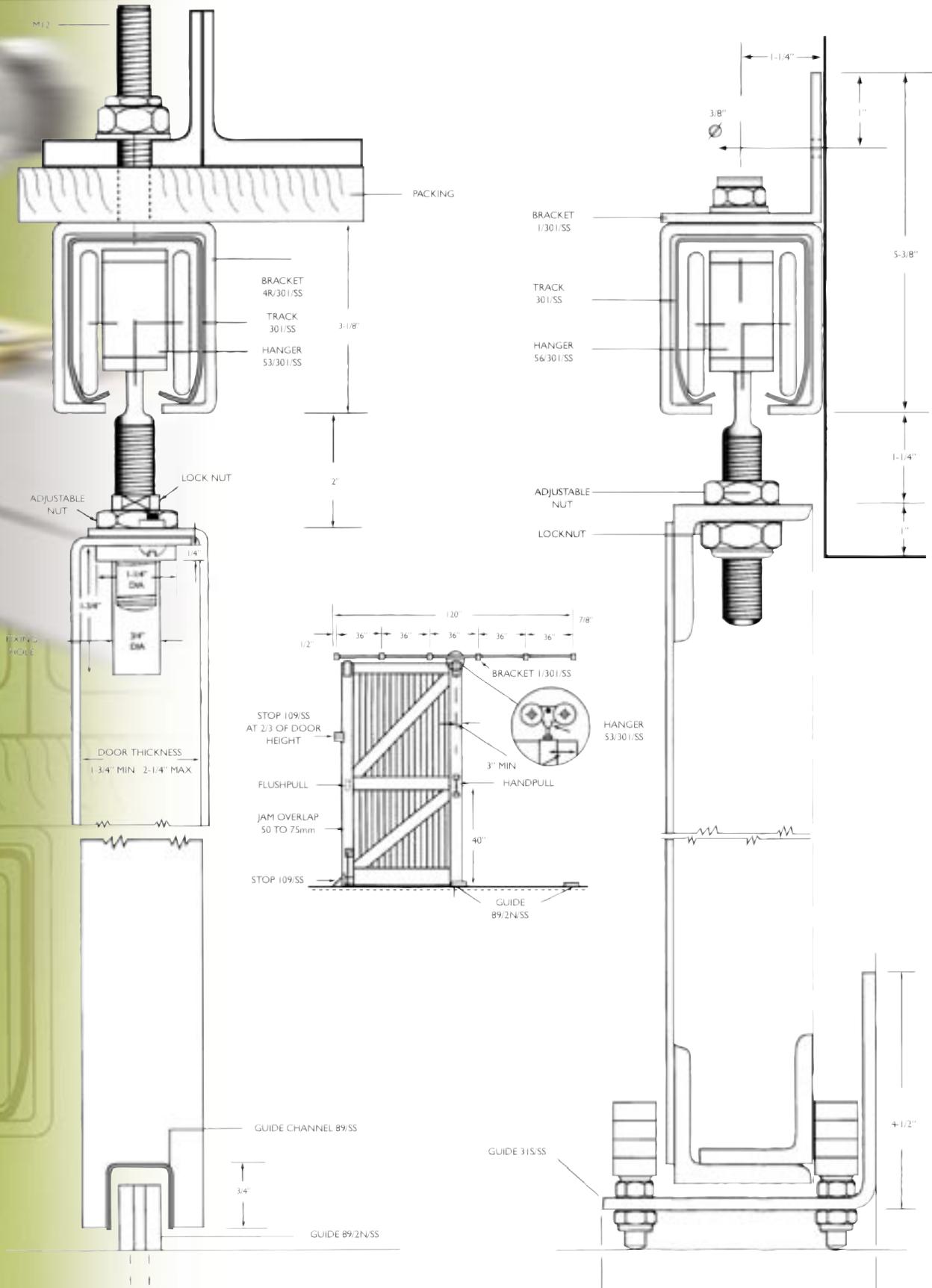
- Track:** 290/SS made from 1/8" thick grade 316L(A4) stainless steel, available in 72" and 96" lengths.
- Brackets:** 1/290/SS in grade 316L(A4) stainless steel for face-fixing or 3/290/SS for soffit mounting. The center-to-center distance of the brackets can vary depending on track length. Recommended spacing is 36" and in case of maximum load 24".
- Hangers and guides:** Hangers 53/290/SS, 57/290/SS and guides 89/2N/SS and 31S/SS are for wood doors. Hangers 56/290/SS with guides 89/2N/SS and 31S/SS are for metal doors. Standard hangers are supplied with a nylon body and grade 304(A2) stainless steel wheels.
- Accessories:** Trackstop HH3/290/SS.



\* Track, brackets and hangers in stainless steel cannot be used with the standard Henderson non-stainless 290 range.

# 301/SS

## STAINLESS STEEL HARDWARE FOR STRAIGHT SLIDING DOORS



# 301/SS

## STAINLESS STEEL HARDWARE FOR TOP-HUNG WOOD OR METAL STRAIGHT SLIDING DOORS

### CAPACITY

Max. door weight: 600 LBS.

Max. door height: 144"

Door thickness: 1-11/16" to 2-1/4"

### APPLICATIONS

For heavy doors or gates in abattoirs, boats, oil rigs etc.  
Most straight sliding doors can be accommodated.

### DOOR TYPES

Wood doors, either solid or glazed, for industrial use require a strong, solid frame. Metal doors can be of angle or box section.

### TECHNICAL INFORMATION

**Track:** 301/SS made from 3/16" thick grade 316L(A4) stainless steel, available in 72" and 96" lengths.

**Brackets:** 1/301/SS in grade 316L(A4) stainless steel is the most popular for face-fixing. The center-to-center distance of the brackets can vary depending on track length. Recommended spacing is 36" and in case of maximum load 24".

**Hangers and guides:** Hangers 53/301/SS, 57/301/SS and guides 89/2N/SS and 31S/SS are for industrial wood doors. Hangers 56/301/SS with guides 89/2N/SS and 31S/SS are for metal doors. Hangers are supplied with a stainless steel body, wheels and bearings.

Trackstop HH3/301/SS



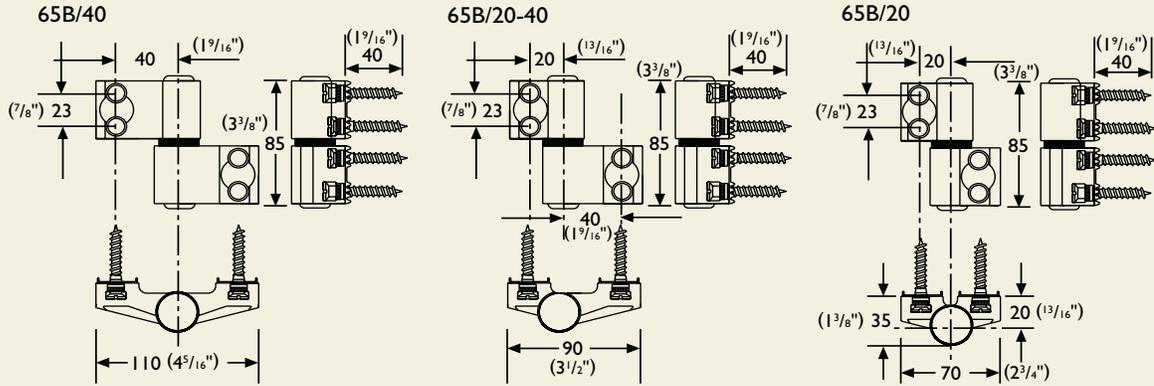
Stop 109/SS



\* Track, brackets and hangers in stainless steel cannot be used with the standard Henderson non-stainless 301/301H range.

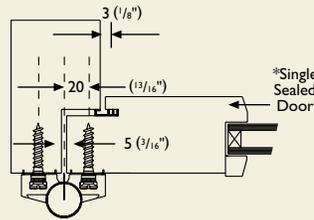
# COMPONENTS

## HINGES

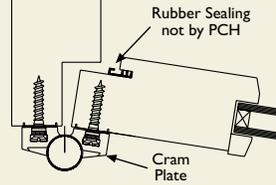


## HINGE INSTALLATION

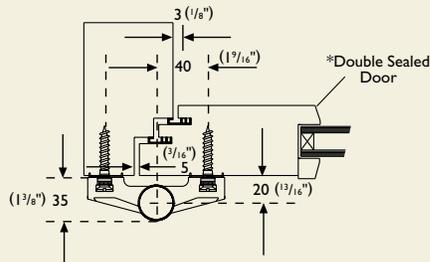
Standard Fixing to Post (Flush) Hinge 65B/20



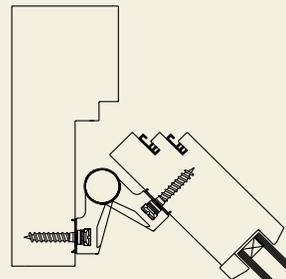
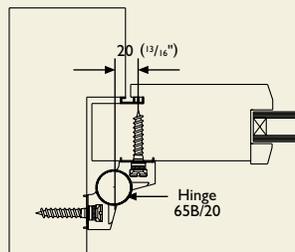
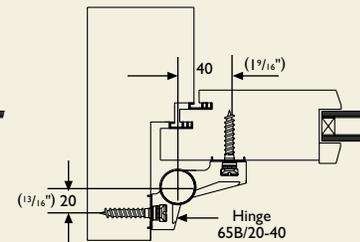
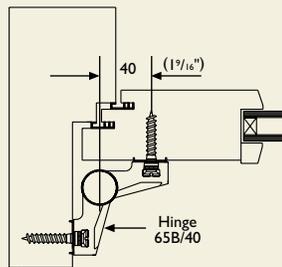
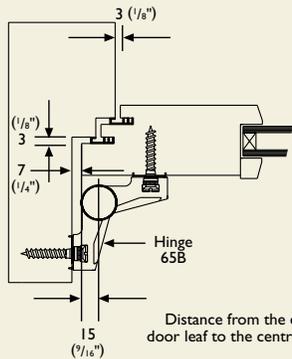
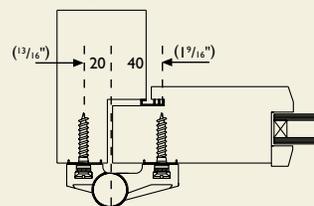
Door Just Folding



Standard Fixing to Post (Flush) Hinge 65B/40

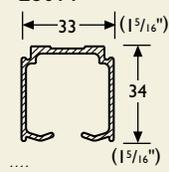


Standard Fixing to Post (Flush) Hinge 65B/20-40

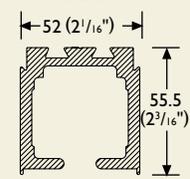


# TRACK, INTERSECTS AND CURVES

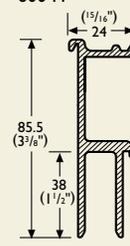
## Husky 280 A



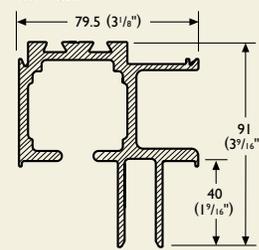
## Pacer 600 Track



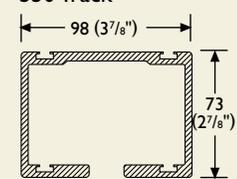
## Pacer 600 FP



## Pacer 600 CFP

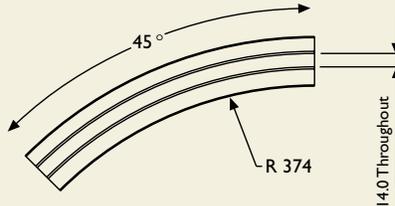


## Flexirol 550 Track

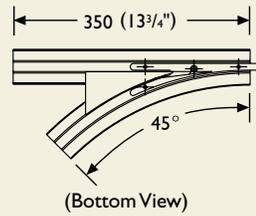


## PACER CURVES/INTERSECTS (Bottom Views)

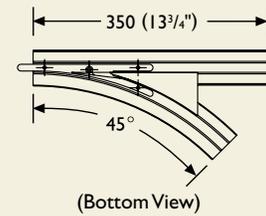
### Pacer Curve 600 C



### Pacer Switch 45R/600

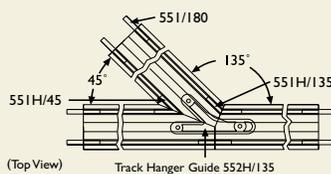


### Pacer Switch 45L/600

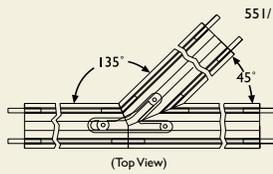


## FLEXIROL 556 JUNCTIONS/INTERSECTS (Top Views)

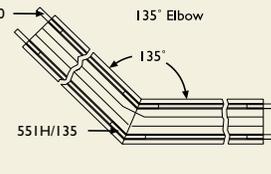
### 45R/550



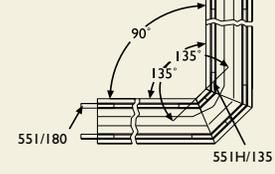
### 45L/550



### H135/550

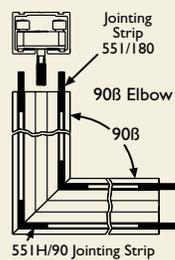


### H90C/550

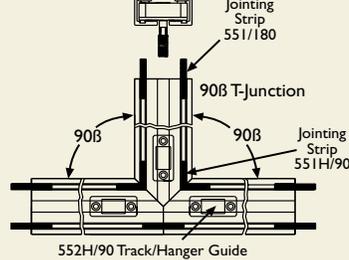


## FLEXIROL 555 JUNCTIONS/INTERSECTS

### H90/550



### TW/550

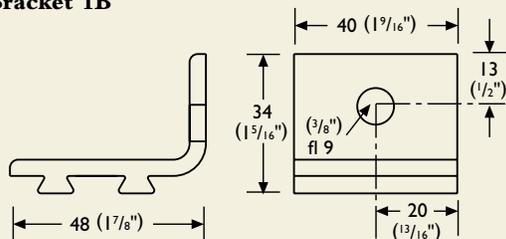


Pacer track supplied in mill finish as standard. Flexirol track supplied in mill finish and RAL 9010 as standard.

# BRACKETS

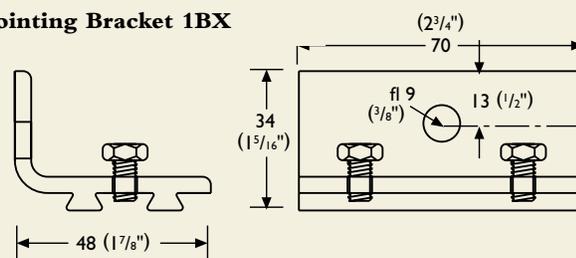
## Pacer

### Bracket 1B



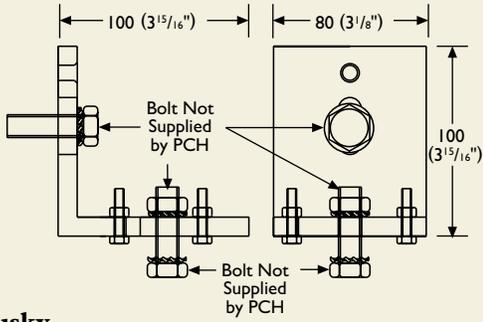
## Pacer

### Jointing Bracket 1BX

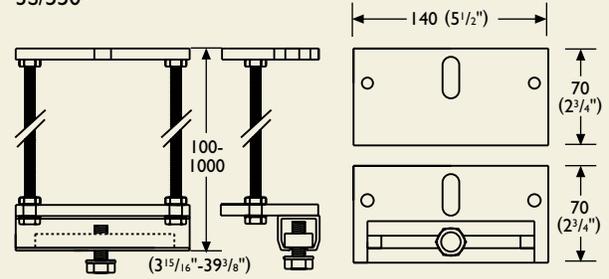


# BRACKETS

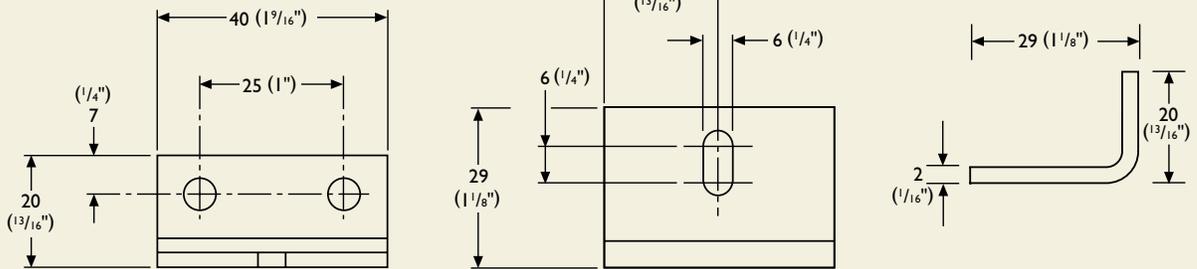
**Flexirol**  
1A/550



**Flexirol**  
3S/550



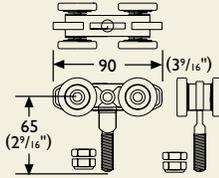
**Husky**  
Face Fix Bracket 28I



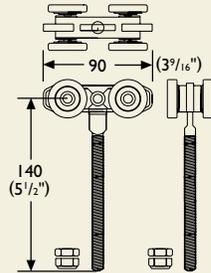
# HANGERS

## PACER HANGERS

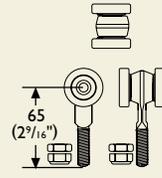
56B



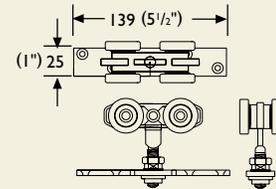
56BX



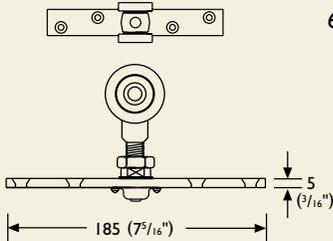
56<sup>1</sup>/<sub>2</sub>B



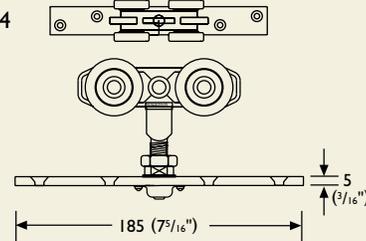
57B



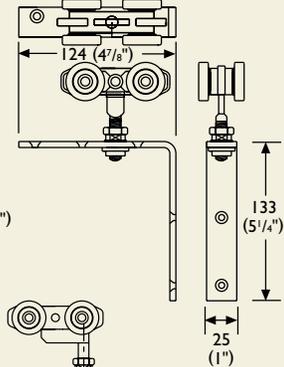
61B



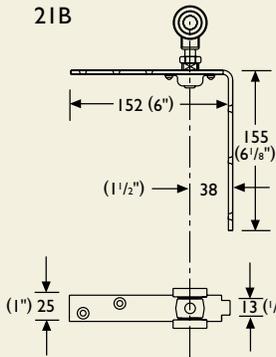
61B/4



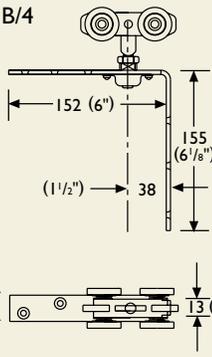
52B



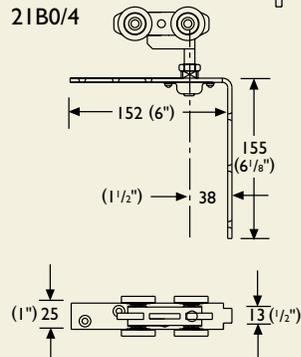
21B



21B/4

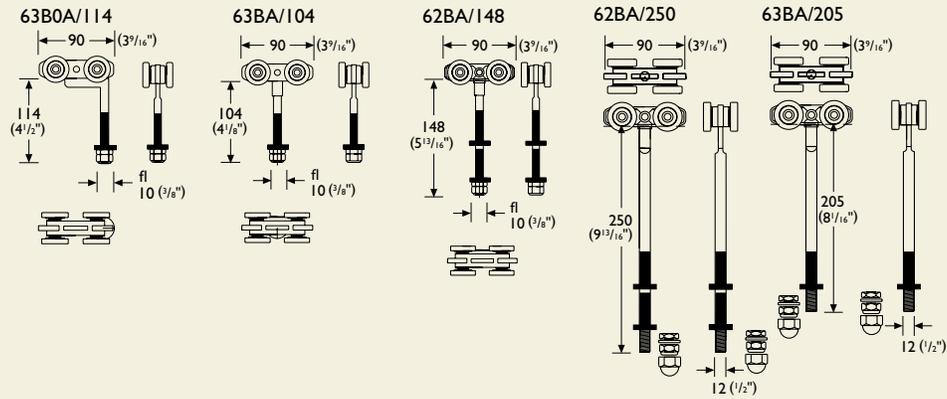


21B0/4

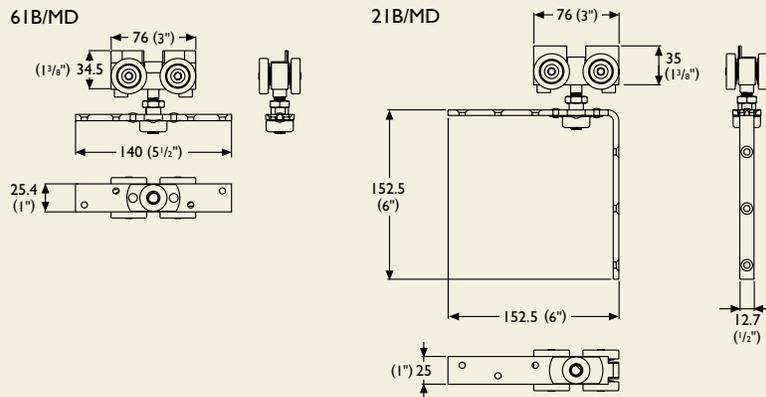


# HANGERS

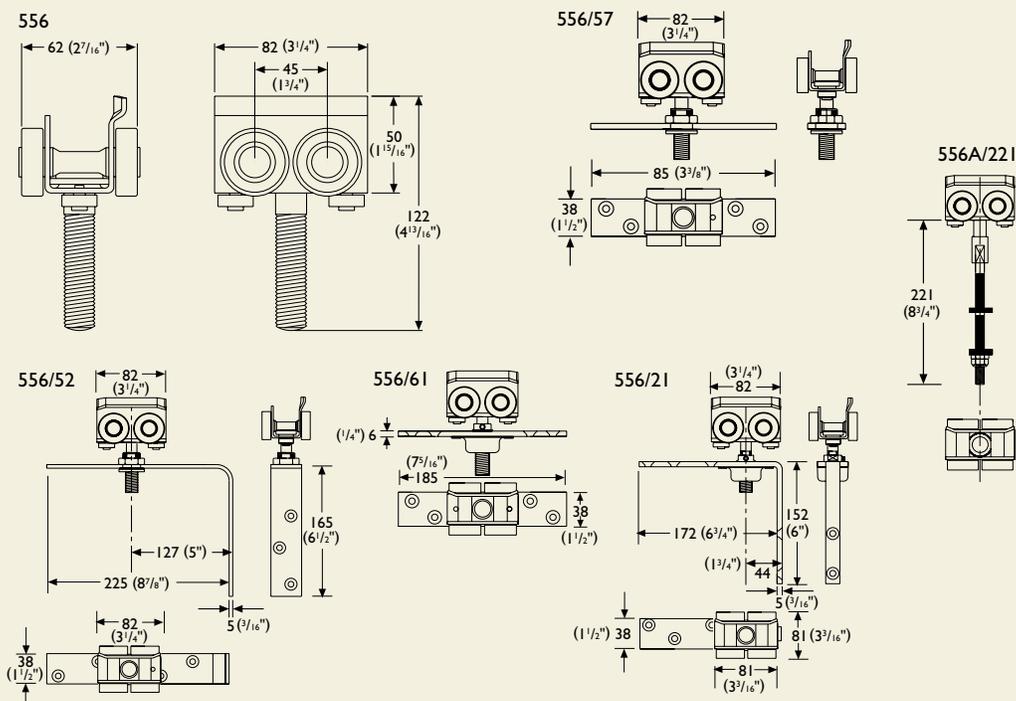
## PACER HANGERS



## PACER MULTIDIRECTIONAL HANGERS

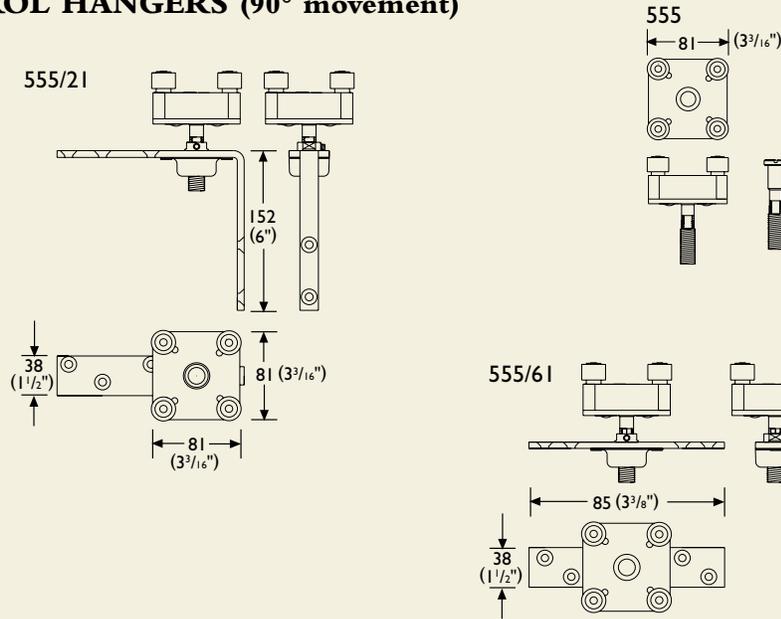


## FLEXIROL HANGERS (135° movement)

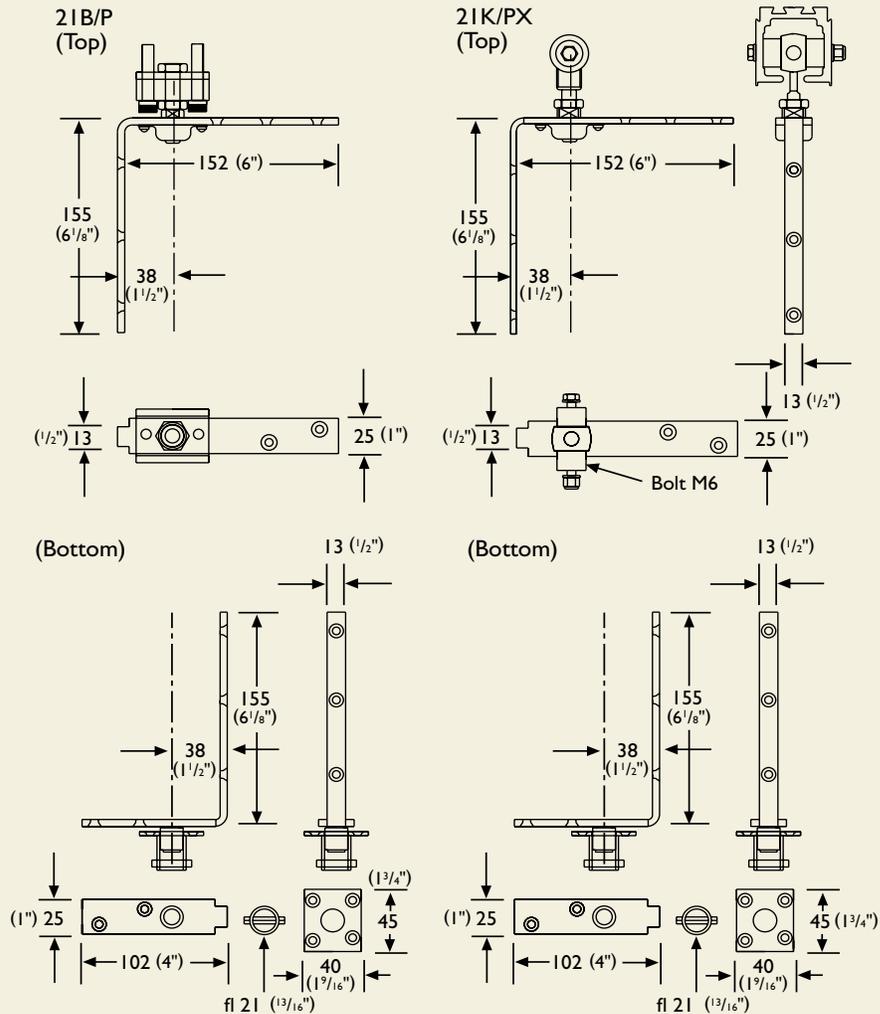


# HANGERS

## FLEXIROL HANGERS (90° movement)

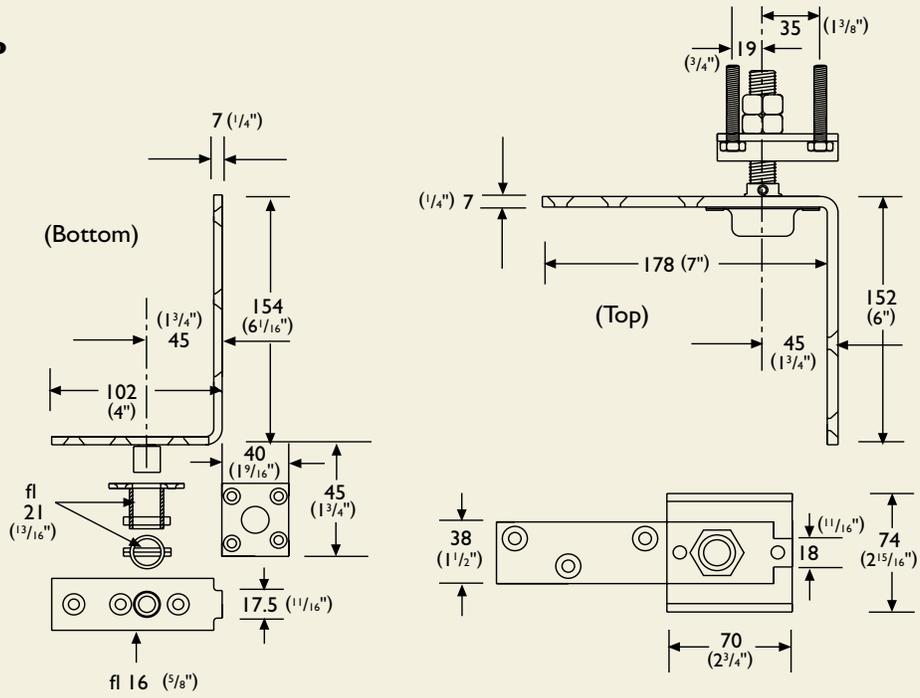


# PIVOT SETS

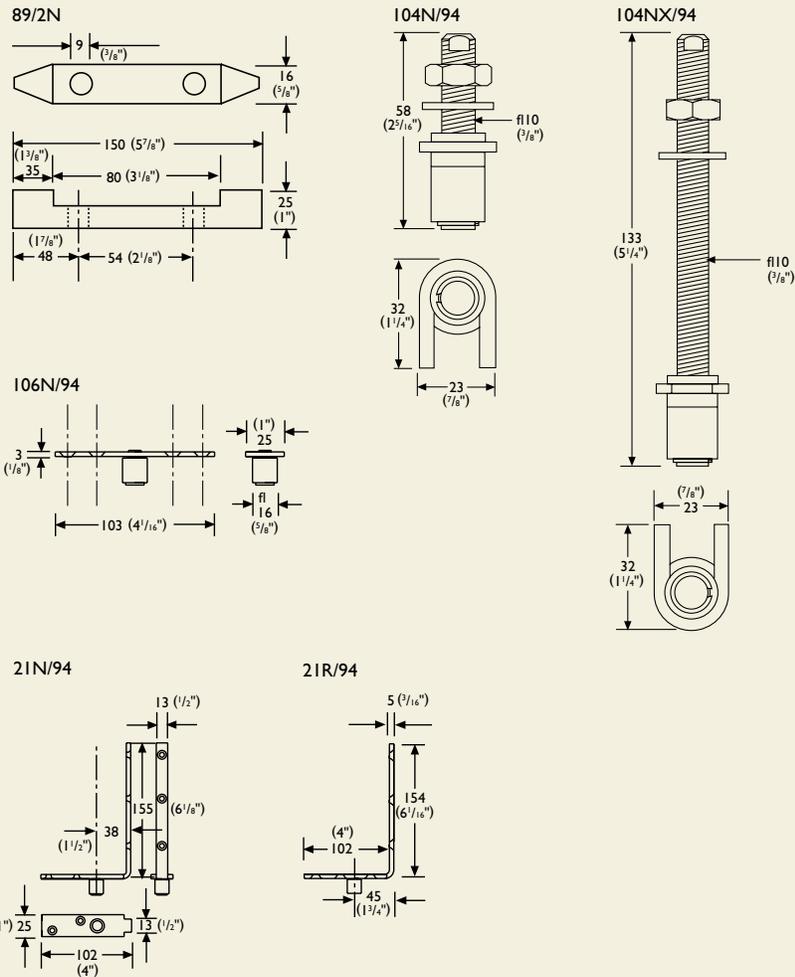


# PIVOT SETS

## 21/550P

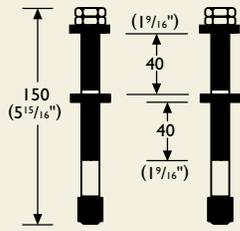


# GUIDES

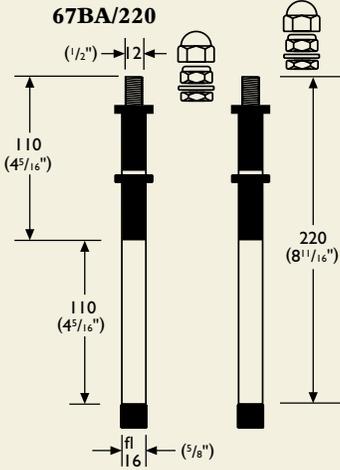


# GUIDES

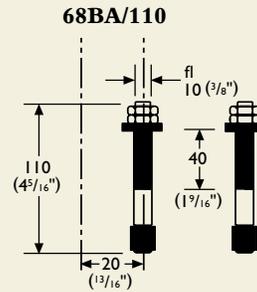
**67BA/150**



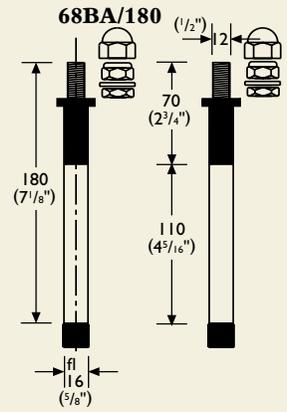
**67BA/220**



**68BA/110**



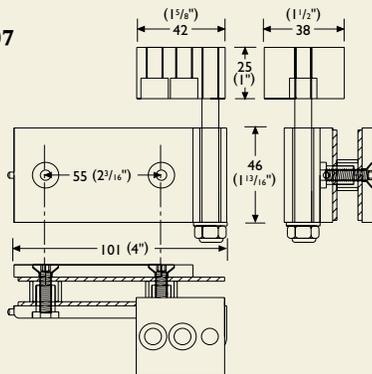
**68BA/180**



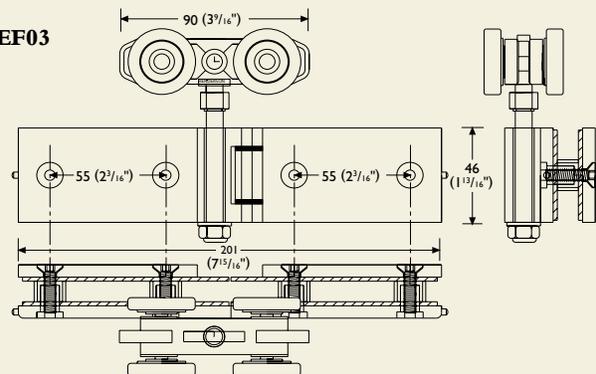
# GLASS FITTINGS

## PACER ENDFOLD

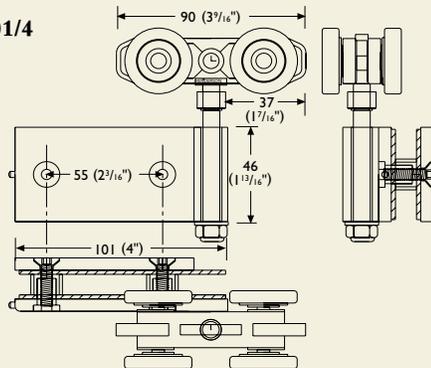
**EF07**



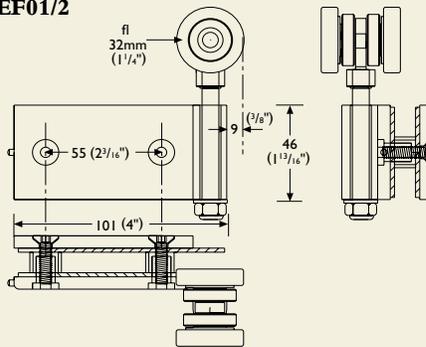
**EF03**



**EF01/4**

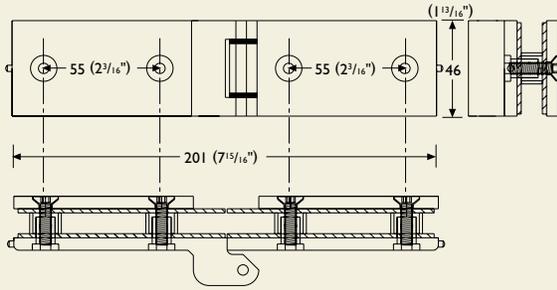


**EF01/2**

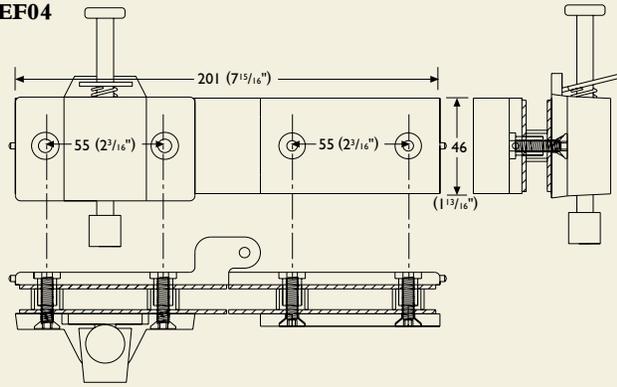


# GLASS FITTINGS

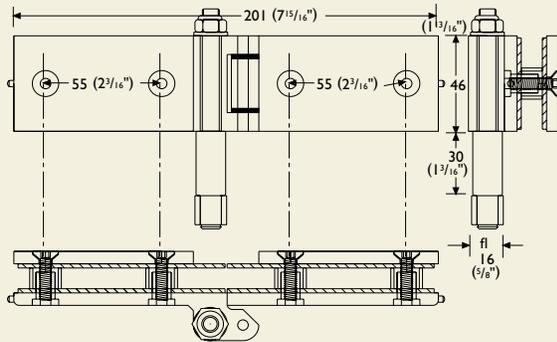
**EF05**



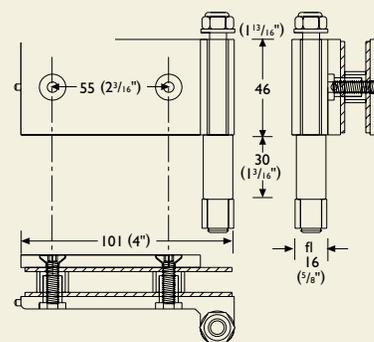
**EF04**



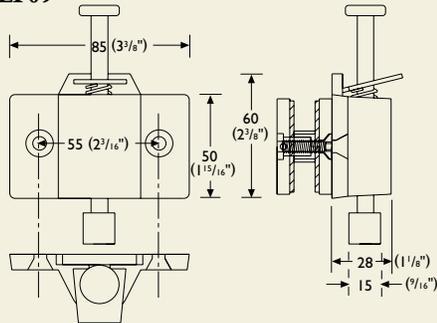
**EF06**



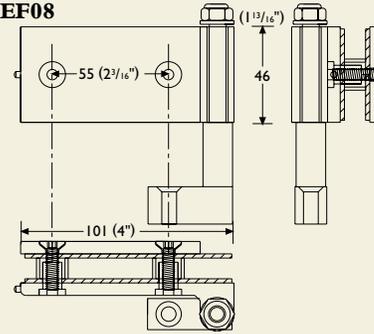
**EF02**



**Loose Bolt  
EF09**



**EF08**

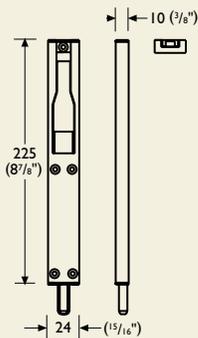


† Standard hinge finishes: White (RAL 9010), Polished Anodized, Silver Anodized and Black Anodized.

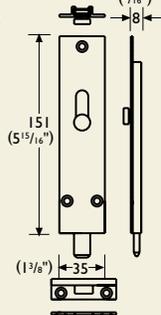
For glass cutting dimensions contact Henderson.

# ACCESSORIES AND STOPS

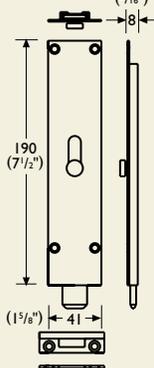
**F3715**



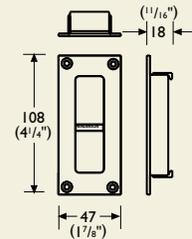
**333**



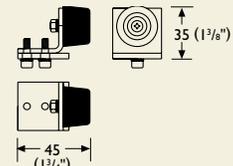
**454**



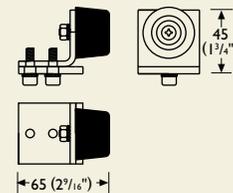
**400**



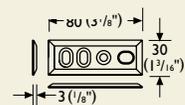
**Pacer  
HH3/290**



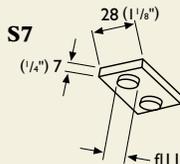
**Flexirol  
HH3/301**



**F3734**



**S7**



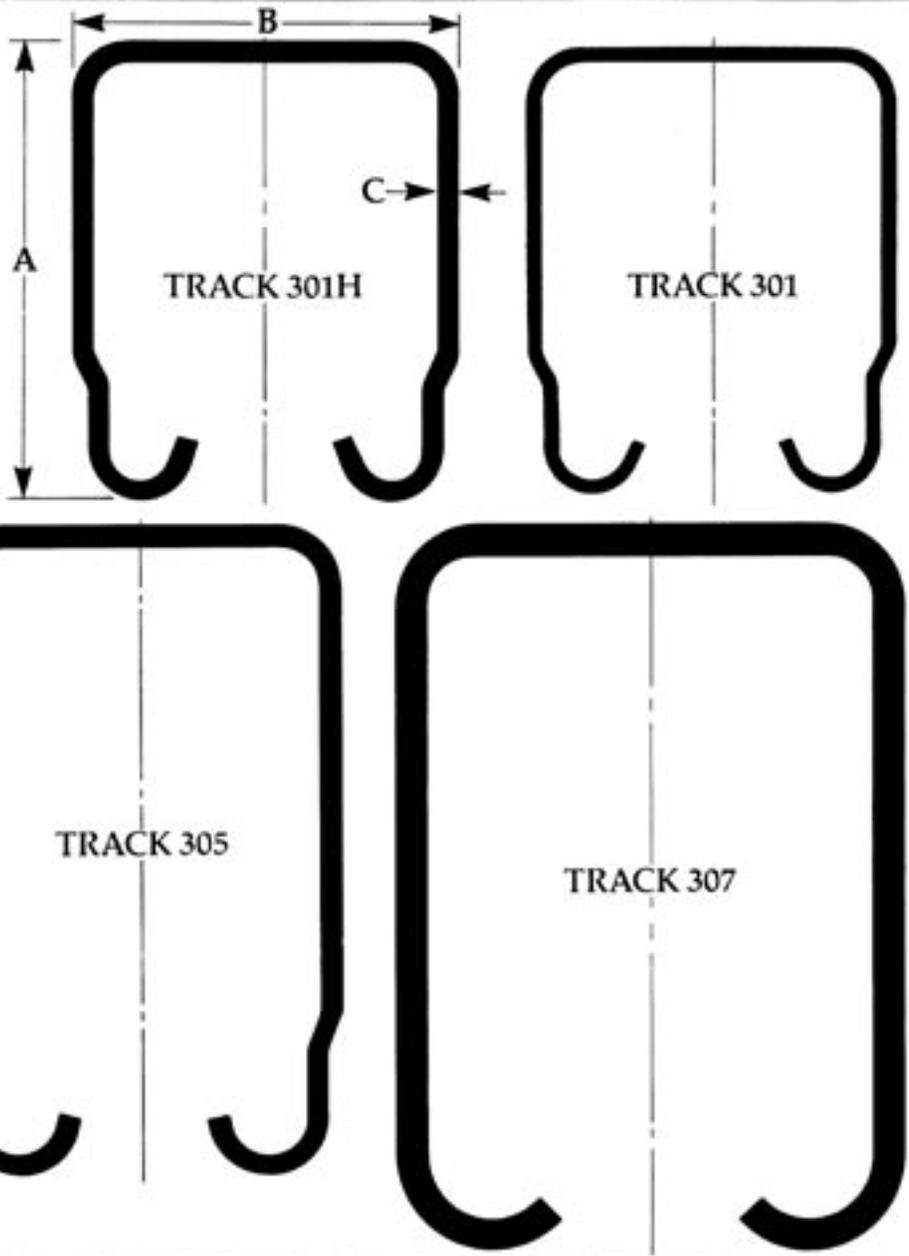
# TRACK & CHANNEL

All tracks are in galvanized finish. Once installed they should be kept greased, to reduce wear and increase life. Any length of track is obtained by butting 2 pieces of track together and fixing a bracket at the joint, and closed brackets at each end.

Available lengths:

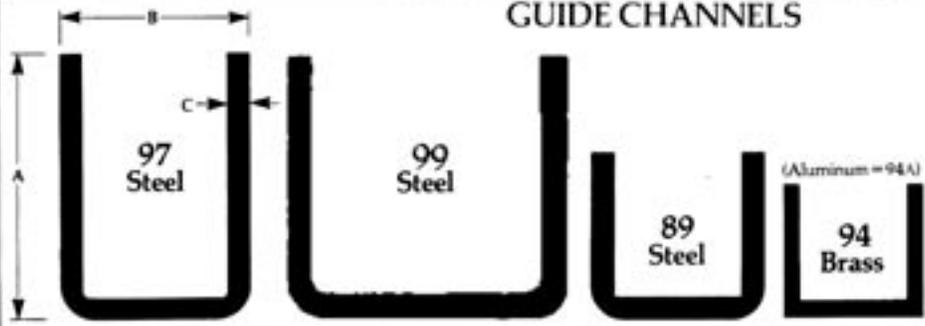
(ft)	280	290	301	301H	305	307
6	•	•	•	•	•	•
8	•	•	•	•	•	•
10	•	•	•	•	•	•
12	•	•				
20		•				

(ins)	280	290	301	301H	305	307
A	1 <sup>1</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>11</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>32</sub>
B	1 <sup>3</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>8</sub>
C	18G	14G	14G	12G	12G	6G



FULL SIZE SECTIONS

## GUIDE CHANNELS



Available lengths 89, 94A, 97, 99:  
1.5/2/2.5/3 meter  
Available lengths 94:  
1.5 meter & 3 meter

(ins)	89	94	97	99
A	1	3/4	1 1/2	1 1/2
B	1	9/16	1 1/16	1 9/16
C	12G	17G	12G	12G

All dimensions in feet and inches.

# TRACK BRACKETS

All brackets are aluminum alloy die castings except where otherwise indicated.

\* Pressed steel brackets in painted finish.

• Pressed steel brackets – galvanized.

Fit closed brackets at track ends, or fit end-clips 1A/301 EC (for alloy brackets) or 1/301 EC (for steel brackets) in the case of all 301 track brackets. Joining brackets are only required at track curve ends. Maximum bracket spacing is every 3 ft.

## BRACKETS – SIDEWALL



No. 1 or 1A

Fig no.	A	B	C	D	E	Bolt
• 281	1 <sup>3</sup> / <sub>8</sub>	1/4	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>16</sub>	8G screw
• 1A/290	2 <sup>5</sup> / <sub>8</sub>	1/2	2	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
• 1/290/S	3	1/2	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
• 1A/301	3 <sup>3</sup> / <sub>16</sub>	3/4	2 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	1/2
• 1/301/S	3 <sup>5</sup> / <sub>16</sub>	3/8	2 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>8</sub>	1/2
• 1A/305	5 <sup>1</sup> / <sub>2</sub>	1	3 <sup>3</sup> / <sub>8</sub>	3	1 <sup>1</sup> / <sub>2</sub>	3/8
* 1/307/S	6 <sup>1</sup> / <sub>4</sub>	1	3 <sup>3</sup> / <sub>8</sub>	3	1 <sup>5</sup> / <sub>8</sub>	3/8



End Clip 1/301 EC (for steel brackets)



End Clip 1A/301 EC (for alloy brackets)



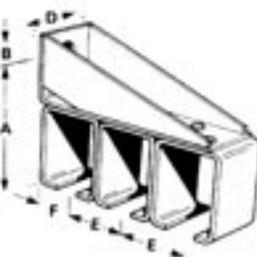
No. 9 or 9A

Fig no.	A	B	C	D	E	Bolt
• 9A/290	1 <sup>11</sup> / <sub>16</sub>	5/8	2 <sup>3</sup> / <sub>4</sub>	5/8	2	14G screw
* 9/301/S	2 <sup>9</sup> / <sub>16</sub>	5/32	4 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	18G screw
* 9A/305	3 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	1/2
* 9/307/S	3 <sup>3</sup> / <sub>16</sub>	2	7 <sup>1</sup> / <sub>4</sub>	2 <sup>23</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>	3/8



No. 5

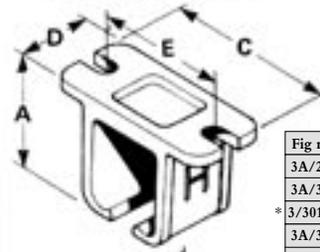
Fig no.	A	B	D	E	F	Bolt
• 5/290	3 <sup>1</sup> / <sub>8</sub>	3/16	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	1/2
• 5/301	4 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	3/8
• 5/305	6 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	3	3 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	3/4
* 5/307/S	7 <sup>1</sup> / <sub>2</sub>	1	4	3 <sup>3</sup> / <sub>8</sub>	1 <sup>25</sup> / <sub>32</sub>	3/4



No. 7

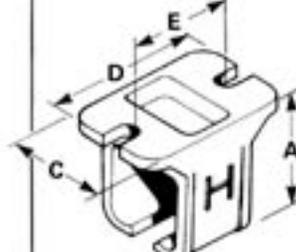
Fig no.	A	B	D	E	F	Bolt
* 7/301/S	4 <sup>9</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	3/8

## BRACKETS – OVERHEAD



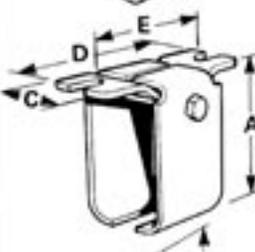
No. 3 or 3A

Fig no.	A	B	C	D	E	Bolt
• 3A/290	2 <sup>7</sup> / <sub>8</sub>	-	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	5/16
• 3A/301	3 <sup>3</sup> / <sub>8</sub>	-	5 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	1/2
* 3/301/S	3 <sup>5</sup> / <sub>8</sub>	-	5 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>16</sub>	1/2
* 3A/305	4 <sup>1</sup> / <sub>2</sub>	-	6 <sup>5</sup> / <sub>8</sub>	3	4 <sup>5</sup> / <sub>16</sub>	5/8
* 3/307/S	6 <sup>7</sup> / <sub>32</sub>	-	7 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5/8



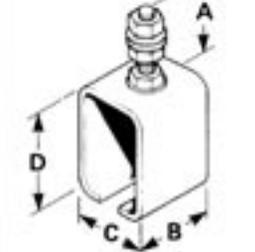
No. 4 or 4A

Fig no.	A	B	C	D	E	Bolt
• 4A/290	2 <sup>5</sup> / <sub>8</sub>	-	1 <sup>7</sup> / <sub>8</sub>	3	2 <sup>3</sup> / <sub>8</sub>	5/16
• 4A/301	3 <sup>3</sup> / <sub>4</sub>	-	3	4 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1/2
• 4A/305	5 <sup>3</sup> / <sub>8</sub>	-	3 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>8</sub>	5/8
* 4/307/S	6 <sup>1</sup> / <sub>4</sub>	-	3 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	5/8



No. 4/301S

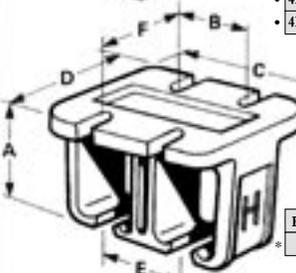
Fig no.	A	B	C	D	E	Bolt
* 4/301S	3 <sup>11</sup> / <sub>16</sub>	-	1 <sup>3</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1/2



No. 4R

Fig no.	A	B	C	D	Bolt
• 4R/280S	1 <sup>5</sup> / <sub>16</sub>	2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	3/8
• 4R/290/S	1 <sup>11</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>16</sub>	3/8
• 4R/301/S	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	1/2
• 4R/305/S	2 <sup>1</sup> / <sub>16</sub>	3	2 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>32</sub>	5/8
• 4R/307/S	2 <sup>1</sup> / <sub>16</sub>	3	3 <sup>3</sup> / <sub>16</sub>	4 <sup>9</sup> / <sub>32</sub>	3/4

\* 4R Bracket body without bolt (suffix 5R) is also available for welding track to steel structure eg 4R/301 5R.



No. 6

Fig no.	A	B&E	C	D	F	Bolt
* 6/301	3 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	6	5	3 <sup>5</sup> / <sub>8</sub>	3/8



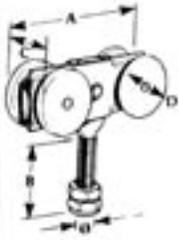
No. 8

Fig no.	A	B	C	D	E	F	Bolt
* 8/301/S	3 <sup>3</sup> / <sub>8</sub>	5	7	4 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	1/2

# HANGERS

/N = Nylon wheels /S = Steel wheels  
 Nylon wheels are quieter and avoid the need to grease track to reduce wear. Hence their carrying capacity is greater. For automatic doors halve the carrying capacity and use nylon wheels if possible.

## No. 56 METAL DOORS



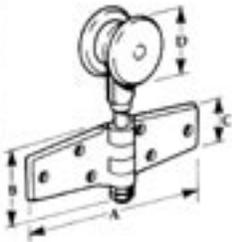
Track no.	Hanger no.	Dimensions					Door Weight Capacity
		A	B	C	D	H	
290	56K/N	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>32</sub>	300 lbs.
	56K/S						300 lbs.
	56K/S/200						400 lbs.
301	56A/S	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	600 lbs.
301H	56A/S	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	800 lbs.
301H	56A/S	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	1000 lbs.
305	56C/S	6 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	3	5 <sup>5</sup> / <sub>8</sub>	1500 lbs.
307	56F/S	8 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	2500 lbs.
307	56FJ/S	8 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	4400 lbs.

## No. 53 WOOD DOORS



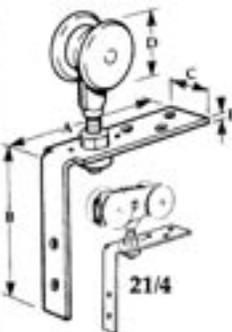
Track no.	Hanger no.	Dimensions					Door Weight Capacity
		A	B	C	D	E	
290	53K/N	3 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub> -1 <sup>1</sup> / <sub>4</sub>	300 lbs.
	53K/S						300 lbs.
	53K/S/200						400 lbs.
301	53A/S	5 <sup>5</sup> / <sub>8</sub>	7	3	2 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub> -2 <sup>1</sup> / <sub>4</sub>	600 lbs.
301H	53A/S	5 <sup>5</sup> / <sub>8</sub>	7	3	2 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub> -2 <sup>1</sup> / <sub>4</sub>	800 lbs.
301H	53A/S	5 <sup>5</sup> / <sub>8</sub>	7	3	2 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub> -2 <sup>1</sup> / <sub>4</sub>	1000 lbs.
305	53C/S	6 <sup>3</sup> / <sub>8</sub>	7	3	3	1 <sup>1</sup> / <sub>2</sub> -2 <sup>1</sup> / <sub>4</sub>	1500 lbs.
307	53FJ/S	8 <sup>7</sup> / <sub>16</sub>	5	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	4400 lbs.

## No. 62 FOLDING DOORS



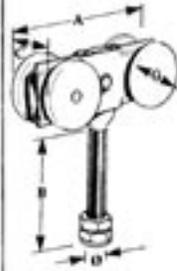
Track no.	Hanger no.	Dimensions			
		A	B	C	D
290	62K	7 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>
301	62A	7 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>
301H	62A	7 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>
305	62C	21 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	2	3

## No. 21 FOLDING DOORS



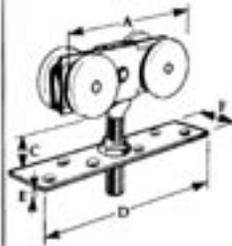
Track no.	Hanger no.	Dimensions				
		A	B	C	D	E
290	21K/S	6	6	1	1 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
21K/N						
21K/4N						
301	21A/S	7	6	1 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>4</sub>
301H	21A/4S	7	6	1 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>4</sub>
305	21C/S	7	6	1 <sup>1</sup> / <sub>2</sub>	3	1 <sup>1</sup> / <sub>4</sub>

## No. 56X METAL DOORS



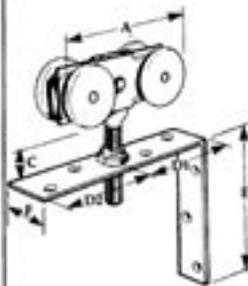
Track no.	Hanger no.	Dimensions					Door Weight Capacity
		A	B	C	D	H	
290	56KX/S	3 <sup>7</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>32</sub>	300 lbs.
	56KX/N						400 lbs.
301	56AX/S	5 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	600 lbs.
301H	56AX/S	5 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	800 lbs.
301H	56AX/N	5 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>	5 <sup>5</sup> / <sub>8</sub>	1000 lbs.
305	56CX/S	6 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	3	5 <sup>5</sup> / <sub>8</sub>	1500 lbs.
307	56FX/S	8 <sup>7</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	2500 lbs.
307	56FJX/S	8 <sup>7</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	4400 lbs.

## No. 57 WOOD DOORS



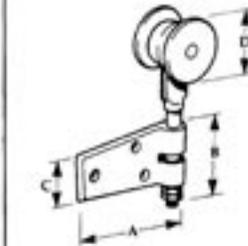
Track no.	Hanger no.	Dimensions					Door Weight Capacity
		A	C	D	E	F	
290	57K/N	3 <sup>7</sup> / <sub>16</sub>	1	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	1	300 lbs.
301	57A/S	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	600 lbs.
301H	57A/N	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1000 lbs.
305	57C/S	6 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1500 lbs.

## No. 52 WOOD DOORS



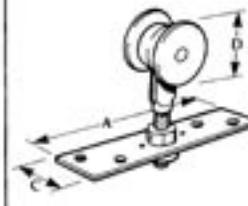
Track no.	Hanger no.	Dimensions						Door Weight Capacity
		A	C	D1	D2	E	F	
290	52K/S	3 <sup>7</sup> / <sub>16</sub>	1	3	2	5 <sup>1</sup> / <sub>4</sub>	1	300 lbs.
	52K/N							300 lbs.
301	52A/S	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	4	5	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	600 lbs.
301H	52A/N	5 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	4	5	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1000 lbs.
305	52C/S	6 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	4		6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1500 lbs.

## No. 63 FOLDING DOORS



Track no.	Hanger no.	Dimensions			
		A	B	C	D
290	63K	4	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>
301	63A	4	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>
301H	63A	4	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>32</sub>
305	63C	8 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	2	3

## No. 61 FOLDING DOORS



Track no.	Hanger no.	Dimensions			
		A	B	C	D
290	61K/S	5 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>16</sub>	1	1 <sup>7</sup> / <sub>16</sub>
301	61A/S	7 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>32</sub>
301H	61A/S	7 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>32</sub>
305	61C/S	7 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	3

# GUIDES OTHERS

**No. 315 Single Wall Mounted Stay Roller (Bi-parting doors)** - Provides clear threshold - fit No. 128 shoe guide with center stop. Nylon Rollers, galv. steel angle.

**No. 310 Double Wall Mounted Stay Roller (Double line)** - Provides clear threshold - Nylon Rollers, galv. steel angle.

**No. 126HD/A Ground Stay Rollers** - Provides clear threshold - Nylon Rollers, covered by shields to prevent traffic damage. Galv. steel.

**No. 128 Shoe Guide with Center Stop** - Grey painted iron, adjustable. Center stop plate provided, for bi-parting doors.

**No. 299 Curtailed Rail with Inverted No. 89 Channel to underside of doors.** - Provides clear threshold - fit No. 128 shoe guide with center stop on bi-parting doors.

**No. 126 Ground Stay Rollers** - Provides clear threshold - fit No. 128 shoe guide with center stop on bi-parting doors. Galv. steel.

Most roller guides are fitted with brass rollers. The assemblies are rustproofed by electrozinc galvanizing. Fit two guides per door. Always specify channel type when ordering guides (eg 104P/97).

**No. 102½ Side Guide Roller (Patented)** - Heavy duty plough guide, ideal for most applications. Malleable body with self-adjusting roller spindles. Use with channel No. 97.

**No. 105R Roller Guide** - General purpose guide suitable for most applications. Is economical yet very strong. Use with channel Nos. 89, 94, or 97.

**No. 106R Under Guide Roller** - Steel plate with a brass roller. Ideal for small, light doors especially internal application. Not recommended for dirty conditions. Use with channel Nos. 89, 94, or 97.

**No. 113R Side Guide Roller** - Steel plate with a brass roller. Not recommended for heavy doors or dirty conditions. Use with channel Nos. 89 or 94.

**No. 104P Under Guide Roller (Patented)** - Brass roller used for metal doors. Easily removable without dismantling doors. Use with channel Nos. 89 or 97.

**No. 104PX Long Under Guide Roller** - Same as 104P but with extra long bolt.

**No. 67 Intermediate Guide - folding doors** - No. 67/89 for track 290 and channel 89. No. 67/97 for track 301 or 301H and channel 97. No. 67C/97 for track 305 and channel 97.

**No. 68 End Guide - folding doors** - No. 68/89 for track 290 and channel 89. No. 68/97 for track 301 or 301H and channel 97. No. 68C/97 for track 305 and channel 97.

**No. 21R End Fold Guide - folding doors** - No. 21KR/94 for track 290 and channel 94. No. 21R/94 for track 301, 301H and 305.

**No. 106R Center Fold Guide - folding doors** - No. 106R/94 for all tracks.

**No. 994 Cane Bolt** - No. 994 15" electro galvanized steel shoot with socket for concrete, when required.

**No. 994X Offset Cane Bolt** - No. 994X 15" electro galvanized steel shoot with socket for concrete.

**No. 994R Roller Guide Cane Bolt** - No. 994R electro galvanized steel shoot with brass roller. Use with channel Nos. 89 or 97.

**No. 994S Locking Cane Bolt** - No. 994S 15" electro galvanized steel shoot with socket for concrete. Use with padlock (Not by PCH).

**No. 77 Flush Bolt** - No. 77J suitable for framed doors with bottom rails up to 6" x 1½". Gray painted steel. No. 77S suitable for framed doors with bottom rails up to 9" x 2¼". Gray painted steel.

**No. 78 Flush Bolt** - Designed for fitting to stile of flush doors minimum 5" x 1¼". Gray painted steel.

**No. 333 Semi-Flush Bolt** - 6" x 1½" aluminum alloy in satin anodized finish.

**No. 454 Semi-Flush Bolt** - 7½" x 1½" aluminum alloy in satin anodized finish.

**No. 863 Bow Handle** - Gray painted iron. 5¼" x 1¼"

**No. 463 Bow Handle** - Gray painted iron. 6¼" x 1½"

**No. 464 Bow Handle** - Gray painted iron. 10¼" x 2¼"

**No. 400 Flush Pull** - Aluminum alloy in satin anodized finish. 4¼" x 1½" with ½" mortise.

**No. 414 Flush Pull** - Aluminum self finish. 5¼" x 2½" with ¾" mortise.

**No. 413 Flush Pull** - Heavy duty Gray painted iron. 6" x 3¼" with 1" mortise.

**No. 115 Corner Protection Plates** - Rustproofed by electrozinc plating - Fit a pair on the leading door edge.

**No. 109 Single Wall or Ground Stop** - Gray painted steel with rubber buffer. For light doors. Fit on wall, ¾ up door height.

**No. 107E Buffer Stop** - Rubber. For fitting to slamming post when other stops cannot be used.

**No. 107 Single Wall Stop** - Gray painted steel with rubber buffers. For medium weight doors, fit one on wall, ¾ up door height. For heavier door fit 2.

**No. 431 Swivel Locking Bar** - Rustproofed by zinc plating. For doors sliding on outside face of wall or for securing to end post. Use with padlock (Not by PCH).

**No. 430 Detachable Locking Bar** - Rustproofed by zinc plating. For Straight-Run doors sliding inside and locked outside. Use with padlock (Not by PCH).

**No. 65 Back Flap Hinges** - No. 65 for track 290, 301 or 301H. Aluminum. No. 65C track 305. Gray painted iron.

**No. 403 Butt Hinge** - No. 403/1 3½" x 2" aluminum alloy. No. 403/2 4" x 2½" aluminum alloy. No. 403/3 4" x 3" aluminum alloy.

Also available in steel to similar sizes and referred to as No. 37, No. 41, No. 42 respectively.



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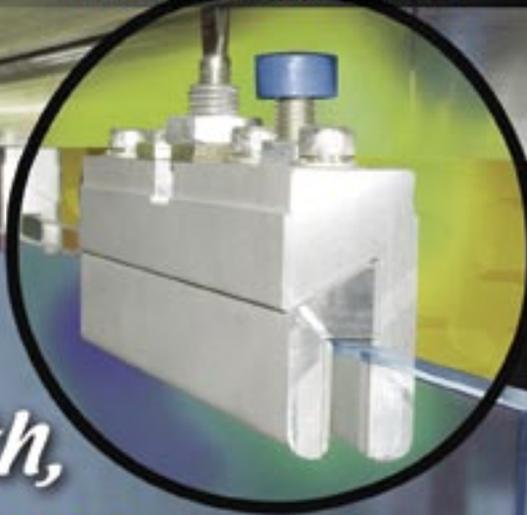
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