HENDERSON
COMMERCIAL AND INDUSTRIAL
SLIDING AND FOLDING DOOR HARDWARE
Multidirectional Systems

Commercial

Straight Sliding Systems

Husky
- 100 and 200 lbs. (Pg 4)

Husky
- Glass Panels up to 165 lbs. (Pg 6)

Pacer
- Wood and Metal Doors up to 440 lbs. (Pg 7)

Pacer
- Glass up to 285 lbs. (Pg 9)

Flexirol
- Wood, Metal, or Glass (Pg 12)

Commercial

Folding Systems

Husky
- 55 and 100 lbs. (Pg 16)

Pacer Centerfold
- Wood Doors up to 165 lbs. (Pg 18)

Pacer Endfold
- Wood Doors up to 165 lbs. (Pg 20)

Pacer Endfold Exterior
- Glass Doors up to 99 lbs. (Pg 22)

Pacer Endfold Aluminum
- (Pg 24)

Flexirol Centerfold
- (Pg 28)

Flexirol Endfold Interior
- (Pg 30)

Flexirol Endfold Exterior
- (Pg 32)

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- (Pg 34)

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- (Pg 36)

Commercial

Multidirectional Systems

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- Wood and Aluminum Doors up to 264 lbs. (Pg 40)

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- Wood and Aluminum Doors up to 220 lbs. (Pg 44)

Flexirol 90°
- Glass Doors up to 220 lbs. (Pg 46)

Flexirol 135°
- Wood and Aluminum Doors up to 1100 lbs. (Pg 48)

Flexirol 135°
- Glass Doors up to 1100 lbs. (Pg 50)

Industrial and Stainless Steel Track and Hardware

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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 5/16” (8mm), 3/8” (10mm) and 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.
RELIABLE AND HIGHLY VERSATILE HARDWARE
using precision-made components for
trouble-free operation.

**KITS** (complete, ready to install) include:
1 ea 280 or 280A  nylon bodied, acetal wheel hangers
2 ea 284N  nylon guide
1 ea 601H  clip stops

(Kit components can be ordered individually)

<table>
<thead>
<tr>
<th>Order KITS based on material and length of track</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kit No.</strong></td>
</tr>
<tr>
<td>H100/6</td>
</tr>
<tr>
<td>H100/8</td>
</tr>
<tr>
<td>H100A/6</td>
</tr>
<tr>
<td>H100A/8</td>
</tr>
</tbody>
</table>

**HARDWARE PACK** (no."H100PACK") = 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:
- 281S 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
- 280A or pre-drilled track, in steel or aluminum, 6 or 8 foot lengths
- 284N nylon bodied, acetal wheel hangers
- 102N nylon guide
- 601H clip stops

**FACE FIXED**

**SOFFIT FIXED**

| F134  | aluminum fascia - 1-3/4" thick doors |
| F138  | aluminum fascia - 1-3/8" thick doors |
| 863   | iron bow handle (5-1/4" x 1-3/4") |
| 400   | aluminum flush pull (4-1/4" x 1-7/8", 5/8" mortise) |
| 414   | aluminum flush pull (5-1/4" x 2-1/2", 3/4" mortise) |
| 333   | aluminum flush bolt (6" x 1-3/8") |

F134 Aluminum Fascia (optional)

* F138 Fascia also available for 1-3/8" doors. Dimensions are 7/16" x 2-9/16".
Reliable and highly versatile hardware using precision-made components for trouble-free operation.

KITS (complete, ready to install) include:
1 ea 280 or pre-drilled track, in steel or
280A 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:

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Material</th>
<th>Max Leaf Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>H200/6</td>
<td>steel track/6 ft.</td>
<td>96&quot; x 36&quot; x 2&quot;</td>
</tr>
<tr>
<td>H200/8</td>
<td>steel track/8 ft.</td>
<td>96&quot; x 48&quot; x 2&quot;</td>
</tr>
<tr>
<td>H200A/6</td>
<td>aluminum track/6 ft.</td>
<td>96&quot; x 36&quot; x 2&quot;</td>
</tr>
<tr>
<td>H200A/8</td>
<td>aluminum track/8 ft.</td>
<td>96&quot; x 48&quot; x 2&quot;</td>
</tr>
</tbody>
</table>

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”)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>281</td>
<td>brackets - 5 each</td>
</tr>
<tr>
<td>287</td>
<td>track stop (bumper type)</td>
</tr>
<tr>
<td>285</td>
<td>hanger for metal doors</td>
</tr>
<tr>
<td>106R/94</td>
<td>roller guide (use w/94A)</td>
</tr>
<tr>
<td>94A</td>
<td>aluminum floor channel</td>
</tr>
<tr>
<td>280</td>
<td>aluminum fascia - 1-3/4&quot; thick doors</td>
</tr>
<tr>
<td>280A</td>
<td>aluminum fascia - 1-3/8&quot; thick doors</td>
</tr>
<tr>
<td>102N</td>
<td>nylon guide</td>
</tr>
<tr>
<td>601H</td>
<td>clip stops</td>
</tr>
<tr>
<td>602N</td>
<td>nylon guide</td>
</tr>
<tr>
<td>105N</td>
<td>nylon guide</td>
</tr>
<tr>
<td>284</td>
<td>nylon bodied, needle bearing, acetal wheel hangers</td>
</tr>
<tr>
<td>102N</td>
<td>nylon guide</td>
</tr>
<tr>
<td>601H</td>
<td>clip stops</td>
</tr>
</tbody>
</table>

FOR SLIDING WOOD OR METAL DOORS TO 200 lbs.

NEW 2802A BYPASS TRACK FOR HUSKY SLIDING DOOR HARDWARE

200 lbs.
max door weight

OPTIONAL EXTRAS include:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F134</td>
<td>aluminum fascia - 1-3/4&quot; thick doors</td>
</tr>
<tr>
<td>F138</td>
<td>aluminum fascia - 1-3/8&quot; thick doors</td>
</tr>
<tr>
<td>863</td>
<td>iron bow handle (5-1/4&quot; x 1-3/4&quot;)</td>
</tr>
<tr>
<td>400</td>
<td>aluminum flush pull (4-1/4&quot; x 1-7/8&quot;, 5/8&quot; mortise)</td>
</tr>
<tr>
<td>414</td>
<td>aluminum flush pull (5-1/4&quot; x 2-1/2&quot;, 3/4&quot; mortise)</td>
</tr>
<tr>
<td>333</td>
<td>aluminum flush bolt (6&quot; x 1-3/8&quot;)</td>
</tr>
</tbody>
</table>

FACE FIXED

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>aluminum fascia (optional)</td>
</tr>
<tr>
<td>284</td>
<td>aluminum fascia (optional)</td>
</tr>
</tbody>
</table>

SOFFIT FIXED

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>280A</td>
<td>Aluminum Fascia (optional)</td>
</tr>
<tr>
<td>284</td>
<td>Aluminum Fascia (optional)</td>
</tr>
</tbody>
</table>

* F138 Fascia also available for 1-3/8" doors. Dimensions are 7/16" x 2/9/16".
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 8/75/1 Kit - 8mm
3/8” (10mm) 10/75/1 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

<table>
<thead>
<tr>
<th>Glass Thickness</th>
<th>Lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16” glass</td>
<td>3.95</td>
</tr>
<tr>
<td>3/8” glass</td>
<td>5.05</td>
</tr>
</tbody>
</table>
CAPACITY

Max. door weight: 440 lbs. (200kg)
Max. door height: 9'10" (3000mm)
Door thickness: 1\(\frac{3}{8}\)"-1\(\frac{13}{16}\)" (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

**Track:**
- Aluminum 600A
  - Available in 6’, 8’, 10’, and 16’ lengths

**Brackets:**
- Face fix 1B
- Jointing bracket 1BX

**Fascias:**
- Soffit fixed track F160 with standard return
- Face fixed track F200 with standard return
  - Fascia comes in a satin anodized aluminum finish in lengths of 6’, 8’ and 10’

**Hangers:**
- Wood doors 57B - concealed fixing
- Wood doors 52B - angle plate fixing
- Aluminum/Metal doors 57B - concealed fixing
- Metal doors 56B - angle frame
- Metal doors 56BX - box frame

**Guides:**
- Wood/Aluminum/Metal doors 89/2N - floor mounted guide
- Wood/Aluminum doors 106N/94 - concealed fixing
- Metal doors 104N/94 - angle frame
- Metal doors 104NX/94 - box frame

**Guide Channel:**
- Brass 94
- Aluminum 94A
  - 94 channel available in 4’11” (1.5 meter) and 9’10” (3 meter) lengths.
  - 94A channel available in 6’, 8’, and 12’ lengths.

**Accessories:**
- Retaining stop mounted within the track 601P
PACER GLASS

CAPACITY

**Max. door weight:** 165 lbs. (75kg) and 285 lbs. (130kg)
**Max. door height:** 9'10" (3000mm)
**Max. door width:** 9'10" (3000mm)
**Glass thickness:** \(\frac{5}{16}\)" (8mm) \(\frac{3}{8}\)" (10mm) and \(\frac{1}{2}\)" (12mm)

APPLICATIONS

The Pacer Glass Door System accommodates both sliding and fixed door panels, making it ideal for interior dividers in offices and shops as well as modern buildings and complexes.

DOOR TYPES

Glass panels of \(\frac{5}{16}\)" (8mm), \(\frac{3}{8}\)" (10mm) or \(\frac{1}{2}\)" (12mm) thickness in tempered or laminated glass. For fixed glass panels an integrated track profile (600CFP) is available, allowing a sliding panel to pass alongside the fixed panel. A further option available is a clip-on profile (600FP) which attaches directly to the side of the track. This allows a combination of two fixed panels with a sliding panel.

Clip-on fascia is available for both soffit fix and face fix situations.

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

*Note:* When using glass clamps in the 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

<table>
<thead>
<tr>
<th>Track:</th>
<th>600A</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 600CFP combination profile - track and fixed glass panel</td>
<td></td>
</tr>
<tr>
<td>- 600FP fixed glass panel profile</td>
<td></td>
</tr>
<tr>
<td>- All profiles available in 6', 8', 10', and 16' lengths</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brackets:</th>
<th>Face fix</th>
<th>1B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jointing bracket</td>
<td>1BX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fascias:</th>
<th>Soffit fixed track</th>
<th>F160 with extruded return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Face fixed track</td>
<td>F200 with extruded return</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Glass Clamp Kits:</th>
<th>(\frac{5}{16})&quot; (8mm) glass panels</th>
<th>165 lbs. (75kg) capacity 8/75 Kit</th>
<th>286 lbs. (130kg) capacity 8/130 Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(\frac{3}{8})&quot; (10mm) glass panels</td>
<td>165 lbs. (75kg) capacity 10/75 Kit</td>
<td>286 lbs. (130kg) capacity 10/130 Kit</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{2})&quot; (12mm) glass panels</td>
<td>165 lbs. (75kg) capacity 12/75 Kit</td>
<td>286 lbs. (130kg) capacity 12/130 Kit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories:</th>
<th>Sliding door lock for glass panels</th>
<th>618 ((\frac{5}{16})&quot; (10mm) and (\frac{1}{2})&quot; (12mm) glass only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Track stop</td>
<td>HH3/290</td>
</tr>
<tr>
<td></td>
<td>Retaining stop mounted</td>
<td>601P</td>
</tr>
<tr>
<td></td>
<td>within the track</td>
<td></td>
</tr>
</tbody>
</table>

GLASS WEIGHT

<table>
<thead>
<tr>
<th>Glass</th>
<th>Weight per sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; glass</td>
<td>5.05 lbs./sq. ft.</td>
</tr>
<tr>
<td>1/2&quot; glass</td>
<td>6.4 lbs./sq. ft.</td>
</tr>
</tbody>
</table>
PACER GLASS

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

GLASS WEIGHT

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Weight (lbs./sq. ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; glass</td>
<td>5.05</td>
</tr>
<tr>
<td>1/2&quot; glass</td>
<td>6.4</td>
</tr>
</tbody>
</table>

GLASS

- 8mm-10mm-12mm (5/16"-3/8"-1/2")

FACE FIX Bracket 1B

Combination Profile 600CFP

Fixed Glass Profile 600FP

Fascia FI60X

Glass 8mm-10mm-12mm (5/16"-3/8"-1/2")

Face Fix Bracket 1B

Combination Profile 600CFP

Fixed Glass Profile 600FP

Fascia FI60X

Glass 8mm-10mm-12mm (5/16"-3/8"-1/2")

Guide 608 610 612

Channel 94A

Packing 3/16" (4.8)

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: 110 lbs. (556 hanger) (500kg)

Max. door height:
- 19’8” (6000mm) - wood or metal framed
- 8’6” (2600mm) - 1/16” (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) - 1/8” (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:
- 19/16” (40mm) - 3 15/16” (100mm) - wood or metal framed 1/8” (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**

| Track: | 550A |
| Brackets: | 1A/550 |
| Soffit fix: | 3S/550 |
| Hangers: | Metal doors 556 |
| | Wood doors 556/57 - concealed fixing |
| | Wood doors 556/52 - angle plate fixing |
| Glass Profiles: | Glass profile FRP02 |
| Guides: | Wood and metal doors 89/2N |
| | Wood doors 106N/94 |
| | Metal doors 104N/94 |
| | Metal doors, extended version 104NX/94 |
| Guide Channel: | Brass 94 |
| | Aluminum 94A |
| Accessories: | 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**

<table>
<thead>
<tr>
<th>Glass type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” glass</td>
<td>5.05 lbs./sq. ft.</td>
</tr>
<tr>
<td>1/2” glass</td>
<td>6.4 lbs./sq. ft.</td>
</tr>
</tbody>
</table>
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.
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:

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Track Mat’l / Length</th>
<th>Max Door Leaf Size</th>
<th>Max Opening</th>
<th>No. of Leaves</th>
<th>Door Leaf Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF2/55/4</td>
<td>steel/4 ft.</td>
<td>96” H x 24” W</td>
<td>48”</td>
<td>2</td>
<td>13/16” - 1-3/4”</td>
</tr>
<tr>
<td>HF2/55A/4</td>
<td>aluminum/4 ft.</td>
<td>96” H x 24” W</td>
<td>48”</td>
<td>2</td>
<td>13/16” - 1-3/4”</td>
</tr>
<tr>
<td>HF4/55/8</td>
<td>steel/8 ft.</td>
<td>96” H x 24” W</td>
<td>96”</td>
<td>4</td>
<td>13/16” - 1-3/4”</td>
</tr>
<tr>
<td>HF4/55A/8</td>
<td>aluminum/8 ft.</td>
<td>96” H x 24” W</td>
<td>96”</td>
<td>4</td>
<td>13/16” - 1-3/4”</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Track Mat’l / Length</th>
<th>Max Door Leaf Size</th>
<th>Max Opening</th>
<th>No. of Leaves</th>
<th>Door Leaf Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF2/55/4</td>
<td>steel/4 ft.</td>
<td>96” H x 24” W</td>
<td>48”</td>
<td>2</td>
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<td>96”</td>
<td>4</td>
<td>13/16” - 1-3/4”</td>
</tr>
</tbody>
</table>

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)
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:

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Track Mat'l / Length</th>
<th>Max Door Leaf Size</th>
<th>Max Opening</th>
<th>No. of Leaves</th>
<th>Door Leaf Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF2/100/4</td>
<td>steel/4 ft.</td>
<td>96&quot; H x 24&quot; W</td>
<td>48&quot;</td>
<td>2</td>
<td>13/16&quot; - 1-3/4&quot;</td>
</tr>
<tr>
<td>HF2/100A/4</td>
<td>aluminum/4 ft.</td>
<td>96&quot; H x 24&quot; W</td>
<td>48&quot;</td>
<td>2</td>
<td>13/16&quot; - 1-3/4&quot;</td>
</tr>
<tr>
<td>HF4/100/8</td>
<td>steel/8 ft.</td>
<td>96&quot; H x 24&quot; W</td>
<td>96&quot;</td>
<td>4</td>
<td>13/16&quot; - 1-3/4&quot;</td>
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<tr>
<td>HF4/100A/8</td>
<td>aluminum/8 ft.</td>
<td>96&quot; H x 24&quot; W</td>
<td>96&quot;</td>
<td>4</td>
<td>13/16&quot; - 1-3/4&quot;</td>
</tr>
</tbody>
</table>

**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:**
- 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

Drill Ø 12mm (1/2")
to 27mm (11/4")
Depth for Pendant

Butts 403
102 x 57
(4"-2 1/4")

Lock Nut
Adjustable Nut

Hanger 61B - 61B/4

Track 600A

Guide 106N/94

Channel 94A

Butts 403
102 x 57
(4"-2 1/4")

Adjustable Nut

Hanger 61B - 61B/4

Track 600A

Guide 106N/94

Channel 94A
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: 1³/₈"-1¹/₁₆" (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, 3½, 5½ or 7½ 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

Track: Aluminum 600A
Available in 6', 8', 10', and 16'5", lengths

Brackets: Face fix 1B
Jointing bracket 1BX

Hangers: Two-wheeled hanger 61B
Four-wheeled hanger 61B/4

Guides: Nylon guide roller 106N/94

Guide Channel: Brass 94
Aluminum 94A
94 channel available in 4'11" (1.5 meter) and 9'10" (3 meter) lengths. 94A channel available in 6', 8', and 12' lengths.

Hinges: Butt hinges 403

Accessories: 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).
PACER INTERIOR
ENDFOLD
FOR WOOD DOORS

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

Guide 21N/94

Track 600
21B-21B/4
Hanger

Lock Nut
Adjustable
Nut

1 1/16" (17)

1/4" (6)

1/8" (3.1)

3/16" (4.8)

3/16" (4.8)

7/32" (5.7)

1 3/16" (17)

3/16" (4.8)

3/16" (4.8)

1/4" (6)

1/4" (6)

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1/4" (6)
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

Track: Aluminum 600A
Available in 6', 8', 10', and 16'5", lengths

Brackets: Face fix 1B
Jointing bracket 1BX

Hangers: Two-wheeled hanger 21B
Four-wheeled hanger 21B/4
Four-wheeled offset hanger 21BO/4

Pivots: For door widths between 1"-1 3/4" (25-34mm) 21K/PX
For door widths between 1 3/8"-1 3/4" (35-44mm) 21B/P

Guides: Nylon end guide roller 21N/94

Guide Channel: Brass 94
Aluminum 94A

Hinges: Butt hinges 403

Accessories: Flush pull 400
Flush bolts 333/454
Narrow flush bolt and keep F3715 & F3734

*Note: Using a pivot allows leaves to be of equal width.
PACER
ENDFOLD
FOR GLASS DOORS

Inside Outside Inside Inside Inside
8-10mm (7/9"-3/8")

*Glass Height is the Opening Height less 88.5mm (3 1/2")

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 1/4")

* 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

<table>
<thead>
<tr>
<th>Track</th>
<th>Aluminum 600A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brackets</td>
<td>Face fix 1B</td>
</tr>
<tr>
<td></td>
<td>Jointing bracket 1BX</td>
</tr>
<tr>
<td>Hangers</td>
<td>Two-wheeled end hanger with single hinge EF01/2</td>
</tr>
<tr>
<td></td>
<td>Four-wheeled intermediate hanger with double hinge EF03</td>
</tr>
<tr>
<td></td>
<td>Four-wheeled end hanger with single hinge EF01/4</td>
</tr>
<tr>
<td>Hinges</td>
<td>Double hinge EF05</td>
</tr>
<tr>
<td>Pivots</td>
<td>Top pivot with single hinge EF07</td>
</tr>
<tr>
<td></td>
<td>Bottom pivot with single hinge EF08</td>
</tr>
<tr>
<td>Guides</td>
<td>End guide with single hinge EF02</td>
</tr>
<tr>
<td></td>
<td>Intermediate guide with double hinge EF06</td>
</tr>
<tr>
<td>Guide Channel</td>
<td>Brass 94</td>
</tr>
<tr>
<td></td>
<td>Aluminum 94A</td>
</tr>
<tr>
<td>Accessories</td>
<td>Double hinge with spring-loaded foot operated bolt EF04</td>
</tr>
<tr>
<td></td>
<td>Sliding door lock for glass panels 618</td>
</tr>
<tr>
<td></td>
<td>Sliding door receiving lock 619</td>
</tr>
<tr>
<td></td>
<td>Spring-loaded foot operated bolt EF09</td>
</tr>
</tbody>
</table>

* All with stainless steel strapbolt/spindle.

GLASS WEIGHT

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>5.05 lbs./sq. ft.</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>6.4 lbs./sq. ft.</td>
</tr>
</tbody>
</table>
PACER EXTERIOR
ENDFOLD
FOR WOOD DOORS

Track 600A
Hanger 62B

13 3/16" (20.6)

Guide 67B

Nut

Lock Nut

Nut

Inside

Outside

Threshold

3 1/6" (85.7)

1 3/16" (20.6)

Hinge Sleeve

13 1/6" (20.6)

For Fixing Instructions See Flexiral page 28

Channel 94A

For Fixing Instructions See Flexiral page 28
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.

CAPACITY

Max. door weight: 143 lbs. (65kg)
Max. door height: 9’10” (3000mm)
Max. door width: 2’11” (900mm)
Door thickness: 11/16”-2/4” (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 513/16” (148mm) strapbolt, no hinge
End hanger for wood doors with 41/16” (104mm) strapbolt, no hinge
Offset end hanger for all doors with 419/16” (114mm) strapbolt, no hinge

Guides:
Intermediate guide for wood doors with 515/16” (150mm) spindle, no hinge
End guide for wood doors with 419/16” (110mm) spindle, no hinge

Guide Channel: Brass
Aluminum

Hinges:
13/16” (20mm) single hinge for wood/aluminum doors
13/16” (20mm) double hinge for wood/aluminum doors
19/16” (40mm) single hinge for wood/aluminum doors
19/16” (40mm) double hinge for wood/aluminum doors
13/16”-19/16” (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.
PACER EXTERIOR ENDFOLD
FOR ALUMINUM DOORS

Track 600A

Channel 94A

Plan: 3 doors folding to the right

Swing Door

Even

Even

Track 600A

Outside

Inside

Hanger

67BA/220 with 65B Hinge
11/16" or 17/32" (28mm or 40mm)

Stainless Steel Roller Guide Spindle

3/4" (19.1)

11/2" (38.1)

2 5/8" (66.7)

2 1/8" (54.0)

51 8

41 8

130.2

104.8

(20.6)

(4.7)

3 16

13 16

21 16

23 16

(52.4)

(4.7)

3 16

13 16

21 16

23 16

21 8

21 8

(54.0)

(54.0)

(Nut)

Lock Nut

Plastic Cover

7mm (1/4"") Packer - S7

Nut

Lock Nut

Plastic Cover

(20mm or 40mm)

(1/2"")

13/16" or 19/16"

Doors not by PCH

62BA/250 with 65B Double Hinge
9/16" or 1/2" (22mm or 48mm)

Stainless Steel Snap Ring Ø 15mm (1/2")

Hanger

Swing Door

67BA/220 with 65B Double Hinge

Even

Even

971 Threshold

971 Threshold

(20mm or 40mm)

(20mm or 40mm)
CAPACITY

Max. door weight: 143 lbs. (65kg)
Max. door height: 9’10” (3000mm)
Max. door width: 2’11” (900mm)
Door thickness: 13/16”-1 15/16” (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 515/16”(148mm)/915/16”(250mm) strapbolt
End hanger for aluminum doors with no hinge 51/2”(140mm)/81/16”(205mm) strapbolt
Offset end hanger for all doors with no hinge 41/2”(114mm) strapbolt

*Guides:
Intermediate guide for aluminum doors with no hinge 515/16”(150mm)/81/16”(220mm) spindle
End guide for aluminum doors with no hinge 45/16”(110mm)/71/16”(180mm) spindle

Guide Channel:
Brass
Aluminum

Hinges:
13/16”(20mm) single hinge for wood/aluminum doors
13/16”(20mm) double hinge for wood/aluminum doors
19/16”(40mm) single hinge for wood/aluminum doors
19/16”(40mm) double hinge for wood/aluminum doors
13/16”-19/16” (20-40mm) double hinge for wood/aluminum frames

Accessories:
Flush pull
Flush bolts
Narrow flush bolt and keep

* All with stainless steel strapbolt/spindle.
FLEXIROL INTERIOR CENTERFOLD FOR WOOD DOORS

Use in Place of 401/402/403 Hinges:

PemkoHinge™ Continuous Geared Aluminum Hinges

Suspended Ceiling Bracket with Vertical Adjustment

Track 550A

Adjustable Nut

Drill Ø 18mm (3/4") Hole 60mm (2 3/8") Deep

Holes 403 102 x 57 4"x2 1/4"

Guide 106N/94

Channel 94A

Butts 3 7/8 9/16 3 7/8 9/16

15 16 9 16

13 16 (4.7) 13 16 (4.7)

3 16 (20.6) 3 16 (20.6)

13 16 (98.4) 13 16 (98.4)

3 7/8 (96.4) 3 7/8 (96.4)
CAPACITY

Max. door weight: 275 lbs. (125kg)
Max. door height: 14’9” (4500mm)
Max. door width: 4’ (1200mm)
Door thickness: 11/16”-21/4” (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, 31/2, 51/2 or 71/2 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

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

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

Radius required: which side depends on swing direction

Top View of Pivot 21/550P

Channel 94A
CAPACITY

Max. door weight: 275 lbs. (125kg)
Max. door height: 14'9" (4500mm)
Max. door width: 4' (1200mm)
Door thickness: 11/16"-2/4" (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

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

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 45mm (1 3/4").

Formula: X=(A-B)-45mm (1 3/4")
FLEXIROL EXTERIOR
ENDFOLD
FOR WOOD DOORS

Hanger 556A/221
with 65B Hinge
13/16" or 17/16"
(20mm or 40mm)

Lock Nut
Nut

13/16"
(20.6)

Inside

Outside

Cram Plate

Hinge 65B

13/16"
(20.6)

Inside

Outside

Pro Drill Hole Ø 8mm
1/4"

(6.35)

Guide 67BA

13/16"
(20.6)

Inside

Outside

Nut
Lock
Nut

3/8"
(9.5)

1/4"

(6.35)

3/4"
(19.05)

3/16"
(4.76)

Channel 94A

13/16"
(20.6)

13/16"
(20.6)
**CAPACITY**
- Max. door weight: 275 lbs. (125kg)
- Max. door height: 14’9” (4500mm)
- Max. door width: 4’ (1200mm)
- Door thickness: 1 11/16”-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**

- **Track:** Aluminum 550A
- **Brackets:** Face fix 1A/550
  Joining track 3S/550
- **Hangers:** Intermediate or end hanger for wood/aluminum doors with 8 3/4” (221mm)
  strapbolt, no hinge 556A/221
- **Guides:** Intermediate guide for wood doors with
  5 1/16” (150mm) spindle, no hinge 67BA/150
  End guide for wood doors with
  4 15/16” (110mm) spindle, no hinge 68BA/110
- **Guide Channel:** Brass 94
  Aluminum 94A
- **Hinges:**
  - 13/16” (20mm) single hinge for wood/aluminum doors 65B/20/1
  - 13/16” (20mm) single hinge for wood/aluminum doors 65B/20
  - 1 1/16” (40mm) single hinge for wood/aluminum doors 65B/40/1
  - 1 1/16” (40mm) double hinge for wood/aluminum doors 65B/40
  - 13/16”-1 1/16” (20-40mm) double hinge for wood/aluminum frames 65B/20-40
- **Accessories:**
  - Flush pull 400
  - Flush bolts 333/454
  - Narrow flush bolt and keep 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 END FOLD
FOR ALUMINUM DOORS

Even Swing Door

Plan: 3 doors folding to the left

Even

Center to Center Hinge Distance

Track 550

Outside

Inside

Swing Door

Doors not by PCH

Doors not by PCH

-971 Threshold

94A Channel

67BA/220 with 65B Double Hinge

556A/221 Hanger

550A Track

1/2" (13mm)

65B Double Hinge

1/2" or 3/4" (16mm or 22mm)

Nut M12

Lock Nut M12

1/16" (1mm)

Roller Guide 67BA/220

Plastic Cover

65B Double Hinge

1/2" or 3/4" (16mm or 22mm)

67BA/220 Nut M12

Track 550

Stainless Steel Strap Bolt

556A/221 Hanger

Inside

Outside

-971 Threshold

1/4" (6mm)

-971 Threshold

1/4" (6mm)

1/8" (3mm)

1/8" (3mm)

1/4" (6mm)

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1/8" (3mm)
**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.

**CAPACITY**
- **Max. door weight:** 275 lbs. (125kg)
- **Max. door height:** 14'9" (4500mm)
- **Max. door width:** 4' (1200mm)
- **Door thickness:** 1 11/16"-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**

<table>
<thead>
<tr>
<th>Track:</th>
<th>Aluminum</th>
<th>550A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brackets:</td>
<td>Face fix</td>
<td>1A/550</td>
</tr>
<tr>
<td></td>
<td>Joining track</td>
<td>3S/550</td>
</tr>
<tr>
<td>Hangers:</td>
<td>Intermediate or end hanger for wood/aluminum doors with 8 3/4&quot; (221mm) strapbolt, no hinge</td>
<td>556A/221</td>
</tr>
<tr>
<td>Guides:</td>
<td>Intermediate guide for aluminum with 5 5/16&quot; (150mm) spindle, no hinge</td>
<td>67BA/220</td>
</tr>
<tr>
<td></td>
<td>End guide for aluminum doors with 4 5/16&quot; (110mm) spindle, no hinge</td>
<td>68BA/180</td>
</tr>
<tr>
<td>Guide Channel:</td>
<td>Brass</td>
<td>94</td>
</tr>
<tr>
<td></td>
<td>Aluminum</td>
<td>94A</td>
</tr>
<tr>
<td>Hinges:†</td>
<td>13/16&quot; (20mm) single hinge for aluminum doors</td>
<td>65B/20/1</td>
</tr>
<tr>
<td></td>
<td>13/16&quot; (20mm) double hinge for aluminum doors</td>
<td>65B/20</td>
</tr>
<tr>
<td></td>
<td>1 19/32&quot; (40mm) single hinge for aluminum doors</td>
<td>65B/40/1</td>
</tr>
<tr>
<td></td>
<td>1 19/32&quot; (40mm) double hinge for aluminum doors</td>
<td>65B/40</td>
</tr>
<tr>
<td></td>
<td>13/16&quot;-1 13/16&quot; (20-40mm) double hinge for aluminum frames</td>
<td>65B/20-40</td>
</tr>
<tr>
<td>Accessories:</td>
<td>Flush pull</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>Flush bolts</td>
<td>333/454</td>
</tr>
<tr>
<td></td>
<td>Narrow flush bolt and keep</td>
<td>F3715 &amp; F3734</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; (7mm) packer</td>
<td>S7</td>
</tr>
</tbody>
</table>

* All with stainless steel strapbolt/spindle.
† Refer to page 110 for hinge installation.
FLEXIROL
FOLDING GLASS
CAN ALSO BE USED WITH PACER

‘Turn knob locking detail’
### TECHNICAL INFORMATION

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

### 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.

### GLASS WEIGHT

- 3/8" glass: 5.05 lbs./sq. ft.
- 1/2" glass: 6.4 lbs./sq. ft.
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: 11/2”-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 1B
   Jointing bracket 1BX

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

Pivots:
   For door widths between 1”-11/16” (25-34mm) 21K/PX
   For door widths between 11/8”-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

**Track:**
600A (extruded aluminum)
Available in 6', 8', 10', and 16 1/2", lengths

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

**Curves:**
45° curve 600C

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

**Hangers:**
56B/MD

**Glass Profiles:**
Top/bottom profile FRP02

**Pivots:**
Glass pivot set 21/550GP

**Accessories:**
Track stop HH3/290

GLASS WEIGHT

<table>
<thead>
<tr>
<th>Glass Thickness</th>
<th>Weight per Square Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; glass</td>
<td>5.05 lbs./sq. ft.</td>
</tr>
<tr>
<td>1/2&quot; glass</td>
<td>6.4 lbs./sq. ft.</td>
</tr>
</tbody>
</table>
FLEXIROL 90°
MULTIDIRECTIONAL
SYSTEM FOR WOOD
AND ALUMINUM DOORS

Ball Bearing House Ø 38
(1½")

Drill Hole Ø M18 x 50
(3/4" x 2")

Drill Hole Ø M18 x 50
(3/4" x 2")

Guide 21R/94

Flush Bolt F3715

Cover 1/16" (1.5)
(45 x 45 x 3)

Bottom Pivot

Keep 3734

Hanger 555/21

Hanger 555/61

Adjustable Nut (10-40) 1/4"-19/64 (11/64 x 2"

Adjustable Nut (10-40) 1/4"-19/64 (11/64 x 2"

Adjustable Nut (10-40) 1/4"-19/64 (11/64 x 2"

Adjustable Nut (10-40) 1/4"-19/64 (11/64 x 2"
CAPACITY
Max. leaf weight: 220 lbs. (100kg) (2 hangers per leaf)
110 lbs. (50kg) (1 hanger per leaf)
Max. door height: 19’8” (6000mm)
Max. door width: 19’8” (6000mm)
Door thickness: 11/16”-3 15/16” (40mm-100mm)
Max. swing door width: 4’ (1200mm)

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

DOOR TYPES
Commercial wood and aluminum doors.

TECHNICAL INFORMATION

| Track: | 550A |
| Intersects: | 'T' junction 550AT, Cross-junction 550ACROSS |
| Elbows: | 90° elbow 550A90 |
| Brackets: | Face fix 1A/550, Soffit fix 3S/550 |
| Hangers: | Angle plate fixing 555/21, Concealed fixing 555/61 |
| Pivots: | Pivot set 21/550P |
| Accessories: | 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
FLEXIROL 90°  
MULTIDIRECTIONAL  
SYSTEM FOR GLASS DOORS

Glass Height is the Opening Height less 240mm
9 3/4" (247.7)
**CAPACITY**

<p>| | |</p>
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<tbody>
<tr>
<td><strong>Max. door weight:</strong></td>
<td>220 lbs. (100kg) (2 hangers per leaf)</td>
</tr>
<tr>
<td></td>
<td>110 lbs. (50kg) (1 hanger per leaf)</td>
</tr>
<tr>
<td><strong>Max. door height:</strong></td>
<td>9'2&quot;-3/8&quot; (2800mm-10mm) tempered glass</td>
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<tr>
<td></td>
<td>13'1&quot;-1/2&quot; (4000mm-12mm) tempered glass</td>
</tr>
<tr>
<td><strong>Max. door width:</strong></td>
<td>4'3&quot;-1/2&quot; (1300mm-10mm) tempered glass</td>
</tr>
<tr>
<td></td>
<td>4'3&quot;-1/2&quot; (1300mm-12mm) tempered glass</td>
</tr>
<tr>
<td><strong>Panel thickness:</strong></td>
<td>3/8&quot; (10mm) or 1/2&quot; (12mm)</td>
</tr>
<tr>
<td><strong>Max. swing door width:</strong></td>
<td>4' (1200mm)</td>
</tr>
</tbody>
</table>

**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**

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

**GLASS WEIGHT**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Weight (lbs./sq. ft.)</th>
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</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>5.05</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>6.4</td>
</tr>
</tbody>
</table>

**90° Configurations**

- System A
- System B
- System C
- System D
- System E
FLEXIROL 135° MULTIDIRECTIONAL SYSTEM FOR WOOD AND ALUMINUM DOORS
**CAPACITY**

Max. door weight: 1100 lbs. (500kg) (2 hangers per leaf)
550 lbs. (250kg) (1 hanger per leaf)

Max. door height: 19’8” (6000mm)

Max. door width: 19’8” (6000mm)

Door thickness: 1\(\frac{7}{8}\)-3\(\frac{1}{16}\)” (40mm-100mm)

Max. swing door width: 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**

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

**135° Configurations**

![135° Configurations Diagram]

**Door Rebates**

![Door Rebates Diagram]

**Example Rebated Doors**

![Example Rebated Doors Diagram]
FLEXIROL 135°
MULTIDIRECTIONAL SYSTEM FOR GLASS DOORS

FLEXIROL 135° is a multidirectional system for glass doors, providing flexibility and ease of use. Here are some key components and measurements:

- **Track 550A**: 2⅜" (66.7mm)
- **Top Pivot P117**: Insert AC118
- **Bottom Pivot AC246**: (21/550GP)
- **Glass Profile**: FRP02
- **End Cap**: FRE12
- **Glass Panel Without Cuttings**: 9 ⅞" (252.7mm)
- **Space between Endcap and Wall ⅛"**: (10mm to 12mm)
- **Glass Height is the Opening Height less 240mm**: Glass Height is the Opening Height less 240mm
- **Adjustable in Height**: Foot Operated Lock (Pin Version)
- **Lock Nut M16 x 4**: (6.4)
- **Gasket 2mm (1/16"
- **Gasket 3⅜" (86.4)
- **Glass Height**: 100
- **Bottom Pivot AC246**: (21/550GP)
- **Adjustable in Height**: Foot Operated Lock (Pin Version)

This system ensures smooth operation and compatibility with various glass profiles, providing a versatile and durable solution for glass doors.
CAPACITY

Max. door weight: 1100 lbs. (500kg) (2 hangers per leaf)
550 lbs. (250kg) (1 hanger per leaf)

Max. door height: 9’2”-3/8” (2800mm-10mm) tempered glass
13’1”-1/2” (4000mm-12mm) tempered glass

Max. door width: 4’3”-3/8” (1300mm-10mm) tempered glass
4’3”-1/2” (1300mm-12mm) tempered glass

Door thickness: 3/8” (10mm) or 1/2” (12mm) - tempered glass

Max. swing door width: 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

Track: 550A (extruded aluminum)

Brackets: Face fix 1A/550
Soffit fix 3S/550

Glass Profiles: Top/bottom glass profile FRP02

Pivots: Glass pivot set 21/550GP

Accessories: Track stop HH3/301

GLASS WEIGHT

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

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 or 105.
Door Stops & Accessories: In painted or galvanized steel.

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

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

For straight sliding wood 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. Wood doors for industrial applications should be framed, ledged and braced.

Door Type lbs./sq. ft.

<table>
<thead>
<tr>
<th>Track Size</th>
<th>280</th>
<th>290</th>
<th>301/301H</th>
<th>305</th>
<th>307</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3/4</td>
<td>1/2</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>1 1/16</td>
<td>1 1/2</td>
<td>31/16</td>
<td>5/8</td>
<td>6/8</td>
</tr>
<tr>
<td>C</td>
<td>1/4</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2 1/8</td>
</tr>
<tr>
<td>D</td>
<td>1/2</td>
<td>1/2</td>
<td>1</td>
<td>1</td>
<td>1 1/8</td>
</tr>
<tr>
<td>E</td>
<td>5/16</td>
<td>1 1/16</td>
<td>1 1/8</td>
<td>1 1/2</td>
<td>1 5/8</td>
</tr>
<tr>
<td>F</td>
<td>3 1/2</td>
<td>4 1/8</td>
<td>6 1/8</td>
<td>7 9/16</td>
<td>8 9/16</td>
</tr>
<tr>
<td>G</td>
<td>3/4</td>
<td>19/16</td>
<td>1 1/2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>H</td>
<td>1 1/16</td>
<td>1 1/2</td>
<td>1 1/8</td>
<td>1 1/4</td>
<td>1 1/4</td>
</tr>
<tr>
<td>J</td>
<td>2 1/8</td>
<td>3 1/4</td>
<td>3 9/16</td>
<td>3 1/4</td>
<td>3 1/4</td>
</tr>
<tr>
<td>K</td>
<td>5/16</td>
<td>3/8</td>
<td>3/4</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>M1</td>
<td>8G</td>
<td>5/16</td>
<td>1/2</td>
<td>5/8</td>
<td>5/8</td>
</tr>
<tr>
<td>M2</td>
<td>1/2</td>
<td>1/2</td>
<td>6/8</td>
<td>6/8</td>
<td>6/8</td>
</tr>
<tr>
<td>M3</td>
<td>7/16</td>
<td>3/4</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>N</td>
<td>1 1/2</td>
<td>2</td>
<td>3</td>
<td>3 1/2</td>
<td>4 1/2</td>
</tr>
</tbody>
</table>

All Dimensions in Feet and Inches

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.

+ Spacer

Fixing Hole M1
Fixing Hole M2
Fixing Hole M3

Guide 315
Guide 31D
105R
102R
105
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

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Quote</th>
<th>Order</th>
</tr>
</thead>
</table>

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

---

### Typical Examples

- **A**: Single Lines
- **B**: Double Lines
- **C**: Single Lines
- **D**: Double Lines
- **E**: Single Lines
- **F**: Double Lines
- **G**: Single Lines
- **H**: Double Lines
- **L**: Triple Lines
- **N**: Triple Lines

---

55
<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 10 ft.</th>
<th>up to 12 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 300-400 lbs.*</td>
<td>up to 600-800 lbs.*</td>
</tr>
<tr>
<td>Door Thickness</td>
<td>1 1/2-2”</td>
<td>1 3/4-2 1/4”</td>
</tr>
<tr>
<td>KIT NUMBER</td>
<td>290</td>
<td>301</td>
</tr>
</tbody>
</table>

**Track**

- 1A/290: sidewall-use for limited installation space
- 3A/290: overhead-use for limited installation space
- 5/290: sidewall dual track
- 1A/301: sidewall-use for limited installation space
- 3A/301: overhead-use for limited installation space
- 5/301: sidewall double track

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

- Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301)
  - 4A/290: overhead-use for ample installation space
  - 4R/290S: overhead-suspended
  - 9A/290: sidewall-use for ample installation space
  - 4A/301: overhead-use for ample installation space
  - 4R/301S: overhead-suspended
  - 9A/301: sidewall-use for ample installation space

**Hangers** (two per door)

- 52K/N: 300 lb. door top/edge mount
- 57K/N: 300 lb. door top mount
- 53K/N: 300 lb. door top mount w/door face flanges
- 53K/5200: 600 lb. door top mount w/door face flanges

**Stops** (two per door)

- 109: double fastener single wall or ground stop
- HH3/290: track mounted double fastener stop
- HH3/301: track mounted double fastener stop
- 107: single wall stop-double rubber buffers

**Guides** (three per door)

- 31S: single wall mounted stay roller
- 126HD/A: heavy-duty ground stay roller
- 31S: single wall mounted stay roller
- 31D: double wall mounted stay roller

**Guide Channel**

- 94A or 94B: aluminum or brass guide channel
- 89: steel guide channel
- 97: steel guide channel
- 97: steel guide channel

**Flush Pulls**

- 414: flush pull

**Bow Handles**

- 463: bow handle - 6 1/2”
- 863: bow handle - 5 1/4”
**SLIDING WOOD DOORS (complete, ready to install)**

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 1000 lbs.</th>
<th>up to 1500 lbs.</th>
<th>up to 4400 lbs.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th> </th>
<th>1 3/4-2 1/4&quot;</th>
<th>1 3/4-2 1/4&quot;</th>
<th>2 3/8-2 3/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>301H</td>
<td>301H</td>
<td>305</td>
<td>307</td>
</tr>
</tbody>
</table>

- **1A/301**  sidewall-use for limited installation space
- **3A/301**  overhead-use for limited installation space
- **5/301**   sidewall double track
- **1A/305**  sidewall-use for limited installation space
- **3A/305**  overhead-use for limited installation space
- **5/305**   sidewall double track
- **1/307/S**  sidewall-use for limited installation space
- **3/307/S**  overhead-use for limited installation space
- **5/307/S**  sidewall double track

- **52A/N**  1000 lb. door top/ledge mount
- **53A/N**  1000 lb. door top mount with door face flanges
- **52C/S**  1500 lb. door top/ledge mount
- **57C/S**  1500 lb. door top mount with door face flanges
- **53C/S**  4400 lb. door top mount with door face flanges

- **HH3/301** track mounted double fastener stop
- **107** single wall stop-double rubber buffers
- **315** single wall mounted stay roller
- **31D** double wall mounted stay roller
- **31S** single wall mounted stay roller
- **31D** double wall mounted stay roller

- **97** steel guide channel
- **89** steel guide channel

- **414** flush pull
- **463** bow handle - 6/4"
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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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.

**Hangers:** Fitted with maintenance-free precision needle bearings, sealed for life. Adjustable in height.

**Guides:** Steel parts rustproofed by electrozinc plating or painted.

**Door Stops & Accessories:** In painted or galvanized steel.

All Dimensions in Feet and Inches

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**

---

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

---

**TYPICAL EXAMPLES**

**SINGLE LINES**

**DOUBLE LINES**

**TRIPLE LINES**
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 10 ft.</th>
<th>up to 12 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 300-400 lbs.*</td>
<td>up to 600-800 lbs.*</td>
</tr>
<tr>
<td>Door Thickness</td>
<td>1 1/2-2”</td>
<td>1 3/4-2 1/4”</td>
</tr>
</tbody>
</table>

**KIT NUMBER**

| 290 | 301 |

**Track**

- 1A/290 sidewall-use for limited installation space
- 3A/290 overhead-use for ample installation space
- 5/290 sidewall dual track
- 1A/301 sidewall-use for limited installation space
- 3A/301 overhead-use for ample installation space
- 5/301 sidewall double track

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

- Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301)

**Hangers** *(two per door)*

- 56K/S 300 lb. door* door top mount/w/door face flanges
- 56K/S200 400 lb. door* door top mount/w/door face flanges
- 56AX/S 600 lb. door* door top mount/w/door face flanges
- 56AX/S200 800 lb. door* door top mount/w/door face flanges

**Stops** *(two per door)*

- 109 double fastener single wall or ground stop
- HH3/290 track mounted double fastener stop
- HH3/301 track mounted double fastener stop
- 107 single wall stop-double rubber buffers

**Guides** *(three per door)*

- 31S single wall mounted stay roller
- 106R under guide roller
- 126HD/A heavy duty ground stay roller
- 31S single wall mounted stay roller
- 126 ground stay roller
- 31D double wall mounted stay roller

**Guide Channel**

- 94A or 94B aluminum or brass guide channel
- 89 steel guide channel
- 97 steel guide channel

**Flush Pulls**

- 414 flush pull

**Bow Handles**

- 463 bow handle - 6 1/4”
- 863 bow handle - 5 1/4”
- 463 bow handle - 6 1/4”
**SLIDING METAL DOORS (complete, ready to install)**

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 14 ft.</td>
<td>up to 1000 lbs.</td>
<td>1 1/2 - 2 1/4&quot;</td>
</tr>
<tr>
<td>up to 16 ft.</td>
<td>up to 1500 lbs.</td>
<td>1 3/4 - 2 3/4&quot;</td>
</tr>
<tr>
<td>up to 20 ft.</td>
<td>up to 4400 lbs.</td>
<td>2 3/8 - 2 3/4&quot;</td>
</tr>
</tbody>
</table>

**KIT NUMBER**

- 290
- 301
- 301H
- 305
- 307

**Track Accessories**

- Brackets (one bracket for every three feet of track)
- Hangers (two per door)
- Stops (two per door)
- Guides (three per door)

**Guide Channel**

- 5/305
- 3A/305
- 3A/301
- 4R/301S
- 3A/307
- 5/307/S
- 3A/307/S
- 1A/305
- 1A/301
- 4A/305
- 4A/307
- 4R/307S

**Flush Pulls**

- 56A/N
- 56AX/N
- HH3/301
- 31S
- 31D
- 97 steel guide channel
- 413 flush pull
- 463 bow handle - 6 1/4"

**Bow Handles**

- 463 bow handle - 6 1/4"
- 464 bow handle - 10 1/4"

**Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.**
MANSION/MAJESTIC

FOR STRAIGHT SLIDING WOOD DOORS

APPLICATIONS

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

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

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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.
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**

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Quote</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Type of Track Required or Proposed:**
   - [ ] Top Hung
   - [ ] Bottom Roller

2. **Position of Door:**
   - [ ] Exterior (exposed)
   - [ ] Interior (inside building)

3. **Width of Opening:**
   - [ ] Other:

4. **Height of Opening:**

5. **Proposed Number of Doors:**

6. **Door Thickness (1-3/8” min. - 2-1/4” max.):**
   - [ ] Other:

7. **Door Material:**
   - [ ] Solid Core
   - [ ] Leadlined
   - [ ] Glazed
   - [ ] Metal Frame
   - [ ] Hollow Core
   - [ ] Metal frame or leadlined, give details under question 16

8. **Door Weight:**

9. **Do Doors Slide within Opening (as in plan “E” or “L”)?**
   - [ ] If NO, go to question 11
   - [ ] If YES, go to question 13

10. **When Looking at the Door from the Inside of the Building, do Doors Slide:**
   - [ ] Both Ways
   - [ ] Left Only
   - [ ] Right Only

11. **Do the Doors Slide:**
   - [ ] Inside the Building (as in plan “A”)
   - [ ] Outside the Building (as in plan “AA”)

12. **How Many Lines of Track?**
   - [ ] One
   - [ ] Two
   - [ ] Three

13. **Bracket Mounting:**
   - [ ] Sidewall
   - [ ] Overhead

14. **Depth of Header:**

15. **Width of Header:**

16. **Door Construction (metal doors):**
   - [ ] Angle Frame
   - [ ] Box Frame (depth of section 0-6")
   - [ ] Channel Frame
   - [ ] Special Frame/Leadlined

17. **Type of Floor:**
   - [ ] Asphalt
   - [ ] Concrete
   - [ ] Steel
   - [ ] No Floor (elevated opening)
   - [ ] Wood
   - [ ] Tile

18. **Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only):**
   - [ ] Nylon
   - [ ] Steel

19. **Security:**
   - [ ] Lock
   - [ ] Bolt
   - [ ] Unsecured
   - [ ] Will lock bolt be seen from the same side of door as doors hung – YES or NO

**Typical Examples**

- **Single Lines:**
  - [A]
  - [B]
  - [C]
  - [D]

- **Double Lines:**
  - [E]
  - [F]
  - [G]

- **Triple Lines:**
  - [H]
  - [I]
  - [J]
<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 8 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 120 lbs.</td>
</tr>
<tr>
<td>Door Thickness</td>
<td>1 1/4-2 1/4&quot;</td>
</tr>
<tr>
<td>Top Guide Channel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brackets</th>
<th>(one bracket for every three feet of track)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>not required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Guides</th>
<th>(two per door)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Bottom Rollers</th>
<th>(two per door)</th>
</tr>
</thead>
</table>

| Bottom Rail | |
|-------------| |

| Flush Pull | |
|------------| |

| Bow Handle | |
|------------| |

| Optional Extras | |
|-----------------| |
# STRAIGHT SLIDING WOOD DOORS (complete, ready to install)

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness</th>
<th>Top Guide Channel</th>
<th>Brackets</th>
<th>Guides</th>
<th>Bottom Rollers</th>
<th>Bottom Rail</th>
<th>Flush Pull</th>
<th>Bow Handle</th>
<th>Optional Extras</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 9 ft.</td>
<td>up to 380 lbs.</td>
<td>1(\frac{1}{4})-2(\frac{1}{4})&quot;</td>
<td>1/900 sidewall-use for limited installation space</td>
<td>5/900 sidewall dual track</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
<td>913XB steel or aluminum body with brass wheel and ball journal bearings</td>
<td>916 steel or aluminum body with brass wheel and ball journal bearings</td>
<td>917/918 lug use with 917/918 cup for fixing rail to concrete</td>
</tr>
<tr>
<td>up to 11 ft.</td>
<td>up to 600 lbs.</td>
<td>1(\frac{1}{4})-2(\frac{1}{4})&quot;</td>
<td>1/900 sidewall-use for limited installation space</td>
<td>5/900 sidewall dual track</td>
<td>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.</td>
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<td>913XB steel or aluminum body with brass wheel and ball journal bearings</td>
<td>916 steel or aluminum body with brass wheel and ball journal bearings</td>
<td>917/918 lug use with 917/918 cup for fixing rail to concrete</td>
</tr>
</tbody>
</table>
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

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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.
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

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Type of Track Required or Proposed:</td>
</tr>
<tr>
<td>2.</td>
<td>Position of Door:</td>
</tr>
<tr>
<td>3.</td>
<td>Width of Opening:</td>
</tr>
<tr>
<td>4.</td>
<td>Height of Opening:</td>
</tr>
<tr>
<td>5.</td>
<td>Proposed Number of Doors:</td>
</tr>
<tr>
<td>6.</td>
<td>Door Thickness (1-3/8” min. - 2-1/4” max.):</td>
</tr>
<tr>
<td>7.</td>
<td>Door Material:</td>
</tr>
<tr>
<td>8.</td>
<td>Door Weight:</td>
</tr>
<tr>
<td>9.</td>
<td>Do Doors Slide within Opening (as in plan “E” or “L”)?</td>
</tr>
<tr>
<td>10.</td>
<td>When Looking at the Door from the Inside of the Building, do Doors Slide:</td>
</tr>
<tr>
<td>11.</td>
<td>Do the Doors Slide:</td>
</tr>
<tr>
<td>12.</td>
<td>How Many Lines of Track?</td>
</tr>
<tr>
<td>13.</td>
<td>Bracket Mounting:</td>
</tr>
<tr>
<td>14.</td>
<td>Depth of Header:</td>
</tr>
<tr>
<td>15.</td>
<td>Width of Header:</td>
</tr>
<tr>
<td>16.</td>
<td>Door Construction (metal doors):</td>
</tr>
<tr>
<td>17.</td>
<td>Type of Floor:</td>
</tr>
<tr>
<td>18.</td>
<td>Type of Wheel Preferred (top hung only - tracks 305 &amp; 307 have steel only):</td>
</tr>
<tr>
<td>19.</td>
<td>Security:</td>
</tr>
<tr>
<td>20.</td>
<td>Number of Identical Openings:</td>
</tr>
</tbody>
</table>

**Typical Examples**

- **A**: Single Lines
- **B**: Double Lines
- **C**: Triple Lines

*Images of typical examples for single, double, and triple lines are shown in the document.*
# Sherwood Hardware for Straight Sliding Wood Doors

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 11 ft. - System 225</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 500 lbs.</td>
</tr>
<tr>
<td>Door Thickness</td>
<td>1 7/8&quot;</td>
</tr>
</tbody>
</table>

### Top Guide Channel

- **900**

### Brackets

- **1/900** sidewall-use for limited installation space
- **3/900** overhead-use for limited installation space
- **5/900** sidewall dual track

(One bracket for every three feet of track)

### Guides

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

(Two per door)

### Bottom Rollers

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

(Two per door)

### Bottom Rail

- **299** Cold-rolled steel section complete with couplers.

### Flush Pull

- **414** flush pull
- **413** flush pull

### Bow Handle

- **463** bow handle - 6 1/8"

### Optional Extras

- **115** corner protection plate
- **994, 994R, 994S** cane bolts
- **771** flush bolts
- **109 or 107** stops
- **430 or 431** locking bar

---

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.
## SLIDING WOOD DOORS

### up to 13 ft. - System 350

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 11 ft.</td>
<td>up to 500 lbs.</td>
<td>1 3/4 - 2 1/4&quot;</td>
</tr>
<tr>
<td>up to 13 ft.</td>
<td>up to 750 lbs.</td>
<td>1 3/4 - 2 1/4&quot;</td>
</tr>
</tbody>
</table>

- Top Guide Channel: 31
- Brackets: (one bracket for every three feet of track)
- Guides: (two per door)
- Bottom Rollers: (two per door)
- Bottom Rail: 31
- Corner Protection Plate: 115
- 109 or 107 Stops
- 430 or 431 Locking Bar
- 994, 994R or 994S Cane Bolt
- 77J Flush Bolt

### up to 17 ft. - System 800

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 13 ft.</td>
<td>up to 500 lbs.</td>
<td>1 3/4 - 2 1/4&quot;</td>
</tr>
<tr>
<td>up to 17 ft.</td>
<td>up to 750 lbs.</td>
<td>1 3/4 - 2 1/4&quot;</td>
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</table>

- Top Guide Channel: 31
- Brackets: (one bracket for every three feet of track)
- Guides: (two per door)
- Bottom Rollers: (two per door)
- Bottom Rail: 31
- Corner Protection Plate: 115
- 109 or 107 Stops
- 430 or 431 Locking Bar
- 994, 994R or 994S Cane Bolt
- 77J Flush Bolt

---

- Steel electrozinc plated or painted aprons with nylon or brass rollers
- Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.
- Cold-rolled steel section complete with couplers.
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

For best operation, door width should not be less than half the door height. The door is not 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.

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. |

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4.6 lbs.</td>
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<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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.

## STRAIGHT SLIDING TRACK

**JOB NAME**

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Track Required or Proposed:</td>
<td>Top Hung, Bottom Roller</td>
</tr>
<tr>
<td>Position of Door:</td>
<td>Exterior (exposed), Interior (inside building)</td>
</tr>
<tr>
<td>Width of Opening:</td>
<td></td>
</tr>
<tr>
<td>Height of Opening:</td>
<td></td>
</tr>
<tr>
<td>Proposed Number of Doors:</td>
<td></td>
</tr>
<tr>
<td>Door Thickness (1-3/8&quot; min. - 2-1/4&quot; max.):</td>
<td>Other</td>
</tr>
<tr>
<td>Door Material:</td>
<td>Solid Core, Leadlined, Clazed, Metal Frame, Hollowcore</td>
</tr>
<tr>
<td>Door Weight:</td>
<td></td>
</tr>
<tr>
<td>Do Doors Slide within Opening (as in plan “E” or “L”)?</td>
<td>If NO, go to question 11, If YES, go to question 13</td>
</tr>
<tr>
<td>When Looking at the Door from the Inside of the Building, do Doors Slide:</td>
<td>Both Ways, Left Only, Right Only</td>
</tr>
<tr>
<td>Do the Doors Slide:</td>
<td>Inside the Building (as in plan “A”), Outside the Building (as in plan “AA”)</td>
</tr>
<tr>
<td>How Many Lines of Track?</td>
<td>One, Two, Three</td>
</tr>
<tr>
<td>Bracket Mounting:</td>
<td>Sidewall, Overhead</td>
</tr>
<tr>
<td>Depth of Header:</td>
<td></td>
</tr>
<tr>
<td>Door Construction (metal doors):</td>
<td>Angle Frame, Box Frame (depth of section 0.6&quot;), Channel Frame, Special Frame/Leadlined</td>
</tr>
<tr>
<td>Type of Floor:</td>
<td>Asphalt, Concrete, Steel, No Floor (elevated opening), Wood, Tile</td>
</tr>
<tr>
<td>Type of Wheel Preferred (top hung only - tracks 305 &amp; 307 have steel only):</td>
<td>Nylon, Steel</td>
</tr>
<tr>
<td>Security:</td>
<td>Lock, Bolt, Unsecured</td>
</tr>
<tr>
<td>Number of Identical Openings:</td>
<td></td>
</tr>
</tbody>
</table>

### TYPICAL EXAMPLES

**SINGLE LINES**

- A
- B
- E
- F
- C
- G

**DOUBLE LINES**

- H
- K

**TRIPLE LINES**

- L
- M

**Notes:** Will lock bolt be seen from the same side of door as doors hung – YES or NO
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

<table>
<thead>
<tr>
<th>Sherwood HARDWARE KIT FOR STRAIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Height</td>
</tr>
<tr>
<td>Max. Door Weight</td>
</tr>
</tbody>
</table>
| Door Thickness                     | 1\(\frac{3}{4}\)-2" | 1\(\frac{3}{4}\)-2\(\frac{1}{8}\)"
| SYSTEM NUMBER                      | 225 | 350 |

### Top Guide Channel

<table>
<thead>
<tr>
<th>Brackets</th>
<th>(one bracket for every three feet of track)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/900</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>3/900</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>5/900</td>
<td>sidewall dual track</td>
</tr>
<tr>
<td>31</td>
<td>Pressed steel/ painted finish. Single side wall fixing</td>
</tr>
</tbody>
</table>

### Guides (two per door)

**Guides (two per door)** (four per door on 3600/8000 systems)

<table>
<thead>
<tr>
<th>Guides</th>
<th>104/900</th>
<th>104/99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.</td>
<td>Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.</td>
<td></td>
</tr>
</tbody>
</table>

### Bottom Rollers (two per door)

<table>
<thead>
<tr>
<th>Bottom Rollers</th>
<th>55</th>
<th>1S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.</td>
<td>Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.</td>
<td></td>
</tr>
</tbody>
</table>

### Bottom Rail

<table>
<thead>
<tr>
<th>Bottom Rail</th>
<th>299</th>
<th>298</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold-rolled steel section complete with couplers.</td>
<td>Cold-rolled steel section complete with couplers.</td>
<td></td>
</tr>
</tbody>
</table>

### Bow Handle

<table>
<thead>
<tr>
<th>Bow Handle</th>
<th>463</th>
</tr>
</thead>
<tbody>
<tr>
<td>bow handle - 6(\frac{1}{2})&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### Optional Extras

<table>
<thead>
<tr>
<th>Optional Extras</th>
<th>994, or 994S</th>
<th>109 or 107</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cane bolt</td>
<td>414 flush pull</td>
<td>109 or 107 stops</td>
</tr>
<tr>
<td>Cane bolt</td>
<td>994, or 994S</td>
<td>109 or 107 stops</td>
</tr>
</tbody>
</table>
### SLIDING METAL DOORS

<table>
<thead>
<tr>
<th>up to 17 ft.</th>
<th>up to 25 ft.</th>
<th>up to 40 (3600) or 65 (8000) ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 1800 lbs.</td>
<td>up to 4400 lbs.</td>
<td>up to 8000 (3600) or 17500 (8000) lbs.</td>
</tr>
<tr>
<td>2 1/8 - 2 1/2&quot;</td>
<td>2 1/4 - 2 3/4&quot;</td>
<td>6&quot; minimum thickness</td>
</tr>
</tbody>
</table>

**SYSTEM NUMBER**
- 225
- 350
- 800
- 2000
- 3600 or 8000

**Top Guide Channel**
- 1/13 single track

**Guides**
- (two per door)
- (four per door on 3600/8000 systems)

**Bottom Rollers**
- (two per door)

**Bottom Rail**
- Bow Handle

**Optional Extras**
- Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

**31**
- Pressed steel painted finish. Single side wall fixing

**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.

**35**
- 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.

**104S** (not shown)
- Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.

**298**
- Cold-rolled steel section complete with couplers.

**463**
- Bow handle - 6 1/4"

**464**
- Bow handle - 10 1/4"

**994, or 994S**
- Cane bolt

**109 or 107**
- Stays

**414**
- Flush pull

**994, or 994S**
- Cane bolt

**109 or 107**
- Stays

**414**
- Flush pull

**994, or 994S**
- Cane bolt

**109 or 107**
- Stays

**414**
- Flush pull
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

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Track</th>
<th>290</th>
<th>301/301H</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1/2</td>
<td>3/4</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>2 5/8</td>
<td>313/16</td>
<td>51/2</td>
</tr>
<tr>
<td>C</td>
<td>7/16</td>
<td>7/16</td>
<td>9/16</td>
</tr>
<tr>
<td>D</td>
<td>1 1/16</td>
<td>1 3/8</td>
<td>1 1/2</td>
</tr>
<tr>
<td>E</td>
<td>1/4</td>
<td>1/4</td>
<td>3/8</td>
</tr>
<tr>
<td>F</td>
<td>3/8</td>
<td>5/8</td>
<td>5/8</td>
</tr>
<tr>
<td>G</td>
<td>2 1/4</td>
<td>2 1/4</td>
<td>3 1/4</td>
</tr>
<tr>
<td>H</td>
<td>1</td>
<td>1 1/2</td>
<td>1 1/2</td>
</tr>
<tr>
<td>J</td>
<td>5/16</td>
<td>1/2</td>
<td>5/8</td>
</tr>
</tbody>
</table>
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.
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

**Tangent**

**HARDWARE FOR FOLDING**

<table>
<thead>
<tr>
<th>Max. Door Size</th>
<th>up to 8 ft./2'8&quot; wide</th>
<th>up to 8 ft./2'8&quot; wide</th>
<th>up to 11 ft./3'ft. wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 80 lbs.</td>
<td>up to 80 lbs.</td>
<td>up to 120 lbs.</td>
</tr>
<tr>
<td>Door Thickness</td>
<td>1 3/8&quot;</td>
<td>1 3/8&quot;</td>
<td>1 3/4-2 1/4&quot;</td>
</tr>
<tr>
<td>Track</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brackets (one bracket for every three feet of track)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hangers (one every two doors)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hinges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guides (one every two doors)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guide Channel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional Extras</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Brackets**

- 1A/290 sideway-use for limited installation space
- 3A/290 overhead-use for limited installation space
- 4A/290 overhead-use for ample installation space
- 4R/290S overhead-suspended
- 62A/P folding pivot hanger-polished
- 63A/P pivot hanger-polished
- 63A pivot hanger

**Hinges**

- 65 in cast aluminum alloy or painted cast iron
- 403/2 in cast aluminum alloy (deluxe=S.A.A.) or painted cast iron
- 65 in cast aluminum alloy (deluxe=S.A.A.) or painted cast iron

**Guides**

- 67/94 in solid cast iron
- 68/94 in solid cast iron
- 67/94P in polished aluminum

**Guide Channel**

- 89 steel guide channel
- 94A aluminum guide channel
- 97 steel guide channel

**Optional Extras**

- 414 flush pull
- 413 flush pull
- 414 flush pull
- 413 flush pull
- 414 flush pull
- 413 flush pull
- 464 bow handle - 10 1/2"
- 863 bow handle - 5 1/2"
- 863 bow handle - 5 1/2"
- 863 bow handle - 5 1/2"
- 863 bow handle - 5 1/2"
### METAL OR WOOD DOORS

<table>
<thead>
<tr>
<th>Up to 11 ft./3ft. wide</th>
<th>Up to 12 ft./3ft. wide</th>
<th>Up to 12 ft./3ft. wide</th>
<th>Up to 15 ft./3ft. wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 120 lbs.</td>
<td>up to 150 lbs.</td>
<td>up to 150 lbs.</td>
<td>up to 180 lbs.</td>
</tr>
<tr>
<td>1⅜/4-2¼&quot;</td>
<td>1⅜/4-2¼&quot;</td>
<td>1⅜/4-2¼&quot;</td>
<td>1⅜/4-2¼&quot;</td>
</tr>
<tr>
<td><strong>Deluxe 11 ft.</strong></td>
<td><strong>Standard 12 ft.</strong></td>
<td><strong>Deluxe 12 ft.</strong></td>
<td><strong>Standard 15 ft.</strong></td>
</tr>
<tr>
<td>301</td>
<td>301H</td>
<td>301H</td>
<td>305</td>
</tr>
<tr>
<td>1A/30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4R/301S overhead-suspended</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4A/301 overhead-use for ample installation space</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optional Extras</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guide Channel (one every two doors)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brackets (one bracket for every three feet)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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.

**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.

**APPLICATIONS**
- 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

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.

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

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
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<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

**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.
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**

---

All dimensions in feet and inches.

**PLEASE INSERT ALL PLAN DIMENSIONS.**

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)
5. Door Material: □ Solid Core □ Softwood □ Metal Frame if metal frame: □ Channel Frame □ Special □ Box Frame if her frame: depth of her 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):

---

**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.

27” minimum if swingers are to be avoided.

NUMBER OF LEAVES: To calculate correct number of leaves divide opening width (O above) by 32” - 36”.
## Tangent HARDWARE KIT FOR ROUND-THE-CORNER WOOD OR METAL DOORS

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 8ft. - System 290</th>
<th>up to 11 ft. - System 301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 80 lbs.</td>
<td>80-120 lbs.</td>
</tr>
<tr>
<td>Door Thickness/Width</td>
<td>1 3/8-2” thick, 32” wide</td>
<td>1 3/4-2 1/4” thick, 36” wide</td>
</tr>
</tbody>
</table>

### Track and Track Curve

<table>
<thead>
<tr>
<th>Brackets (one bracket for every three feet of track)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Guides (two per door)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass roller guides mounted on alloy or cast iron hinge parts</td>
</tr>
</tbody>
</table>

### Hangers

<table>
<thead>
<tr>
<th>Hangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>In cast aluminum alloy or painted cast iron.</td>
</tr>
</tbody>
</table>

### Hinges

<table>
<thead>
<tr>
<th>Hinges</th>
</tr>
</thead>
<tbody>
<tr>
<td>In cast aluminum alloy or painted cast iron.</td>
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</tbody>
</table>

### Guide Channel/Channel Curve

<table>
<thead>
<tr>
<th>Guide Channel/Channel Curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel guide channel</td>
</tr>
</tbody>
</table>

### Bow Handles, Flush Pulls, Flush Bolts

<table>
<thead>
<tr>
<th>Bow Handles, Flush Pulls, Flush Bolts</th>
</tr>
</thead>
</table>

### Optional Extras

<table>
<thead>
<tr>
<th>Optional Extras</th>
</tr>
</thead>
</table>

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.
# Corner Wood or Metal Doors

**Up to 12 ft. - System 301H**

<table>
<thead>
<tr>
<th>120-150 lbs.</th>
<th>1(\frac{3}{4})-2(\frac{1}{4})&quot; thick, 36&quot; wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>301H</td>
<td></td>
</tr>
<tr>
<td>1A/301</td>
<td>sideway-use for limited installation space</td>
</tr>
<tr>
<td>3A/301</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>4A/301</td>
<td>overhead-use for ample installation space</td>
</tr>
<tr>
<td>4R/301S</td>
<td>overhead-suspended</td>
</tr>
<tr>
<td>600BH</td>
<td>track curve</td>
</tr>
<tr>
<td>601/97 guide channel curve</td>
<td></td>
</tr>
<tr>
<td>62A</td>
<td>folding pivot hanger (1 per panel joint)</td>
</tr>
<tr>
<td>63A</td>
<td>pivot hanger (for end panel)</td>
</tr>
<tr>
<td>65</td>
<td>In cast aluminum alloy or painted cast iron.</td>
</tr>
<tr>
<td>67/97</td>
<td>Brass roller guides mounted on alloy or cast iron hinge parts</td>
</tr>
<tr>
<td>68/97</td>
<td>Brass roller guides mounted on alloy or cast iron hinge parts</td>
</tr>
<tr>
<td>62C</td>
<td>folding pivot hanger (1 per panel joint)</td>
</tr>
<tr>
<td>63C</td>
<td>pivot hanger (for end panel)</td>
</tr>
<tr>
<td>97 steel guide channel</td>
<td></td>
</tr>
<tr>
<td>994X</td>
<td>offset cane bolt</td>
</tr>
</tbody>
</table>

**Up to 15 ft. - System 305**

<table>
<thead>
<tr>
<th>150-180 lbs.</th>
<th>1(\frac{3}{4})-2(\frac{1}{4})&quot; thick, 36&quot; wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>305</td>
<td></td>
</tr>
<tr>
<td>1A/305</td>
<td>sideway-use for limited installation space</td>
</tr>
<tr>
<td>3A/305</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>4A/305</td>
<td>overhead-use for ample installation space</td>
</tr>
<tr>
<td>4R/305S</td>
<td>overhead-suspended</td>
</tr>
<tr>
<td>3A/305</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>4R/305S</td>
<td>overhead-suspended</td>
</tr>
<tr>
<td>600D</td>
<td>track curve</td>
</tr>
<tr>
<td>601/97 guide channel curve</td>
<td></td>
</tr>
<tr>
<td>62C</td>
<td>folding pivot hanger (1 per panel joint)</td>
</tr>
<tr>
<td>63C</td>
<td>pivot hanger (for end panel)</td>
</tr>
<tr>
<td>65</td>
<td>In cast aluminum alloy or painted cast iron.</td>
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<tr>
<td>67/97</td>
<td>Brass roller guides mounted on alloy or cast iron hinge parts</td>
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<td>63C</td>
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<tr>
<td>97 steel guide channel</td>
<td></td>
</tr>
<tr>
<td>994X</td>
<td>offset cane bolt</td>
</tr>
</tbody>
</table>

---

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.
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

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

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.
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**

All dimensions in feet and inches

**INQUIRY**

**ORDER**

- **A**
- **B (if any)**
- **C (if any)**

**PLEASE INSERT ALL PLAN DIMENSIONS**

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 ☐ Pivot (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 ☐ Aluminum
12. Bottom Guide Channel Required: ☐ Applies to top hung track only ☐ Brass ☐ Aluminium
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: see or more identical openings
16. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below):

---

**END 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).

**CENTER FOLDING FORMULA**

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 fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness/Width</th>
<th>Track</th>
<th>Brackets</th>
<th>Guides</th>
<th>Hangers</th>
<th>Hinges, Pivots</th>
<th>Guide Channel</th>
<th>Flush Pulls, Flush Bolts</th>
<th>Optional Extras</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 9 ft.</td>
<td>up to 80 lbs.</td>
<td>13/8-13/4&quot; thick, 32&quot; wide</td>
<td>290</td>
<td>1A/290</td>
<td>21KR/94</td>
<td>21K/S</td>
<td>403/1</td>
<td>94 brass guide channel</td>
<td>414 flush pull</td>
<td>113R guide</td>
</tr>
<tr>
<td>up to 11 ft.</td>
<td>80-120 lbs.</td>
<td>13/4-21/4&quot; thick, 36&quot; wide</td>
<td>301</td>
<td>3A/290</td>
<td>21KR/94</td>
<td>21K/P</td>
<td>403/2</td>
<td>94A aluminum guide channel</td>
<td>400 flush pull</td>
<td>21R endfold guide</td>
</tr>
<tr>
<td>up to 12 ft.</td>
<td>120-150 lbs.</td>
<td></td>
<td></td>
<td>4A/290</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>454 flush bolt</td>
<td>1/290EC (not shown)</td>
</tr>
<tr>
<td>up to 15 ft.</td>
<td>150-180 lbs.</td>
<td></td>
<td></td>
<td>1A/301</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>333 flush bolt</td>
<td>1/301EC end clip for 301 steel brackets</td>
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<tr>
<td>up to 15 ft.</td>
<td></td>
<td></td>
<td></td>
<td>3A/301</td>
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<td></td>
<td>(1A/301 end clips also available for aluminum brackets)</td>
</tr>
<tr>
<td>HARDWARE FOR END FOLDING WOOD PARTITION DOORS</td>
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<tr>
<td><strong>System 301H</strong> (up to 12 ft.)</td>
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<td>120-150 lbs.</td>
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<tr>
<td>1 3/4-2 1/4&quot; thick, 36&quot; wide</td>
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<tr>
<td>1A/301 sidewalk-use for limited installation space</td>
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<tr>
<td>4A/301 overhead-use for ample installation space</td>
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<tr>
<td><strong>System 305</strong> (up to 15 ft.)</td>
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<td>150-180 lbs.</td>
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<tr>
<td>1 3/4-2 1/4&quot; thick, 36&quot; wide</td>
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<td>1A/305 sidewalk-use for limited installation space</td>
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<td>3A/305 overhead-use for limited installation space</td>
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<td>4A/305 overhead-use for ample installation space</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional Extras</th>
</tr>
</thead>
<tbody>
<tr>
<td>113R guide</td>
</tr>
<tr>
<td>21R endfold guide</td>
</tr>
<tr>
<td>1/301EC end clips for 301 steel brackets (1A/301 end clips also available for aluminum brackets)</td>
</tr>
</tbody>
</table>

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.
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.

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.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>lbs./sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow Metal 18 ga</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>Hollow Metal 16 ga</td>
<td>5.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Particleboard Core</td>
<td>4.8 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Stave Core</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>Flush Wood, Mineral Core</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

All Dimensions in Feet and Inches

<table>
<thead>
<tr>
<th>Track</th>
<th>290</th>
<th>301/301H</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2(\frac{1}{2})</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3(\frac{3}{4})</td>
<td>5(\frac{3}{4})</td>
<td>6(\frac{3}{8})</td>
</tr>
<tr>
<td>C</td>
<td>2(\frac{3}{16})</td>
<td>3(\frac{3}{8})</td>
<td>4(\frac{3}{4})</td>
</tr>
<tr>
<td>D</td>
<td>3(\frac{3}{4})</td>
<td>1(\frac{3}{8})</td>
<td>2(\frac{3}{8})</td>
</tr>
<tr>
<td>E</td>
<td>1(\frac{1}{2})</td>
<td>2</td>
<td>2(\frac{1}{2})</td>
</tr>
<tr>
<td>F</td>
<td>1(\frac{1}{2})</td>
<td>3(\frac{3}{4})</td>
<td>3(\frac{3}{4})</td>
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<tr>
<td>G</td>
<td>5(\frac{1}{16})</td>
<td>1(\frac{1}{2})</td>
<td>5(\frac{3}{8})</td>
</tr>
<tr>
<td>H</td>
<td>1(\frac{7}{8})</td>
<td>3</td>
<td>3(\frac{3}{4})</td>
</tr>
<tr>
<td>J</td>
<td>2(\frac{5}{8})</td>
<td>3(\frac{3}{4})</td>
<td>5(\frac{3}{8})</td>
</tr>
<tr>
<td>K</td>
<td>5(\frac{1}{2})</td>
<td>7(\frac{1}{4})</td>
<td>9(\frac{1}{2})</td>
</tr>
</tbody>
</table>

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

All dimensions in feet and inches

**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 □ Pivot (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 □ Aluminum
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.

**CENTER FOLDING FORMULA**

A pivot hinge on leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).

**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 fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

### HARDWARE FOR CENTER

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>up to 9ft. - System 290</th>
<th>up to 11 ft. - System 301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 80 lbs.</td>
<td>80-120 lbs.</td>
</tr>
<tr>
<td>Door Thickness/Width</td>
<td>1(\frac{3}{8})-1(\frac{3}{4})&quot; thick, 32&quot; wide</td>
<td>1(\frac{3}{4})-2(\frac{1}{4})&quot; thick, 36&quot; wide</td>
</tr>
</tbody>
</table>

#### Track
- 290
- 301

#### Brackets (one bracket for every three feet of track)
- 1A/290 (sidewall-use for limited installation space)
- 3A/290 (overhead-use for limited installation space)
- 4A/290 (overhead-use for ample installation space)
- 1A/301 (sidewall-use for limited installation space)
- 3A/301 (overhead-use for ample installation space)

#### Guides (two per door)
- 21KR/94 guide
- 21R/94 guide

#### Hangers
- 21K/S (endfold hanger (1 for every 2 panels))
- 21K/4N (to be used adjacent to swing door)
- 21A/S (endfold hanger (1 for every 2 panels))
- 21A/4S (to be used adjacent to swing door)

#### Hinges, Pivots
- 403/1
- 21K/P (endfold pivot)
- 403/2
- 21A/P (endfold pivot)

#### Guide Channel
- 94 brass guide channel
- 94A aluminum guide channel
- 94A brass guide channel
- 94A aluminum guide channel

#### Flush Pulls, Flush Bolts
- 414 flush pull
- 400 flush pull
- 454 flush bolt
- 333 flush bolt
- 414 flush pull
- 400 flush pull
- 454 flush bolt
- 333 flush bolt

#### Optional Extras
- 113R guide
- 21R endfold guide
- 1A/301EC end clips for 301 brackets
- 113R guide
- 21R endfold guide
- 1A/301EC end clips for 301 brackets
## FOLDING WOOD PARTITION DOORS

### up to 12 ft. - System 301H

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness/Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 9 ft.</td>
<td>up to 80 lbs.</td>
<td>1 3/4&quot; thick, 36&quot; wide</td>
</tr>
<tr>
<td>up to 11 ft.</td>
<td>80-120 lbs.</td>
<td>1 3/4&quot; thick, 36&quot; wide</td>
</tr>
<tr>
<td>up to 12 ft.</td>
<td>120-150 lbs.</td>
<td>1 3/4&quot; thick, 36&quot; wide</td>
</tr>
</tbody>
</table>

### up to 15 ft. - System 305

<table>
<thead>
<tr>
<th>Max. Door Height</th>
<th>Max. Door Weight</th>
<th>Door Thickness/Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 12 ft.</td>
<td>120-150 lbs.</td>
<td>1 3/4&quot; thick, 36&quot; wide</td>
</tr>
<tr>
<td>up to 15 ft.</td>
<td>150-180 lbs.</td>
<td>1 3/4&quot; thick, 36&quot; wide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Track</th>
<th>Brackets</th>
<th>Guides</th>
<th>Hangers</th>
<th>Pivots</th>
<th>Guide Channel</th>
<th>Flush Pulls</th>
<th>Flush Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(one bracket for every three feet of track)</td>
<td>(two per door)</td>
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<td></td>
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<td>414</td>
<td>454</td>
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<td>333</td>
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<td>414</td>
<td>400</td>
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</tbody>
</table>

### Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

<table>
<thead>
<tr>
<th>HARDWARE FOR CENTER FOLDING WOOD PARTITION DOORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A/305 overhead-use for limited installation space</td>
</tr>
<tr>
<td>1A/301 sidewall-use for limited installation space</td>
</tr>
<tr>
<td>3A/301 overhead-use for ample installation space</td>
</tr>
<tr>
<td>4A/301 overhead-use for ample installation space</td>
</tr>
<tr>
<td>21R/94 endfold guide (1 for every 2 panels)</td>
</tr>
<tr>
<td>21A/S endfold hanger (1 for every 2 panels)</td>
</tr>
<tr>
<td>21A/4S to be used adjacent to swing door</td>
</tr>
<tr>
<td>94 brass guide channel</td>
</tr>
<tr>
<td>94A aluminum guide channel</td>
</tr>
<tr>
<td>403/2 flush pull</td>
</tr>
<tr>
<td>403/3 flush pull</td>
</tr>
<tr>
<td>1A/301EC and clips for 301 brackets</td>
</tr>
</tbody>
</table>

In cast aluminum alloy (deluxe=S.A.A.) or painted cast iron.
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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ Back flap hinges

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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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◆ Top guide brackets
◆ Bottom rollers
◆ Bottom rail
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◆ Full range of accessories

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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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.

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 rollers
◆ Bottom rail
◆ Top guide channel
◆ Top guide rollers
◆ 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 7½ 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.
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.
### Arcade A70 HARDWARE FOR END AND CENTER

<table>
<thead>
<tr>
<th>Max. Folding Leaf Height</th>
<th>up to 12 ft. - Endfold System A70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Door Weight</td>
<td>up to 150 lbs.</td>
</tr>
</tbody>
</table>

### Top Guide Channel

- **900**

### Brackets

- **1/900** - sidewall-use for limited installation space
- **3/900** - overhead-use for limited installation space

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

### Top Guide Rollers

- **902** - comes with flat mounting plate (not shown)

*one every two doors*

### Hinges

- **65/65P** hinge

*three in height*

### Bottom Rollers

- **922** - for aluminum doors
- **923** - for wood doors

*one every two 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

<table>
<thead>
<tr>
<th>Hardware Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td></td>
</tr>
<tr>
<td>1/900</td>
<td>sidewall-use for limited installation space</td>
</tr>
<tr>
<td>3/900</td>
<td>overhead-use for limited installation space</td>
</tr>
<tr>
<td>902</td>
<td>comes with flat mounting plate (not shown)</td>
</tr>
<tr>
<td>65/65P hinges</td>
<td></td>
</tr>
<tr>
<td>922</td>
<td>for aluminum doors</td>
</tr>
<tr>
<td>923</td>
<td>for wood doors</td>
</tr>
<tr>
<td>918</td>
<td>brass bottom rail</td>
</tr>
<tr>
<td>400</td>
<td>flush pull</td>
</tr>
<tr>
<td>454</td>
<td>flush bolt</td>
</tr>
</tbody>
</table>

Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.
Overhead Runways

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. These are cast aluminum or pressed steel electrozinc plated finish or painted.
- Brackets: Steel wheels are fitted with maintenance free precision needle bearings sealed for life. All steel parts are electrozinc plated or painted.
- Hangers: In painted or galvanized steel.
- Stops: In painted or galvanized steel.

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. Five track sizes are available depending on load weight.
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.
Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware.

### Max. Load Weight

<table>
<thead>
<tr>
<th>System Type</th>
<th>Overhead Transport (straight)</th>
<th>Overhead Transport (curved)</th>
<th>Industrial Curtains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-500 lbs.</td>
<td>301 for 300 lbs load weight</td>
<td>301 for 240 lbs load weight</td>
<td>280 for 11 lbs load weight</td>
</tr>
<tr>
<td></td>
<td>301H for 400 lbs load weight</td>
<td>301H for 200 lbs load weight</td>
<td></td>
</tr>
<tr>
<td></td>
<td>305 for 500 lbs load weight</td>
<td>305 for 440 lbs load weight</td>
<td></td>
</tr>
<tr>
<td>Track Curves (23” radius)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>not required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Track Curves (23” radius)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600B for 240 lbs load weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600BH for 300 lbs load weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600D for 440 lbs load weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brackets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(one bracket for every three feet of track and at track joints)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jointing Brackets available for joining two pieces of track at bracket (i.e. 1AX/301)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3A/301 overhead fixed</td>
<td>3A/305 overhead fixed</td>
<td>3A/290 overhead fixed for 44 lbs load weight</td>
</tr>
<tr>
<td></td>
<td>4R/301S overhead fixed</td>
<td>4R/305S overhead fixed</td>
<td>3A/290S overhead fixed adjustable for 44 lbs load weight</td>
</tr>
<tr>
<td></td>
<td>overhead adjustable</td>
<td>overhead adjustable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>76/301 for 400 lbs load weight</td>
<td>76/301 for 300 lbs load weight</td>
<td>288H for 11 lbs load weight</td>
</tr>
<tr>
<td></td>
<td>76/305 for 440 lbs load weight</td>
<td>58K/S for 44 lbs load weight</td>
<td></td>
</tr>
<tr>
<td>Hangers</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Overhead Transport Systems**

<table>
<thead>
<tr>
<th>44 lbs.</th>
<th>90 lbs.</th>
<th>300 lbs.*</th>
<th>440 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Curtains</td>
<td>Cable Carriers</td>
<td>Window Cleaning</td>
<td>Climbing Rope</td>
</tr>
<tr>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>290</td>
<td>290</td>
<td>301H</td>
<td>301H</td>
</tr>
<tr>
<td><strong>not required</strong></td>
<td><strong>not required</strong></td>
<td><strong>not required</strong></td>
<td><strong>not required</strong></td>
</tr>
<tr>
<td><img src="image5" alt="Image" /></td>
<td><img src="image6" alt="Image" /></td>
<td><img src="image7" alt="Image" /></td>
<td><img src="image8" alt="Image" /></td>
</tr>
<tr>
<td>3A/290 overhead fixed</td>
<td>3A/290 overhead fixed</td>
<td>4A/301 overhead fixed</td>
<td>4R/301S overhead fixed or overhead fixed adjustable</td>
</tr>
<tr>
<td><img src="image9" alt="Image" /></td>
<td><img src="image10" alt="Image" /></td>
<td><img src="image11" alt="Image" /></td>
<td><img src="image12" alt="Image" /></td>
</tr>
<tr>
<td>55MV/S</td>
<td>56K/N</td>
<td>76A/W</td>
<td>70GYM</td>
</tr>
<tr>
<td><strong>4R/290S overhead fixed adjustable</strong></td>
<td><strong>M12 Bolts not shown</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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.

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.

CHOICE OF HARDWARE

<table>
<thead>
<tr>
<th>TRACKS</th>
<th>ROLLERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram showing various track and roller options]</td>
<td>[Diagram showing various guide options]</td>
</tr>
</tbody>
</table>

QUANTITY REQUIRED PER GATE

<table>
<thead>
<tr>
<th>TRACK: OPENING WIDTH PLUS OVERHANG (See opposite)</th>
<th>ROLLERS</th>
<th>END GUIDES</th>
<th>TOP GUIDES</th>
<th>END ROLLERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram showing quantities]</td>
<td>[Diagram showing quantities]</td>
<td>[Diagram showing quantities]</td>
<td>[Diagram showing quantities]</td>
<td>[Diagram showing quantities]</td>
</tr>
</tbody>
</table>
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.

MANUAL

<table>
<thead>
<tr>
<th>GATE WEIGHT:</th>
<th>OPENING WIDTH (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400lbs.</td>
<td>6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32'</td>
</tr>
<tr>
<td>600lbs.</td>
<td>4' 4' 4' 5' 5' 6' 6' 7' 7' 8' 8' 9' 9' 10'</td>
</tr>
<tr>
<td>800lbs.</td>
<td>4' 5' 5' 6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11'</td>
</tr>
<tr>
<td>1000lbs.</td>
<td>5' 6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12'</td>
</tr>
<tr>
<td>1200lbs.</td>
<td>6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12' 12'</td>
</tr>
</tbody>
</table>

AUTOMATIC

<table>
<thead>
<tr>
<th>GATE WEIGHT:</th>
<th>OPENING WIDTH (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300lbs.</td>
<td>6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32'</td>
</tr>
<tr>
<td>400lbs.</td>
<td>6' 6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12'</td>
</tr>
<tr>
<td>500lbs.</td>
<td>6' 6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12'</td>
</tr>
<tr>
<td>600lbs.</td>
<td>6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12' 12'</td>
</tr>
<tr>
<td>700lbs.</td>
<td>6' 6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12'</td>
</tr>
<tr>
<td>800lbs.</td>
<td>6' 6' 7' 7' 8' 8' 9' 9' 10' 10' 11' 11' 12' 12'</td>
</tr>
</tbody>
</table>

Note: Rollers should be set as far apart as possible but allow space for end roller No. 701 (3/4") at both track ends.
HENDERSON

STAINLESS STEEL SLIDING DOOR HARDWARE

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

<table>
<thead>
<tr>
<th>Wood Doors</th>
<th>Stainless Track</th>
<th>280</th>
<th>290</th>
<th>301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hangers</td>
<td></td>
<td>284N</td>
<td>53</td>
<td>53</td>
</tr>
<tr>
<td>A</td>
<td>1-3/16&quot;</td>
<td>1-11/16&quot;</td>
<td>2-11/16&quot;</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Min.</td>
<td>9/16&quot;</td>
<td>7/8&quot;</td>
<td>1-1/4&quot;</td>
</tr>
<tr>
<td>Max.</td>
<td>15/16&quot;</td>
<td>1-1/8&quot;</td>
<td>2-3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>-</td>
<td>4-1/2&quot;</td>
<td>4-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>13/16&quot;</td>
<td>7/8&quot;</td>
<td>2-3/8&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metal Doors</th>
<th>Stainless Track</th>
<th>280</th>
<th>290</th>
<th>301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hangers</td>
<td></td>
<td>285N</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>A</td>
<td>1-3/16&quot;</td>
<td>1-11/16&quot;</td>
<td>2-11/16&quot;</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Min.</td>
<td>1/4&quot;</td>
<td>3/8&quot;</td>
<td>13/16&quot;</td>
</tr>
<tr>
<td>Max.</td>
<td>15/16&quot;</td>
<td>1&quot;</td>
<td>2-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>5/16&quot;</td>
<td>7/16&quot;</td>
<td>11/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

STAINLESS STEEL FOLDING HARDWARE ALSO AVAILABLE. SEE PAGE 82.
**280/SS, 290/SS, 301/SS**

**TRACK, GUIDE, CHANNEL, GUIDES**

<table>
<thead>
<tr>
<th>Track</th>
<th>Dimensions</th>
<th>Capacities for straight sliding doors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C</td>
<td>A</td>
</tr>
<tr>
<td>280/SS</td>
<td>1/16</td>
<td>1-1/8</td>
</tr>
<tr>
<td>290/SS</td>
<td>1/8</td>
<td>1-3/4</td>
</tr>
<tr>
<td>301/SS</td>
<td>3/16</td>
<td>2-5/8</td>
</tr>
</tbody>
</table>

**Material:** All track and channel in grade 316L (A4) stainless steel

**Supply lengths:** 2000mm (6’6”) and 3000mm (9’10”)

**Channel Dimensions**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>89/SS</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>1/8”</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Guide</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>31S/SS</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>5-3/8”</td>
</tr>
<tr>
<td>89/2N/SS</td>
<td>3/8”</td>
</tr>
</tbody>
</table>
STAINLESS STEEL BRACKETS
SOFFIT/FACE FIXED

<table>
<thead>
<tr>
<th>I/SS</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>281/SS</td>
<td>3/4”</td>
<td>1/4”</td>
<td>1-1/8”</td>
<td>1-5/8”</td>
<td>-</td>
<td>M5</td>
<td></td>
</tr>
<tr>
<td>1/290/SS</td>
<td>3-3/8”</td>
<td>3/4”</td>
<td>2”</td>
<td>1-5/8”</td>
<td>1”</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>1/301/SS</td>
<td>4-3/8”</td>
<td>1-1/8”</td>
<td>2-5/8”</td>
<td>2-5/8”</td>
<td>1-1/4”</td>
<td>M10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IX/SS</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1X/290/SS</td>
<td>3-3/8”</td>
<td>3/4”</td>
<td>2”</td>
<td>3-7/8”</td>
<td>1”</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>1X/301/SS</td>
<td>4-3/8”</td>
<td>1-1/8”</td>
<td>2-5/8”</td>
<td>4-1/2”</td>
<td>1-1/4”</td>
<td>M10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3/SS</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/290/SS</td>
<td>2-7/8”</td>
<td>-</td>
<td>3-1/2”</td>
<td>1-5/8”</td>
<td>2-1/2”</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>3/301/SS</td>
<td>3-7/8”</td>
<td>-</td>
<td>5-3/8”</td>
<td>2-3/8”</td>
<td>4-1/8”</td>
<td>M10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3X/SS</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>3X/290/SS</td>
<td>2-7/8”</td>
<td>-</td>
<td>3-1/2”</td>
<td>1-5/8”</td>
<td>2-1/2”</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>3X/301/SS</td>
<td>3-7/8”</td>
<td>-</td>
<td>5-3/8”</td>
<td>2-3/8”</td>
<td>4-1/8”</td>
<td>M10</td>
<td></td>
</tr>
</tbody>
</table>

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”.
Jointing brackets are required at each track joint; the letter “X” denotes the jointing 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

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/290/SS</td>
<td>2-7/8”</td>
<td>-</td>
<td>1-5/8”</td>
<td>3-1/2”</td>
<td>2-1/2”</td>
<td>M8</td>
</tr>
<tr>
<td>4/301/SS</td>
<td>3-7/8”</td>
<td>-</td>
<td>2-3/8”</td>
<td>5-3/8”</td>
<td>4-1/8”</td>
<td>M10</td>
</tr>
</tbody>
</table>

### 4R/SS Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>4R/280/SS</td>
<td>2”</td>
<td>2”</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>M8</td>
</tr>
<tr>
<td>4R/290/SS</td>
<td>2”</td>
<td>1-5/8”</td>
<td>2”</td>
<td>2-1/4”</td>
<td>M10</td>
</tr>
<tr>
<td>4R/301/SS</td>
<td>2-1/2”</td>
<td>2-5/8”</td>
<td>2-5/8”</td>
<td>3-1/8”</td>
<td>M12</td>
</tr>
</tbody>
</table>

### 4X/SS Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>4X/290/SS</td>
<td>3-7/8”</td>
<td>2”</td>
<td>2-1/4”</td>
<td>M10</td>
<td></td>
</tr>
<tr>
<td>4X/301/SS</td>
<td>4-1/2”</td>
<td>2-5/8”</td>
<td>3-1/8”</td>
<td>M12</td>
<td></td>
</tr>
</tbody>
</table>

### 4RX/SS Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>4RX/280/SS</td>
<td>2”</td>
<td>2”</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>M8</td>
</tr>
<tr>
<td>4RX/290/SS</td>
<td>2”</td>
<td>3-7/8”</td>
<td>2”</td>
<td>2-1/4”</td>
<td>M10</td>
</tr>
<tr>
<td>4RX/301/SS</td>
<td>2-1/2”</td>
<td>4-1/2”</td>
<td>2-5/8”</td>
<td>3-1/8”</td>
<td>M12</td>
</tr>
</tbody>
</table>

### HH3/SS Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH3/290/SS</td>
<td>1-1/4”</td>
<td>1-1/4”</td>
<td>4”</td>
</tr>
<tr>
<td>HH3/301/SS</td>
<td>1-5/8”</td>
<td>1-5/8”</td>
<td>5”</td>
</tr>
</tbody>
</table>

### 109/SS Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>109/SS</td>
<td>2-1/2”</td>
<td>2”</td>
<td>1/2”</td>
</tr>
</tbody>
</table>

**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 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

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Hanger</th>
<th>Dimensions</th>
<th>Max. Door</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A  B  C  D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>284/SS</td>
<td>2&quot; 1-1/8&quot; 7/8&quot; 3-1/8&quot;</td>
<td>8</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>280</td>
<td>285/SS</td>
<td>2&quot; 1-1/8&quot; - -</td>
<td>8</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>280</td>
<td>284/SS</td>
<td>2-1/2&quot; - 7/8&quot; 3-1/8&quot;</td>
<td>8</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>280</td>
<td>285/SS</td>
<td>2-1/2&quot; 1-1/8&quot; - -</td>
<td>8</td>
<td>200 lbs.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Hanger</th>
<th>Dimensions</th>
<th>Max. Door</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A  B  C  D  E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>290</td>
<td>53/290/SS</td>
<td>3-3/8&quot; 7-1/8&quot; 3&quot; 1-1/2&quot;</td>
<td>1-3/4&quot;-2-1/4&quot; 1/8&quot;</td>
<td>300 lbs.</td>
</tr>
<tr>
<td>301</td>
<td>53/301/SS</td>
<td>5-3/8&quot; 7-1/8&quot; 3&quot; 1-7/8&quot;</td>
<td>1-3/4&quot;-2-1/4&quot; 1/8&quot;</td>
<td>600 lbs.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Hanger</th>
<th>Dimensions</th>
<th>Max. Door</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A  B  C  D  E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>290</td>
<td>56/290/SS</td>
<td>3-3/8&quot; 1-5/8&quot; 1-1/8&quot;</td>
<td>1-1/2&quot; M10</td>
<td>300 lbs.</td>
</tr>
<tr>
<td>301</td>
<td>56/301/SS</td>
<td>5-3/8&quot; 3-1/8&quot; 1-3/4&quot;</td>
<td>2&quot; M16</td>
<td>600 lbs.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Hanger</th>
<th>Dimensions</th>
<th>Max. Door</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A  B  C  D  E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>290</td>
<td>57/290/SS</td>
<td>3-3/8&quot; 1-1/2&quot; 7-3/8&quot;</td>
<td>1/8&quot; 1-1/2&quot;</td>
<td>300 lbs.</td>
</tr>
<tr>
<td>301</td>
<td>57/301/SS</td>
<td>5-3/8&quot; 1-1/2&quot; 7-3/8&quot;</td>
<td>1/8&quot; 2&quot;</td>
<td>600 lbs.</td>
</tr>
</tbody>
</table>

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.
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.

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

**HINGES**

**Hinge Installation**

**65B/40**

- Standard Fixing to Post (Flush) Hinge 65B/20
- Distance from the edge of the door leaf to the centre of the hinge
  - 15 (5/8")
- Door Just Folding

**65B/20-40**

- Standard Fixing to Post (Flush) Hinge 65B/20-40
- Rubber Sealing not by PCH
- Standard Fixing to Post (Flush) Hinge 65B/20
- Distance from the edge of the door leaf to the centre of the hinge
  - 20 (9/8")

**65B/20**

- Standard Fixing to Post (Flush) Hinge 65B/20
- Distance from the edge of the door leaf to the centre of the hinge
  - 15 (5/8")

**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

---

**Flexirol 556 Junctions/Intersects (Top Views)**

45R/550

45L/550

H135/550

H90C/550

---

**Flexirol 555 Juncions/Intersects**

H90/550

TW/550

---

**Brackets**

Pacer Bracket 1B

Pacer Jointing Bracket 1BX

---

Pacer track supplied in mill finish as standard. Flexirol track supplied in mill finish and RAL 9010 as standard.
**FLEXIROL HANGERS (90° movement)**

- **555/21**
  - (Top) Dimensions:
    - 152 (6")
    - 155 (6½")
    - 81 (3½")
    - 38 (1½")
  - (Bottom) Dimensions:
    - 25 (1")
    - 13 (½")

- **555/61**
  - (Top) Dimensions:
    - 152 (6")
    - 155 (6½")
    - 81 (3½")
    - 38 (1½")
  - (Bottom) Dimensions:
    - 25 (1")
    - 13 (½")

**PIVOT SETS**

- **21B/P (Top)**
  - Dimensions:
    - 155 (6½")
    - 38 (1½")
    - 152 (6")
  - (Bottom) Dimensions:
    - 25 (1")
    - 13 (½")

- **21K/PX (Top)**
  - Dimensions:
    - 155 (6½")
    - 38 (1½")
    - 152 (6")
  - (Bottom) Dimensions:
    - 25 (1")
    - 13 (½")

**555**

- Dimensions:
  - 81 (3½")
  - 38 (1½")

**Bolt M6**

- Dimensions:
  - 45 (1½")
  - 40 (1")
Loose Bolt

EF09

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

For glass cutting dimensions contact Henderson.

ACCESSORIES AND STOPS
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.
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. Jointing brackets are only required at track curve ends. Maximum bracket spacing is every 3 ft.
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.

### Dimensions

<table>
<thead>
<tr>
<th>Track no.</th>
<th>Hanger no.</th>
<th>Dimensions</th>
<th>Door Weight Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>290</td>
<td>5AX/N</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>100 lbs. 200 lbs.</td>
</tr>
<tr>
<td>301</td>
<td>5AX/S</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>501H</td>
<td>5AX/S</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>307</td>
<td>5AX/N</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
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<th>Hanger no.</th>
<th>Dimensions</th>
<th>Door Weight Capacity</th>
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<tbody>
<tr>
<td>290</td>
<td>5AX/N</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>100 lbs. 200 lbs.</td>
</tr>
<tr>
<td>301</td>
<td>5AX/S</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>501H</td>
<td>5AX/S</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>307</td>
<td>5AX/N</td>
<td>3% 3% 1% 1% 1% 1%</td>
<td>200 lbs.</td>
</tr>
</tbody>
</table>
No. 31S 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. 126HD/A Ground Stay Rollers - Provides clear threshold - Nylon Rollers, covered by shield 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 electronic 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. 103R Roller Guide - General purpose guide suitable for most applications. Economical yet very strong. Use with channel Nos. 89 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 Nos. 67/89 for track 290 and channel 89. No. 67/97 for track 301 and 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 and 301H and channel 97. No. 68C/97 for track 305 and channel 97.

No. 21R End Fold Guide - folding doors No. 21RK/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. 994G 1/2” electro galvanized steel shoot with socket for concrete, when required.

No. 994X Offset Cane Bolt - No. 994X 11/2” electro galvanized steel shoot with socket for concrete.

No. 994R Roller Guide Cane Bolt - No. 994R 1/2” electro galvanized steel shoot with brass roller. Use with channel Nos. 89 or 97.

No. 994S Locking Cane Bolt - No. 994S 11/2” electro galvanized steel shoot with socket for concrete. Use with padlock (Not by PCH).

No. 77 Flush Bolt - No. 77 suitable for framed doors with bottom rail up to 6” x 1/2”. Grey painted steel. No. 78 suitable for framed doors with bottom rails up to 9” x 1/2”. Grey painted steel.

No. 78 Flush Bolt - Designed for fitting to side of flush doors minimum 3” x 1/16”. Grey painted steel.

No. 533 Semi-Flush Bolt - 6” x 1/16” aluminum alloy in satin anodized finish.

No. 454 Semi-Flush Bolt - 7/8” x 1/16” aluminum alloy in satin anodized finish.

No. 863 Bow Handle - Grey painted iron. 5 1/2” x 1/16”

No. 463 Bow Handle - Grey painted iron. 6 5/8” x 1/16”

No. 464 Bow Handle - Grey painted iron. 10 1/2” x 1/16”

No. 400 Flush Pull - Aluminium alloy in satin anodized finish. 4 1/2” x 1 1/4” with 1 1/8” hole centres.

No. 414 Flush Pull - Aluminium self finish. 3 1/4” x 2 1/4” with 1” hole centres.

No. 413 Flush Pull - Heavy duty Grey painted iron. 6” x 3” with 1 1/4” mortise.

No. 113 Corner Protection Plates - Rustproofed by electronic plating. Fit a pair on the leading door edge.

No. 109 Single Wall or Ground Stop - Grey painted steel with rubber buffer. For light doors. Fit on wall, ½ up door height.

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

No. 107 Single Wall Stop - Grey painted steel with rubber buffer. For medium weight doors, fit one on wall, ½ 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. Aluminium. No. 65C track 305. Grey painted iron.

No. 403 Butt Hinge - No. 403/1 1 1/4” x 2 1/2” aluminium alloy. No. 403/2 4” x 2 1/2” aluminium alloy. No. 403/3 4” x 3” aluminium alloy.

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