HENDERSON

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PEMK

COMMERCIAL AND INDUSTRIAL SLIDING AND FOLDING DOOR HARDWARE

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Glass Doors

up to 220 lbs. Wood and Aluminum

Glass Doors

up to 1100 lbs.

Doors up to 1100 lbs

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<u>Henderso</u>N

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

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

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

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

HENDERSON COMMERCIAL RANGE

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

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

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





INDUSTRIAL & STAINLESS STEEL TRACK AND HARDWARE





290-307 FOR STRAIGHT SLIDING WOOD DOORS

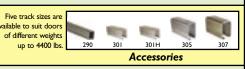
APPLICATIONS

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



For straight sliding wood doors, the following are included:

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



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

For commercial applications wood doors may be of flush construction, or fully glazed for showrooms.

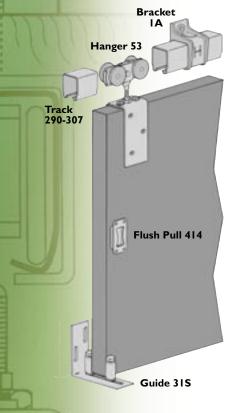
COMPOSITION

Use the table below to estimate the ap	proximate weight
(pounds per square foot) of doors of c	lifferent materials.

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

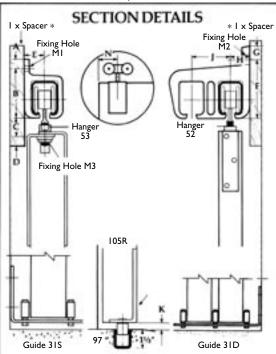


Track:	Cold-rolled steel section hot-dip galvanized.
Brackets:	Cast aluminum alloy or pressed steel.
	Suitable brackets available for single, double and triple run applications.
	Track ends closed by end-clips or closed brackets.
Hangers:	Fitted with maintenance-free precision needle bearings, sealed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

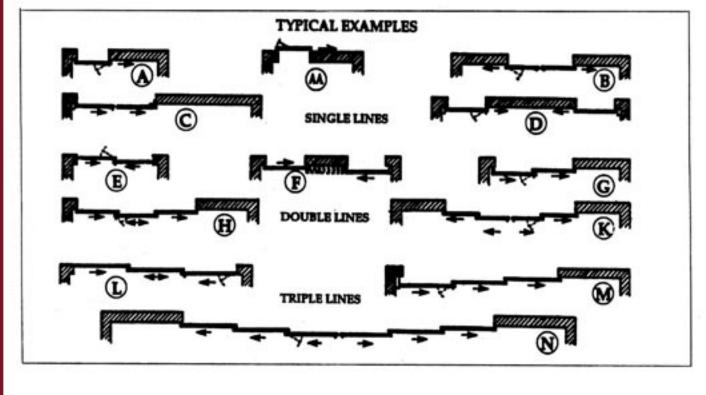


All Dimensions in Feet and Inches						
Track	280	290	301/ 301H	305	307	
Α	³ / ₄	1/2	³ / ₄	1	1	
В	1 ⁹ / ₁₆	15//8	3 ¹³ / ₁₆	5 ¹ / ₂	6 ¹ / ₈	
С	³ / ₄	1	2	2	2 %	
D	1/ ₂	1/2	1	1	1 ¹ / ₂	
E	5 _{/8}	1 ¹ / ₁₆	1 ³ / ₈	1 ¹ / ₂	1 ³ / ₄	
F		3 ⁵ / ₃₂	4 ³ / ₈	6 ¹ / ₈	7 ⁹ / ₁₆	
G		³ / ₄	1 ⁵ / ₁₆	1 ¹ / ₂	1	
Н		1 ¹ / ₁₆	1 ¹ / ₂	1 ⁷ /8	1 ³ / ₄	
J		2 ¹ / ₈	3 ¹ / ₈	3 ⁵ / ₈	35/8	
К	3/8	3/8	3/8	1/2	1/2	
M1	8G	⁵ / ₁₆	1/ ₂	5/ ₈	⁵ /8	
M2		1/2	⁵ /8	³ / ₄	3 _{/4}	
M3		7 _{/16}	³ / ₄	³ / ₄	1	
N	1 ¹ / ₂	2	3	3½	4 ¹ / ₂	

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



B NAME	HT SLIDING TRA	QUOTE D ORDER D
Type of Track Required or Proposed: Top Hung	Bottom Roller	
Position of Door: Exterior (exposed)	ior (inside building)	
Width of Opening:		
Height of Opening:		
Proposed Number of Doors:		
Door Thickness (1-3/8" min 2-1/4" max.):	0	her:
Door Material: Solid Core Leadlined Glazed	Metal Frame Hollowcore	if metal frame or leadlined, give details under question 16
Door Weight:		
Do Doors Slide within Opening (as in plan "E" or "L"):	? if NO, go to question 11	if YES, go to question 13
When Looking at the Door from the Inside of the Build	ing, do Doors Slide: 🗌 Both Ways	Left Only Right Only
Do the Doors Slide: Inside the Building (as in plan "A")	Outside the B	uilding (as in plan "AA")
How Many Lines of Track? One Two	Three	
Bracket Mounting: Sidewall Overhead		
Depth of Header: Width of F	leader:	
Door Construction (metal doors):	Box Frame (depth of section 0	6") Channel Frame Special Frame/Leadlined
Type of Floor: Asphalt Conceste	Steel No Floor (elevat	ed opening) Wood Tile
Type of Wheel Preferred (top hung only - tracks 305 & :	307 have steel only): 🗌 Nylon	Steel
Security: Lock Bolt Unsecured	Will look half be used from the or	one side of door as doors hung – YES or NO



2909-307 HARDWARE KIT FOR STRAIGHT Max. Door Height up to 10 ft. up to 10 ft. up to 10 ft. Max. Door Weight up to 300-400 lbs.* up to 600-800 lbs.* Door Thickness 1 ¹ /2-2" 1 ³ /4-2 ¹ /4" KIT NUMBER 290 301 Track 290 301 Brackets (one bracket for 1/229 3/229 5/299 1A/301 3A/301 5/301	
Max. Door Weight up to 300-400 lbs.* up to 600-800 lbs.* Door Thickness 1 ¹ /2-2" 1 ³ /4-2 ¹ /4" KIT NUMBER 290 301 Track 290 301 I/220 3A/290 5/290	
Door Thickness I ¹ /2-2" I ³ /4-2 ¹ /4" KIT NUMBER 290 301 Track 290 301 I/2-2 301 301 I/2-2 301 301	
KIT NUMBER 290 301 Track 290 301 Image: Second state	
Track 290 301 IA/290 3A/290 5/290 IA/301 5/301	
IA/290 3A/290 5/290 IA/301 3A/301 5/301	
every three feet of track)	
Jointing Brackets available for joining two pieces of track at bracet (i.e. <i>IAX/301</i>)	
Hangers (two per door) Hangers (two per door) S2K/N 300 lb. door door top/ledge mount S3K/N 300 lb. door* door top mount w/door face flanges S3K/S200 400 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 IO7 single wall stope-double rubber buffers	
Guides (three per door) ^{31S} ¹²⁶ ¹²⁶ ¹²⁶ ¹²⁶ ¹²⁶ ^{13S} ^{31D} ^{double wall mounted stay roller ^{106R} ¹⁰⁶ ¹⁰⁵ ^{roller} ^{106r} ¹⁰⁶ ^{roller} ^{106r} ¹⁰⁶ ¹⁰⁵ ^{roller} ^{106r} ¹⁰⁶ ¹⁰⁵ ^{roller} ^{106r} ¹⁰⁶ ¹⁰⁵ ^{roller} ^{106r} ¹⁰⁶ ¹⁰⁵ ^{roller} ^{106r}}	
Guide Channel 94A or 94B 89 steel guide 97 steel guide channel 97 steel guide channel guide channel guide channel 97 steel guide 97 steel guide channel 97 steel guide channel	
Flush Pulls 414 flush pull	
Bow Handles 463 bow handle - 61/4" 863 bow handle - 51/4" 463 bow handle - 61/4"	

SLIDING WOOD DOORS (complete, ready to install)

up to 14 ft. up to 1000 lbs.	up to 16 ft.	up to 20 ft.		
up to 1000 lbs		up to 20 ft.		
	up to 1500 lbs.	up to 4400 lbs.		
I ³ /4-2 ¹ /4"	l ³ /4-2 ¹ /4"	2 ³ /8-2 ³ /4"		
30IH	305	307		
301H	305	307		
overhead-use for overhead- sidewall-use for ov ample installation suspended ample installation and	IA/305 sidewall-use for installation space AA/305 sysce AA/305 sysce AA/305 sysce AA/305 sysce AR/305S overhead-use for invertiend- space AR/305S overhead-use for invertiend- space AR/305S overhead-use for invertiend- space AR/305S overhead-use for invertiend- space AR/305S overhead-use for invertiend- suspended AR/305S	1/307/S 3/307S 5/307/S sidewall-use for limited installation space overhead-use for installation sidewall double track 4/307S 4R/307S overhead-use for supple installation 4R/307S overhead-use for ample installation space installation installation		
52A/N 1000 lb. door door top/edge mount 53A/N 1000 lb. door door top mount w/door face flanges	S2C/S IS00 lb. door door top/edge mount S3C/S IS00 lb. door door top mount S3C/S IS00 lb. door door top mount w/door face flanges	S3FJ/S 400 lb. door door top mount w/door face flanges		
HH3/301 track mounted double fastener stop	107 single wall stop-double rubber buffers	not required		
31S single wall mounted stay roller 31D double wall mounted stay roller	315 single wall mounted stay roller	31S single wall mounted stay roller		
97 steel guide channel	97 steel guide channel 89 steel guide channel	97 steel guide channel 89 steel guide channel channel		
414 flush pull	414 flush pull	413 flush pull		
463 bow handle - 6 ¹ /4"	463 bow handle - 6 ¹ /4"	464 bow handle - 101/4"		

290 - 307FOR STRAIGHT **SLIDING METAL** DOORS

For straight sliding metal doors, the following are included:

Support brackets and track

- Hangers
- ♦ Guides
- Full range of accessories



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 alumi-

num framed doors Use the table below to estimate the approximate weight are to be used, type of hanger required will depend on door section.

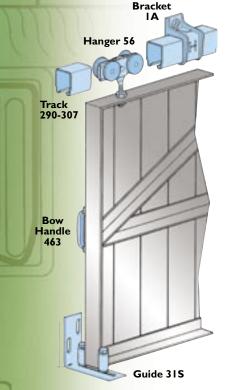
(pounds per square foot) of doors of different materials.		
Door Type	lbs./sq. ft.	
Hollow Metal 18 ga	4.6 lbs.	
Hollow Metal 16 ga	5.8 lbs.	
Flush Wood, Particleboard Core	4.8 lbs.	
Flush Wood, Stave Core	4.3 lbs.	
Flush Wood, Mineral Core	4.7 lbs.	

APPLICATIONS

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

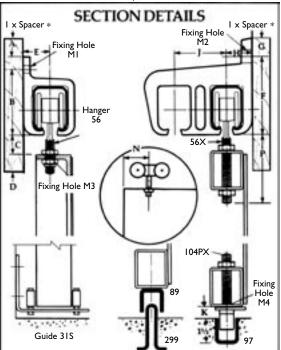


COMPOSI	COMPOSITION		
Track:	Cold-rolled steel section hot-dip galvanized.		
Brackets:	Cast aluminum alloy or pressed steel.		
	Suitable brackets available for single, double and triple run applications.		
	Track ends closed by end-clips or closed brackets.		
Hangers:	Fitted with maintenance-free precision 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 104P or 104PX.		
Door Stops			
& Accessorie	es: In painted or galvanized steel.		

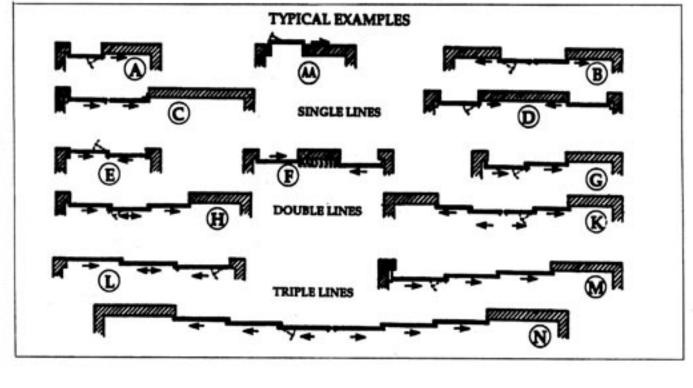


All Dimensions in Feet and Inches					
Track	280	290	301/ 301H	305	307
Α	1/ ₄	1/2	³ / ₄	1	1
В	1 ^{9/} 16	1 ⁵ / ₈	3 ¹³ / ₁₆	5 ¹ / ₂	6 ¹ / ₈
С	3 _{/4}	1	2	2	2 %
D	1/2	1/2	1	1	1 ¹ / ₂
Е	5 _{/8}	1 ¹ / ₁₆	1 ³ / ₈	1 ¹ / ₂	1 ³ / ₄
F		3 ⁵ / ₃₂	4 ³ / ₈	6 ¹ / ₈	7 ⁹ / ₁₆
G		³ / ₄	1 ⁵ / ₁₆	1 ¹ / ₂	1
Н		1 ¹ / ₁₆	1 ¹ / ₂	1 ⁷ /8	1 ³ / ₄
J		2 ¹ / ₈	3 ¹ / ₈	3 ⁵ /8	35/8
К	3/8	3/8	3/8	1/2	1/2
M1	8G	⁵ / ₁₆	1/2	⁵ /8	5/ ₈
M2		1/ ₂	5 _{/8}	3 _{/4}	³ / ₄
M3	1/8	7 _/ 16	¹¹ / ₁₆	¹¹ / ₁₆	1/ ₈
M4	¹¹ / ₁₆	¹¹ / ₁₆	¹¹ / ₁₆	¹³ / ₁₆	¹³ / ₁₆
N	1 ¹ / ₂	2	3	3 ¹ / ₂	4 ¹ / ₂
Р		4 ³ / ₈	5½	5 ¹ / ₂	5 ¹ / ₂

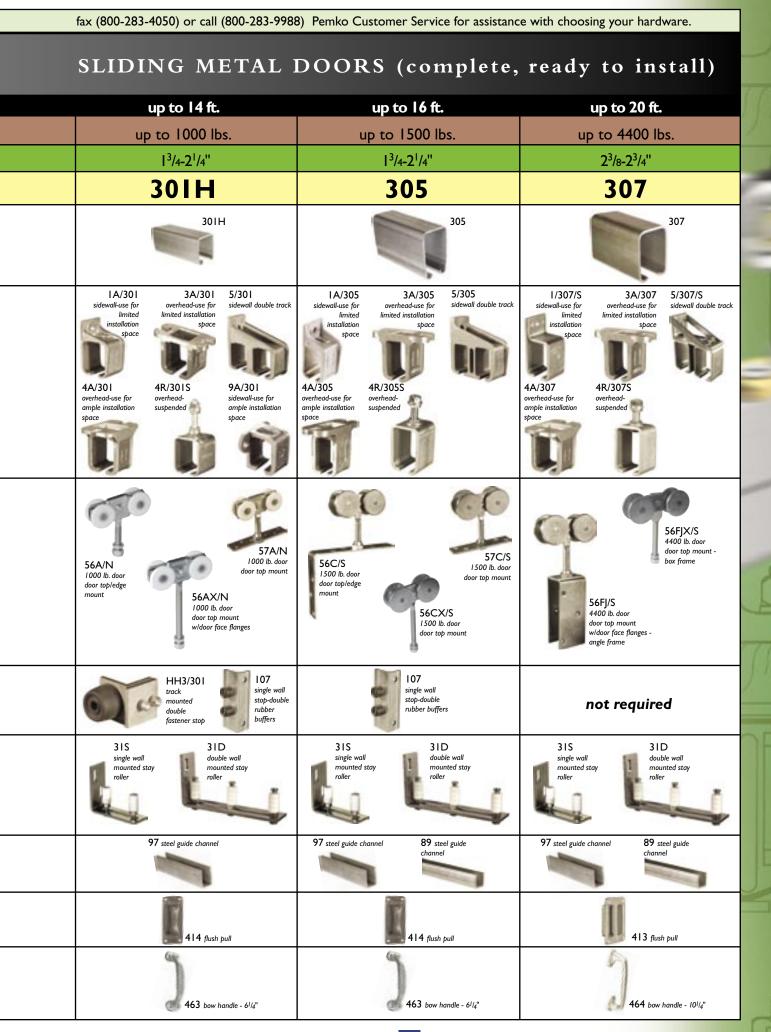
*When using 280 or 290 track with doors 1-3/8" and thicker for a sidewall condition, a spacer must be used behind the bracket.



DB NAME	IT SLIDING TRA	QUOTE QUOTE ORDER
Type of Track Required or Proposed: Top Hung	Bottom Roller	
	er (inside building)	
Width of Opening:		
Height of Opening:		
Proposed Number of Doors:		
Door Thickness (1-3/8" min 2-1/4" max.):	0	ther:
Door Material: Solid Core Leadlined Glazed	Metal Frame Hollowcore	if metal frame or lendlined, give details under question i
Door Weight:		
Do Doors Slide within Opening (as in plan "E" or "L")?	if NO, go to question 11	#YES, go to question 13
When Looking at the Door from the Inside of the Building	ng, do Doors Slide: 🗌 Both Ways	Left Only Right Only
Do the Doors Slide: Inside the Building (as in plan "A")	□Outside the B	uilding (as in plan "AA")
How Many Lines of Track? One Two	Three	
Bracket Mounting: Stdewall Overhead		
Depth of Header: Width of H	eader:	
Door Construction (metal doors):	Box Frame (depth of section (0-6") Channel Frame Special Frame/Leadlin
Type of Floor: Asphalt Conceste	Steel No Floor (eleval	ted opening) Wood Tile
Type of Wheel Preferred (top hung only - tracks 305 & 3	07 have steel only): 🗌 Nyton	Steel
Security: Lock Dolt Unsecured	Will lock bolt be seen from the se	one side of door as doors hung – YES or NO
Number of Identical Openings:		



	Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and			
	290-307	HARDWARE KIT	FOR STRAIGHT	
	Max. Door Height	up to 10 ft.	up to 12 ft.	
	Max. Door Weight	up to 300-400 lbs.*	up to 600-800 lbs.*	
	Door Thickness	¹ /2 -2 "	³ /4-2 ¹ /4"	
5	KIT NUMBER	290	301	
	Track	290	301	
	Brackets (one bracket for every three feet of track)	IA/290 sidewalLuse for limited installation space space space	IA/301 3A/301 5/301 sidewall-use for limited installation installation space	
	Jointing Brackets available for joining two pieces of track at bracet (i.e. IAX/301)	4A/290 overhead-use for ample installation space 4R/290S overhead- suspended Sus	4A/301 overhead-use for ample installation space ample installation space ample installation space ample installation space	
	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	S6AX/S 600 lb. door door top mount w/door face flanges 600 lb. door* door top/edge mount 56A/N 800 lb. door* door top/edge mount 56A/N 800 lb. door* door top/edge mount 56A/N 800 lb. door* door top mount 56A/N 800 lb. door* door top mount 56A/N 800 lb. door* door top mount 56A/N 800 lb. door* door top mount 56A/N 800 lb. door* door top mount 57A/S 500 lb. door* door top mount 57A/S 500 lb. door* door top mount 57A/S 500 lb. door* door top mount 57A/S 500 lb. door* door top mount 57A/N 800 lb. door* door top mount 57A/N 800 lb. door* door top mount 57A/N 800 lb. door* door top mount 57A/N 800 lb. door*	
	Stops (two per door)	double fastener single wall or ground stop	HH3/301 track mounted double fastener stop	
	Guides (three per door)	31S single wall mounted stay roller 106R under guide roller 126HD/A heavy duty ground stay roller 126 ground stay roller 126 ground stay roller 105 roller	31S single wall mounted stay roller Single wall mounted stay roller	
	Guide Channel	94A or 94B aluminum or brass guide channel guide channel	97 steel guide channel	
	Flush Pulls	414 flush pull	414 flush pull	
	Bow Handles	463 bow handle - 61/4"	863 bow handle - 5 ¹ /4" 463 bow handle - 6 ¹ /4"	



MANSION/ MAJESTIC

FOR STRAIGHT SLIDING WOOD DOORS

For straight sliding wood doors, the following are included:

- ◆ Top guide brackets and top guide, or top guide only
- Top guide Rollers
- Bottom RollersBottom 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.

	(pounds per square foot) of doors of different materials.			
l	Door Type	lbs./sq. ft.		
I	Hollow Metal 18 ga	4.6 lbs.		
L	Hollow Metal 16 ga	5.8 lbs.		
I	Flush Wood, Particleboard Core	4.8 lbs.		
L	Flush Wood, Stave Core	4.3 lbs.		
	Flush Wood, Mineral Core	4.7 lbs.		

Use the table below to estimate the approximate weight

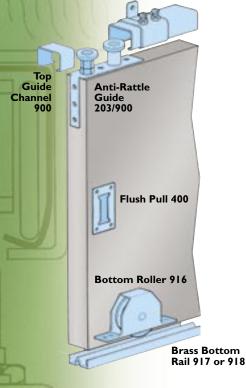
APPLICATIONS

 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.



COMPOSITION	
<u>Track</u> :	Cold-rolled steel section hot-dip galvanized. Aluminum
Brackets:	channel section for lighter doors. Pressed steel, painted finish. Single and double side wall fixing. Side ear overhead fixing.
<u>Top Guide Rollers</u> :	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.
<u>Bottom Rail</u> :	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.
<u>Flush Pull</u> :	In satin anodized aluminum.

Bracket 1/900



All Dimensions in Feet and Inches

Track A

В

С

D E F

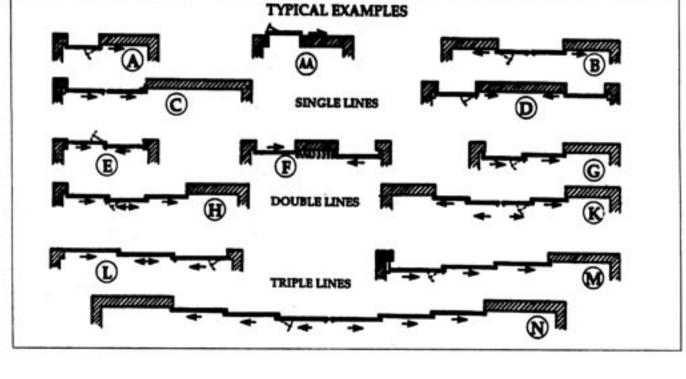
G H J

K L

М

Mansion	Majestic	SECTION DETAILS
7/8	1 ¹ / ₄	
1 ⁷ /8	3 ¹ / ₄	
1 _{/4}	1/ ₄	
3/8	1 _{/2}	* + + +
1	1 ³ / ₈	* () * *
1 _{/4}	1/ ₄	
5 _{/8}	5 _{/8}	
5 _{/8}	7 _{/8}	
1 ¹ / ₄	1 ¹ / ₂	
1 _{/4}	⁵ /16	
2 ¹ / ₄	4 ³ / ₈	
4 ⁵ / ₈	9	

OB NAME	RAIGH	IT SLIDI	NG TRA		ΈQ	ORDER C
. Type of Track Required or Proposed:	· · · ·	Bottom Reli				
Position of Door: Exterior (exposed)	Top Hung	r (inside building)	cr.			
Width of Opening:	C_ mark	e (notor outility)				
Height of Opening:						
Proposed Number of Doors:						
Door Thickness (1-3/8" min 2-1/4" m	ax.):		Oth	wr:		
Door Material: Solid Core Leadlined	Glazed	Metal Frame	Hollowcore	if metal frame or lead	lined, eine detail	under question 16
Door Weight:						
Do Doors Slide within Opening (as in plan	"E" or "L")?	if NO, go to qu	rstime 11	#YES, go to question	13	
When Looking at the Door from the Insid		ng, do Doors Slid	le: Both Ways	Left Only	Right Or	the state
Do the Doors Slide: Deside the Building (as	in plan."A")		Outside the Bu	ilding (as in plan "AA")	
How Many Lines of Track?	Two	Three				
Bracket Mounting: Sidewall	Overhead					
Depth of Header:	Width of H	eader:				
Door Construction (metal doors):	Angle Frame	Box Fram	e (depth of section 0-	6") 🗌 Channel Fram	e Specia	I Frame/Leadline
Type of Floor: Asphalt D	Concrete	Steel	No Floor (elevated	d opening)	Wood	The
Type of Wheel Preferred (top hung only -	tracks 305 & 3	07 have steel only	y): Nylon	Steel		
Security: Lock Dolt	Unsecured	Will lock b	olt be seen from the sam	w side of door as doors h	ung – YES or N	0
Number of Identical Openings:						
• •						



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

MANSION/MAJESTIC HA

HARDWARE KIT FOR

	0	
	Max. Door Height	up to 8 ft.
	Max. Door Weight	up to 120 lbs.
	Door Thickness	¹ /4-2 ¹ /4"
Contraction of the local distribution of the	Top Guide Channel	94A
	Brackets (one bracket for every three feet of track)	not required
1	Guides (two per door)	113R/94 106R/94 120 lb. door 120 lb. door Steel plate with Steel plate with brass roller. brass roller. Ideal for small, light doors Not recommended especially internal applications. Not for heavy doors or recommended for dirty conditions.
1	Bottom Rollers (two per door)	913N steel electrozinx plated body with nylon wheel and silver steel axle for light doors
	Bottom Rail	915A aluminum drilled and countersunk for light doors
	Flush Pull	400 in satin anodized aluminum
The second secon	Bow Handle	863 bow handle - 51/4"
	Optional Extras	

STRAIGHT SLIDING WOOD DOORS (complete, ready to install)

up to 9 ft.	up to 11 ft.	11
up to 380 lbs.	up to 600 lbs.	1
I ¹ /4-2 ¹ /4"	¹ /4-2 ¹ /4"	
900	900	Contra I
I/900 sidewall-use for limited installation space	I/900 sidewall-use for limited installation space Sidewall dual track	
203/900 Concealed edge fixing with electroxic plated aprons and double adjustable anti-ratie nylon rollers. Concealed edge fixing with electrozinc plated aprons and brass rollers for light doors.	203/900 Concealed edge fixing with electrozinc plated aprons and double adjustable anti-ratile nylon rollers. Concealed edge fixing with electrozinc plated aprons and brass rollers for light doors.	
913XB steel or aluminum body with brass wheel and ball journal bearings	916 steel or aluminum body with brass wheel and ball journal bearings	JI
918 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar 815 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar	917 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar 817 brass drilled and countersunk for wood floor or lugged for concrete, or brass partly recessed providing weather bar	T
400 in satin anodized aluminum	400 in satin anodized aluminum	
 863 bow handle - 51/4"	863 bow handle - 51/4"	
917/918 lug use with 917/918 cup for fixing rail to concrete 917/918 cup (coupler) use with 917/918 lug for fixing rail to concrete	917/918 lug use with 917/918 cup for fixing rail to concrete 917/918 cup (coupler) use with 917/918 lug for fixing rail to concrete	
		-

Sherwood

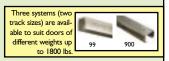
FOR STRAIGHT SLIDING WOOD DOORS

APPLICATIONS

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

For straight sliding wood doors, the following are included:

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

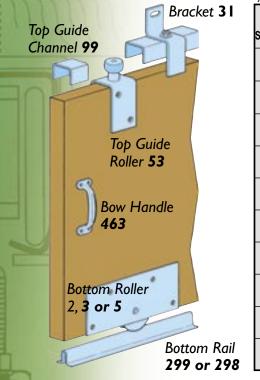


For best operation, door width should not be less than half the door height. Wood doors should be framed, ledged and braced for industrial application or may be partly or fully glazed. The rollers should be positioned in the bottom rail of door clear of the joints with the stiles. 9" deep bottom

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

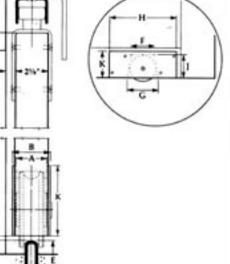
COMPOSITION	
Top Guide Channel:	Cold-rolled steel section.
Brackets:	Pressed steel, painted finish. Single and double side wall fixing.
Top Guide Rollers:	Steel electrozinc plated or painted aprons with nylon or brass rollers.
Bottom Rollers:	Cast iron wheels fitted with roller bearings and grease nipples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



All Dimensions in Feet and Inches					
System	225	350	800	SI NB	
A	1 ³ / ₄	1 ³ / ₄	2	2' She	
В	2	2 ¹ / ₈	2 ¹ / ₂		
С	5 _{/8}	3 _{/4}	2 ¹ / ₂ ³ / ₄	1 F	
D	1	1	1 ³ / ₁₆	10" 216" ·	
Е	1	1	1	L.	
F	2 ¹ / ₂	4 ¹ / ₂	5 ³ /8		
G	4	4 ¹ / ₂ 5 ³ / ₈	5 ³ / ₈ 6 ⁷ / ₈	Ŕ	
Н	6 ¹ / ₄ 2 ⁵ / ₈	12	15		
J	2 ⁵ /8	3 ³ / ₄	5 ¹ / ₈	: 0	
K	3	4	6		







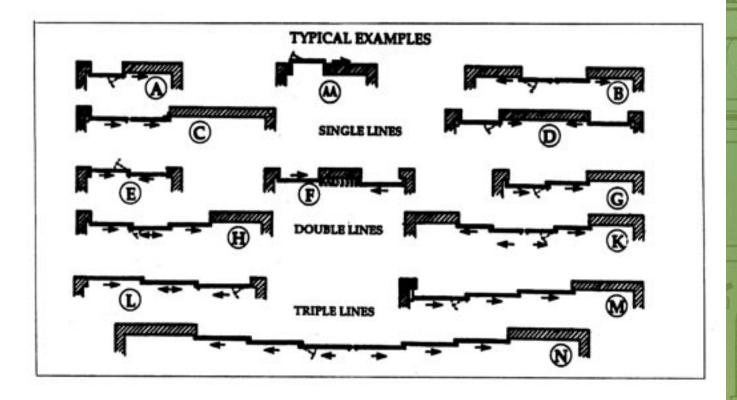
STRAIGHT SLIDING TRACK

JOB NAME

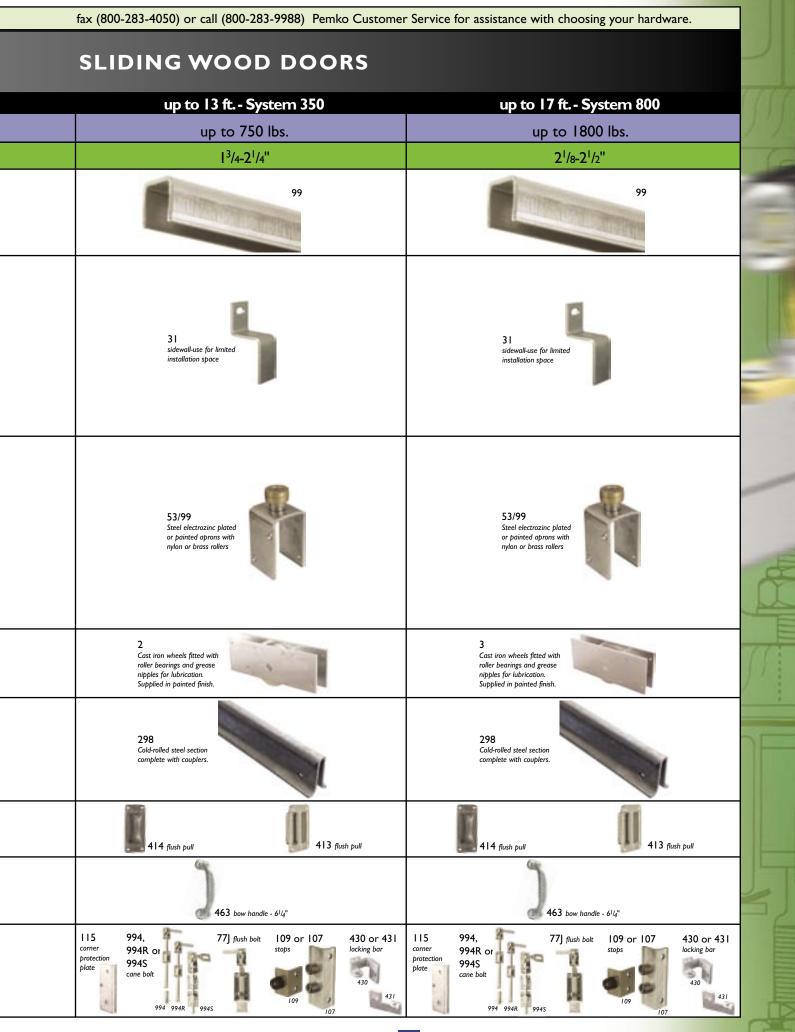
QUOTE 🗅

ORDER

Type of Track Required or Proposed: Top Hung Bottom Roller
Position of Door: Exterior (exposed) Interior (inside building)
Width of Opening:
Height of Opening:
Proposed Number of Doors:
Door Thickness (1-3/8" min 2-1/4" max.): Other:
Door Material: Solid Core Leadlined Glazed Metal Frame Hollowcore if metal frame or leadlined, give details under question 36
Door Weight:
Do Doors Slide within Opening (as in plan "E" or "L")? If NO, go to question 11 If YES, go to question 13
0. When Looking at the Door from the Inside of the Building, do Doors Slide: Both Ways Left Only Right Only
Do the Doors Slide: Inside the Building (as in plan "A") Outside the Building (as in plan "AA")
2. How Many Lines of Track? One Two. Three
3. Bracket Mounting: Sidewall Overhead
4. Depth of Header: Width of Header:
5. Door Construction (metal doors): 🗌 Angle Frame 🔄 Box Frame (depth of section 0-6") 🗌 Channel Frame 🗌 Special Frame/Leadline
6. Type of Floor: Asphalt Concrete Steel No Floor (elevated opening) Wood Tile
7. Type of Wheel Preferred (top hung only - tracks 305 & 307 have steel only): Nylon Steel
8. Security: Luck Dott Unsecured Will lock boil be seen from the same side of door as doors hang - YES or NO
9. Number of Identical Openings:



[Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and			
	Sherwood Hardware for straight			
1	Max. Door Height		up to 11 ft System 225	
1	Max. Door Weight	t	up to 500 lbs.	
	Door Thickness		l ³ /4-2"	
- 1 - I	Top Guide Chann	el	900	
	Brackets	(one bracket for every three feet of track)	I/900 3/900 5/900 sidewall-use for limited overhead-use for limited sidewall dual track installation space installation space installation space	
	Guides	(two per door)	54/900 Steel electrozinc plated or painted aprons with nylon or brass rollers	
J	Bottom Rollers	(two per door)	5 Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish.	
1	Bottom Rail		299 Cold-rolled steel section complete with couplers.	
	Flush Pull		414 flush pull 413 flush pull	
L	Bow Handle		463 bow handle - 61/4"	
	Optional Extras		115 994, 77J flush bolt 109 or 107 430 or 431 protection plate 994R or 994S 994R or 994S 77J flush bolt 109 or 107 430 or 431 locking bar 994S 994S 109 107 100	



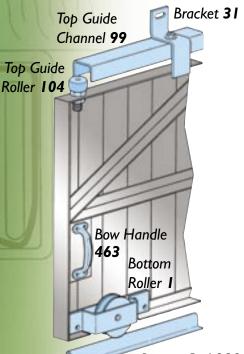
Sherwood

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.





Bottom Rail 298

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 s the door height. The door is no

using steel angle section and then clad with steel sheet or other suitable material except for Sherwood 3600 and 8000 hardware where the door would be constructed from steel channel section. Sherwood 3600 and 8000 hardware comprises standard and purpose made components as required. Bottom rollers can be supplied for mechanical operation by geared chain

wheel and winding handle.

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

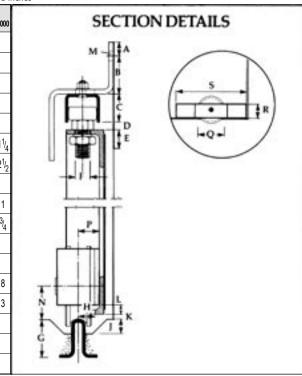
<u> </u>	
Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

COMPOSITION (Except 3600 and 8000 hardware)

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

All Dimensions in Feet and Inches

System	225	350	800	2000	3600	8000
A	3/8	3 _{/4}	3 _{/4}	1 ¹ / ₄		
В	3 _{/8}	2	2	1 ³ / ₈		
С	1½	1 ¹ / ₂	1 ¹ / ₂	3 ³ /8		
D	3 _{/4}	3/8	3/8	1		
Е	1	1	1	1 ³ / ₁₆		
F	¹¹ /16	7 _{/8}	7 _{/8}	1	1 ¹ / ₄	1 ¹ / ₄
G	2	2	2	2	2 ¹ /2	
Η	9 _{/16}	7 _{/8}	7/ ₈	1		
J	5 _{/8}	3/4	3 _{/4}	3 _{/4}	1	1
K	1/8	1/4	1/ ₄	3/8	3 _{/4}	3 _{/4}
L	7 _{/16}	1/ ₂	1/ ₂	1/2		
М	1/ ₂	1/ ₂	1/2	⁵ /8		
N	1 ³ / ₁₆	1 ³ / ₄	2 ⁷ / ₁₆	3 ³ /8	5	8
Ρ	3 _{/4}	1 ¹ / ₈	1¼	11⁄4	3	3
Q	3	3 ³ / ₄	5	7 ⁷ /8		
R	2	3	3	4		
S	9	12	15	18		



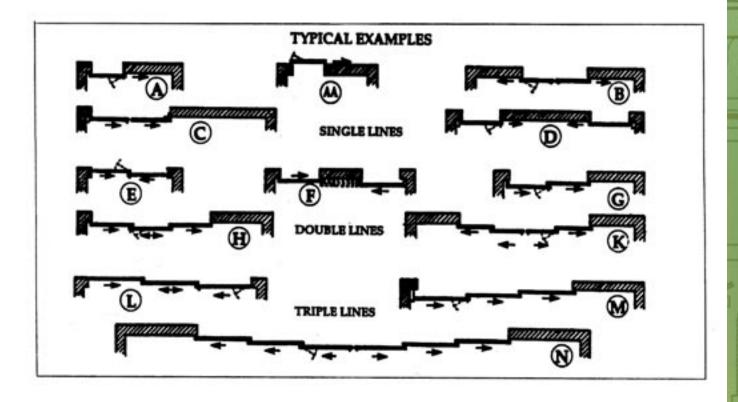
STRAIGHT SLIDING TRACK

JOB NAME

QUOTE D

ORDER C

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



	Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and				
	Sherwoo	HARDWARE K	XIT FOR STRAIGHT		
1	Max. Door Height	up to 11 ft.	up to 13 ft.		
	Max. Door Weight	up to 500 lbs.	up to 750 lbs.		
	Door Thickness	³ /4-2"	I ³ /4-2 ¹ /8"		
5	SYSTEM NUMBER	225	350		
ŝ		900			
	Top Guide Channel		99		
	Brackets (one bracket for every three feet of track)	I /900 3/900 sidewall-use overhead-us for limited for limited installation space space 5/900	31 Pressed steel painted finish. Single side wall fixing.		
		sidewall dual track			
1	Guides (two per door) (four per door on 3600/8000 systems)	104/900 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.	IO4/99 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.		
1	Bottom Rollers (two per door)	5S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.	IS Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.		
(Bottom Rail	299 Cold-rolled steel section complete with couplers.	298 Cold-rolled steel section complete with couplers.		
	Bow Handle	463 bow handle - 6 ¹ /4"	463 bow handle - 61/4"		
	Optional Extras	994, or 994S cane bolt 994, 994S 414 flush pull 109 or 107 stops 109 109 109 109 109 109 109 107	994, or 994S cane bolt 994, or 994S 414 flush pull 109 or 107 stops 109 109 107		
1					

SLIDING METAL DOORS

up to 17 ft.	up to 25 ft.	up to 40 (3600) or 65 (8000) ft.	
up to 1800 lbs.	up to 4400 lbs.	up to 8000 (3600) or 17500 (8000) lbs.	
2 ¹ /8-2 ¹ /2"	2 ¹ /4-2 ³ /4"	6" minimum thickness	
800	2000	3600 or 8000	
99	13 not shown	not required	
31 Pressed steel painted finish. Single side wall fixing.	I/I3 sidewall single track	not required	
 IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID IQUID	IO4/13 Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.	104S (not shown) Steel electrozinc plated with nylon or steel rollers fitted through top of door. Adjustable in height.	
3S Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.	4SJ Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting.	3600 (not shown) Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting. Made to suit door. Chain driven geared rollers also available. 8000 (not shown) Cast iron wheels fitted with roller bearings and grease nipples for lubrication. Supplied in painted finish suitable for welding or bolting. Made to suit door. Chain driven geared rollers also available.	
298 Cold-rolled steel section complete with couplers.	298 Cold-rolled steel section complete with couplers.	297 cold rolled steel section complete with couplers	
463 bow handle - 61/4"	464 bow handle - 101/4"	not required	
994, or 994S cane bolt 994 994 994 9945 414 flush pull 109 or 107 stops 109 109 109	994, or 9945 cane bolt 994 994 994 9945 414 flush pull 109 or 107 stops 109 109 109 109 109 109 109 109	994, or 9945 cane bolt 994 994 994 994 994 994 994 994 994 994 994 994 994 994 109 or 107 109 109 109 109 109 109 109 109 107 109 107 109 107 109 107 107 107 109 107 107 107 107 107 107 107 109 107	

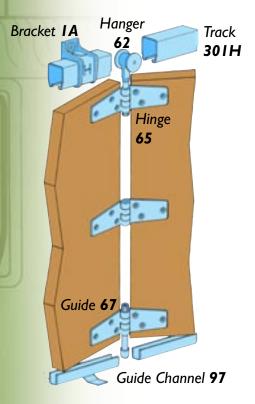
Tangent

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

CO	MP	OS	ТІ	ON
00		03		

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 Dime	ensions in Fee	t and Inches		
Track	290	301/301H	305	
Α	1 _{/2}	3 _{/4}	1	
В	2 ⁵ /8	3 ¹³ / ₁₆	5 ¹ / ₂	
С	7 _{/16}	7 _{/16}	⁹ / ₁₆	1111
D	1 ¹ / ₁₆	1 ³ / ₈	1 ¹ / ₂	
Е	1 _{/4}	1 _{/4}	3 _{/8}	
F	3 _{/8}	5 _{/8}	5 _{/8}	
G	2 ¹ / ₄	2 ¹ / ₄	3 ¹ / ₄	
Η	1	1 ¹ / ₂	1 ¹ / ₂	
J	⁵ /16	1/2	5 _{/8}	All dimensions in lost and inches.

All dimensions in	
B (if any) PLEASE INSERT ALL	A C (If any)
Is the Installation to be: Top Hung Or Bottom Rolling	
2. Are Partitions to be: Center Folding Cor End Folding (s	
3. Width of Opening: 3'0" min 60'0" max.	
4. Height of Opening: 3'0" min 15'0" max.	
	d and Floating Proted (coul fold andy)
5. Is an Additional Swing Door Required: Ves	
	Rolling (1-3/4" min. or 2-1/4" max.)
S. Leaf Material: Solid Core Leadlined Glaved	
9. Leaf Weight: state actual weight if known	
0. Width of Header:	
1. Type of Floor: Concrete Tile Wood	
2. Bottom Guide Channel Required: applies to top hung track only Brass	Alaminum
3. Number of Units: see also question 5	
	Middle Unit
5. No. of Sets Required: one or more identical openings	
6. Indicate Which Example Most Resembles Proposed Installation I	Diagram (A-K below)
END FOLDING FORMULA B C C C C C C C C C C C C C	CENTER FOLDING FORMULA All full leaves are of equal width. A pivoting half-leaf (dimension C) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B). Note: Hangers and guides are to be fitted to alternate leaves only. Note: Hangers and guides are to be fitted to alternate leaves only.

[Use the chart below to sele	ct appropriate hardware for you	ur job. Or answer the question	s on the previous page and	
	Tange	nt HAR	DWARE FOR I	FOLDING	
-	Tange				
	Max. Door Size	up to 8 ft./2'8'' wide	up to 8 ft./2'8'' wide	up to 11 ft./3ft. wide	
	Max. Door Weight	up to 80 lbs.	up to 80 lbs.	up to 120 lbs.	
	Door Thickness	l ³ /8-2"	l ³ /8-2"	1 ³ /4-2 ¹ /4"	
5	SYSTEM	Standard 8 ft.	Deluxe 8 ft.	Standard II ft.	
	Track	290	290	301	
	Brackets (one bracket for every three feet of track)	IA/290 sidewall-use for limited installation space 4R/290S 4A/290	I A/290 sidewall-use for limited installation space	Al/301 sidewall- use for limited installation space 4R/301S 4/301S 4/301S 4/301S 4/301S 4/301S 4/301s 4/301s 4/301s 4/301 overhead- use for limited installation space	
	Jointing Brackets available for joining two pieces of track at bracet (i.e. <i>IAX/301</i>)	4R/290S overhead- suspended use for installation space	4R/290S overhead- suspended installation space	overhead-suspended overhead- suspended use for ample installation space	
	Hangers (one every two doors)	62K folding pivot hanger 63K pivot hanger	62A/P folding pivot hanger- polished 63A/P pivot hanger- polished	62A folding pivot hanger 63A pivot hanger	
	Hinges	65 In cast aluminum alloy or painted cast iron.	403/2 403/3 In cast aluminum ality (deluxe=SAA) or painted cast iron.	65 In cast aluminum alloy or painted cast iron.	
	Guides (one every two doors)	67/89 68/89 Brass roller guides mounted on alloy or cast iron hinge parts	67/94P 68/94P Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)	67/97 68/97 Brass roller guides mounted on alloy or cast iron hinge parts	
	Guide Channel	89 steel guide channel	94A aluminum guide channel	97 steel guide channel	
	Optional Extras	414 flush pull 400 in satin anodized aluminum 464 bow handle - 101/4" 863 bow handle - 51/4" 413 flush pull cane bolts 994 994R 994S 454 333	414 fush pull 400 in satin anodized aluminum 464 bow handle - 1014" 771 78 454 333	414 413 flush pull 400 cane bolts anodized aluminum 464 bow handle - 10/l4" 863 bow handle - 5/l4" 771 78 454 333	

METAL OR WOOD DOORS

up to 11 ft./3ft.wide up to 120 lbs.	up to 12 ft./3ft.wide up to 150 lbs.	up to 12 ft./3ft.wide up to 150 lbs.	up to 15 ft./3ft. wide up to 180 lbs.
I ³ /4-2 ¹ /4"	³ /4-2 ¹ /4"	³ /4-2 ¹ /4"	³ /4-2 ¹ /4"
Deluxe I I ft.	Standard 12 ft.	Deluxe 12 ft.	Standard 15 ft.
301	301H	301H	305
1A/301 sidewall- use for limited installation space 4R/301S overhead-suspended suspended suspended suspended overhead- suspend	AR/301 sidewali- use for limited installation space 4R/301S overhead-suspended overhead- suspended overhead- suspended installation space installation space	IA/301 sidewall use for limited installation space 4R/301S overhead-suspended overhead- suspended overhead- suspended overhead- installation space	AA/305 overhead-use for ample installation space
62A/P folding pivot hanger- polished 63A/P pivot hanger- polished	62A folding pivot hanger 63A pivot hanger	62A/P folding pivot hanger- polished 63A/P pivot hanger- polished	63C pivot hanger 63C pivot hanger
403/2 403/3 In cast aluminum alloy (deluxe=S.A.A.) or painted cast iron.	65 In cast aluminum alloy or painted cast iron.	403/2 403/3 In cast aluminum alloy (deluxe=SAA) or painted cast iron.	65 In cast aluminum alloy or painted cast iron.
67/94P 68/94P Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)	67/97 68/97 Brass roller guides mounted on alloy or cast iron hinge parts	67/94P 68/94P Brass roller guides mounted on alloy or cast iron hinge parts (deluxe = polished aluminum)	67C/97 68C/97
94A aluminum guide channel	97 steel guide channel	94A aluminum guide channel	97 steel guide channel
414 flush pull 400 in satin anodized aluminum 464 bow handle - 101/4" 863 bow handle - 51/4" 413 flush pull cane bolts flush bolts 77] 78 454 333	414 flush pull 400 in satin anodized aluminum 464 bow handle - 10/4" 863 bow handle - 5/4" 413 flush pull cane bolts 77/ 78 454 333	414 flush pull 400 in satin anodized aluminum 464 bow handle - 10/4" 77/ 78 454 333	414 413 flush flush pull flush 400 bolts in satin flush bolts anodized flush bolts aluminum 994 994R 994S 464 bow handle -101/4" 863 bow 77J 78 454 333

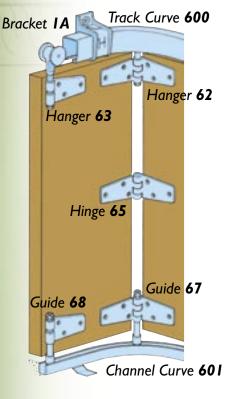
Tangent

FOR ROUND THE CORNER WOOD OR METAL DOORS

APPLICATIONS

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





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

Four track sizes are ailable to suit doors

of different weights

up to 180 lbs.

- 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.

(pounds per square foot) of doors of c	lifferent materials.
Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

Use the table below to estimate the approximate weight

301

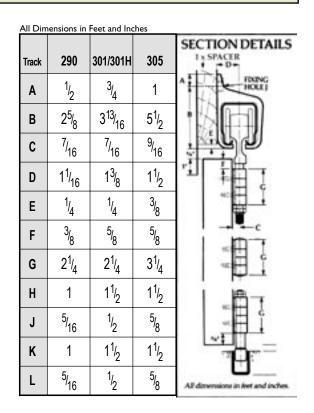
100

301H

305

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.



JOB NAME	ROUND THE CORNER TRAC		ORDER D
- L -	0		
	All dimensions in feet and inches.		
Y-	PLEASE INSERT ALL PLAN DIMENSIONS.		
1. Width of Opening: 3'0 min 60'0	nax.		
2. Height of Opening: 5'0 min - 15'0			
3. Proposed No. of Leaves (2-20)			
4. Door Thickness: 1-3/4" min 2-1/	4" max.		
5. Door Material: Solid Core Softwa	ood 🗌 Metal Fearne if metal frame: 🗌 Channel Frame 🗔 Special 🗌	Box Frame if box frame: depth of h	or action
6. Leaf Weight: state actual weight if you k	note		
7. Doors Open to the: Lett only	Right only Both ways		
Depth of Left Reveal:			
Depth of Right Reveal:			
	etted if obstructed, show dimensions on diagram below		
 Is Side Wall Square: if out of square sho 			
2. Headroom Available Above Openin	g Inches:		
3. Depth of Header:			
	eded if obstructed, show dimension "2" on diagram B below		
5. If Swing Door(s) Required, State Nu			
6. No. of Units and No. of Leaves per U			
7. No. of Units Opening to: Left	Right		
8. No. of Sets Required (one or more id	enticai openings):		
(A) 50 50	TYPICAL INST	LLATIONS	
	1 ^R ⁻ - 1 ^R ⁻	- P I-	-R-
		A	22
N + 7 110	C C		228
w w			
If side walls are not square.	We recommend revels R should not ex	need 12" for convenient luci	klan
	Usually a 4" or 8" reveal is preferred. If 1		
	required the reveal must be a minimum of 2	7" to accommodate the coin	er curve.
(B)		1	23
[Headroom	(B		(R)
y			C
ż	I'L Wardsgers are to		233
	NUMBER OF LEAVES: To calcul	ale correct sumbarol lassis	
	divide opening width (0 al		

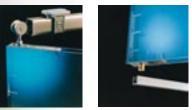
	Use the chart below to select app	propriate hardware for your job. Or answer	the questions on the previous page and
	Tongon	HARDWARE KIT F	OD DOLIND THE
77	Tangen		OK KOUND-ITE-
	Max. Door Height	up to 8ft System 290	up to 11 ft System 301
1	Max. Door Weight	up to 80 lbs.	80-120 lbs.
	Door Thickness/Width	1 ³ /8-2" thick, 32" wide	1 ³ /4-2 ¹ /4" thick, 36" wide
3	Track and Track	290	301
	Curve	600K track curve	600B track curve
	Brackets (one bracket for every three feet of track) Jointing Brackets available for joining two pieces of track at	IA/290 sidewall-use for limited installation space AA/290 AB/290 AB/290 AB/290 AB/290 AB/290	IA/301 3A/301 sidewall-use for limited overhead-use for limited installation installation space space space 4A/301 4R/301S
	bracet (i.e. IAX/301)	4A/290 overhead-use for ample installation space	overhead-use for ample installation space
	Guides (two per door)	67/89 68/89 Brass roller guides mounted on alloy or cast iron hinge parts	67/97 68/97 Brass roller guides mounted on alloy or cast iron hinge parts
	Hangers	62K folding pivot hanger (1per panel joint) (for end panel)	62A folding pivot hanger (Iper panel joint) 63A pivot hanger (for end panel)
	Hinges	65 In cast aluminum alloy or painted cast iron.	65 In cast aluminum alloy or painted cast iron.
	Guide Channel/ Channel Curve	89 steel guide channel	97 steel guide channel 601/97 guide channel curve
	Bow Handles, Flush Pulls, Flush Bolts	863 bow handle - 51/4" 463 bow handle - 61/4"	863 bow handle - 51/4" 463 bow handle - 61/4"
		414 flush pull 400 flush pull 994R cane bolt	414 flush pull 400 flush pull 994R cane bolt
	Optional Extras	109 or 107 stops 109 107 107 994X offset cane bolt	109 or 107 stops 109 107 107 107



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

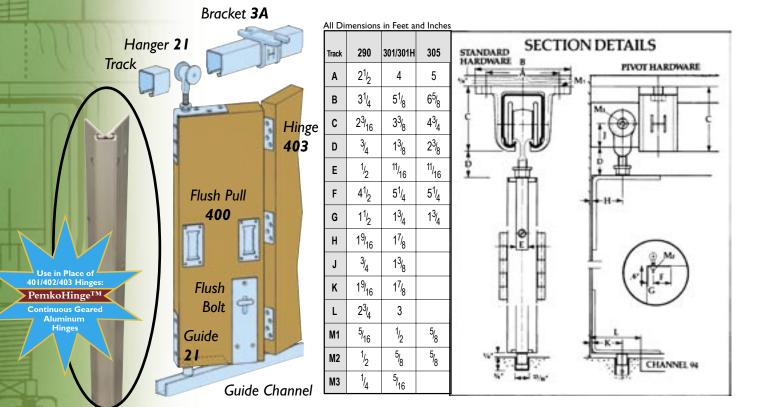
used. Panels may be panelled, glazed or flush and should be constructed with solid top and bottom rails to provide a secure fixing for edge fitting, hangers and guides.

(pounds per square foot) of doors of	different materials.
Door Type	lbs./sq. ft.
Hollow Metal 18 ga	4.6 lbs.
Hollow Metal 16 ga	5.8 lbs.
Flush Wood, Particleboard Core	4.8 lbs.
Flush Wood, Stave Core	4.3 lbs.
Flush Wood, Mineral Core	4.7 lbs.

Use the table below to estimate the approximate weight

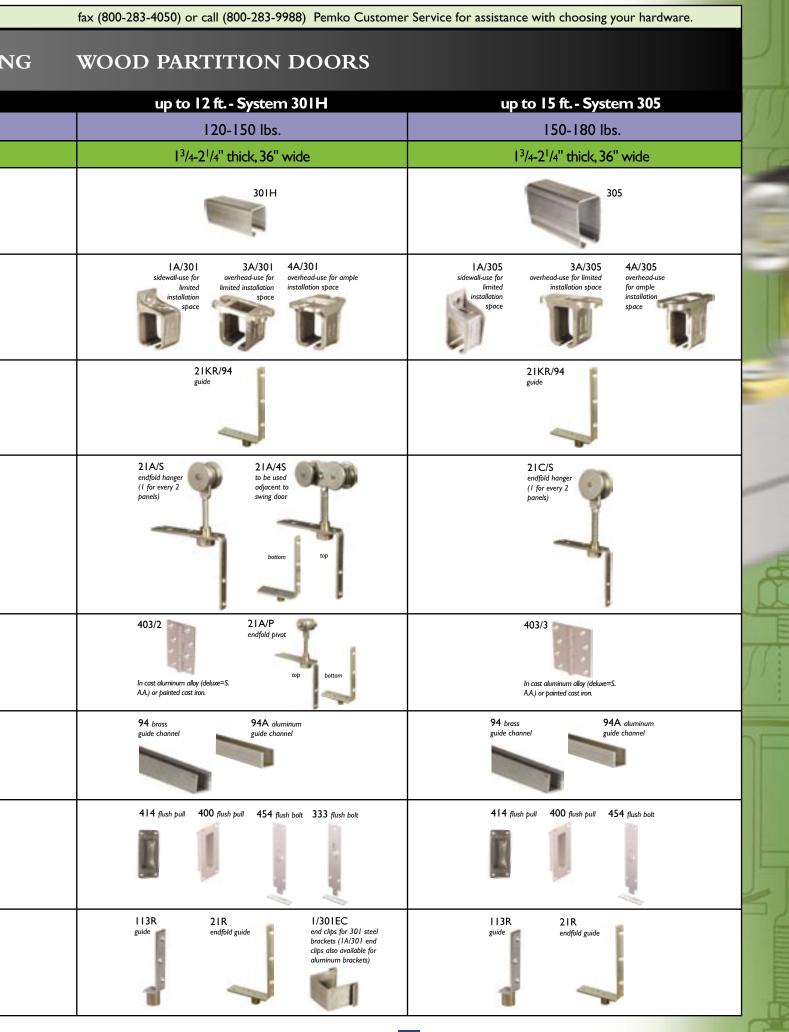
COMPOSITION

Trackc Brackets:	Cold-rolled steel section hot-dip galvanized. 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.



All dimensions in feet and inches I is the installation to be: Current of Units: I is the Installation to be: Current of Units: I is the Installation to be: Current of Units: I is the Installation to be: Current of Units: I is the Installation to be: Current of Units: I is the Installation to be: Current of Units: Current of Units: <t< th=""></t<>
Are Partitions to be: Conter Folding Core End Folding Geer diagrams below? Width of Opening; 3'0" min 60'0" max. Height of Opening; 3'0" min 15'0" max. Are Partitions: Hinged to the Jamb Ploating Hinged and Ploating Provted (md fold endp) Is an Additional Swing Door Required: Yes No Leaf Thicknesse: Top Hung(1-3/4" min. or 2-1/4" max.) Bottom Rolling (1-3/4" min. or 2-1/4" max.) Leaf Material: Solid Core Leadlined Glazed Leaf Weight: state actual weight if Known Width of Header: Type of Floor: Concrete Tile Wood Bottom Guide Channel Required: applies to top hung took only Brass Number of Units; see also question 5 No. of Sets Required: and or one or nove identical specings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K beker); END FOLDING FORMULA CENTER FOLDING FORMULA
Are Partitions to be: Center Folding Cere End Folding Ger diagrams below? Width of Opening; 3'0" min 60'0" max. Height of Opening; 3'0" min 15'0" max. Height of Opening; 3'0" min 15'0" max. Are Partitions: Hinged to the Jamb Ploating Hinged and Floating Provted (coal fold only) Is an Additional Swing Door Required: Yes No Leaf Thickness: Top Hung(1-3/4" min. or 2-1/4" max.) Bottom Rolling (1-3/4" min. or 2-1/4" max.) Leaf Material: Solid Core Leadlined Glazed Leaf Weight: state actual wright if Known Width of Header: Type of Floor: Concrete Tile Wood Bottom Guide Channel Required: applies to kep hung track only Brass Number of Units: see also question 5 A Number of Leaves per Unit: Lett Hand Right Hand Middle Unit No. of Sets Required: and on some identical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K before): END FOLDING FORMULA
 Width of Opening; 3'0" min 60'0" max. Height of Opening; 3'0" min 15'0" max. Are Partitions: Hinged to the Jamb Floating Hinged and Floating Prooted (cnd fold endp) Is an Additional Swing Door Required: Yes No Leaf Thicknesse: Top Hung (1-3/4" min. or 2-1/4" max.) Bottom Rolling (1-3/4" min. or 2-1/4" max.) Leaf Material: Solid Core Leadlined Glazed Leaf Weight: state actual veright of known Width of Header: Type of Floor: Concrete Tile Wood Bottom Guide Channel Required: applies to top hung track only Brass Aluminsum Number of Units: see also question 5 No. of Sets Required: one or nown identical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K before):
 Height of Opening; 3'0" min 15'0" max. Are Partitions: Hinged to the Jamb Ploating Provted (cnd fold endy) Is an Additional Swing Door Required: Yes No Leaf Thicknesse: Top Hung (1-3/4" min. or 2-1/4" max.) Bottom Rolling (1-3/4" min. or 2-1/4" max.) Leaf Material: Solid Core Leadlined Glazed Leaf Weight: state actual weight if known Width of Header: Type of Floor: Concente Tile Wood Bottom Guide Channel Required: applies to the Jamb Ploat of Leaves per Unit: Left Hand Right Hand Middle Unit No. of Sets Required: one or nore identical eposings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below):
Are Partitions: Hinged to the Jamb Floating Hinged and Floating Provted (and fold endp) Is an Additional Swing Door Required: Yes No Leaf Thickness: Top Hung (L-3/4" mix. or 2-1/4" max.) Bottom Rolling (L-3/4" mix. or 2-1/4" max.) Leaf Material: Solid Core Leadlined Leaf Weight: State actual weight glanawe Width of Header:
Is an Additional Swing Door Required: Yes No Leaf Thickness: Top Hung (1-3/4" min. or 2-1/4" man.) Bottom Rolling (1-3/4" min. or 2-1/4" man.) Leaf Material: Solid Core Leadlined Glazed Leaf Weight: State actual veright if Konzw Uwidth of Header: 1 Type of Floor: Concrete Tile 2 Bottom Guide Channel Required: applies to top hung track only Brass Aluminum 3 Number of Units: see also question 5 Image: Aluminum Image: Aluminum 4 Number of Leaves per Unit: Left Hand Middle Unit 5 No. of Sets Required: ans or more identifical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K tolsacit: Image: Aluminum CENTER FOLDING FORMULA
Icaaf Thickness: Top Hung (1-3/4" min. or 2-1/4" max.) Bottom Rolling (1-3/4" min. or 2-1/4" max.) Icaaf Material: Solid Core Icaallined Glazed Icaaf Weight: state actual weight (Konow Olicared Olicared Width of Header: Type of Floor: Concrete Tile Wood Bottom Guide Channel Required: opplies to top hung track only Brass Alaminum Number of Units: set also question 5 Alaminum Middle Unit Olicare Which Example Most Resembles Proposed Installation Diagram (A-K betwait: END FOLDING FORMULA CENTER FOLDING FORMULA CENTER FOLDING FORMULA
8 Leaf Material: Solid Core Leadlined Glazed 9 Leaf Weight: state actual weight (Known 0 Width of Header: 1 Type of Floor: Concrete Tile 2 Bottom Guide Channel Required: applies to top hung track only Brass Aluminum 3 Number of Units: see also question 5
Leaf Weight: state actual weight (Known 0 Width of Header: 1 Type of Floor: 2 Bottom Guide Channel Required: applies to top hung track only 3 Number of Units: see also question 5 4 Number of Leaves per Unit: 5 No. of Sets Required: any intertical eponings 6 Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): CENTER FOLDING FORMULA
0 Width of Header: 1 Type of Floor: Concrete 2 Bottom Guide Channel Required: applies to top hung track only Brass 3 Number of Units: see also question 5 4 Number of Leaves per Unit: Left Hand 5 No. of Sets Required: one or more identical openings 6 Indicate Which Example Most Resembles Proposed Installation Diagram (A+K below): CENTER FOLDING FORMULA
1. Type of Floor: Concrete Tile Wood 2. Bottom Guide Channel Required: applies to top hung track only Brass Aluminum 3. Number of Units: see also question 5 Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): 6. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): CENTER FOLDING FORMULA
Bottom Guide Channel Required: applies to tep hong track only Brass Aluminum Number of Units: see also question 5 Number of Leaves per Unit: Left Hand Right Hand Middle Unit No. of Sets Required: our or more identical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): END FOLDING FORMULA CENTER FOLDING FORMULA
 Number of Units: see also question 5 Number of Leaves per Unit: Left Hand Right Hand Middle Unit No. of Sets Required: one or more identical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below):
Number of Leaves per Unit: teh Hand Right Hand Middle Unit No. of Sets Required: our or more identical openings Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): END FOLDING FORMULA CENTER FOLDING FORMULA
 5. No. of Sets Required: one or more identical openings 6. Indicate Which Example Most Resembles Proposed Installation Diagram (A-K below): END FOLDING FORMULA CENTER FOLDING FORMULA
6. Indicate Which Example Most Resembles Proposed Installation Diagram (A+K below):
END FOLDING FORMULA CENTER FOLDING FORMULA
All full leaves are of equal width. A pivoting half-leaf (dimension G) is half the width of a full leaf (dimension A), less half of the leaf thickness (dimension B).
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, leave B (hild the leaf thickness), lens 45mm (1/7*). Format: X=(A-B)-45mm (1/7*)

	Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and						
_	Council 290-305 HARDWARE FOR END FOR						
	Coulicit 270-J0J mike for END foldi						
	Max. Door Height	up to 9ft System 290	up to 11 ft System 301				
1	Max. Door Weight	up to 80 lbs.	80-120 lbs.				
	Door Thickness/Width	1 ³ /8-1 ³ /4" thick, 32" wide	1 ³ /4-2 ¹ /4" thick, 36" wide				
5	Track	290	301				
đ	Brackets (one bracket for every three	IA/290 3A/290 4A/290 sidewall-use for overhead-use for overhead-use for overhead-use for installation limited installation space	IA/30I 3A/30I 4A/30I sidewall-use for overhead-use for overhead-use for ample limited limited installation installation space				
	feet of track)	space space	installation space				
	Guides (two per door)	21KR/94	21KR/94				
	(guide	guide				
	Hangers	21K/S endföld hanger (I for every 2 panels) Swing door	21A/S endfold hanger (I for every 2 panels) Swing door				
			bottom				
1							
	Hinges, Pivots	403/1 21K/P endfold pivot	403/2 21A/P endfold pivot				
1		top bottom	top bottom				
1		In cast aluminum alloy (deluxe=S. AA.) or painted cast iron.	In cast aluminum alloy (deluxe=S. AA) or painted cast iron.				
	Guide Channel	94 brass 94A aluminum guide channel guide channel	94 brass 94A aluminum guide channel 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				
10							
	Optional Extras	II3R 2IR I/290EC (not shown) guide endfold guide end clip for 290 steel brackets (IA/290 end	II3R 2IR I/30IEC guide endfold guide end clip for 301 steel brackets (1A/301 end				
		clips also available for aluminum brackets)	clips also available for aluminum brackets)				



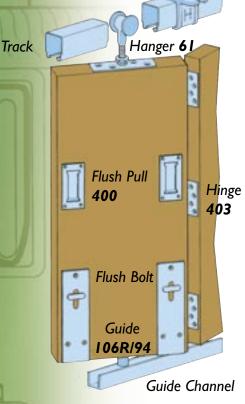
Council 290-305 FOR CENTER FOLDING WOOD **PARTITION DOORS**

APPLICATIONS

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



Bracket 3A

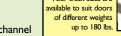


For center-folding wood doors, the following are included:

- Support brackets and track
- Hangers
- Hinges

Full range of accessories

Guides Bottom channel





For smooth operation, the recommended maximum num-

ber of panels in one unit is five and a half hinged to jamb. Panels may be panelled, glazed or flush and should be constructed with solid top and bot-

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.				
Door Type	lbs./sq. ft.			
Hollow Metal 18 ga	4.6 lbs.			
Hollow Metal 16 ga	5.8 lbs.			
Flush Wood, Particleboard Core	4.8 lbs.			
Flush Wood, Stave Core	4.3 lbs.			
Flush Wood, Mineral Core	4.7 lbs.			

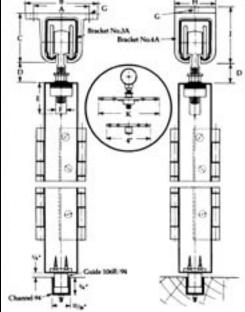
COMPOSITION

Track: Brackets:	Cold-rolled steel section hot-dip galvanized. 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:	counter-sunk for wood or 401/40	in Place of 2/403 Hinges: coHinge TM
Flush Pulls	and Bolts: In satin anodized	uuous Geared uminum Hinges

All Dimensions in Feet and Inches

Track	290	301/301H	305
A	2 ¹ / ₂	4	5
В	3 ¹ / ₄	5 ¹ / ₈	6 ⁵ / ₈
С	2 ³ / ₁₆	3 ³ /8	4 ³ / ₄
D	3 _{/4}	1 ³ / ₈	2 ³ / ₈
Е	1 ¹ / ₂	2	2 ¹ / ₂
F	1 _{/2}	3 _{/4}	3 _{/4}
G	⁵ /16	1 _{/2}	5 _{/8}
Н	1 ⁷ /8	3	3 ¹ / ₄
J	2 ⁵ /8	3 ³ / ₄	5 ³ / ₈
К	5 ¹ /2	7 ¹ / ₄	9 ¹ / ₂

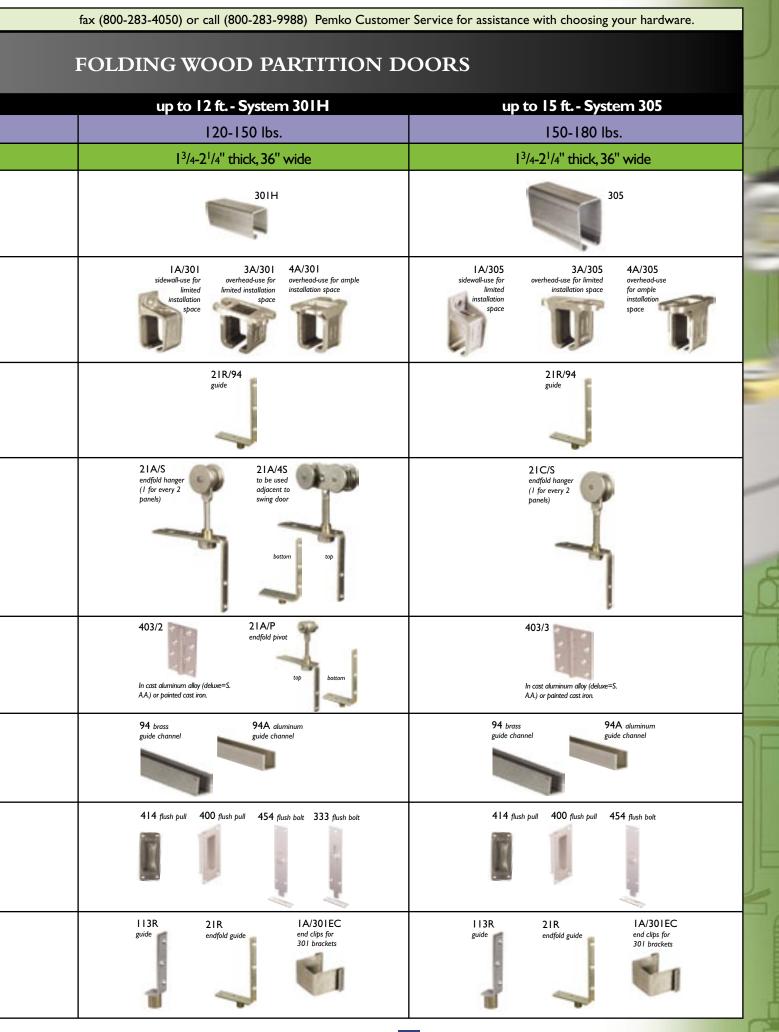
SECTION DETAILS



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

<form> I I <th>JOB REFERENCE</th><th>FOLDI</th><th>NG TRACK</th><th></th><th>ORDER</th></form>	JOB REFERENCE	FOLDI	NG TRACK		ORDER
2. Are Partitions to be: Conter Holding or End Fedding for diagrams hours: 3. Width of Opening; 30° min 150° max. Image to the Jamb Disating Provide (and field end)pi 5. Are Partitions: Hinged to the Jamb Disating Provide (and field end)pi 6. Is an Additional Swing Door Required: 'vis % 7. Leaf Thicknesse: Thig the and Claued 8. Leaf Material: Solid Com Lead Weight: distance 9. Leaf Material: Solid Com Lead Weight: distance 9. Leaf Material: Solid Com Lead Weight: distance 10. Weidth of Header: 1 Cancer It lead the adve: 11. Type of Floor: Concerne Title Wood 20. Bottom Guide Channel Required: anytics to the head provide: Middle Unit Middle Unit Middle Unit 10. Number of Leaves per Unit: Leaf Material: Al fail leares are of equil weight: Head in the distance Unit in the distance Unit in the distance Unit in the distance Unit is and the distance Unit in the distance Unit is and the distance Unit in the dintene Unit is and thead in the distance Unit i	B (if any)		•	ONS C (If any)	
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END FOLDING FORMULA			n Diagram (A-K belsick		Track 550
A product hard for the lead the score the lead hinged to the post. The dimension for the lead hinged to the post (X) is. A lease B did the lead the score the lead hinged to the post. The dimension for the lead hinged to the post (X) is. A lease B did the lead the score the lead hinged to the post. The dimension for the lead hinged to the post (X) is. A lease B did the lead the score the lead hinged to the post. The dimension for the lead hinged to the post. The dimension suitable for Top Hung track. BR = suitable for Bostoms Rolling track. A Center Folding unit should not have a swinging leaf attact TH/BR TH	201173	and the state of the	100.00 L 100.00 L 100.00	DING FORMULA	
The dimension for the leaf blockeen), lens 45mm (11/.*). Termatic X=(A-Bb-45mm (11/.*) TYPICAL EXAMPLES OF CENTER FOLDING PARTITION TRACK H = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attact C	B X Note: Butt hinges on posts are not offlu	A	A pivoting half-leaf (dimens	ion C) is half the width of a full leaf	
H = configuration suitable for Top Hung track. BR = suitable for Bottom Rolling track. A Center Folding unit should not have a swinging leaf attact () () () () () () () () () ()	The dimension for the leaf binged A, less B (half the leaf thickness), h	to the post (X) is, rrs 45mm (11/.*).			
	All leaves are of equal with except the The dimension for the leaf bigged A, leas B (half the leaf thickness), is Formula: X=(A-B)-45m TYPICAL E TH = configuration suitable for Top Hung trac TH/BR C TYPICAL TH/BR C TYPICAL TH = configuration TYPICAL	test hinged to the post. to the post (X) is, m 45mm (BV,*), m (SV,*) XAMPLES OF CEN & BR = suitable for Both A A A A A A A A A A A A A A A A A A A	Note: Hangers and guiden lear TER FOLDING PAI om Rolling track. A Center B H/BR ND FOLDING PART ng track. BR = suitable for	RTITION TRACK r Folding unit should not have TH/BR	B trigged to post. As Pan 1

	Use the chart below to select app	propriate hardware for your job. Or answer	the questions on the previous page and								
	Council 290-305 HARDWARE FOR CENTE										
	Counci	1 290-303	TARDWARE FOR CENTER								
11	Max. Door Height	up to 9ft System 290	up to 11 ft System 301								
1	Max. Door Weight	up to 80 lbs.	80-120 lbs.								
	Door Thickness/Width	1 ³ /8-1 ³ /4" thick, 32" wide	1 ³ /4-2 ¹ /4" thick, 36" wide								
100	Track	290	301								
	Brackets (one bracket for every three feet of track)	IA/290 sidewall-use for limited installation space Space Space Space Space Space Space	IA/301 sidewall-use for limited installation space Spa								
	Guides (two per door)	21KR/94 guide	21R/94 guide								
	Hangers	21K/S endfold hanger (I for every 2 panels) 21K/4N to be used adjacent to swing door	21A/S endfold hanger (I for every 2 panels) 21A/4S to be used adjacent to swing door bottom top								
1	Hinges, Pivots	403/1 21 K/P endfold pivot top bottom In cast aluminum alloy (deluxe=S. AA.) or painted cast iron.	403/2 2 1 A/P endfold pivot In cast aluminum alloy (deluxe=S. AA) or painted cast iron.								
1	Guide Channel	94 brass guide channel 94A aluminum guide channel	94 brass guide channel 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	II3R 2IR IA/30IEC endfold guide endfold guide endfold guide endfold guide endfold guide endfold by brackets	II3R 2IR IA/30IEC endfold guide endfold guide endfold brackets								



Arcade **A70** FOR END AND CENTER **FOLDING ALUMINUM AND WOOD SECTION** DOORS

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

- Top guide brackets
 Bottom rollers
- ◆ Top guide channel
- Bottom rail • Top guide rollers Back flap hinges
- ◆ 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 sepa-rately to the jamb. For best centerfold operation, not more

than $7^{1/2}$ leaves to be hinged to one jamb; alternatively leaves may be floating in units of 5 or 7. Any access door should be hung separately to the jamb.

Use the table below to estimate the approximate weight (pounds per square foot) of doors of different materials.									
Door Type	lbs./sq. ft.								
Hollow Metal 18 ga	4.6 lbs.								
Hollow Metal 16 ga	5.8 lbs.								
Flush Wood, Particleboard Core	4.8 lbs.								
Flush Wood, Stave Core	4.3 lbs.								
Flush Wood, Mineral Core	4.7 lbs.								

APPLICATIONS

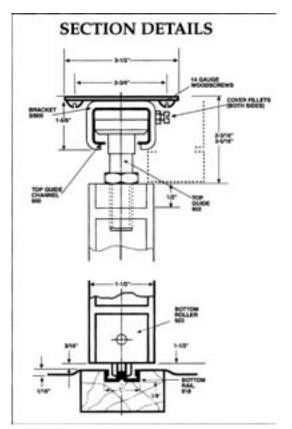
 High-quality bottom roller hardware and fittings for end and center folding aluminum section glazed for retail and display applications to a maximum leaf weight of 150 lbs.



COMPOSITION

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





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

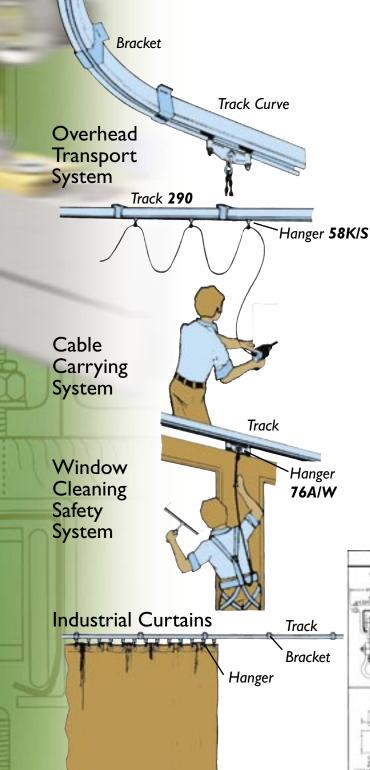
JOB REFERENCE	FOLDIN	IG TRACK		ORDER
B (if any) PL		n feet and inches	ONS C (If any)	
. Is the Installation to be: D Top Hung	or Bottom Rollin	x.		
2. Are Partitions to be: Center Folding	c or End Folding (ser diagrams belowri		
Width of Opening: 3'0" min 60'0" may	x.,			
Height of Opening: 3'0" min 15'0" ma	ix.			
Are Partitions: Hinged to the Jamb	Floating Hinger	d and Floating 🗌 Pr	voted (end fold only)	
Is an Additional Swing Door Required:	Yes No			
Leaf Thickness: Top Hung (1-3/4" min. or 2-1.	/4" max.) 🗌 Bottom	Rolling (1-3/4" min. or 2-1/4	f max.)	
Leaf Material: Solid Core Lead	fined Glazed	1		
Leaf Weight: state actual weight if known				
). Width of Header:				
Type of Floor: Concrete Tile	U Wood			
Bottom Guide Channel Required: applies to to	op hung track only 🗌 Brass		uminum	
3. Number of Units: see also question 5				- Company
 Number of Leaves per Unit: Left Hand 		Middle Unit		
5. No. of Sets Required: one or more identical openi		-		Track 350
END FOLDING FOR		100000000000000000000000000000000000000	DING FORMULA	
B X Note: Butt hinges on posts are not offset		A pivoting half-leaf (dimensi	are of equal width. on C) is half the width of a full lear the leaf thickness (dimension B).	· •
All leaves are of equal width except the leaf) The dimension for the leaf hinged to th A, leav B (half the leaf thickness), lens 43 Formula: X=(A-B)-45mm (1)	e post (X) is, Smm (1)/,*).		are to be fitted to alternate res only.	+ + Jib haves B heged to pert. As Pan 1

	Use the chart below to select appropriate hardware for your job. Or answer the questions on the previous page and										
		HARDWARE FOR END AND CENTER									
11	Max. Folding Leaf Height	up to 12 ft Endfold System A70									
1	Max. Door Weight up to 150 lbs.	up to 150 lbs.									
111	Top Guide Channel	900									
	Brackets (fix every 3' max and at channel joints. Fix extra bracket where doors sta										
	Top Guide Rollers (one every two doors)	902 comes with flat mounting plate (not shown)									
1	Hinges (three in height)	65/65P hinge									
6	Bottom Rollers (one every two doors)	922 923 for aluminum doors for wood doors									
	Bottom Rail	918 brass bottom rail									
	Flush Pull	400 flush pull									
	Flush Bolt	454 flush bolt									

FOLDING ALUMINUM AND WOOD SECTION DOORS

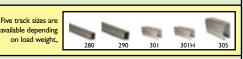
up to 12 ft Centerfold System A70		TJ
		1 1
		6
900		F
		-
1/900 3/900 sidewall-use for limited installation space installation space		
902 comes with flat mounting plate (not shwon)		Da.
65/65P hinge		11
922 923 for aluminum doors for wood doors		
918 brass bottom rail		
400 flush pull		E
454 flush bolt		
	I 1900 Sidewalkar for Imitation Sidewalkar for Imitation Sidewalkar for Imitation Sidewalkar for Imitation Source Sidewalkar for Imitatio Source Sidewalkar for	900 1900

Overhead Runways



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

systems. These are suited not only to the trans-



fer of load from one location to another, but also for more specialized applications such as industrial and vehicle curtains, cable carriers, safety runways for window cleaners of high buildings, and even gymnasium climbing ropes.

APPLICATIONS

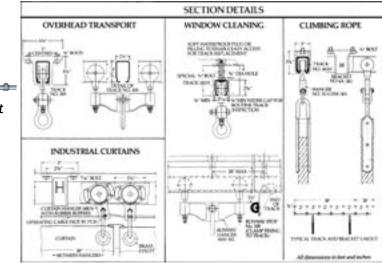
- The hardware is suitable for factories, warehouses, commercial and public buildings and vehicles.
- For overhead transport runways layouts including curves are possible.
- These are usually attached to the roof support structure, using fixed or adjustable overhead fixing brackets spaced 2-3 ft. apart, 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

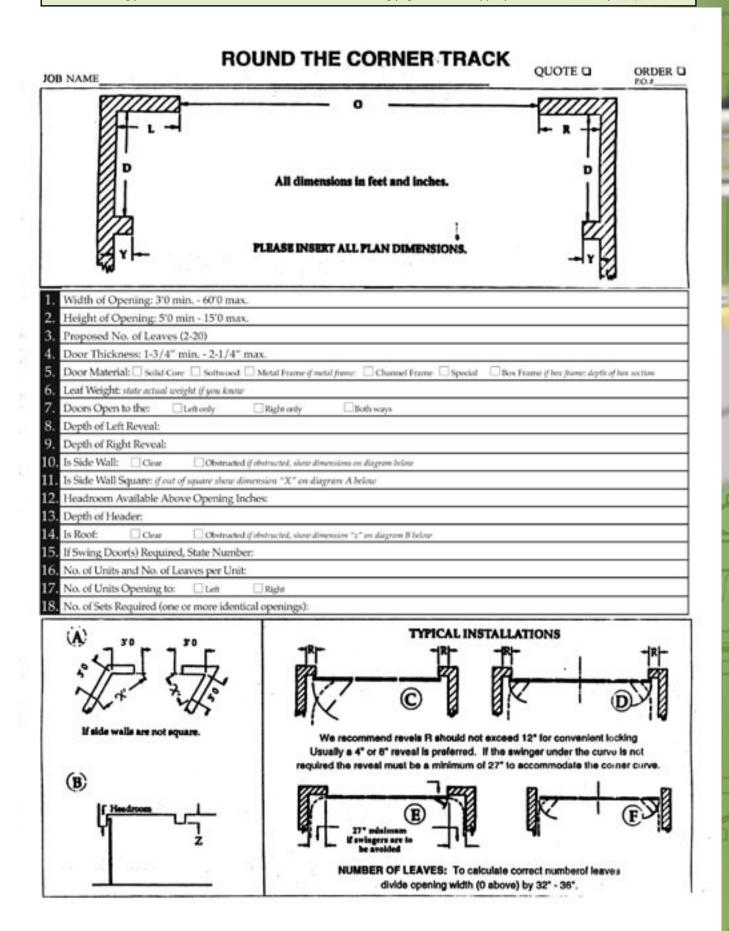
Track and Track Curves: Brackets: Hangers:

Stops:

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



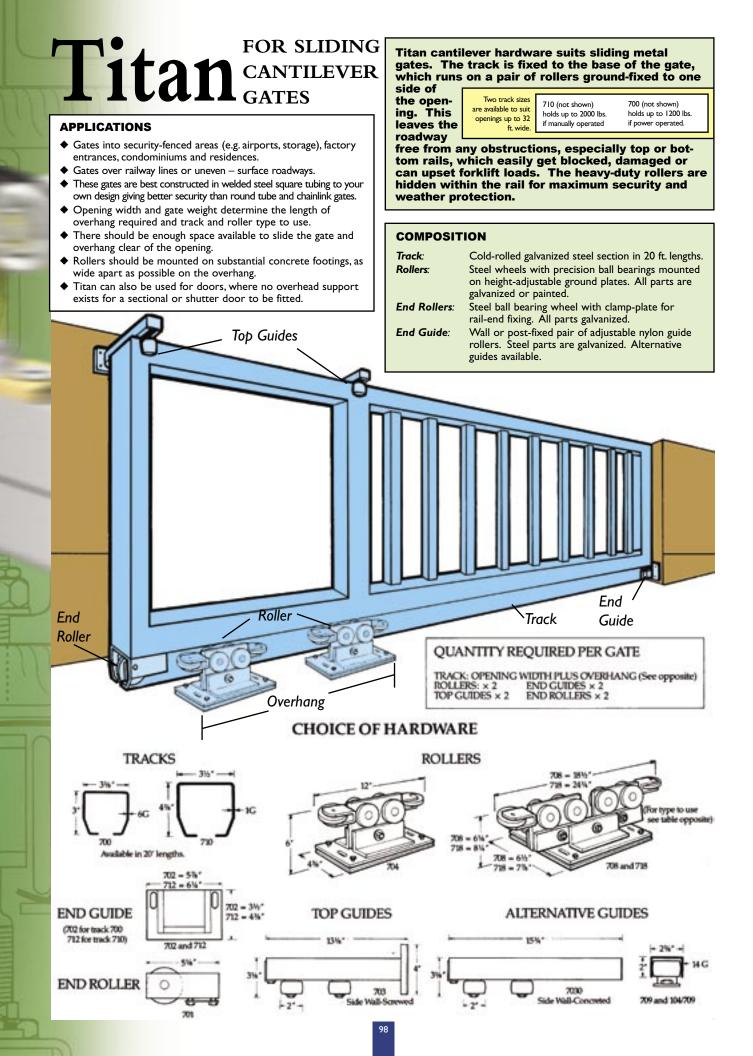
Answer the questions below and fax (800-283-4050) or call (800-283-9988) Pemko Customer Service for assistance with choosing your hardware. Or use the chart on the following pages to select appropriate hardware for your job.



	Use the chart below to select appropr	iate hardware for your job.	Or answer the questions of	on the previous page and
	Overhea	d Run	wave	
1				
	Max. Load Weight	0-500 lbs.	0-440 lbs.	ll lbs./ 44 lbs.
~	System Type	Overhead Transport (straight) 301	Overhead Transport (curved) 301	Industrial Curtains 280
5	Track	for 300 lbs load weight	for 240 lbs load weight	for 11 lbs load weight
		301H for 400 lbs load weight	301H for 300 lbs load weight	
		305 for 500 lbs load weight	305 for 440 lbs load weight	290 for 44 lbs load weight
	Track Curves (23" radius)		600B for 240 lbs load weight	280TC (not shown) for 11 lbs load weight
1		not required	600BH for 300 lbs load weight	600K for 44 lbs load
			600D for 440 lbs load weight	weight
1	Brackets (one bracket for every three feet of track and at track joints)	3A/301 3A/305 overhead fixed	3A/301 overhead fixed overhead fixed	4R/280S 3A/290 overhead fixed adjustable-for I IIbs. Iad weight
	Jointing Brackets available for joining two pieces of track at bracet (i.e. IAX/301)	AR/301S overhead- fixed adjustable	4R/301S overhead- fixed adjustable	4R/290S overhead fixed adjustable-for 44 lbs. load weight
	Hangers	76/301 (can also use 71A) for 400 lbs load weight	76/301 for 300 lbs load weight	288H for I I lbs load weight
		76/305 Ibs load weight	76/305 for 440 Ibs load weight	58K/S for 44 lbs load weight

Overhead Transport Systems

44 lbs.	- 90 lbs.	300 lbs.*	440 lbs.
Vehicle Curtains	Cable Carriers	Window Cleaning	Climbing Rope
290	290	301H 305	301H
not required	not required	not required	not required
3A/290 overhead fixed	3A/290 overhead fixed	M12 Bolts not shown	4A/301 overhead fixed
55MV/S	56K/N	76A/W	70GYM
* Capacity when load is droppe	ed through 6 ft.	7	



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

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

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

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

MANUAL

GATE WEIGHT:

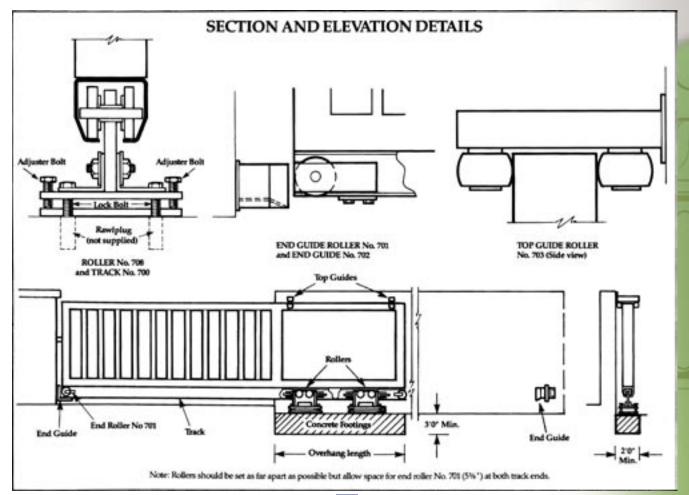
	OPENING WIDTH (ft)													
400lbs.	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
600lbs.	4'	4'	4'6"	5'	5'6"	6'	6'6"	7'6"	5'6''	6'	6'	6'6''	6'6"	7'
800lbs.	5'	6'	7'	8'	9' 5'6"	10' 6'	11' 6'6"	12	[,] 7'6'	8'	8'6''	9'	9'6''	10'
1000lbs.	8'	9'6"	11'	12'6"	14' 7'6"	15'6" 6'	17' 8'6"	18'6" 9'	9'6''	10'	10'6"	11'	11'6"	12'
l 200lbs. I 400lbs.					9'6"	10'6''	11'6"	12'	13'	I4'	15'	16'	17'	18'
1400lbs.					13'	14'	15'	16'	7'6''	8'	8'6''	9'	9'6''	10'
1800lbs.						7'	7'6''	8'	8'6''	9'	9'6''	10'	10'6"	11'
2000lbs.						8'6''	9'	9'6''	10'	10'6"	11'	11'6"	12'	12'6"
						9'6''	10'	10'6"	11'	12'	12'6"	13'	4'	15'
						10'6"	11'6"	12'6"	13'6"	14'6''	15'	15'6"	6'	16'6"

AUTOMATIC

GATE WEIGHT:

OPENING WIDTH (ft)

300lbs.	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
400lbs.	5'6"	6'	6'6"	7' 5'6"	7'6" 6'	8' 6'6"	9' <u>7</u> '	10' 7'6"						
500lbs.	7' 5'6"	8' 6'	9' 6'6"	10'6" 7'	12' 7'6"	13, 8,	14' 8'6"	15' 9'	6'	6'6"	7'	7'6''	8'	8'6''
600lbs.	6'	6'6"	7'	8'	9' 6'	10' 6'	II' 6'	12' 6'6''	7'	7'6"	8'	8'6''	9'	9'6''
700lbs.	8'6"	9'6"	10'6"	11'6"	13 [,] 6 [,]	14'6" 6'6"	16 [°] 7'	17'6" 7'6"	8'	8'6''	9'	9'6''	10'	10'6''
800lbs.	10'	11'	12'	13'	14'6" 6'6"	16 [°] 7'	7'6"	19' 8'	8'6''	9'	9'6''	10'	10'6"	11'
900lbs.					8'	8'6''	9'	9'6''	10'	10'6"	11'	11'6"	12'	12'6"
1 000lbs. 1 1 00lbs.					9'	9'6''	10'	10'6"	11'	12'	12'6"	13'	14'	15'
1 200lbs.					9'6''	10'6"	11'6"	12'6"	I 3'6''	14'6"	15'	15'6"	l6'	16'6''
1200105.					11	12'	13'	14'	15'	l6'				
					13'6"	14'6"	15'6"	16'6"						



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HENDERS

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