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May '04

HENDERSON



SLIDING AND
FOLDING DOOR
HARDWARE CATALOGUE

<http://www.pchenderson.com>
Visit our website for more details
on the complete range of
Henderson products.

HENDERSON

an introduction to P C Henderson

P C Henderson has been long acknowledged as the world leader in the design and manufacture of Sliding Gear Systems for domestic, 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 9001: 2000 Quality Systems and Environmental Management Systems ISO 14001: 1996. As part of this commitment to the environment this brochure has been printed on paper made from 75% recycled post-consumer waste.



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Henderson sliding gear systems

versatility of application Henderson's Sliding Gear Systems have been developed to enable almost any object to slide. The most common application is for sliding doors. However Henderson gear is also designed for many, perhaps more unusual, non-door sliding applications. Examples of this are sliding machinery, sliding curtains, sliding scenery and sliding sports equipment.

Sliding doors offer many benefits:

- ▶ Attractive door designs can be used.
- ▶ Space is saved in the opening area as there is no swing. This is very useful for large doors.
- ▶ Opening width is maximised as the doors can be slid or folded out of the way.
- ▶ Doors are safe to move, important for large doors as it makes them easier to control.
- ▶ Room sizes can be easily adjusted with no loss of space by using folded partition doors.

Non-door sliding applications give flexibility from being able to move objects easily and quickly.



gear systems are available as straight sliding, round-the-corner or folding designs. Such gear versatility and variety of application gives the customer a wide freedom in design.

domestic uses of gear are typically on doors for wardrobes, cabinets, cupboards, interior doors and room dividers.

commercial uses of gear include shops, restaurants, schools, garages, churches, offices and many others where an aesthetically pleasing installation is a high priority.

industrial uses of gear encompass those where function and reliability as in a factory or agricultural environment, are of more importance than aesthetics. Common applications are doors in:

- ▶ Factories and warehouses
- ▶ Farms and barns
- ▶ Sliding gates
- ▶ Fire doors
- ▶ Specific architectural uses such as shop fronts or aluminium framed glazed panels.

non-door uses are, for example, industrial curtains, theatre scenery, over-head production lines and climbing rope gear.

domestic and industrial gear A domestic gear application is considered to be any installation involving individual door weights up to 100kg.

Door weights in excess of this, in the range of 100kg up to 8 tonnes, are required to use industrial gear. Doors can be top hung or supported on bottom rollers, depending upon the building structure and permissible loadings.

Advice on selecting your gear is given later in this brochure.

technical support from Henderson Henderson's Technical Sales Department can give expert advice on all aspects of the selection, installation, maintenance and spares provisions for every type of Sliding Gear. The service is based on worldwide experience with all types of installation, and is available to customers both in the UK and overseas.

the EXPERT specification service Henderson is unique in being able to offer customers a computer based service to assist in the specification of the appropriate industrial gear. The EXPERT Service is totally free and offers fast and accurate industrial gear specification.

replacement parts for repair and refurbishment are available for Henderson sliding gear and your local stockist or Henderson's Technical Sales Department will happily assist in giving new life to well-used installations.

HENDERSON

design features

- ▶ individual door weights of up to 100kg
- ▶ straight sliding or folding doors
- ▶ pre-drilled track, permitting face fixing or soffit fixing
- ▶ jump-proof tracks to prevent door coming off track
- ▶ height adjustment for precise fit
- ▶ top hanging or bottom rolling options
- ▶ nylon or steel wheel options to cater for all loadings
- ▶ fire resistant designs available
- ▶ corrosion-free aluminium or galvanised track for smooth operation



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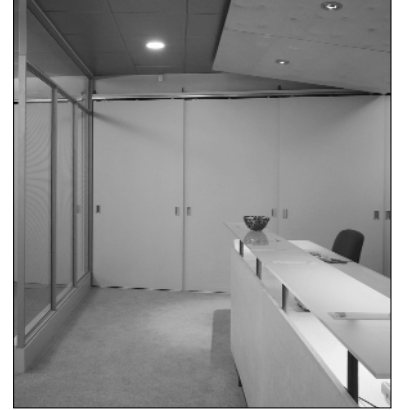
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domestic sliding gear

Typical applications for domestic gear are on sliding doors in domestic or light-use commercial interiors.

For example - cabinets, cupboards, wardrobes, interior doors and room dividers.

Sliding doors save room space as the door does not require a swing space to open. Using sliding doors therefore makes perfect sense where space is at a premium.

Henderson domestic sliding gear is designed and engineered with particular attention to aesthetic appearance, smooth and silent operation and ease of installation.

Domestic sliding gear is supplied in standard individual kits.



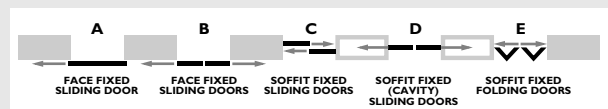
All the necessary parts and fixing instructions are included in each kit, making the selection and fitting of every installation a simple task.

choosing the right domestic sliding gear

1 Determine application. Wardrobe, Cupboard, Cabinet or Room Divider.

2 Choose Sliding Doors (single doors) or **Folding Doors** (joined pair of doors).

3 Choose fixing method. Face Fixed (onto side of wall) or Soffit Fixed (into lintel or wall cavity).



Sliding doors can be Face Fixed with single line of track which allows access to the full width of the opening - but you need wall space where the door(s) can park (A,B).

Soffit Fixed with 2 lines of track which allows doors to by-pass each other, giving a partial opening (C).

Soffit Fixed with single line of track for cavity installations (D).

Folding doors are normally Soffit Fixed where there is no wall space for the doors to slide to (E).

4 Measure width of opening and determine track length.

Face Fixed = width of opening x 2 (to allow for door parking space).

Soffit Fixed = width of opening.

= width of opening x 2 (cavity sliding doors).

5 Choose the doors and note material of door.

6 Measure width and thickness of each door.

Face Fixed note that the total width of all the doors should be slightly wider than the opening to prevent any gaps. Soffit Fixed note that the total width of all the doors must be exactly equal to the width of the opening to allow proper closing.

7 Identify how many doors you need.

8 Identify the weight of each single door.

9 Choose correct Henderson Domestic gear and kit number.

Use the table and your information from questions 1-8.

10 Fix your doors.

Pelmets We recommend that you fix a pelmet the length of the track to cover the track and hangers when installed and to give a pleasing appearance to your sliding doors.

NOTE: If the door weight exceeds the Domestic Gear choice, you need Henderson Industrial gear shown on page 12 of this brochure. To double check your choice of gear against application, please read the descriptions on the next pages.

NAME	DOOR TYPES					FIXING		MAXIMUM DOOR WEIGHT	TRACK LENGTH mm (GEAR KIT No.) See Notes Below	MAXIMUM DOOR THICKNESS mm	NUMBER OF SINGLE DOORS EACH KIT WILL HANG	NUMBER OF LEAVES (PAIRS) EACH KIT WILL HANG
	SLIDING			FOLDING		SOFFIT	FACE					
	WARDROBE & CUPBOARD (WOOD)	CUPBOARD (GLASS)	ROOM DIVIDER (WOOD)	WARDROBE & CUPBOARD (WOOD)	ROOM DIVIDER (WOOD)							
SLIPPER	●					●		9 Kg	1200 (SS4) 1500 (SS5) 1800 (SS6)	30	2	
ZENITH		●				BOTTOM ROLLER (see note 3)		25 Kg	1200 (Z12) 1500 (Z15) 1800 (Z18)	6	2	
LORETTO	●							23 Kg	1500 (C15) 1800 (C18) 2400 (C24)	45	2	
CELLO	●							25 Kg	1200 (D4) 1500 (D5) 1800 (D6)	40	2 OR 3	
SENATOR			●			●	●	30 Kg	1500 (SEN)	35	1	
PHANTOM			●			●	●	45 Kg	1525 (P9)	50	1	
DOUBLE TOP	●					●		45 Kg	1200 (W12) 1500 (W15) 1800 (W18) 2400 (W24)	40	2 OR 3	
SINGLE TOP	●					●	●	45 Kg	1200 (ST12) 1500 (ST15) 1800 (ST18)	40	1	
HUSKY 50	●		●			●	●	50 Kg	1500 (H15) 1800 (H18) 2000 (H20) 2400 (H24)	50	1	
MARATHON 55			●			●	●	55 Kg	1219 (J2) 1473 (J3) 1702 (J4) 1981 (J5) 2438 (J6)	50	1	
MARATHON 90			●			●	●	90 Kg	1473 (S3) 1702 (S4) 1981 (S5) 2438 (S6) 3048 (S7) 3226 (S8)	50	1	
HUSKY 100	●		●			●	●	100 Kg	1500 (H100/15) 1800 (H100/18) 2000 (H100/20) 2400 (H100/24)	50	1	
BIFOLD				●		●		14 Kg	1000 (B10/2) 1500 (B15/4) 2000 (B20/4)	35		2(1) 4(2)
HUSKY FOLDING 25				●	●	●		25 Kg	1200 (HF25/12) 2400 (HF25/24)	40		2(1) 4(2)
HUSKY FOLDING 40				●	●	●		40 Kg	1500 (HF40/15) 3000 (HF40/30)	40		2(1) 4(2)

Notes: (1) To give 2 or more Face Fixed Sliding Doors buy 2 or more 'one door' kits and join track lengths. (2) For Soffit Fixed Sliding Doors, kits that hang 2 doors have a double track. (3) Zenith, Loretto and Cello run on bottom rail. (4) If longer track length is required please consult your Henderson Stockist. If you have any queries ring Henderson's Technical Sales Department on 0191 377 0701



industrial sliding gear

Henderson industrial gear is for individual door weights of up to 8 tonnes and encompasses doors up to 20 metres in height.

Over 70 years expertise at the forefront of sliding gear production has resulted in excellent product design, combining trouble-free installation and use with the versatility to meet almost any door and non-door sliding application.

Henderson industrial gear is suitable for interior and exterior applications, in both commercial and heavy industrial applications.

Commercial door applications typically include shops, restaurants, schools, garages, churches, offices and other applications where an aesthetically pleasing installation is required. Gear is also available for shop fronts and patios using aluminium framed glazed panels.

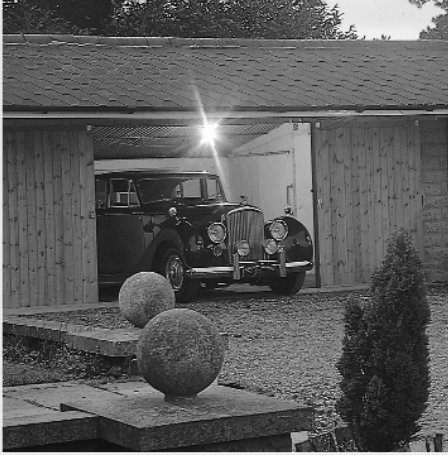
Industrial door applications include factories and warehouses where functionality and ability to withstand wear and tear is of higher priority than aesthetics. A wide range of door weights and heights can be accommodated.

Agricultural applications include farm doors, barns and gates.

Non-door applications include overhead systems - transporting objects on overhead track, industrial curtains, theatre scenery and climbing rope gear.

Replacement Parts for repair and refurbishment are available through Henderson.





Top-Hung design keeps load bearing components away from possible dirt and damage, ensuring smooth operation and long term reliability.

Adjustable hangers permit precise fitting of door.

Galvanised or zinc plated inverted U section track prevents corrosion and ensures free running of the hanger.

Supporting open bracket along with closed end brackets and jointing brackets prevent any movement of the track.

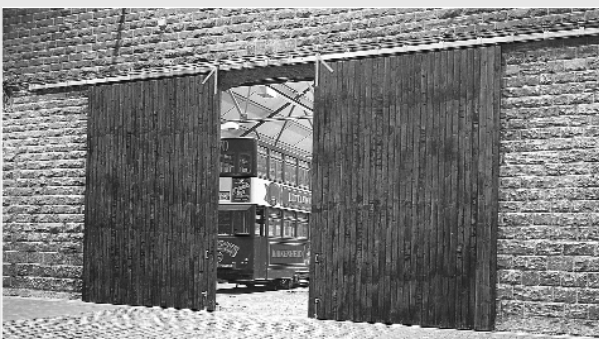
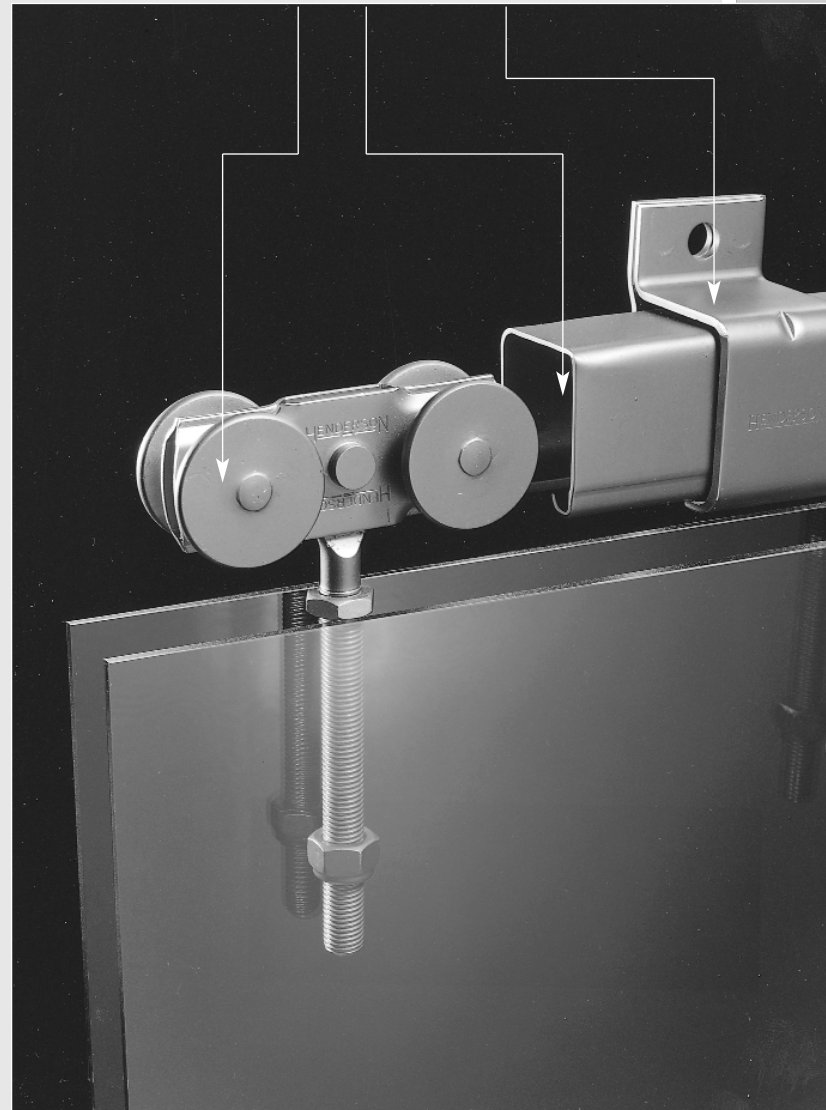
design options Industrial gear gives three main design options for doors with the additional option of doors being top hung or on bottom rollers.

Design options include:

- ▶ Straight Sliding - requiring wall space where the door can park.
- ▶ Round-the-Corner - utilising a second wall area usually at 90° to the opening.
- ▶ Internal Folding and External Folding - where wall space is short, stacking can be at the end(s) or in the centre.



Top hung doors are recommended wherever possible, providing the building structure is capable of carrying the weight of the doors and each door does not weigh more than 2000kg. This gives maximum stability and keeps load bearing components away from possible dirt and damage. Where there are structural limitations or each door weighs more than 2000kg, the bottom roller design is used.



THE EXPERT SERVICE

If you have a project where you would like to use sliding or folding door hardware use the **FREE Henderson Expert Service** to supply your bill of materials, quantities, prices and drawings.

Simply contact the Henderson Technical Sales Department using any of the following:



Tel: +44 (0) 191 377 0701



Fax: +44 (0) 191 377 3116



Website: www.pchenderson.com



e-mail: sales@pchenderson.com



Post: Henderson Technical Sales Dept.,
Durham Road, Bowburn,
Co. Durham, DH6 5NG
England

Based on the answers you give to a series of questions (opening size, door size and weight etc.) we will specify the gear you require and you will receive a **quotation** from Henderson giving you a bill of materials and a list of the correct gear

- ▶ quantity
- ▶ price
- ▶ drawing
- ▶ fixing instructions

If you wish to make **changes** to your original specification, just contact us, we will find your original quotation, make the amendments and issue you with a revised quotation.

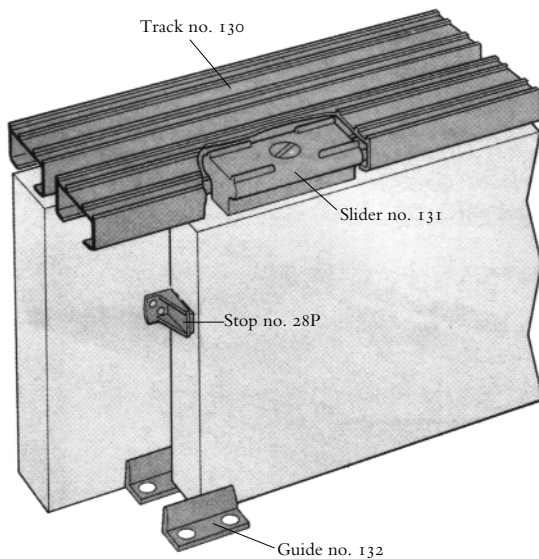


It couldn't be simpler. Leave it to the experts!

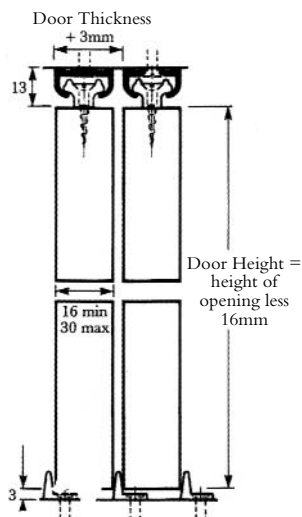
**FOR SLIDING
CUPBOARD
DOORS TO 9KG**

SLIPPER

For opening widths to	2 door kit no.
1200mm	SS4
1500mm	SS5
1800mm	SS6
Optional 1 door fittings kit	SS1
Cupboard door lock	no. 291
Flushpull	no. 26P
Max leaf size	1800 x 900 x 30mm
Max leaf weight	9kg



SOFFIT FIXED



For lightweight wood or chipboard sliding doors eg. kitchens, bathrooms, serving hatches and built-in furniture where no bottom track is necessary. Silent and easy to fix, the doors can be simply removed when required.

KITS

Standard kits for 2 doors contain: 2 top aluminium tracks with fixing holes, 4 nylon sliders, safety stop, 2 flushpulls, screw-fixed nylon guides, all screws and fixing instructions. Lock available as optional extra. Bulk component packs also available.

INSTALLATION NOTES

(also see drawing)

For light, wood-framed or composition board doors up to 900mm wide and 9kg maximum weight (16-30mm thick). No bottom track is required and only 13mm headroom is needed.

Precision-made, satin-anodised finish aluminium gear for sliding glass doors for domestic and commercial displays, eg. bookshelves, cabinets and hatches. The silent top guide incorporates brushpile strips. The bottom roller incorporates a precision bearing unique to Henderson. Double or multiple lines of track can be fitted.

KITS

Standard kits for 2 doors contain: top guide, glazing strip, 2 glass rails, 4 nylon tyred bottom rollers, bottom rail, end caps, screws and fixing instructions.

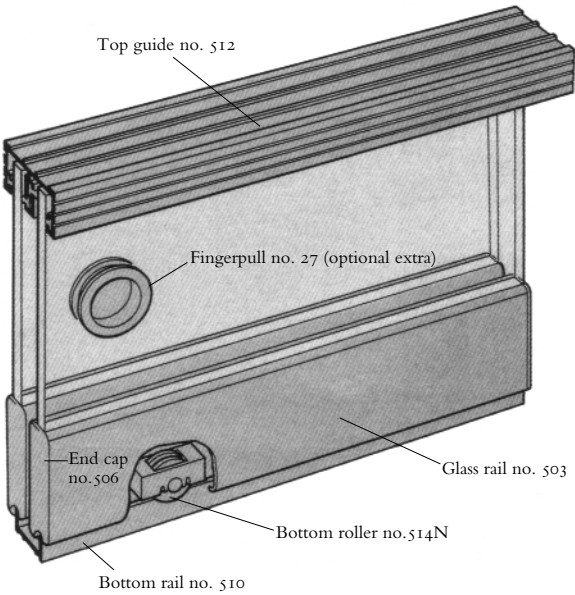
OPTIONAL EXTRAS

Optional extras include: finger-pull (no.27) and cylinder lock (no. 507RH or 507LH) (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

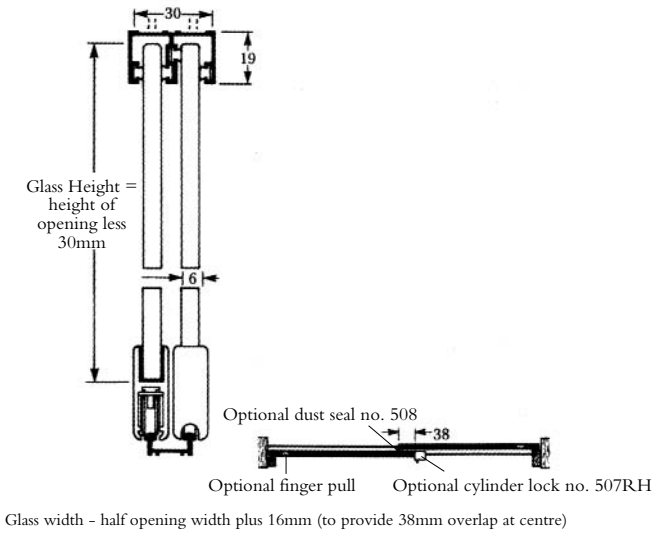
(also see drawing)
For standard 6mm glass, maximum weight 25kg (1m²) per panel, maximum width 900mm per panel (not less than half panel height).

For opening widths to	2 door kit no.
1200mm	Z12
1500mm	Z15
1800mm	Z18
Max leaf size	1m ² (Max width 900mm)
Max leaf weight	25kg



(See Component/Accessory pp 52-56 for product descriptions)

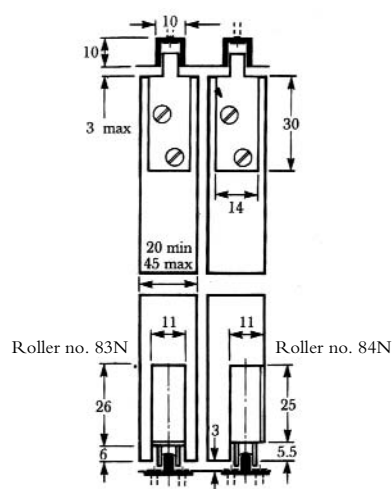
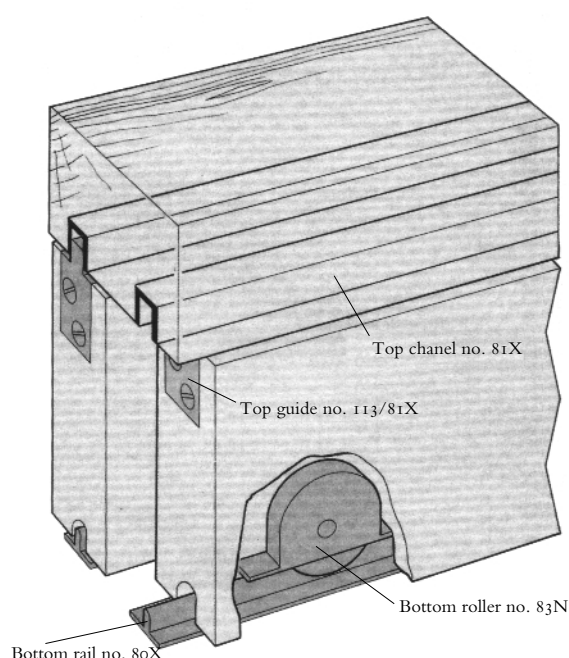
SOFFIT FIXED



**FOR SLIDING
CABINET
DOORS TO 23KG**

LORETTO

For opening widths to	2 panel kit no.
1200mm	D4
1500mm	D5
1800mm	D6
Max leaf size	1800 x 900 x 45mm
Max leaf weight	23kg



Aluminium top channels with nylon guides and aluminium bottom rails with nylon rollers for quiet, smooth operation of wood-framed glazed or flush, bi-passing cupboard or cabinet doors. Multiple tracks can be fitted.

KITS

Standard kits for two door panels contain 2 guide channels, 4 guides 4 bottom rollers, 2 rails, screws and fixing instructions.

OPTIONAL EXTRAS

Optional extras include: face-fix rollers no. 84N (2 per door) flushpull no. 400; lock no.291 (see pp 52-57 for full product description). Bulk components packs are also available.

INSTALLATION NOTES

(also see drawing)

Top guides mortised into door and guide channels mortised into soffit. Bottom rollers mortised into bottom rail of door (bottom rail must be of sufficient thickness - minimum 20mm). Butt joints on rail or channel are not recommended. Maximum panel weight 23kg, maximum door size 900mm wide by 20-45mm thick.

All dimensions in mm

An easy to fit kit for timber doors that requires no routing of the doors, as all components are surface mounted. Bottom rollers operate on aluminium rails producing a quiet, smooth operation.

KITS

Standard kits for 2 or 3 doors contain: aluminium rail, face-fixed nylon-wheeled bottom rollers, face-fixed nylon guides, screws and fixing instructions.

OPTIONAL EXTRAS

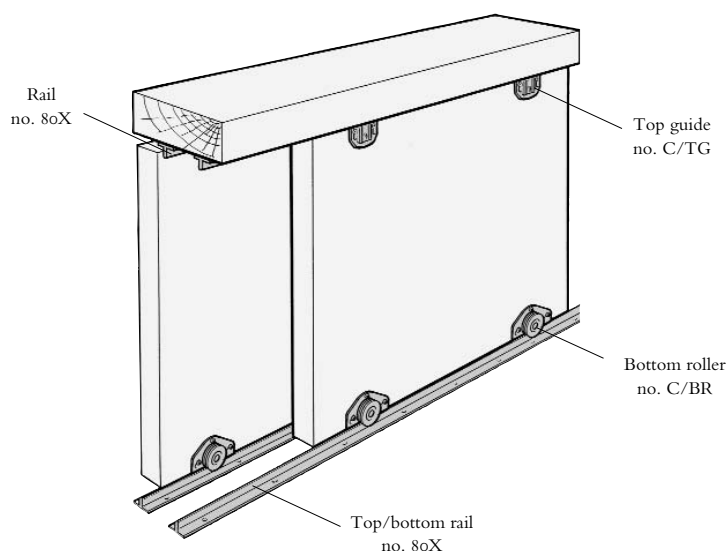
Optional extras include: fittings pack no. CI, flushpull no. 400 and semi-flush bolt no. 333. Bulk component packs are also available.

INSTALLATION NOTES

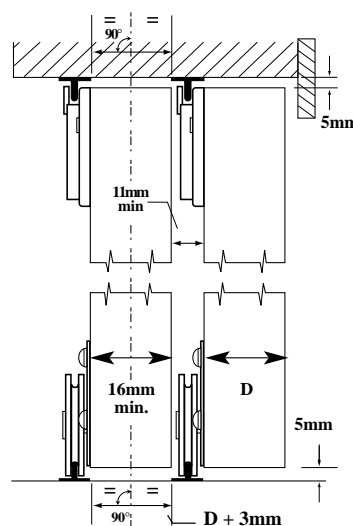
(Also see drawing)

For 2 and 3 door units with a maximum of 25kg door weight, width 920mm, height 2400mm and door thickness of 16mm - 40mm. Door construction must permit secure fixing of hanger plates. Butt joints on rail is not recommended.

For opening widths to	No. doors	Kit no.
1500mm	2	C15
1800mm	2	C18
2400mm	3	C24
Max leaf size		2400 x 920 x 40mm
Max leaf weight		25kg



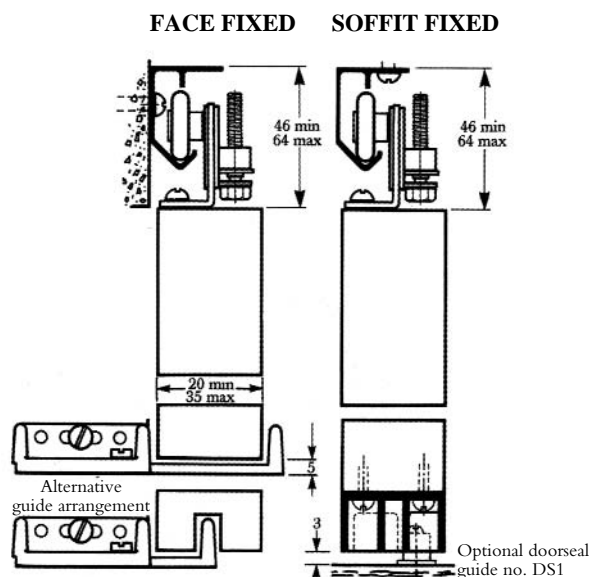
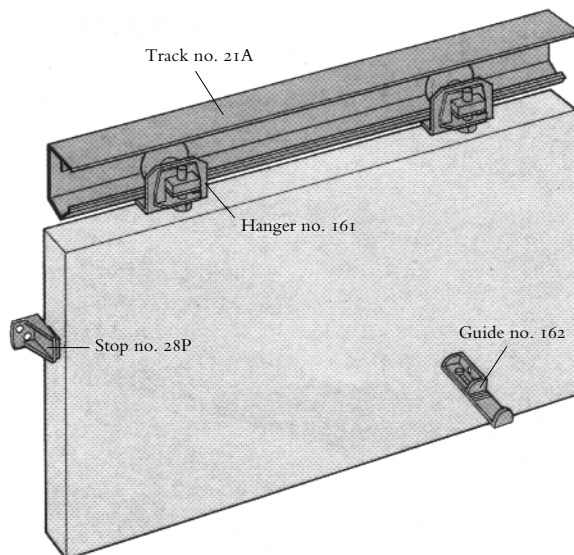
SOFFIT FIXED



All dimensions in mm

FOR SLIDING DOORS TO 30KG

For single door opening widths to	Kit no.
900mm	SEN
Max leaf size	2400 x 900 x 35mm
Max leaf weight	30kg



Easily fixed sliding doors for soffit or face fixing without drilling into door, and an easy-fix floor guide.

KITS

Standard kits for a single leaf door contain: jump-proof, face/soffit fixing aluminium track; nylon-tyred, ball-bearing, adjustable top fixing hangers; adjustable nylon guide; stop and fixing instructions.

OPTIONAL EXTRAS

Optional extras include:

anti-draught doorseal no. DSI; pelmet no. 40P and pelmet end caps (2 off) no. EC40P; flushpull no. 400; flushbolt no. 333; lock no. 295; door edge sponge strip no. 537 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

For a lightweight, wood framed door to maximum 30kg, maximum width 900mm and door thickness 20-35mm. Door construction must permit secure fixing of hanger plates.

All dimensions in mm

Easily installed, no-maintenance design for exceptionally quiet sliding doors, with optional kits for conversion to simultaneous action or self-closing doors.

KITS

Standard kits for a single leaf door contain: jump-proof track for face/soffit fixing; twin nylon-wheeled, low friction adjustable one piece hanger and fixing plates; adjustable nylon guide; stop and fixing instructions.

OPTIONAL EXTRAS

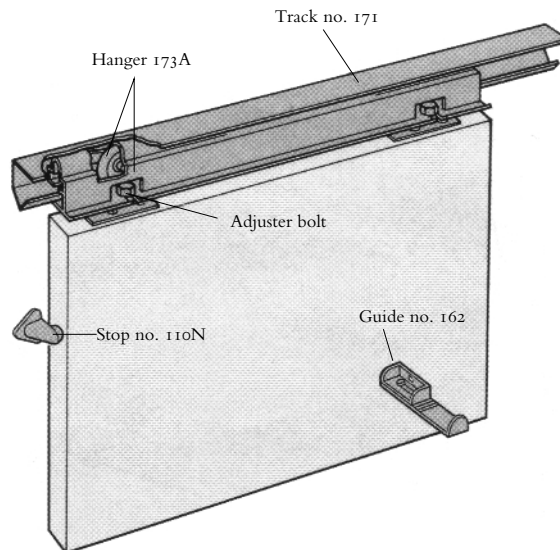
Optional extras include: self-closing system pulley assembly (advise leaf weight); simultaneous action unit (2 leaf doors) no. 23; anti-draught doorseal no. DSI; pelmet no. 40P and pelmet end caps (2 off) no. EC40P; flushpull no. 400; flush-bolt no. 333; lock no. 295; door edge sponge strip no. 537 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

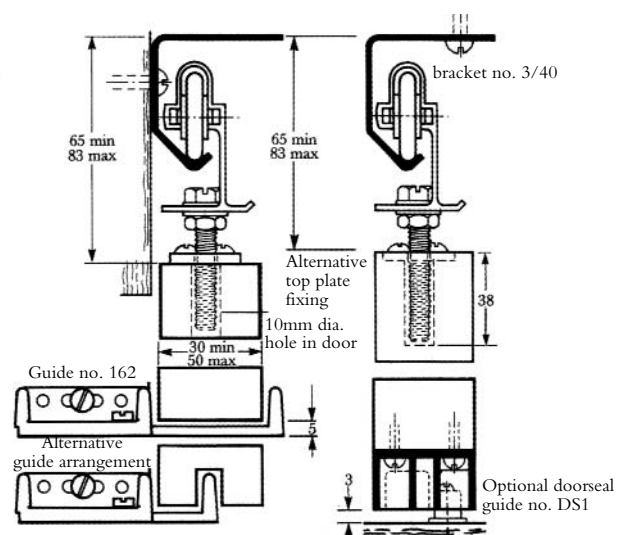
For a wood door to maximum 45kg weight per leaf, width 610 min - 915mm max and door thickness 30-50mm. Door construction must permit secure fixing of hanger plates.

For single door width	Kit no.
610 - 915mm	P9
Max leaf size	2400 x 915 x 50mm (min width 610mm)
Max leaf weight	45kg



FACE FIXED

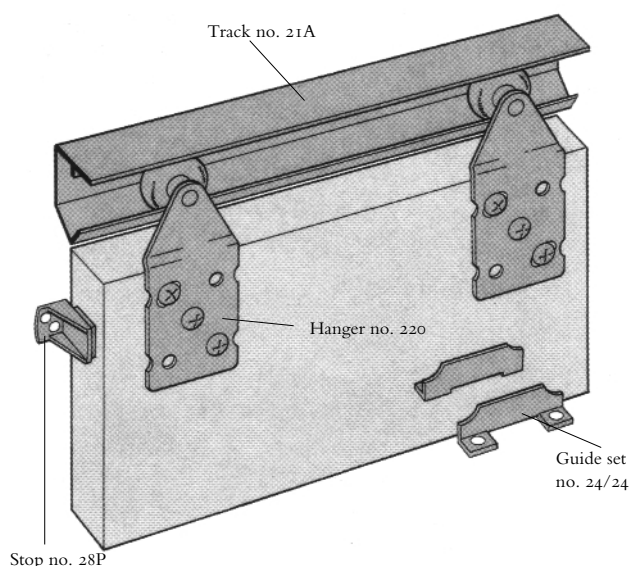
SOFFIT FIXED



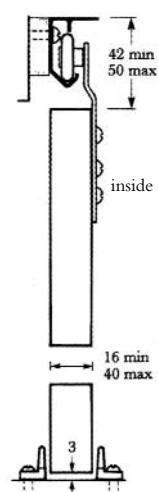
**FOR SINGLE
TRACK SLIDING
WARDROBE
DOORS TO 45KG**

SINGLE TOP

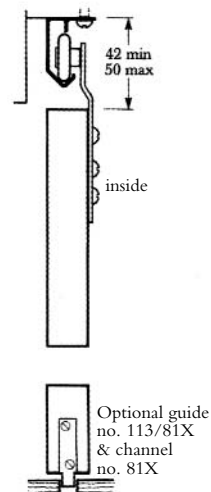
For single door opening widths to	Kit no.
600mm	ST12
750mm	ST15
900mm	ST18
Max leaf size	2400 x 900 x 40mm
Max leaf weight	45kg



FACE FIXED



SOFFIT FIXED



For a wide range of single leaf, wood or composite sliding doors, with face or soffit fixing top track and floor guides or optional bottom channel.

KITS

Standard kits for a single leaf door contain: jump-proof, face/soffit fixing aluminium section track; nylon-tyred, face-fixing, ball-bearing hangers; nylon guides; rubber-buffered stop; screws and fixing instructions.

OPTIONAL EXTRAS

Optional extras include:
I-leaf fittings pack no. ST01; guide no. 113/81X (2 per door) and guide channel no. 81X; flushpull no. 400; lock no. 295; door edge sponge strip no. 537 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

For a single leaf door to a maximum 45kg weight, width to 900mm and thickness 16-40mm. For heavy use applications fit optional guide no. 113/81X and guide channel no. 81X.

All dimensions in mm

DOUBLE TOP

**FOR DOUBLE
TRACK SLIDING
WARDROBE DOORS
TO 45KG**

For a wide range of double leaf, wood or composite sliding doors, with easy soffit fixing top track and floor guides or optional bottom channel.

KITS

Standard kits for 2 or 3 leaf units contain: jump-proof soffit fixing aluminium section track; nylon-tyred, face-fixing, ball-bearing hangers; nylon guides; rubber-buffered stop; screws and fixing instructions.

OPTIONAL EXTRAS

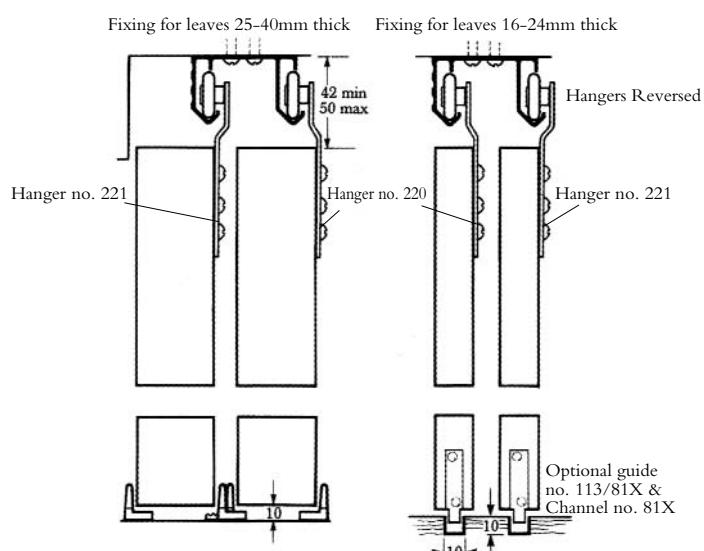
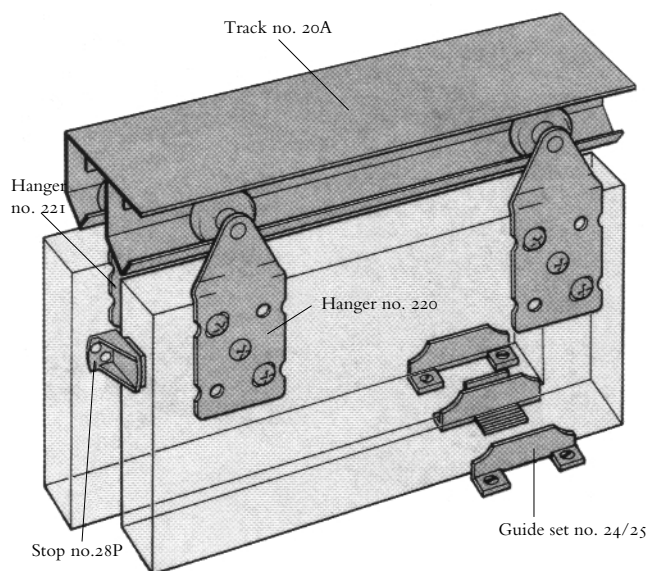
Optional extras include: fittings pack no. W01 (1 extra leaf), no. W02 (2 extra leaves); guide no. 113/81X (2 per door) and guide channel no. 81X; flushpull no. 400; reversible hangers no. 222; latch set no. 295; door edge sponge strip no. 537 (see pp 52-57 for full product descriptions). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

For 2 or 3 leaf units to a maximum 45kg weight per leaf, width to 900mm and thickness 16-40mm as standard. For heavy use applications fit optional guide no. 113/81X and guide channel no. 81X. For flexibility of layout in multi-leaf applications use reversible hangers. For triple line of doors fit additional Single Top system.

For opening widths to	No. leaves required	Kit no.
1200mm	2	W12
1500mm	2	W15
1800mm	2	W18
2400mm	3	W24
Max leaf size	2400 x 900 x 40mm	
Max leaf weight	45kg	

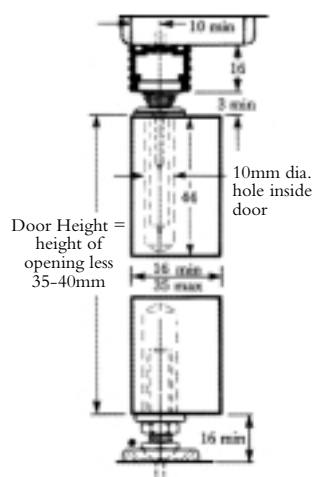
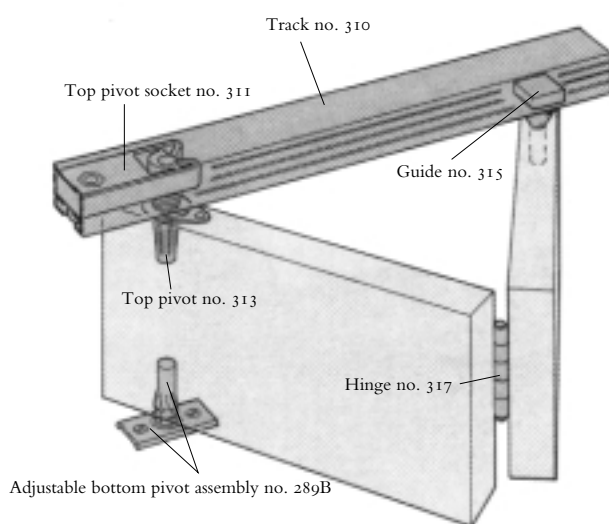


All dimensions in mm

**FOR FOLDING
WARDROBE
DOORS TO 14KG**

BIFOLD

For opening widths to	No. leaves required	Kit no.
1067mm	2	B10/2
1525mm	4 (2x2)	B15/4
2135mm	4 (2x2)	B20/4
Max leaf size	2400 x 530 x 35mm	
Max leaf weight	14kg	



Easy-fit gear for wood or composite folding doors, with silent nylon spring-loaded guides in an aluminium top track. The spring-loaded end pivot arrangement allows leaves to fold completely flat for unhindered access to walk-in cupboards and wardrobes. No bottom track or door jamb required. Any number of two leaf units can be used for an opening, each anchored by top and bottom pivots.

KITS

Standard kits for 2 or 4 (2x2) leaves containing aluminium top track, nylon guides, pivots and sockets, bumper, hinges, aligner, screws, spanner and fixing instructions.

OPTIONAL EXTRAS

Optional extras include: 2-door fittings pack no. BF2, (see pp 52-57 for full product description). Bulk component packs also available.

INSTALLATION NOTES

(also see drawing)

For doors with maximum 14kg single leaf weight, maximum 530mm wide x 2400mm high in maximum opening height 2440mm. Top and bottom pivots and guide must be securely fixed into door rails - minimum thickness 16mm, maximum thickness 35mm. Adjustable bottom pivot for ease of fitting.

All dimensions in mm

HUSKY FOLDING 25

**FOR FOLDING
DOORS AND
ROOM DIVIDERS
TO 25KG**

For efficient and easy-to-use light folding doors, neatly stacking at one side and without floor guides for an uninterrupted run of carpet. For larger openings, a floor guide channel should be included. If doors are required to stack at both sides additional pivots are required. Soffit fixing only is available.

KITS

Kits HF25/12 and HF25/24 contain: top and bottom pivots for fixing into end panel; 4-wheeled adjustable nylon hangers; hinges; screws; fixing instructions and steel track no. 280.

FITTING PACKS

2 and 4 leaf fitting packs contain all the components contained in the kits except the track. Order also track no. 280 or aluminium section track no. 280A.

OPTIONAL EXTRAS

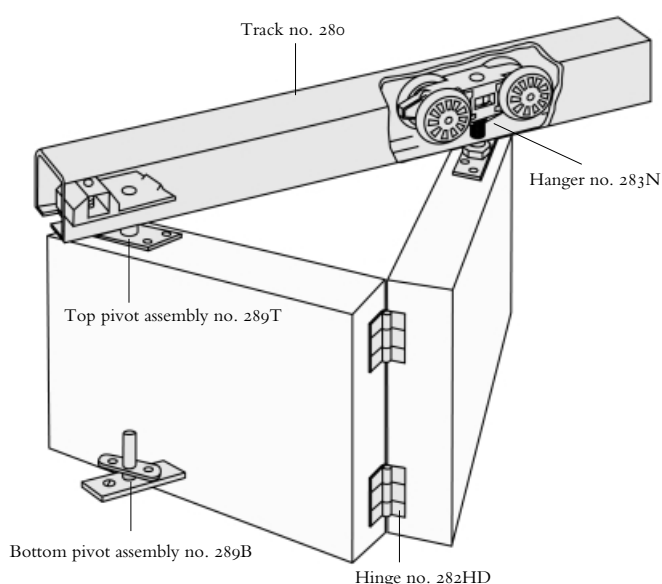
Optional extras include: set of 5 brackets no. 2815; guide no. 106HF/94; channel no. 94X; flush-bolt no. 333; flushpull no. 400 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

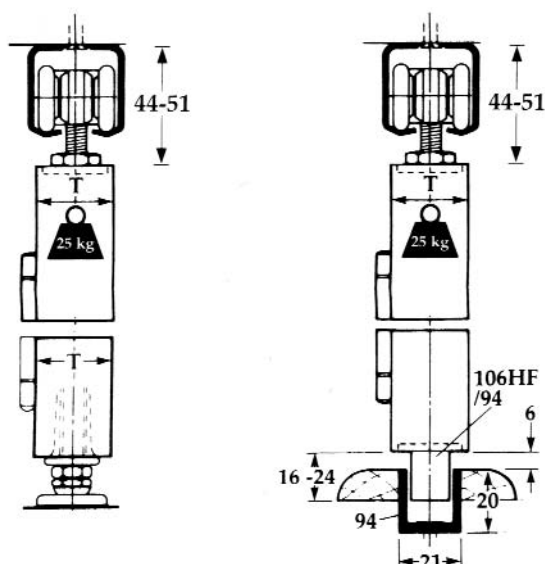
(also see drawing)

For panels with maximum single weight 25kg, maximum dimensions 600mm wide x 2400mm high and thickness 20-40mm; 12 panels (6 each side) maximum. For panels in excess of 15kg, 450mm wide or for 4 or 6 panel units, a floor guide channel

For opening widths to	No. panels	Kit no.	Channel required
1200mm	2	HF25/12	1 x 1.2m
2400mm	4	HF25/24	1 x 2.4m
Max leaf size	2400 x 600 x 40mm		
Max leaf weight	25kg		



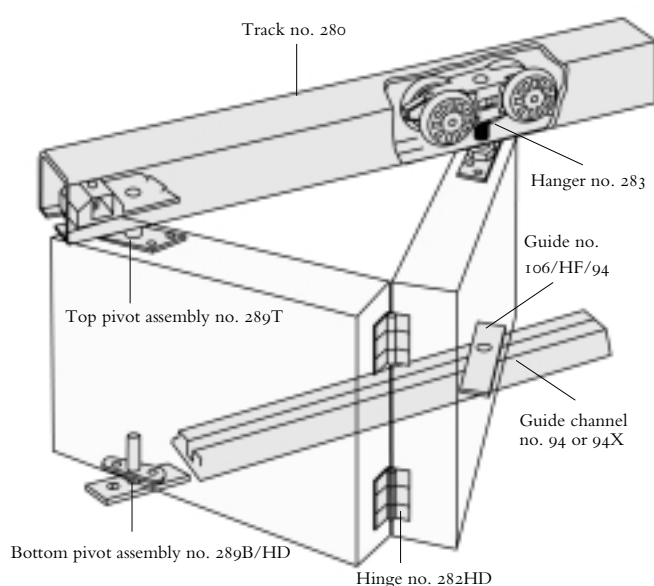
SOFFIT FIXED



Optional guide channel

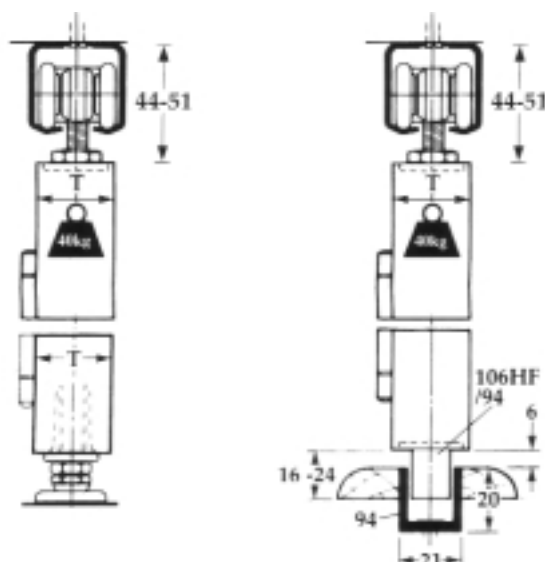
All dimensions in mm

For opening widths to	No. panels	Kit no.
1500mm	2	HF40/15
3000mm	4	HF40/30
Max leaf size	2400 x 750 x 40mm	
Max leaf weight	40kg	



(See Component/Accessory pp 52-56 for product descriptions)

SOFFIT FIXED



All dimensions in mm

For efficient and easy-to-use medium weight folding doors, neatly stacking at one side. If doors are required to stack at both sides additional pivots are required. Soffit fixing only is available.

KITS

Kits HF40/15 and HF40/30 contain: top and bottom pivots for fixing into end panel; 4 nylon bodied, needle roller bearing hangers with top plate; hinges; roller guides no.106/HF/94; screws; fixing instructions, steel track no. 280 and guide channel no. 94X.

FITTING PACKS

2 and 4 leaf fitting packs contain all the components contained in the kits except the track. Order also track no. 280 or aluminium section track no. 280A. Guide channel no.94 or 94X should be separately ordered to the same length as the track.

OPTIONAL EXTRAS

Optional extras include: flushbolt no. 333; flushpull no. 400 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

For panels with maximum single weight 40kg, maximum dimensions 750mm wide x 2400mm high and thickness 20-40mm; 12 panels (6 each side maximum). Roller guides should be fitted to alternate panels (see drawing) to run in the guide channel.

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

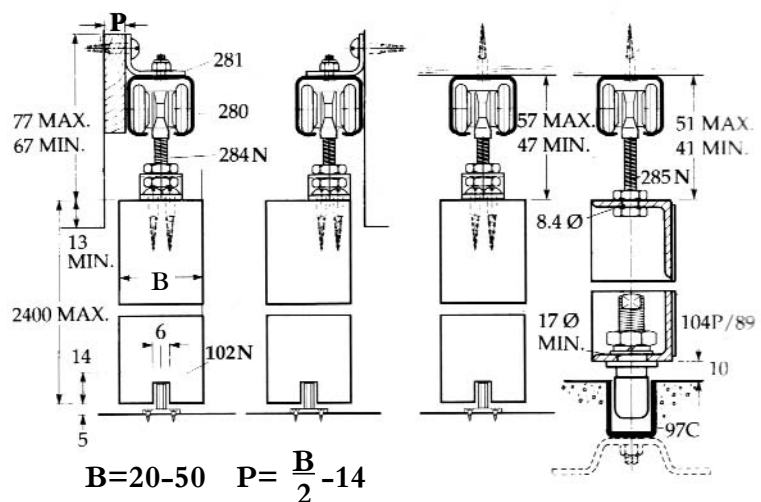
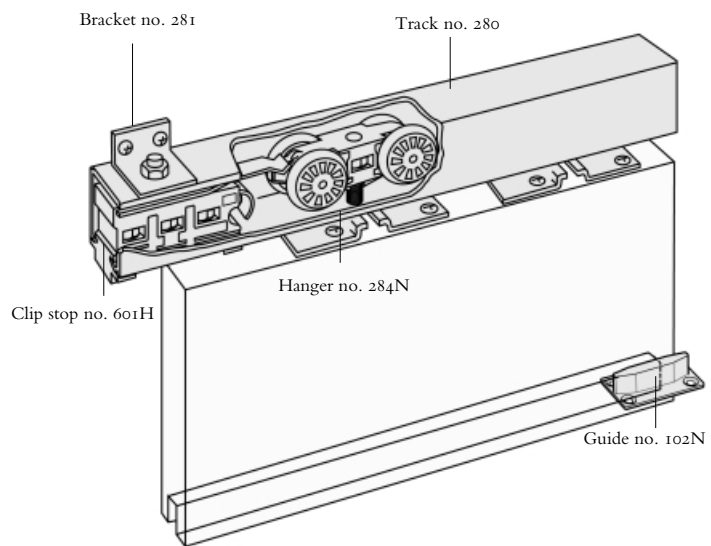
KITS

Husky 50: kits for single wood doors to 50kg max. weight contain: pre-drilled track; face-fixing brackets; 2 nylon bodied, acetal wheel hangers; nylon guide; stops and fixing instructions. Single door fittings only pack H50N also available.

OPTIONAL EXTRAS

Optional extras include: face-fixing brackets packs no. 2815 (5 brackets); no. 2818 (8 brackets); hanger for metal doors no. 285N; roller guide no. 106R/94; aluminium floor channel no. 94X; bow handle no. 863; flushpull no. 414; flushpull no. 400; flushbolt no. 333; lock no. 295; door edge sponge strip no. 537; anti-draught doorseal guide no. DSI (see pp 52-57 for full product description). Bulk component packs are also available.

Max leaf size	Weight	Kit no.
2400 x 800 x 50mm	50kg (wood)	Husky H50/15
2400 x 950 x 50mm	50kg (wood)	Husky H50/18
2400 x 1050 x 50mm	50kg (wood)	Husky H50/20
2400 x 1250 x 50mm	50kg (wood)	Husky H50/24



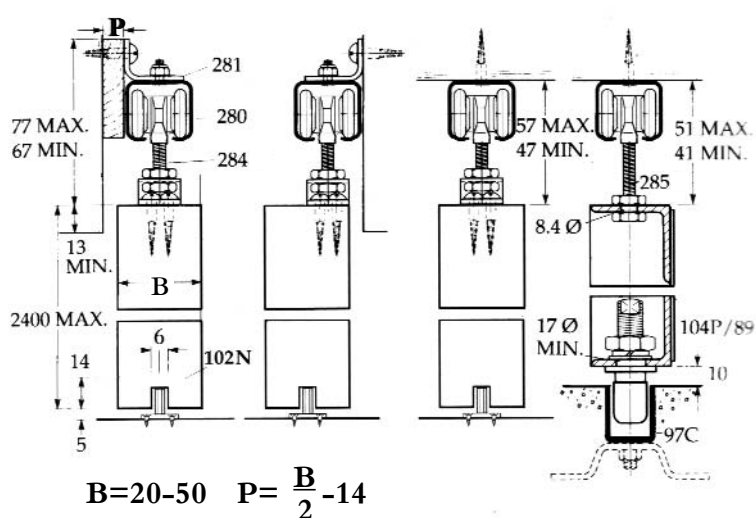
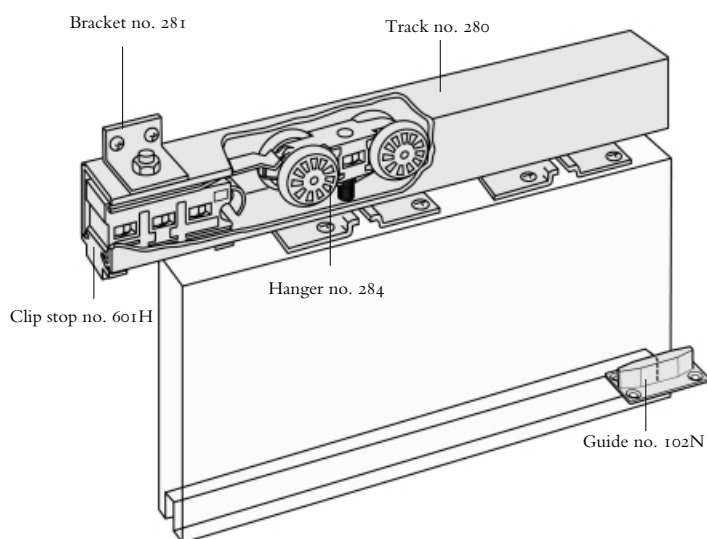
All dimensions in mm

Aluminium track kits, clip on aluminium fascia's and sliding glass door kits now also available.

**FOR SLIDING
WOOD OR
METAL DOORS
TO 100KG**

HUSKY 100

Max leaf size	Weight	Kit no.
2400 x 800 x 50mm	100kg (wood or metal)	Husky H100/15
2400 x 950 x 50mm	100kg (wood or metal)	Husky H100/18
2400 x 1050 x 50mm	100kg (wood or metal)	Husky H100/20
2400 x 1250 x 50mm	100kg (wood or metal)	Husky H100/24



All dimensions in mm

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

KITS

Husky 100: single door fittings pack H100 for metal or wood doors to 100kg max. weight contain: 2 nylon bodied, needle roller bearing 4-wheel hangers; nylon guide; clip stop 601H to hold door fully open or closed and fixing instructions. Track no. 280 (steel) or no. 280A (aluminium) supplied separately in standard lengths from 1.2m to 4.0m.

OPTIONAL EXTRAS

Optional extras include: face-fixing bracket packs no. 2815 (5 brackets); no. 2818 (8 brackets); hanger for metal doors no. 285; roller guide no. 106R/94; aluminium floor channel no. 94X; bow handle no. 863; flushpull no. 414; flushpull no. 400; flushbolt no. 333; lock no. 295; door edge sponge strip no. 537; anti-draught doorseal guide no. DSI (see pp 52-57 for full product description). Bulk component packs are also available.

Aluminium track kits, clip on aluminium fascias and sliding glass door kits now also available.

MARATHON 55 & 90

**FOR SLIDING
DOORS TO 55KG
AND 90KG**

For heavily used timber or metal doors, offering smooth and reliable action due to its precision engineering, solid alloy runner bar and one piece ball cage design.

KITS

Single door kits for max. door weights of 55kg and 90kg contain: top assembly (track, hanger plates, ball cage and runner bar); 2 nylon top plates (with integral buffer); wall mounted stops; nylon floor guide (guide channel to be mortised into door bottom rail).

OPTIONAL EXTRAS

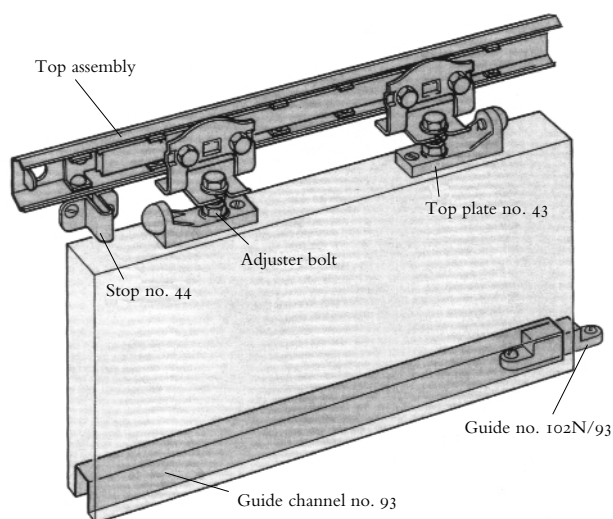
Optional extras include: soffit brackets (5 off) no. 3/40; self-closing system pulley assembly SCK1 (advise door weight); biparting unit (2 doors each max 900mm) no. 23; anti-draught doorseal no. DSI; pelmet no. 40P and pelmet end caps (2 off) no. EC40P; flushpull no. 400; flushbolt no. 333; lock no.s 294, 295; door edge sponge strip no. 537 (see pp 52-57 for full product description). Bulk component packs are also available.

INSTALLATION NOTES

(also see drawing)

For internal fitting, or external with adequate protection for gear, can be face or soffit fixed. Bi-parting gear can be fitted to operate both doors simultaneously, and a self-closing pulley system is also available.

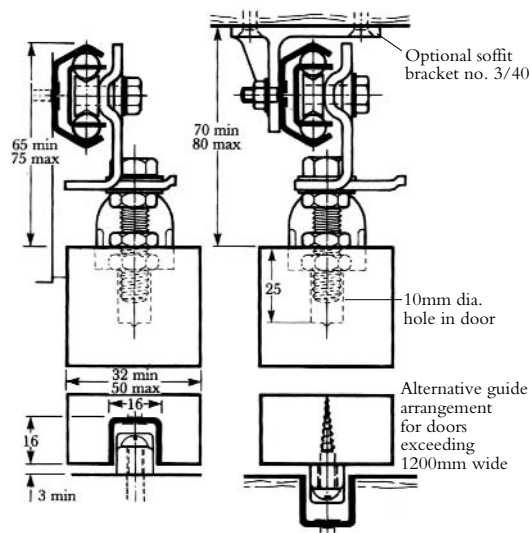
For door opening widths	Junior kit 55kg	Senior kit 90kg
400-750mm	J2	
750-900mm	J3	S3
900-1050mm	J4	S4
1050-1200mm	J5	S5
1200-1500mm	J6	S6
Max leaf size	3000 x 1500 x 50mm	



(See Component/Accessory pp 52-56 for product descriptions)

FACE FIXED

SOFFIT FIXED

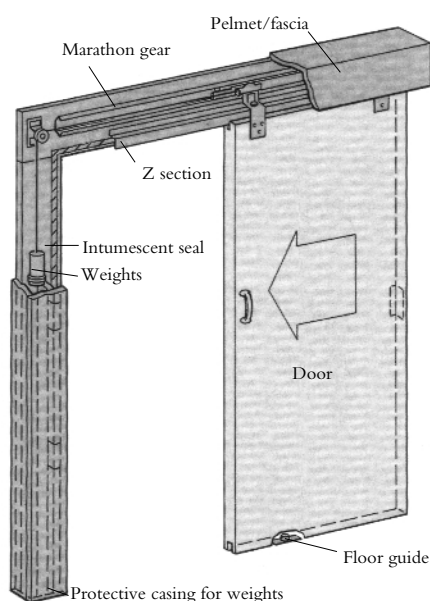


All dimensions in mm

**FOR SLIDING
FIRE DOORS
TO 90KG**

MARATHON FIRE DOOR

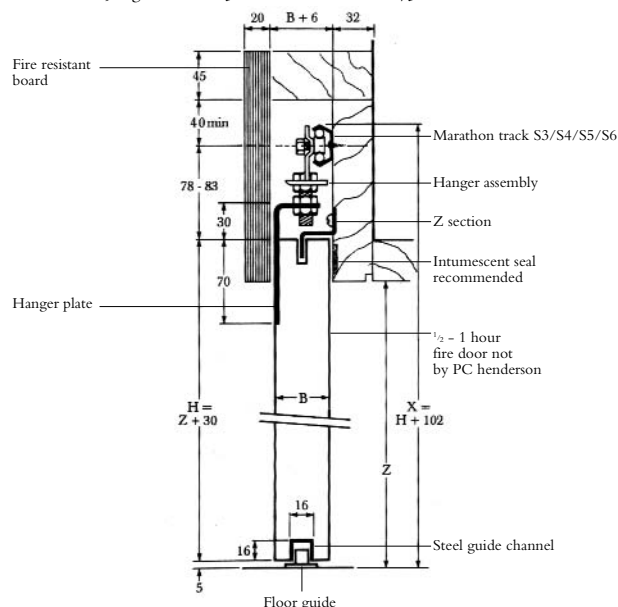
For door opening widths	Gear Kit no.
750-900mm	S3
900-1050mm	S4
1050-1200mm	S5
1200-1500mm	S6
Fire door kit	FDK1
Max leaf size	3000 x 1500 x 50mm (min width 750mm)
Max leaf weight	90kg



Typical installation

For door opening widths	Gear Kit no.	Thickness
750-900mm	S3	32 - 50mm
900-1050mm	S4	32 - 50mm
1050-1200mm	S5	32 - 50mm
1200-1500mm	S6	32 - 50mm

For door sizes over 90kg or above 1500mm wide or below 750mm wide consult PC Henderson



All dimensions in mm

For sliding fire doors offering a smooth, secure automatic closing action due to action of the counter-balancing weights.

KITS

The kit is designed for single doors up to 90kg and between 750mm and 1500mm wide, and must be used in conjunction with an S3,S4,S5 or S6 Marathon sliding gear kit. For doors above or below these limits, please contact the Technical Department at PC Henderson.

NB.

It is recommended that intumescent fire seals be incorporated into the door framework to contain the fire within the fire area. (Smoke seals hinder the self-closing action of the door so should not be used.) Seals are not supplied by PC Henderson.

STRAIGHT SLIDING 280-307

FOR SLIDING WOOD DOORS

For top-hung, straight sliding wood doors for commercial and industrial applications; glazed or flush construction or, for industrial use, solidly framed, ledged and braced. Nine systems are available for leaf weights up to 2000kg.

Maximum door width and no. required depends on height, and the weight of door material (eg a softwood door with 50-60mm frame and 20mm boarding weighs c. 22-24 kg/m²). For optimum operation, the width should not exceed $\frac{3}{4}$ the door height.

COMPONENTS

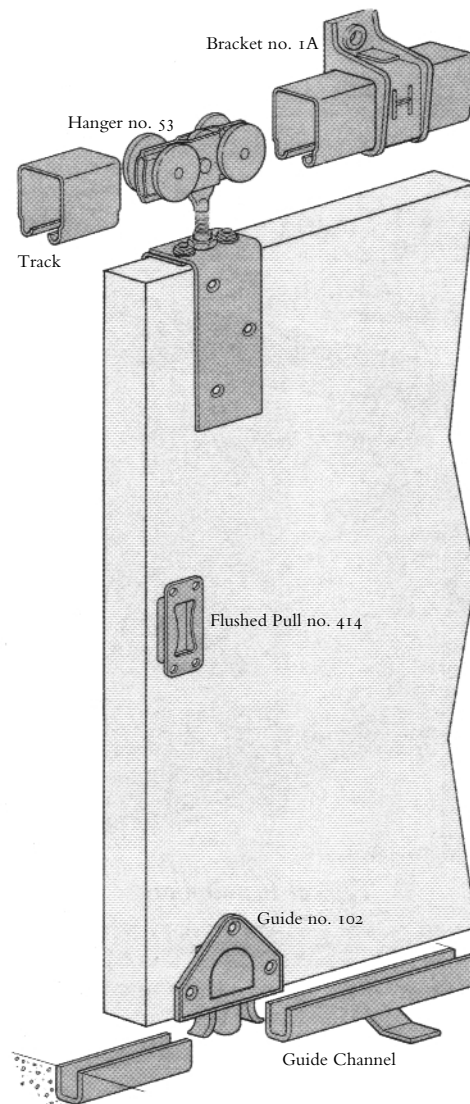
Components supplied include: support and jointing brackets; track; hangers; bottom channel; guides; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities.

INSTALLATION NOTES

(also see drawing)

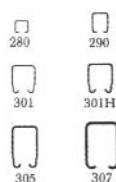
The gear is suitable for single or multiple lines of track where the supporting structure is sufficient to bear the total door weight. Sterling bottom roller gear (see p30-33) may be specified where support is insufficient. Any number of doors sliding to one or both sides may be specified. A wicket door may be incorporated for individual access requirements. A canopy (not by PC Henderson) is recommended for external fitting of the doors.

Typical installation detail drawings are also available from the Technical Department PC Henderson.



CHOICE OF GEARS

TRACKS



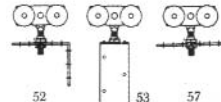
BRACKETS - FACE FIXED



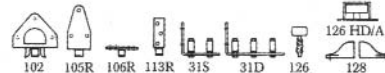
BRACKETS - SOFFIT FIXED



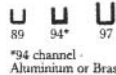
HANGERS



GUIDES



GUIDE CHANNELS



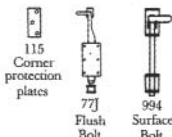
DOOR STOPS



HANDLES



BOLTS



HOW TO CHOOSE YOUR DOOR GEAR

STRAIGHT SLIDING 280-307

280-307 Wood Door System No.	280	280	290	290	301	301	301H	305	307
Maximum Door Height	2400mm	2400mm	3000mm	3000mm	3600mm	3600mm	4200mm	4800mm	6000mm
Maximum Door Width	1250mm	1250mm	**	**	**	**	**	**	**
Maximum Door Weight	50kg	100kg	150kg	200kg	300kg	400kg	450kg	700kg	2000kg
Door Thickness	20-50mm	20-50mm	35-48mm	35-48mm	43-57mm	43-57mm	43-57mm	43-57mm	60-70mm
Track Twice the width of doors Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	280	280	290	290	301	301	301H	305	307*
Brackets , single run (face fixing)	281†	281††	1A/290	1A/290	1A/301	1A/301	1A/301	1A/305	1/307/S
Brackets , double run, (face-fixing)			5/290	5/290	5/301	5/301	5/301	5/305	5/307/S
Brackets , single run (soffit fixing)			3A/290	3A/290	3A/301	3A/301	3A/301	3A/305	3/307/S
	fix every 900mm max and at track joints								
Hangers 2 per door									
Wood Doors - apron fixing			53K/N	53K/S200	53A/S	53A/N	53A/N	53C/S	53FJ/S
Wood Door - angle plate fixing			52K/N	52K/S200	52A/S	52A/N	52A/N	52C/S	
Wood Doors - concealed fixing	284N	284	57K/N	57K/S200	57A/S	57A/N	57A/N	57C/S	
All Hangers with suffix/N have nylon wheels, and /S have steel wheels.									
Guide Channel same length as track	89	89	89	89	97	97	97	97	97
Guides 2 per door									
Wood Doors	105R/89	105R/89	105R/89	105R/89	102/97	102/97	102/97	102/97	102/97
Wood Doors - concealed fixing	106R/94	106R/94	106R/94	106R/94	106R/97	106R/97	106R/97	106R/97	106R/97
Flush Pull 1 per door	414	414	414	414	414	414	414	414	413
Bow Handle 1 per door (use flush pulls only on double runs of track)	863	863	863	863	463	463	463	463	464

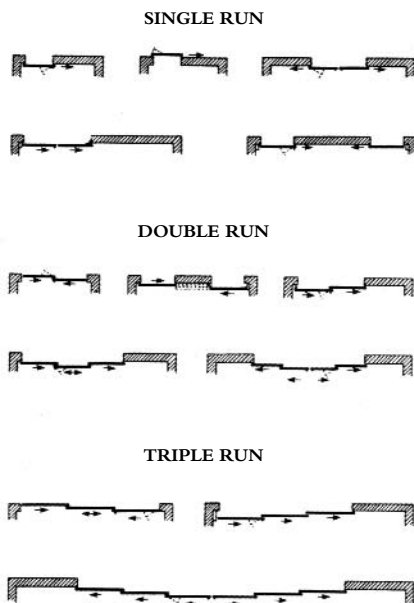
Nylon wheeled hangers (eg 53A/N) - Not to be used for fire resistant door installations involving temperatures exceeding 80°C.

† Fix brackets every 550mm max. †† Fix brackets every 275mm max.

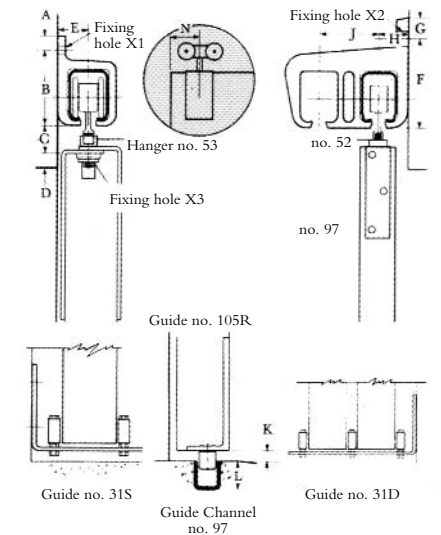
* Max. length 3m. ** For optimum operation the door width should not exceed 3/4 of the door height.

** For optimum operation the door width should not exceed 3/4 of the door height.

EXAMPLE PLAN DETAILS



SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J	K	L	X1	X2	X3	N
280	7	40	20	12	16					10	25	M5			125
290	13	67	25	13	27	80	20	27	54	10	25	M8	M12	11	48
301/301H	20	97	50	25	35	110	33	39	79	10	38	M12	M16	20	75
305	25	140	50	25	38	155	38	48	92	13	38	M16	M20	20	85
307	24	156	67	38	45	192	26	45	91	13	38	M16	M20	25	115

PC Henderson provide a full technical support service.

STRAIGHT SLIDING 280-307

FOR SLIDING METAL DOORS

For top-hung, straight sliding metal doors for commercial and industrial applications; normally framed and braced with steel angle and then clad with steel sheet or similar. Where steel box section is used, hangers no. 56X and guides no. 104PX should be specified; for fire doors, hangers no. 56AF/S or 56CF/S should be used - please consult PC Henderson Technical Department. Nine systems are available for door weights up to 2000kg.

COMPONENTS

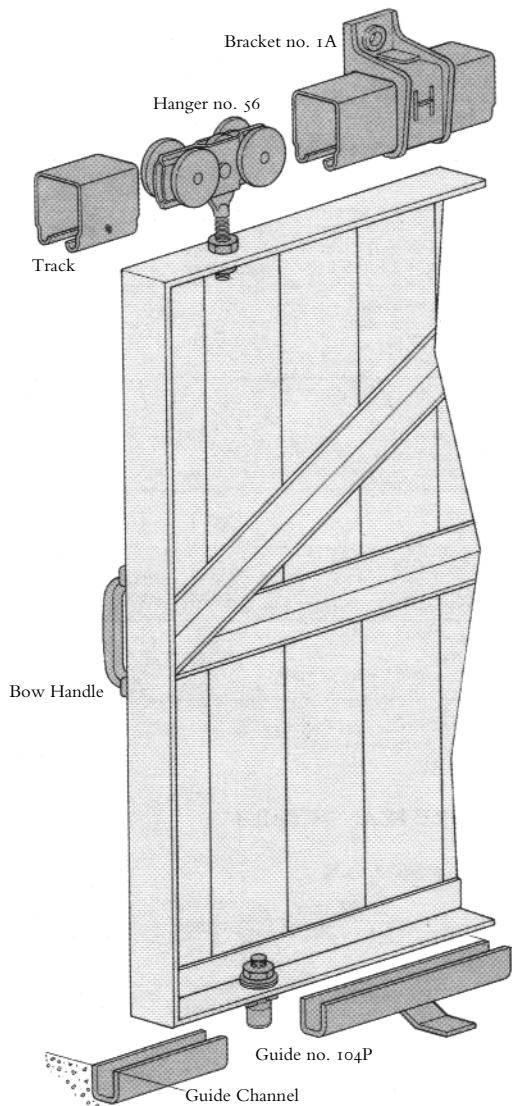
Components supplied include: support and jointing brackets; track; hangers; bottom channel; guides; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities. For optimum operation, the door width should not exceed $\frac{3}{4}$ of the door height.

INSTALLATION NOTES

(also see drawing)

The gear is suitable for single or multiple lines of track where the supporting structure is sufficient to bear the total door weight. Sterling bottom roller gear (see p30-33) may be specified where support is insufficient. Any number of doors sliding to one or both sides may be specified. A wicket door may be incorporated for individual access requirements. A canopy (not by Henderson) is recommended for external fitting of the doors.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS

TRACKS



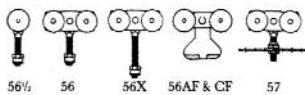
BRACKETS - FACE FIXED



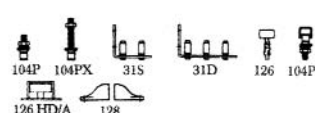
BRACKETS - SOFFIT FIXED



HANGERS



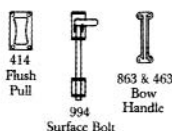
GUIDES



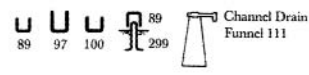
DOOR STOPS



ACCESSORIES



GUIDE CHANNELS



HOW TO CHOOSE YOUR DOOR GEAR

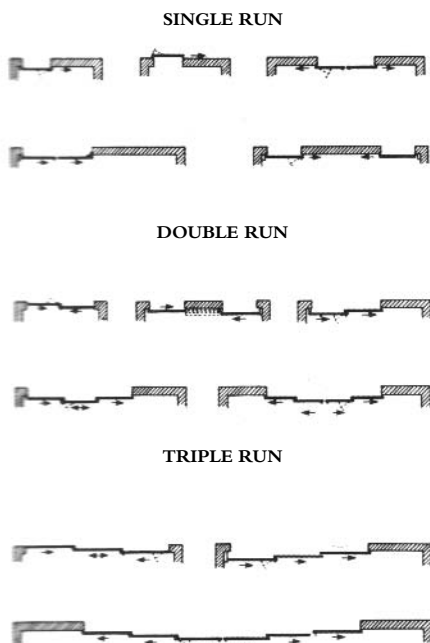
STRAIGHT SLIDING 280-307

Read across to required doorleaf height, then read downwards.

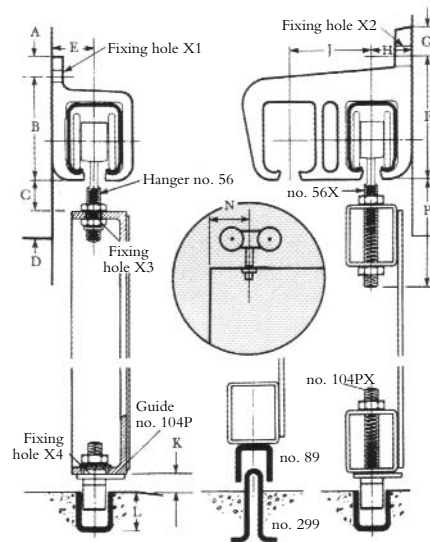
280-307 Metal Door System No.	280	280	290	290	301	301	301H	305	307
Maximum Door Height	2400mm	2400mm	3000mm	3000mm	3600mm	3600mm	4200mm	4800mm	6000mm
Maximum Door Width	1250mm	1250mm	****	****	****	****	****	****	****
Maximum Door Weight	50kg	100kg	150kg	200kg	300kg	400kg	450kg	700kg	2000kg
Door Thickness	20-50mm	20-50mm	35-48mm	35-48mm	43-57mm	43-57mm	43-57mm	43-57mm	60-70mm
Track Twice the width of doors (more if the doors slide further) Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	280*	280*	290*	290*	301	301*	301H*	305	307***
Brackets , single run (face fixing) Brackets , double run, (face-fixing) Brackets , single run (soffit fixing) fix every 900mm max and at track joints	281†	281††	1A/290 5/290 3A/290	1A/290 5/290 3A/290	1A/301 5/301 3A/301	1A/301 5/301 3A/301	1A/301 5/301 3A/301	1A/305 5/305 3A/305	1/307/S 5/307/S 3/307/S
Hangers 2 per door Metal Doors - angle frame Metal Door - box frame Metal Doors - concealed plate Metal Doors - fire doors All Hangers with suffix/N have nylon wheels, and /S have steel wheels.	285N 284N	285 284	56K/S 56K/S200 57K/N	56K/S200 56A/X 57K/S200	56A/S 56A/X 57A/S 56AF/S	56A/N 56AX/N 57A/N	56A/N 56AX/N 57A/N 56AF/S**	56C/S 56CX/S 57C/S 56CF/S	56FJ/S 56FJ/S
Guide Channel same length as track	89	89	89	89	97	97	97	97	97
Guides 2 per door Metal Doors - angle frame Metal Doors - box frame	104P/89 104PX/89	104P/89 104PX/89	104P/89 104PX/89	104P/89 104PX/89	104P/97 104PX/97	104P/97 104PX/97	104P/97 104PX/97	104P/97 104PX/97	104P/97 104PX/97

*Nylon wheeled hangers (eg 56A/N) - Not to be used for fire resistant door installations involving temperatures exceeding 80°C.
 ** If used with 301H track give max. capacity of 360kg. † Fix brackets every 550mm max. †† Fix brackets every 275mm max.
 *** Max. length 3m. ** For optimum operation the door width should not exceed 3/4 of the door height.
 **** For optimum operation the door width should not exceed 3/4 of the door height.

EXAMPLE PLAN DETAILS



SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J	K	L	X1	X2	X3	X4	N	P
280	7	40	20	13	16							10	25	M5	8.4	17	50
290	13	67	25	13	27	80	20	27	54	10	25	M8	M12	10.5	17	48	110
301/301H	20	97	50	25	35	110	33	39	79	10	38	M12	M16	17	20	75	140
305	25	140	50	25	38	155	38	48	92	13	38	M16	M20	17	20	85	140
307	24	156	67	38	45	192	26	45	91	13	38	M16	M20	21	20	115	140

All dimensions in mm

High quality bottom roller gear and fittings to match the best sliding partitions and glazed, flush or panelled doors. Three systems available for leaf weights up to 270kg. Maximum leaf width and number required depends on height and weight of leaf material.

COMPONENTS

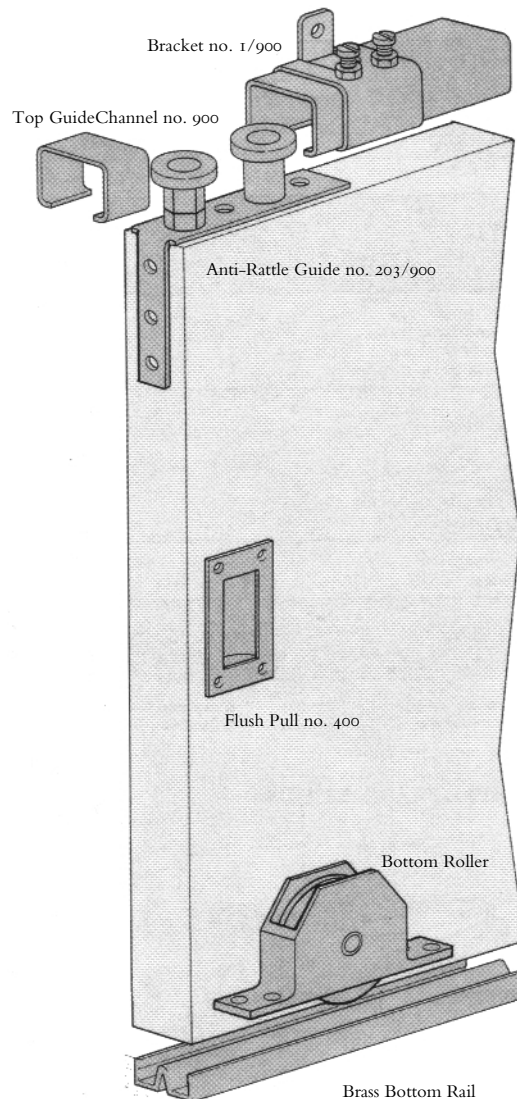
Components supplied include: top guide channel; optional top guide brackets; bottom rollers; bottom rail; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities.

INSTALLATION NOTES

(also see drawing)

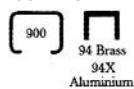
Door leaves must be constructed with deep bottom section for the concealed, mortised bottom rollers (minimum depth 150mm for 913N/913XB rollers or 175mm for 916 rollers).

Typical installation detail drawings are also available from the Technical Department, PC Henderson.

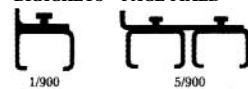


CHOICE OF GEARS

GUIDE CHANNELS



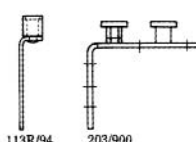
BRACKETS - FACE FIXED



BRACKETS - SOFFIT FIXED



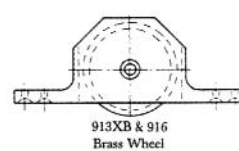
BOTTOM ROLLERS



BOTTOM RAILS



ACCESSORIES



917/918 LUG

917/918 COUPLER

LUG & COUPLER FOR FIXING RAIL TO CONCRETE

400 Flush Pull

HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

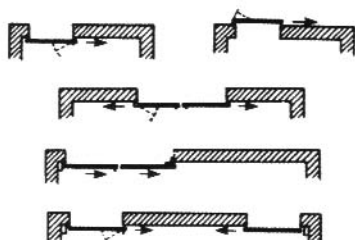
Mansion/Majestic System No.	Mansion 55	Mansion 170	Majestic
Maximum Door Height	2600mm	2600mm	3300mm
Maximum Door Weight	55kg	170kg	270kg
Door Thickness	30-57mm	30-57mm	44-57mm
Top Guide Channel Twice the width of doors Available lengths: 1.8, 2, 2.5 & 3m (More if doors slide further)	94*Brass 94X Aluminium	900	900
Brackets , single run (soffit fixing)		3/900	3/900
Brackets , single run (face fixing)		1/900	1/900
Brackets , double run (face fixing)		5/900	5/900
Fix every 900mm max and at channel joints			
Guides - 2 per door	113R/94	203/900	203/900
Bottom Rollers - brass wheel - nylon wheel	913N	913XB	916
Bottom Rail - brass - brass recessed - aluminium same length as guide channel (lengths 1.5 & 3m)	aluminium 915X**	918 815	917 817
Flush Pull 2 per door	400	400	400

* Available in 1.5 & 3m lengths, drilled for soffit fixing.

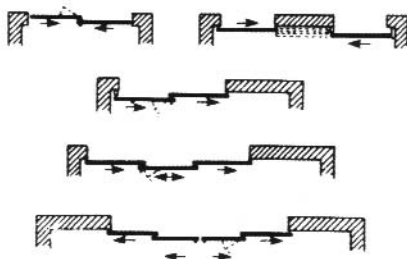
** Available in 1.5, 2, 2.5 & 3m lengths.

EXAMPLE PLAN DETAILS

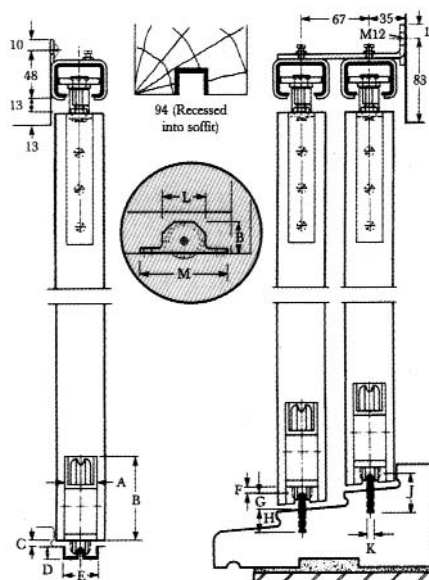
SINGLE RUN



DOUBLE RUN



SECTION DETAILS



SYSTEM	A	B	C	D	E	F	G	H	J	K	L	M
MANSION 55	16	37	5	6	21	5	16	16	32	6	48	74
MANSION 170	22	48	5	10	25	5	16	16	32	6	63	117
MAJESTIC	32	82	6	13	35	6	16	22	38	8	111	229

PC Henderson provide a full technical support service.

For bottom rolling wood doors in a range of commercial and industrial applications, especially where the supporting structure or lintel is insufficient for the weight of the door or headroom is limited. The doors may be partially or fully glazed, or should be framed, ledged and braced for industrial applications. Four systems are available up to 2000kg per door.

Maximum door width and number of doors required depends on height, and the weight of door material (e.g. a soft-wood door with 50-60mm frame and 20mm boarding weighs c. 22-24 kg/m²). For optimum operation, the door width should not be less than 1/2 the door height.

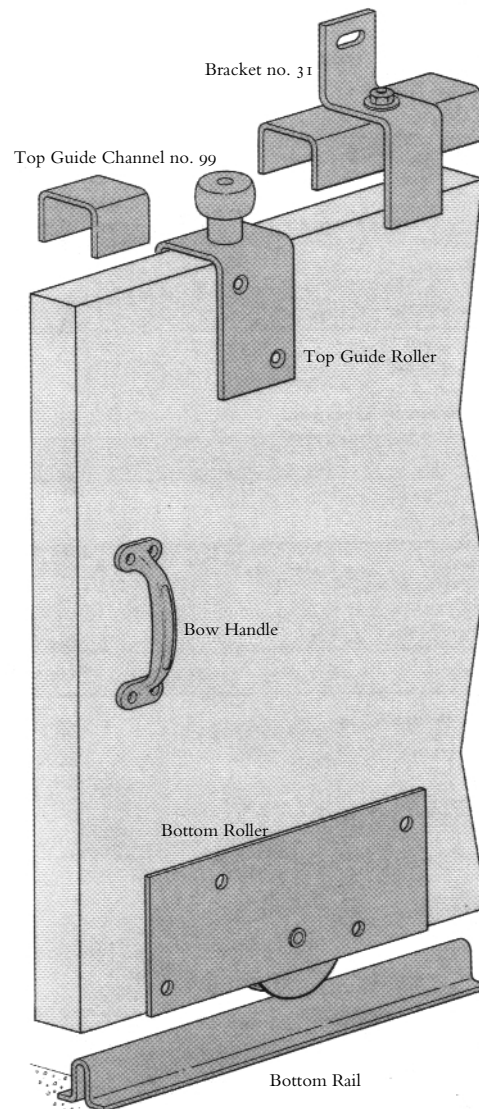
COMPONENTS

Components supplied include: top guide channel; brackets; top guide rollers; bottom rollers; bottom rail; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities.

INSTALLATION NOTES

(also see drawing)

The gear is suitable for single or multiple lines of track. Rollers should be positioned in the bottom door leaf section, clear of the joint with the stile. Suitable depth of bottom leaf sections are: 230mm for bottom rollers no.s 2 & 5; 300mm for no. 3; no. 4 made to order to suit door thickness between 70-100mm as specified. Any number of doors sliding to one or both sides may be specified. A canopy (not by PC Henderson) is recommended for external fitting of the doors.



CHOICE OF GEARS

GUIDE CHANNELS



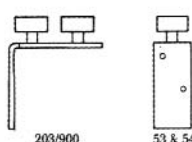
BRACKETS - FACE FIXED



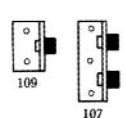
BRACKETS - SOFFIT FIXED



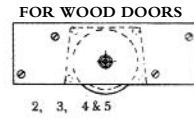
GUIDES FOR WOOD DOORS



DOOR STOPS



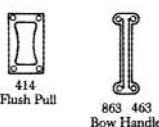
BOTTOM ROLLERS FOR WOOD DOORS



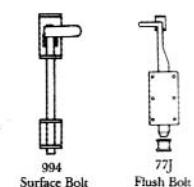
BOTTOM RAILS



HANDLES



BOLTS



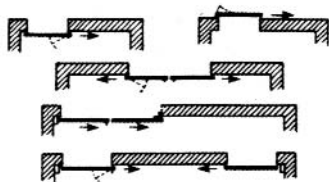
HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

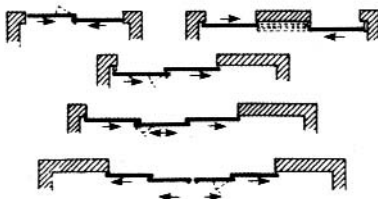
Sterling Wood Door System No.	225	350	800	2000
Maximum Door Height	3300mm	4000mm	5200mm	7500mm
Maximum Door Weight	225kg	350kg	800kg	2000kg
Door Thickness	44-50mm	44-54mm	54-63mm	See Text
Top Guide Channel Twice the width of doors (More if doors slide further) Available lengths: 2, 2.5 & 3m	900	99	99	13
Brackets, single run (face fixing)	1/900	31	31	1/13
Brackets, double run (face fixing) Fix every 900mm max and at channel joints	5/900	35	35	5/13
Guides - 2 per door	54/900	53/99	53/99	53/13
Bottom Rollers 2 per door	5	2	3	4
Bottom Rail (same length as guide channel)	299	298	298	298
Flush Pull 1 per door (used on double runs of track)	414	414	414	413
Bow Handle 1 per door (used on single doors)	463	463	463	464

EXAMPLE PLAN DETAILS

SINGLE RUN

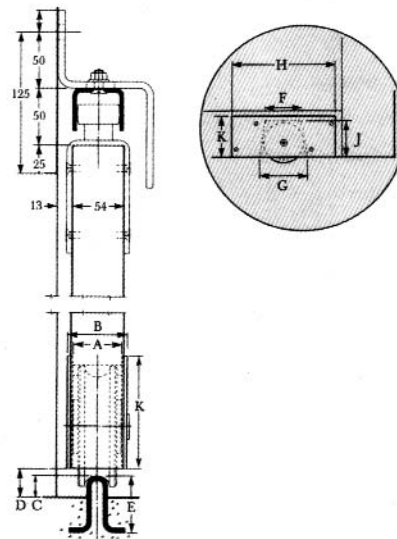


DOUBLE RUN



SECTION DETAILS

(NB: The top section of the door illustrated is only Sterling 350 & 800.
For Sterling 225 see MANSION)



TRACK	A	B	C	D	E	F	G	H	J	K
225	44	50	16	24	50	65	102	159	67	75
350	44	54	20	25	50	115	135	305	95	102
800	51	63	20	30	50	135	175	381	130	152

PC Henderson provide a full technical support service.

STRAIGHT SLIDING BOTTOM ROLLER

For bottom rolling metal doors and gates in a range of commercial and industrial applications, especially where the supporting structure or lintel is insufficient for the weight of the door or headroom is limited. The doors should be framed and braced using steel angle, then clad with steel sheet; for Sterling 3600 and 8000 gear the door should be constructed from steel channel section. Six systems are available up to 8000kg per door.

Maximum door width and no. required depends on height, and the weight of door material. For optimum operation, the door width should not be less than $\frac{1}{2}$ the door height. Gear also suitable for power operation (power operation not by PC Henderson - consult Technical Department).

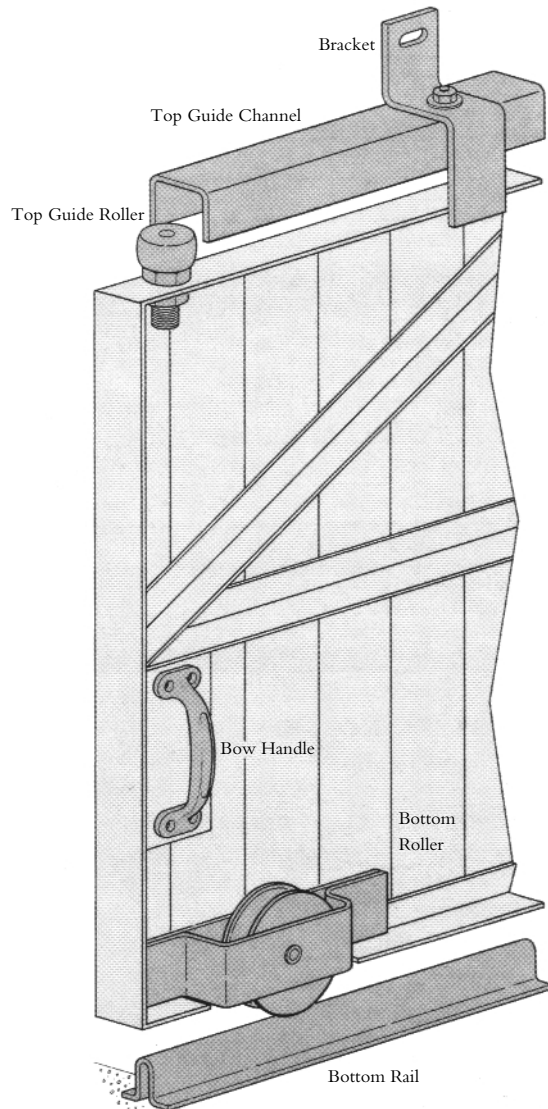
COMPONENTS

Components supplied include: top guide channel; brackets; top guide rollers; bottom rollers; bottom rail; full range of accessories. (All steel parts are galvanised.) Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities.

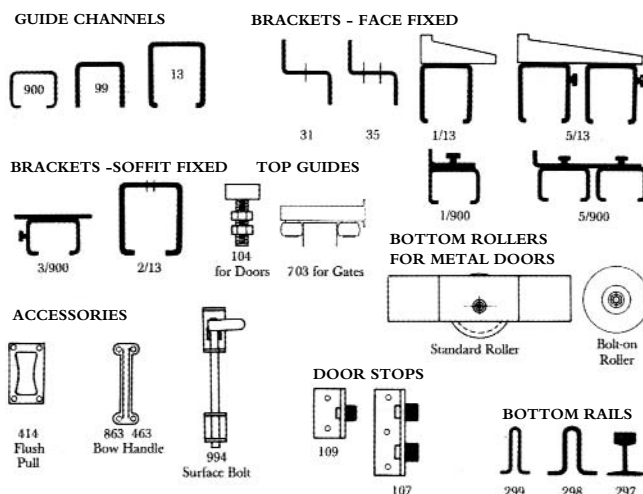
INSTALLATION NOTES

(also see drawing)

The gear is suitable for single or multiple lines of track. Rollers should be positioned securely in the bottom door frame section by welding or bolting. Bottom rail must be set level and may be recessed for protection from traffic. Any number of doors sliding to one or both sides may be specified. A wicket door may be incorporated for individual access requirements. A canopy (not by PC Henderson) is recommended for external fitting of the doors.



CHOICE OF GEARS



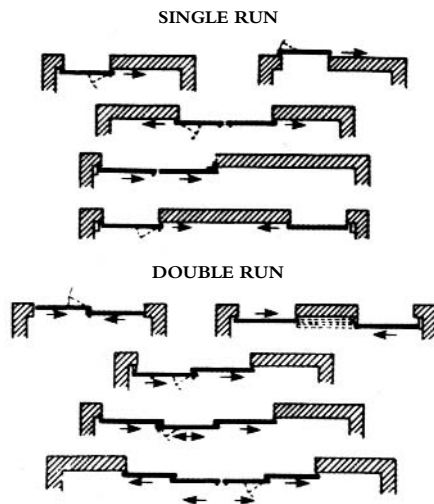
HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

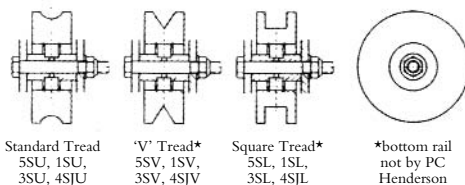
Sterling Metal Door System No.	225	350	800	2000	3600	8000
Maximum Door Height	3300mm	4000mm	5200mm	7500mm	12500mm	20000mm
Maximum Door Weight	225kg	350kg	800kg	2000kg	3600kg	8000kg
Door Thickness	44-50mm	44-54mm	54-63mm	58-70mm	152min	152min
Top Guide Channel Twice the width of doors (More if doors slide further) Available lengths: 2, 2.5 & 3m	900	99	99	13	Not by PCH	
Brackets , single run (face fixing)	1/900	31	31	1/13	Not by PCH	
Brackets , double run (face fixing)	5/900	35	35	5/13	Not by PCH	
Fix every 900mm max and at channel joints						
Guides - 2 per door	104/900	104/99	104/99	104/13	104S*	104S*
Bottom Rollers 2 per door - standard	5S	1S	3S	4SJ	3600**	8000**
Bottom Rollers 2 per door - Bolt on rollers also available in 'V' square or 'U' tread, see below	5SU	1SU	3SU	4SJU		
Bottom Rail (same length as guide channel)	299	298	298	298	297***	297***
Bow Handle 1 per door (used on single doors)	463	463	463	464	464	464

* Fit 4 per door, available in choice of 125, 175 & 200mm diameters. ** Made to suit door. Chain driven geared rollers available. *** Only Available in 2.7m lengths (plain steel).

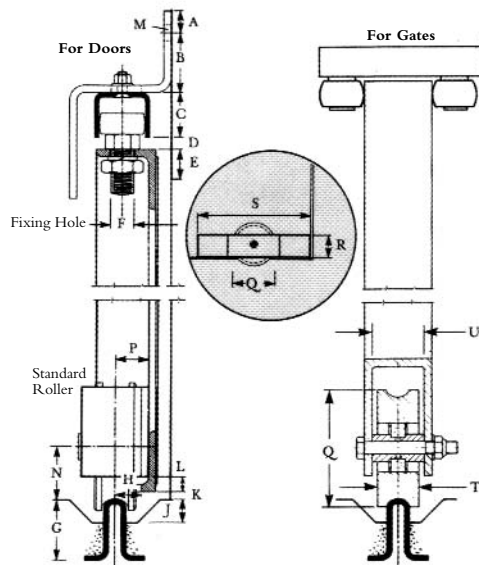
EXAMPLE PLAN DETAILS



BOLT ON OPTION



SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
225	10	10	38	20	25	17	50	14	16	3	11	12	30	19	75	50	229	25	35
350	20	50	38	10	25	21	50	22	20	6	13	12	44	29	110	75	305	40	50
800	20	50	38	10	25	21	50	22	20	6	13	12	62	32	146	75	381	40	50
2000	32	35	85	25	30	26	50	25	20	10	12	16	85	32	197	102	457	45	56
3600															286			105	128
8000															436			105	128

PC Henderson provide a full technical support service.

TANGENT ROUND THE CORNER

ROUND - THE - CORNER

FOR ROUND-
THE-CORNER
FOLDING WOOD
OR METAL DOORS

Robust top-hung door gear for round-the-corner domestic, commercial or light industrial, wood or metal folding doors; deluxe fittings are also available in polished or satin anodised aluminium finishes. Doors may be panelled, flush or glazed. Four systems are available to suit leaf weights up to 80kg.

COMPONENTS

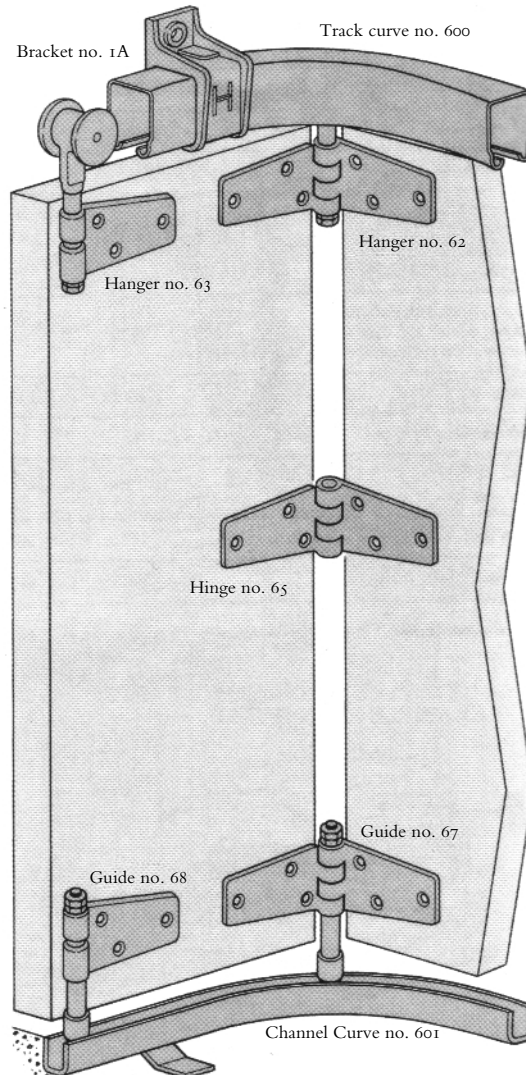
Components supplied include: track; track curves; support and jointing brackets; hangers; hinges; guides; bottom channel; channel curves; full range of accessories. (All steel parts are galvanised) Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities (see table for maximum leaf width and drawing for leaf detail).

INSTALLATION NOTES

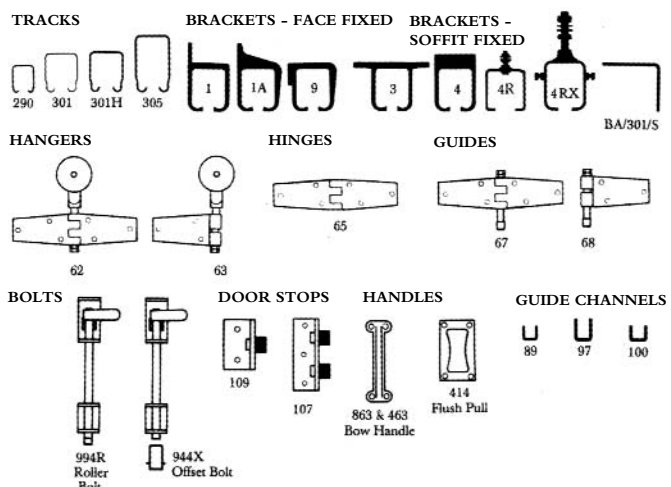
(also see drawing)

Hinges should be fixed to framing and joints of the door. For smooth operation, only 3-5 leaves should be hinged in one unit; any number of units may be used, sliding to one or both sides. The end leaf under the curve normally forms a swinging access door (see plan for details).

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



HOW TO CHOOSE YOUR DOOR GEAR

TANGENT ROUND THE CORNER

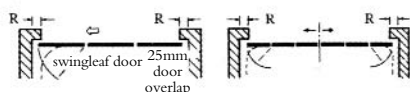
Read across to required doorleaf height, then read downwards.

Tangent Round-the-corner System No.	290	301	301H	305
Maximum Leaf Height	2400mm	3300mm	3600mm	4500mm
Maximum Leaf Weight	35kg	55kg	70kg	80kg
Maximum Leaf Width (minimum 711mm)	900mm	900mm	900mm	900mm
Leaf Thickness	35-50mm	45-55mm	45-55mm	45-55mm
Track Front track = opening width + reveal R - 800 Side track = opening width Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	290	301	301H	305
Track Curves Require 1, or 2 for biparting doors	600K	600B	600BH	600D
Brackets - face fixing Fix every 900mm max and at track joints and curves Fix jointing brackets/sleeve at both curved ends	1A/290 1AX/290	1A/301 4RX/301TS	1A/301 4RX/301TS	1/305 1AX/305
Hangers 1 per leaf joint and end leaf Intermediate leaves End Leaf	62K 63K	62A 63A	62A 63A	62C 63C
Hinges 3 in height*	65	65	65	65C
Guides - 1 per leaf joint and end leaf Intermediate Leaves End Leaf	67/89 68/89	67/97 68/97	67/97 68/97	67C/97 68C/97
Channel - Same length as track Channel Curve - No. as track curves	89 601/89	97 601/97	97 601/97	97 601/97
Bow Handles 1 every 2 leaves	863	463	463	463
Flush Pull 1 every 2 leaves	414	414	414	414
Roller Bolt 1 per swingleaf door	994R	994R	994R	994R

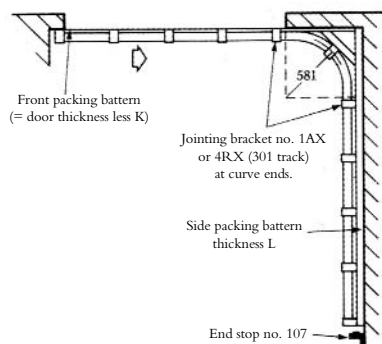
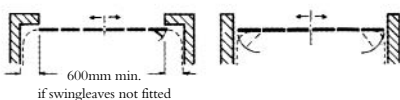
* Increase to 4 for doors over 3000mm high.

Fit offset bolt 994X on doors with trailing swingleaf, on all fixed units, unit of 5 leaves and biparting units.

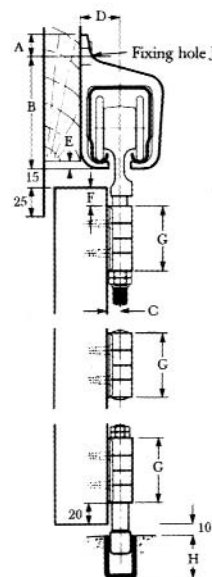
EXAMPLE PLAN DETAILS



For convenient locking R should not exceed 360mm, but 115mm-230mm is ideal. If the swingleaf under the curve is not required R should be a min. of 690mm to accommodate the corner curve.



SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J	K	L
290	13	67	11	27	6	10	57	25	M8	6	65
301/301H	20	97	11	35	6	15	57	25	M12	16	70
305	25	140	14	38	10	15	83	38	M16	16	75

PC Henderson provide a full technical support service.

TANGENT FOLDING

FOR FOLDING
WOOD OR
METAL DOORS

EXTERNAL FOLDING

Robust top-hung door gear for commercial or light industrial wood or metal folding doors; deluxe fittings are also available in polished or satin anodised aluminium finishes. Doors may be panelled, flush or glazed. Seven systems are available to suit leaf weights up to 80kg.

COMPONENTS

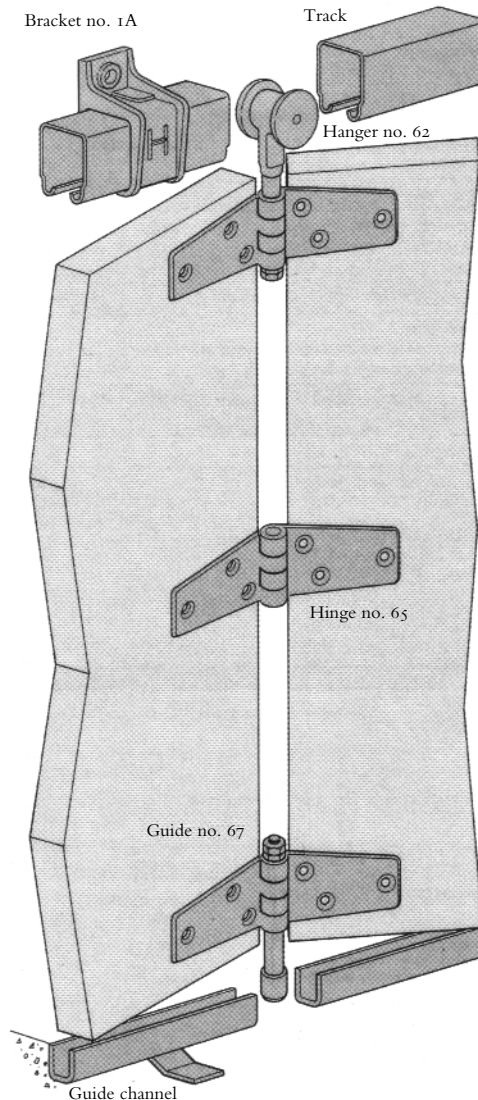
Components supplied include: track; support brackets; hangers; hinges; guides; bottom channel; range of accessories. (All steel parts are galvanised.) Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities (see table for maximum leaf width and drawing for leaf detail).

INSTALLATION NOTES

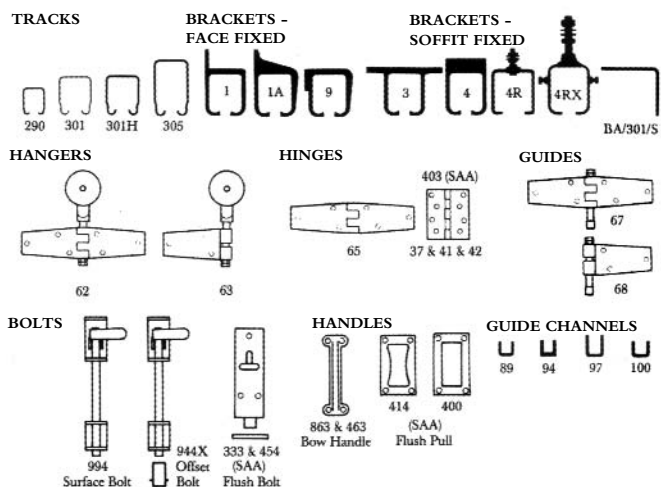
(also see drawing)

Hinges should be fixed to framing and joints to door. Up to 8 leaves can be hinged to jamb within the opening or behind a reveal. Free-floating units may also be used, of 4, 6 or 8 leaves for stability. A swinging pass door, only for leaves under 3000mm high, is obtained by using 3 or 5 leaves hinged to jamb or an independently hung leaf (see plan for details). If over 3000mm high, an independently hung leaf only is recommended.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



TANGENT FOLDING

HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

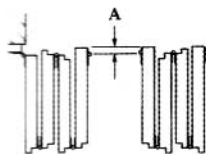
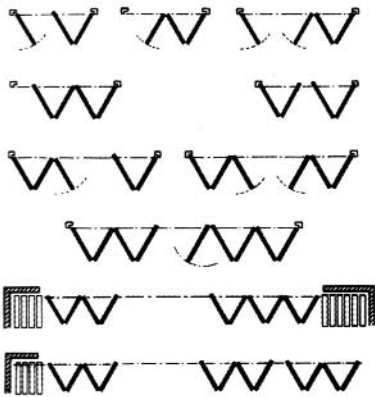
Tangent Folding System No.	290S	290D	301S	301D	301HS	301HD	305S
FINISH**	STANDARD	DELUXE	STANDARD	DELUXE	STANDARD	DELUXE	STANDARD
Maximum Folding Leaf Height	2400mm	2400mm	3300mm	3300mm	3600mm	3600mm	4500mm
Maximum Folding Leaf Weight	35kg	35kg	55kg	55kg	70kg	70kg	80kg
Maximum Folding Leaf Width	900mm	900mm	900mm	900mm	900mm	900mm	900mm
Leaf Thickness	35-50mm	35-50mm	45-55mm	45-55mm	45-55mm	45-55mm	45-55mm
Track Equal to width of opening (extra if doors slide further) Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	290	290	301	301	301H	301H	305
Brackets - face fixed	1A/290	1A/290	1A/301	1A/301	1A/301	1A/301	1/305
Brackets - soffit fixed	3A/290	3A/290	3A/301	3A/301	3A/301	3A/301	3A/305
Fix every 900mm max and at track joints Fix extra bracket where leaves stack							
Hangers 1 every 2 leaves							
Intermediate leaves	62K	62K/P	62A	62A/P	62A	62A/P	62C
End Leaf	63K	63K/P	63C	63A/P	63A	63A/P	63C
Hinges 3 in height*	65	403/2 403/3	65	403/2 403/3	65	403/2 403/3	65C
Guides - 1 every 2 leaves	67/89	67/94P	67/97	67/94P	67/97	67/94P	67C/97
Intermediate Leaves							
End Leaf	68/89	68/94P	68/97	68/94P	68/97	68/94P	68C/97
Channel - Same length as track (Galvanised wire steel)	89	94	97	94	97	94	97
Handles 1 every 2 leaves	863	400	463	400	463	400	463
Bolt 1 every 2 leaves	994	333	994	454	994	454	994

** Standard or deluxe finishes (polished/anodised fittings) are available. * Increase to 4 when doors exceed 3000mm high

No more than 8 leaves should be hinged together, and can be hinged to jamb or floating.

A swinging pass door is obtained by using 3 or 5 leaves hinged to jamb, or an independently hung leaf. For doors over 3000mm high a wicket door is recommended.

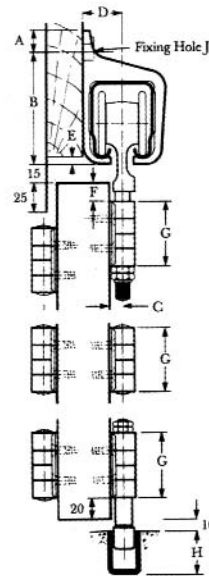
EXAMPLE PLAN DETAILS



WIDTH OF LEAVES
ALL ALIKE EXCEPT END LEAVES
WITH HANGERS WHICH MUST BE
WIDER BY DIMENSION 'A'

TANGENT FOLDING AND FOLDING DELUXE	A
TRACK 290	20
TRACK 301/301H	30
TRACK 305	38

SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J
290	13	67	11	27	6	10	57	25	M8
301/301H	20	97	11	35	6	15	57	38	M12
305	25	140	14	38	10	15	83	38	M16

PC Henderson provide a full technical support service.

All dimensions in mm

ENDFOLD PARTITION (COUNCIL)

FOR END FOLDING WOOD PARTITION DOORS

Quality top-hung gear and fittings for end folding wood partition doors. Four systems are available to a maximum leaf weight of 80kg.

COMPONENTS

Components supplied include: support brackets and track; top hangers; hinges; guides; bottom channel; full range of accessories. Consult your PC Henderson Technical Department or 'Expert' Service for guidance on quantities. (See table for maximum leaf width).

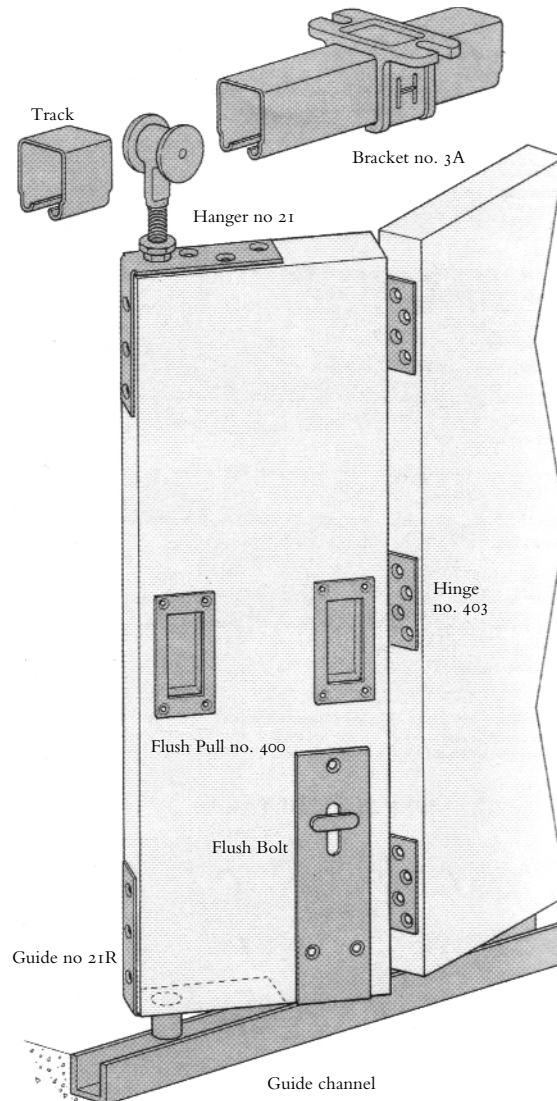
INSTALLATION NOTES

Doors must be constructed with solid top and bottom rails and stiles for secure fixing of components.

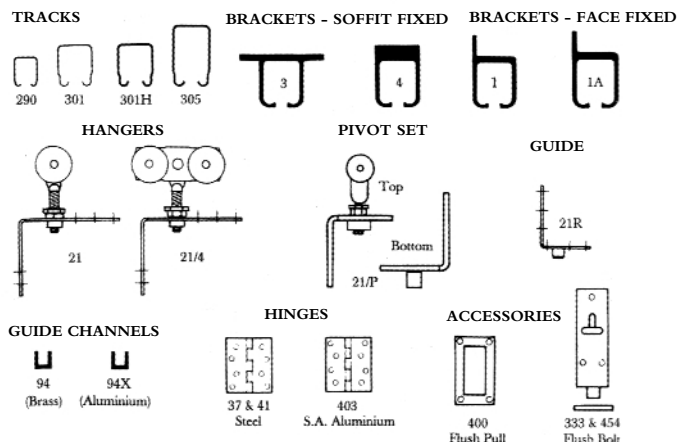
Leaves may be panelled, flush or glazed. For best operation, not more than 8 leaves to be hinged to one jamb (see inset drawing for fixing detail of flush endfold pivot gear) or anchored by pivots, alternatively leaves may be floating in units of 4, 6 or 8. An access door can be a swing leaf at the end of a 3, 5 or 7 leaf unit or independently hung to the jamb.

On door heights over 3000mm consult PC Henderson Technical Department.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



ENDFOLD PARTITION (COUNCIL)

HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

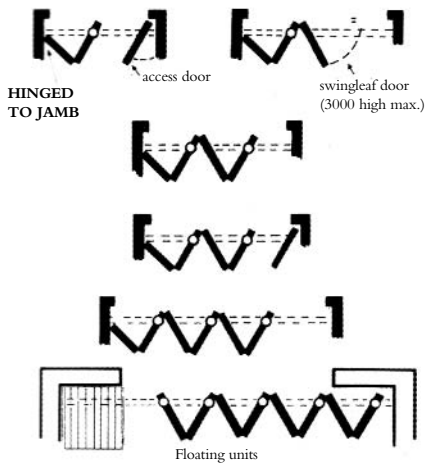
Council Endfold System No.	290	301	301H	305
Maximum Folding Leaf Height	2700mm	3300mm	3600mm	4500mm
Maximum Folding Leaf Weight	35kg	55kg	70kg	80kg
Maximum Folding Leaf Width	900mm	900mm	900mm	900mm
Leaf Thickness	35-44mm	44-57mm	44-57mm	44-57mm
Track equal to width of opening (extra if doors slide further) Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	290	301	301H	305
Brackets - Soffit fixed. Fix every 900mm max and at track joints Fix extra bracket where doors stack	3A/290	3A/301	3A/301	3A/305
Hangers 1 every 2 leaves (+ endleaf of floating unit only) Alternative type if adjacent to swingleaf	21K/S 21K/4N	21A/S 21A/4S	21A/S 21A/4S	21C/S
Hinges 3 in height* Alternative pivot set where equal width leaves are to be Anchored at one end	403/1 21K/P	403/2 21A/P	403/2 21A/P	403/3
Guides - 1 every 2 leaves (+ endleaf of floating unit only)	21KR/94	21R/94	21R/94	21R/94
Guide Channel - Same length as track - brass (available in 1.5 & 3m lengths) aluminium (available in 1.5, 2, 2.5 & 3m lengths)	94 94X	94 94X	94 94X	94 94X
Flush Pull 1 every 2 leaves (2 on end leaves of units)	400	400	400	400
Flush Bolt 1 every 2 leaves	333	454	454	454

No more than 6 leaves should be hinged together and can be hinged to jamb or floating.

A swinging pass door is obtained by using a 3 or 5 leaf unit up to 3000mm high, or an independently hung leaf.

* Increase to 4 for doors over 3000mm high.

EXAMPLE PLAN DETAILS

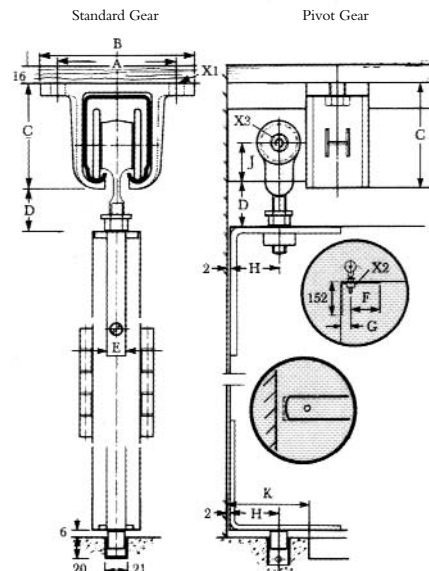


WIDTH OF LEAVES
ALL ALIKE EXCEPT PIVOT LEAF
HINGED TO JAMB WHICH MUST
BE LESS BY 'A' PLUS 'B'

COUNCIL	B	A
ENDFOLD 290	38	HALF
ENDFOLD 301/301H	45	THE LEAF
ENDFOLD 305	45	THICKNESS

BUTTS
ON
JAMB
NOT
OFFSET

SECTION DETAILS



TRACK	A	B	C	D	E	F	G	H	J	K	X1	X2	X3
290	64	83	56	20	13	114	38	38	20	70	M8	13	M6
301/30H	100	130	86	45	18	133	45	45	35	75	M12	20	M8
305	125	168	121	60	18	133	45				M16	20	

PC Henderson provide a full technical support service.

All dimensions in mm

CENTREFOLD PARTITION(COUNCIL)

FOR CENTRE FOLDING WOOD PARTITION DOORS

Quality top-hung gear and fittings for centre folding wood partition doors. Four systems are available to a maximum leaf weight of 80kg.

COMPONENTS

Components supplied include: support brackets and track; top hangers; hinges; guides; bottom channel; full range of accessories. Consult your PC Henderson Technical Department or 'Expert' Service for guidance on quantities. (See table for maximum leaf width).

INSTALLATION

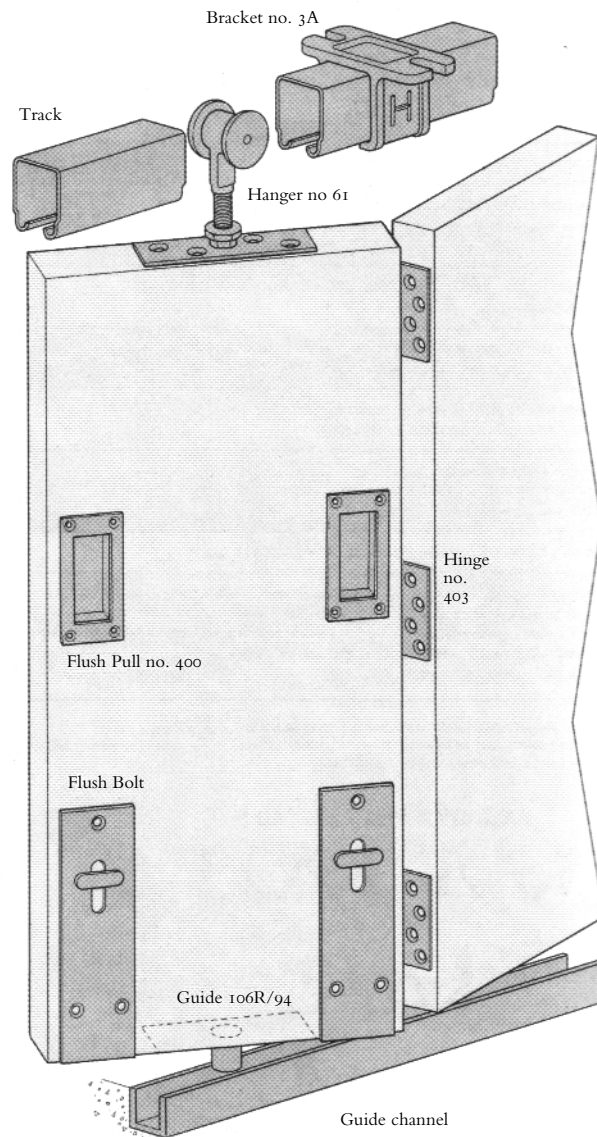
NOTES

(also see drawing)

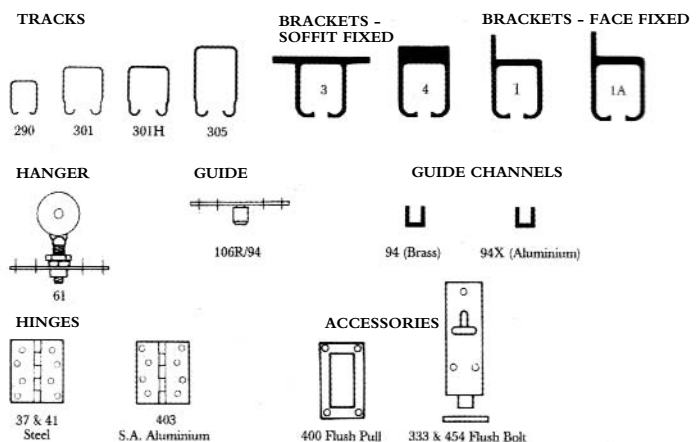
Doors must be constructed with solid top and bottom rails and stiles for secure fixing of components.

Leaves may be panelled, flush or glazed. For best operation, not more than 7½ leaves to be hinged to one jamb (see inset drawing for fixing detail), alternatively leaves may be floating in units of 5, 7 or 9. Any access door should be hung separately to the jamb.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



HOW TO CHOOSE YOUR DOOR GEAR

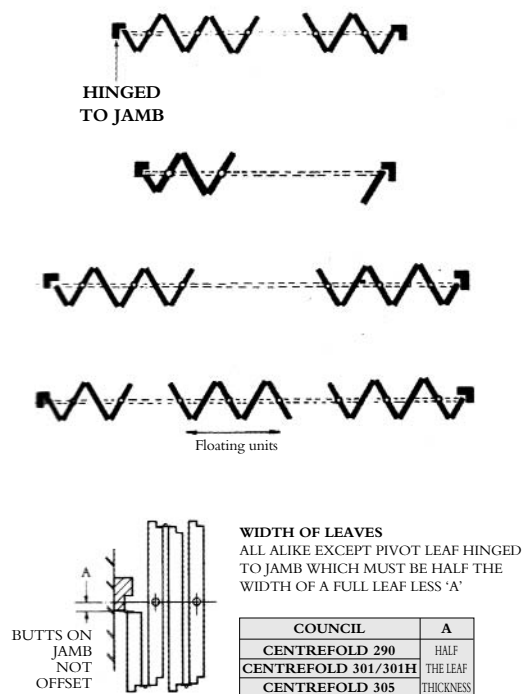
CENTREFOLD PARTITION(COUNCIL)

Read across to required doorleaf height, then read downwards.

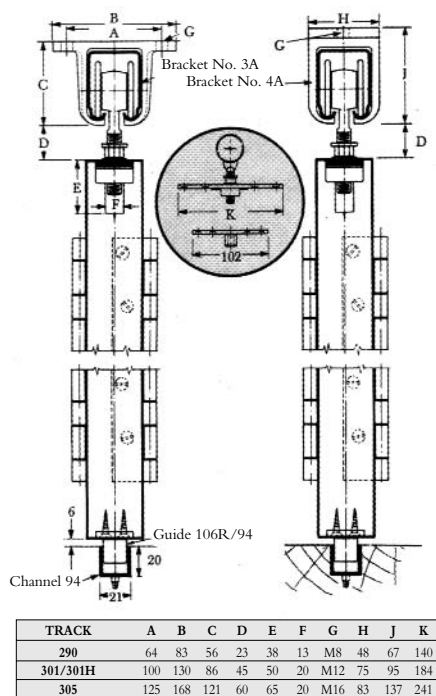
Council Centrefold System No.	290	301	301H	305
Maximum Folding Leaf Height	2700mm	3300mm	3600mm	4500mm
Maximum Folding Leaf Weight	35kg	55kg	70kg	80kg
Maximum Folding Leaf Width	1000mm	1000mm	1000mm	1000mm
Door Thickness	35-44mm	44-57mm	44-57mm	44-57mm
Track Equal to opening width Available lengths: 1.8, 2, 2.5, 3, 4 & 6m	290	301	301H	305
Brackets - Soffit fixed. Fix every 900mm max and at track joints Fix extra bracket where doors stack	3A/290	3A/301	3A/301	3A/305
Hangers 1 every 2 leaves	61K/S	61A/S	61A/S	61C/S
Hinges 3 in height*	403/1	403/2	403/2	403/3
Guides - 1 every 2 leaves	106R/94	106R/94	106R/94	106R/94
Guide Channel - Same length as track - brass (available in 1.5 & 3m lengths) aluminium (available in 1.5, 2, 2.5 & 3m lengths)	94 94X	94 94X	94 94X	94 94X
Flush Pull 1 every 2 leaves (2 on end leaf)	400	400	400	400
Flush Bolt 1 every 2 leaves (2 on end leaf)	333	454	454	454

Door should consist of 3, 5 or 7 folding leaves, with extra half leaf hinged to jamb. Alternatively, 5, 7 or 9 leaves may be floating.
* Increase to 4 for doors over 3000mm high.

EXAMPLE PLAN DETAILS



SECTION DETAILS



PC Henderson provide a full technical support service.

High quality bottom roller gear and fittings for end folding wood partitions doors. Two systems are available to a maximum leaf weight of 140kg.

COMPONENTS

Components supplied include: top guide brackets; top guide channel; top guide rollers; hinges; bottom rollers; bottom rail; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities. (See table for maximum leaf width).

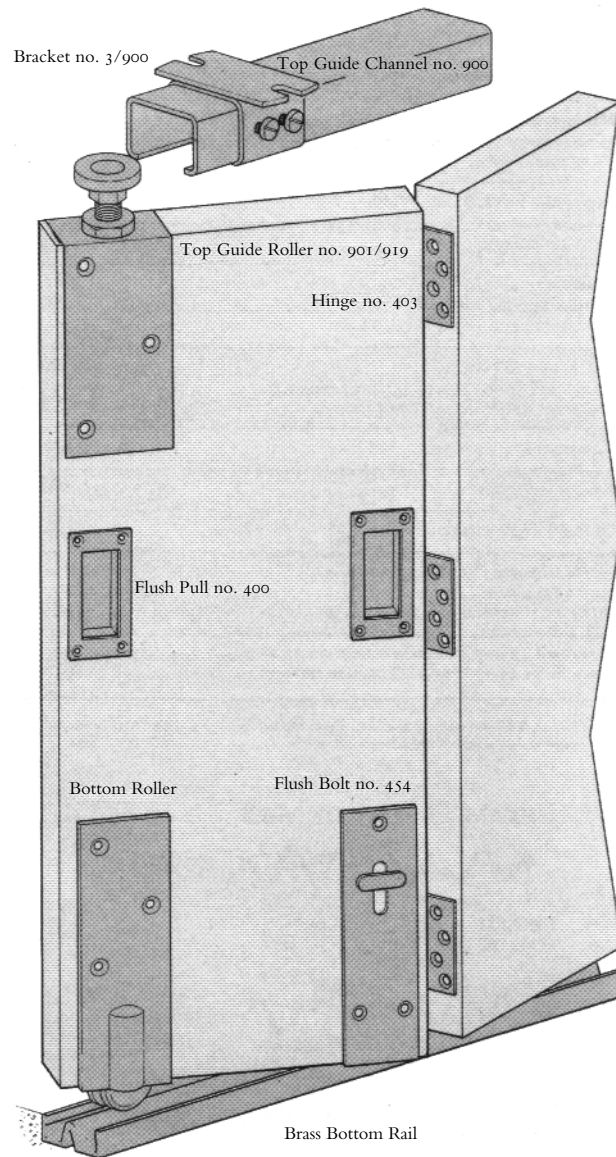
INSTALLATION NOTES

(also see drawing)

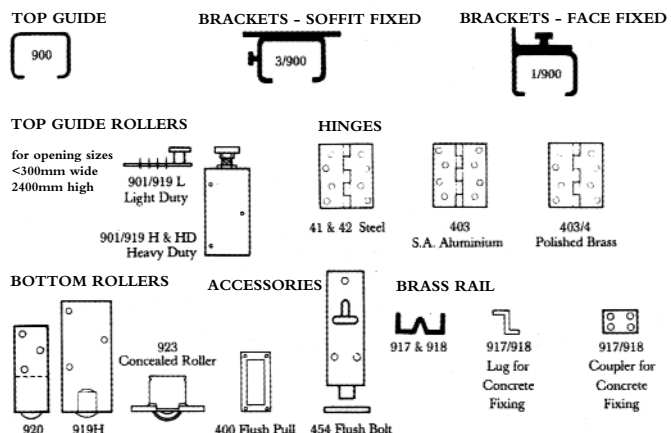
Doors must be constructed with solid top and bottom rails and stiles for secure fixing of components. Minimum 50mm wide and 75mm deep stiles for 923 concealed rollers (max. door weight 70kg) 125mm deep stiles for 920 rollers, 150mm deep for 919H rollers and 200mm deep bottom rails.

Leave may be panelled, flush or glazed. For best operation, no more than 8 leaves to be hinged to one jamb (see inset drawing for fixing detail), alternatively leaves may be floating in units of 6 or 8. Any swing door should be hung separately to the jamb.

Typical installation drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



COLLEGE ENDFOLD

HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

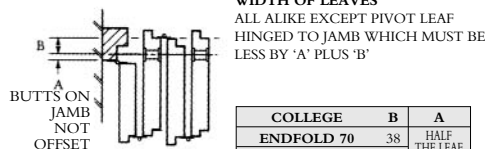
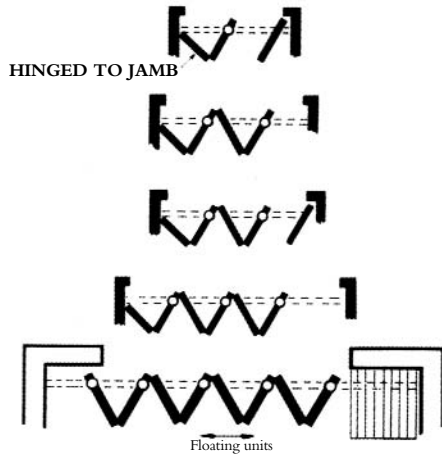
College Endfold System No.	ENDFOLD 70	ENDFOLD 140
Maximum Folding Leaf Height	3600mm	5500mm
Maximum Folding Leaf Weight	70kg	140kg
Maximum Folding Leaf Width	900mm	900mm
Door Thickness	44mm	54mm
Top Guide Channel Equal to opening width (extra if doors slide further) Available lengths: 2, 2.5 & 3m	900	900
Brackets - Soffit fixed. Fix every 600mm max and at channel joints Fix extra bracket where doors stack	3/900	3/900
Top Guide Rollers 1 every 2 leaves (+ endleaf of floating unit only)	901/919H	901/919HD
Hinges 3 in height*	403/2	403/3
Bottom Rollers 1 every 2 leaves (+ endleaf of floating unit only)	920/923	919H
Bottom Rail - same length as Top Guide Channel Available lengths 1.5m & 3m	918	917
Flush Pull 1 every 2 leaves (2 on end leaf)	400	400
Flush Bolt 1 every 2 leaves	454	454

* Increase to 4 when doors exceed 3000mm high.

No more than 8 leaves should be hinged to jamb.

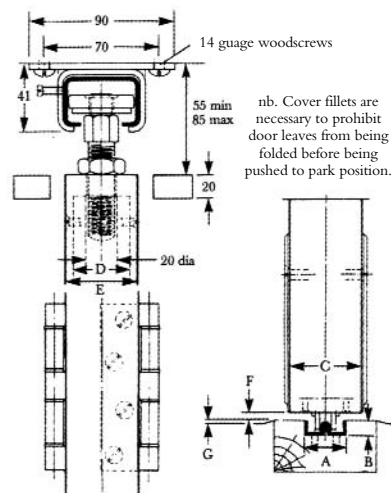
An access door can be independently hinged to a jamb or a wicket door fitted, but a swing door should not be attached to a folding unit.

EXAMPLE PLAN DETAILS



COLLEGE	B	A
ENDFOLD 70	38	HALF THE LEAF THICKNESS
ENDFOLD 140	51	

SECTION DETAILS



SYSTEM	A	B	C	D	E	F	G
ENDFOLD 70	25	10	44	34	44	5	2
ENDFOLD 140	35	13	54	44	54	6	3

COLLEGE CENTREFOLD

FOR CENTRE FOLDING WOOD PARTITION DOORS

High quality bottom roller gear and fittings for centre folding wood partition doors. Two systems are available to a maximum leaf weight of 140kg.

COMPONENTS

Components supplied include: top guide brackets; top guide channel; top guide rollers; hinges; bottom rollers; bottom rail; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities. (See table for maximum leaf width).

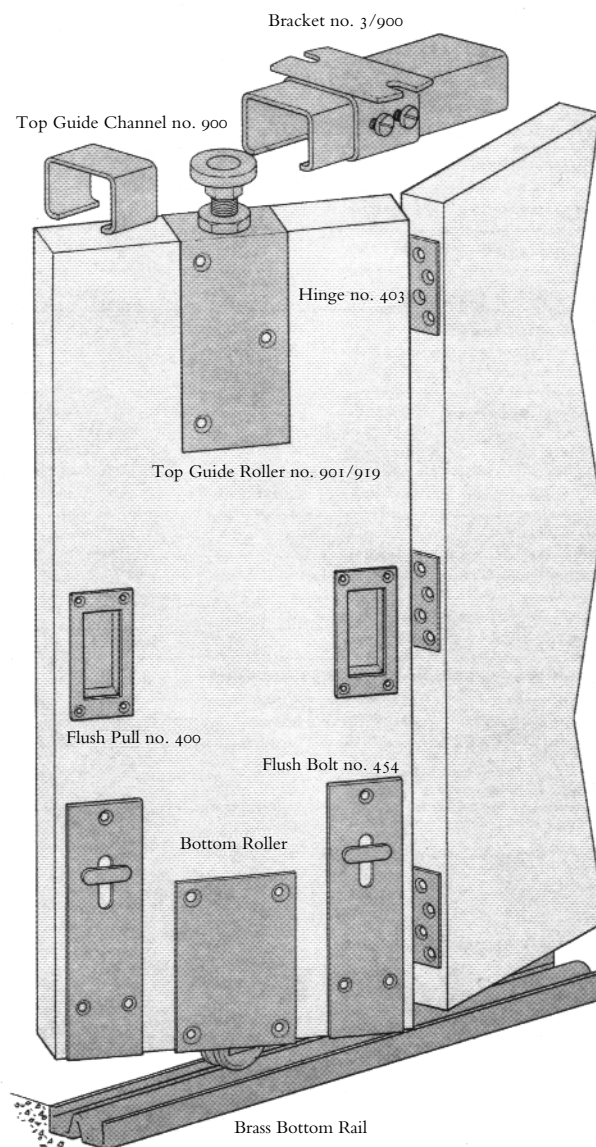
INSTALLATION NOTES

(also see drawing)

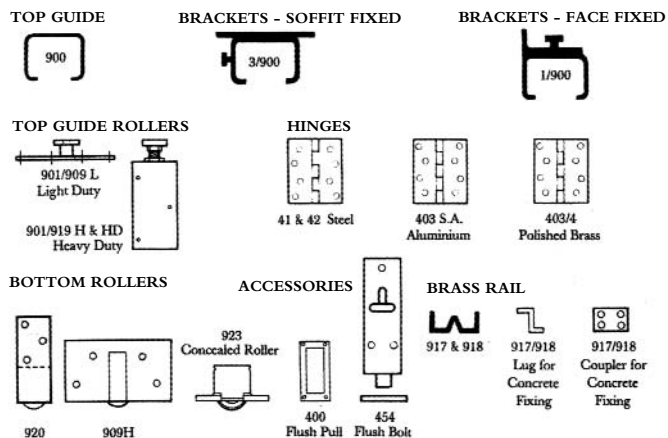
Doors must be constructed with solid top and bottom rails and stiles for secure fixing of components. Minimum 50mm wide and 75mm deep stiles for 923 concealed rollers (max. door weight 70kg). Minimum 200mm deep for bottom rails.

Leaves may be panelled, flush or glazed. For best operation, not more than 7½ leaves to be hinged to one jamb (see inset drawing for fixing detail), alternatively leaves may be floating in units of 5 or 7. Any swing door should be hung separately to the jamb.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



HOW TO CHOOSE YOUR DOOR GEAR

COLLEGE CENTREFOLD

Read across to required doorleaf height, then read downwards.

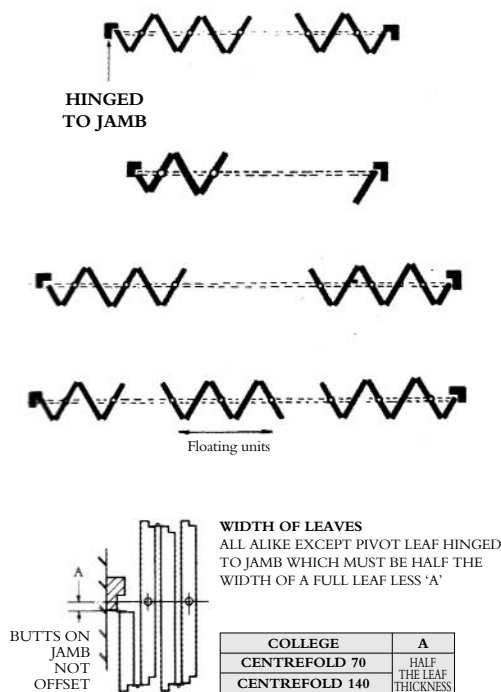
College Centrefold System No.	CENTREFOLD 70	CENTREFOLD 140
Maximum Folding Leaf Height	3600mm	5500mm
Maximum Folding Leaf Weight	70kg	140kg
Maximum Folding Leaf Width	1000mm	1000mm
Door Thickness	44mm	54mm
Top Guide Channel Equal to opening width Available lengths: 2, 2.5 & 3m	900	900
Brackets - Soffit fixed. Fix every 600mm max and at channel joints Fix extra bracket where doors stack	3/900	3/900
Top Guide Rollers 1 every 2 leaves	901/919H	901/919HD
Hinges 3 in height*	403/2	403/3
Bottom Rollers 1 every 2 leaves	920/923	909H
Bottom Rail - same length as Guide Channel Available lengths 1.5m & 3m	918	917
Flush Pull 1 every 2 leaves**	400	400
Flush Bolt 1 every 2 leaves**	454	454

* Increase to 4 when doors exceed 3000mm high.

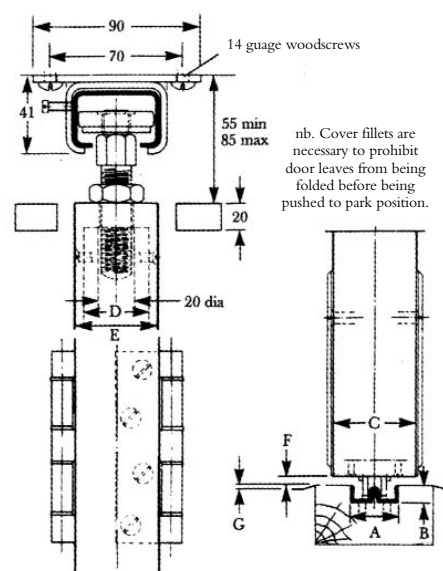
No more than 7½ leaves should be hinged to the jamb, or 7 leaves maximum for a floating unit

An access door can be independently hinged to a jamb, but a swing door should not be attached to a folding unit. ** Two on endleaves of units.

EXAMPLE PLAN DETAILS



SECTION DETAILS



SYSTEM	A	B	C	D	E	F	G
CENTREFOLD 70	25	10	44	34	44	5	2
CENTREFOLD 140	35	13	54	44	54	6	3

PC Henderson provide a full technical support service.

High quality bottom roller gear and fittings for end and centre folding aluminium section glazed for retail and display applications to a maximum leaf weight of 70kg.

COMPONENTS

Components supplied include: top guide brackets; top guide channel; top guide rollers; back flap hinges; bottom rollers; bottom rail; full range of accessories. Consult PC Henderson Technical Department or 'Expert' Service for guidance on quantities. (See table for maximum leaf width).

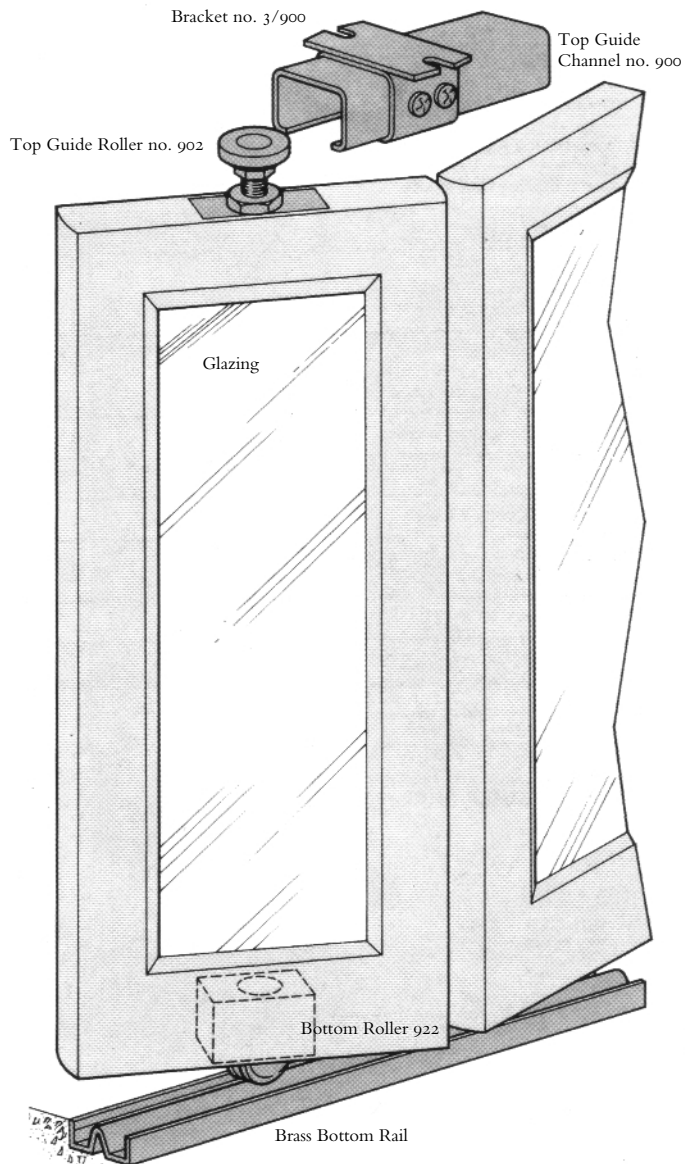
INSTALLATION NOTES

(also see drawing)

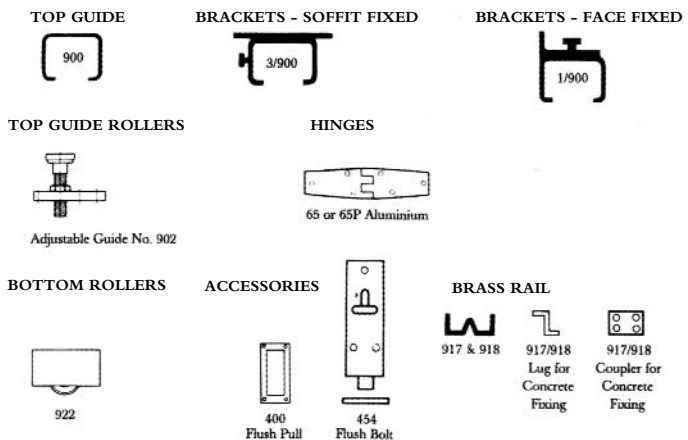
For doors constructed with standard aluminium section rails and stiles, with glazed panels.

For best endfold operation, not more than 8 leaves to be hinged to one jamb (see inset drawing for fixing detail), alternatively leaves may be floating in units of 6 or 8. Any access door should be hung separately to the jamb. For best centrefold operation, not more than 7½ leaves to be hinged to one jamb (see inset drawing for fixing detail), alternatively leaves may be floating in units of 5 or 7. Any access door should be hung separately to the jamb.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.



CHOICE OF GEARS



HOW TO CHOOSE YOUR DOOR GEAR

Read across to required doorleaf height, then read downwards.

Arcade System No.	ENFOLD A70	CENTREFOLD A70
Maximum Folding Leaf Height	3600mm	3600mm
Maximum Folding Leaf Weight	70kg	70kg
Maximum Folding Leaf Width	900mm	1000mm
Door Thickness	45-47mm	45-47mm
Top Guide Channel Equal to opening width Available lengths: 2, 2.5 & 3m	900	900
Brackets - Soffit fixed. Fix every 600mm max and at channel joints Fix extra bracket where doors stack	3/900	3/900
Top Guide Rollers 1 every 2 leaves	902	902
Hinges 3 in height*	65/65P	65/65P
Bottom Rollers 1 every 2 leaves	922	922
Bottom Rail - same length as Guide Channel Available lengths 1.5m & 3m	918	918
Flush Pull 1 every 2 leaves**	400	400
Flush Bolt 1 every 2 leaves**	454	454

* Increase to 4 when doors exceed 3000mm high.

Endfold: No more than 8 leaves should be hinged to the jamb. Centrefold: No more than 7 1/2 leaves should be hinged to the jamb, or 7 leaves maximum for a floating unit. An access door can be independently hinged to a jamb, but a swing door should not be attached to a folding unit. ** Two on endleaves of units.

EXAMPLE PLAN DETAILS

ENDFOLD

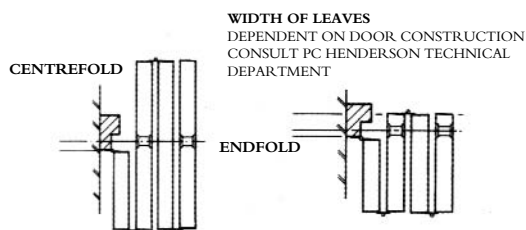


HINGED TO JAMB

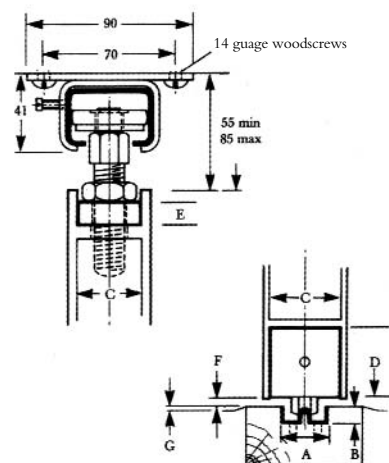
CENTREFOLD



HINGED TO JAMB



SECTION DETAILS



SYSTEM	A	B	C	D	E	F	G
END & CENTREFOLD	25	10	38	38	12	5	2

PC Henderson provide a full technical support service.

Quality, heavy duty cantilever gear for sliding metal gates suitable for industrial and commercial use - for security, traffic control and where road surface is uneven, eg railway lines. Cantilever gates leave the roadway free of channels, guide rails or other obstructions, using a track which fits to the bottom rail of the gate and runs on internal rollers for security and weather protection. Can also be used for heavy doors where no overhead support exists. Two systems are available to suit openings up to 10m wide and weights up to 550kg (power operated - power operation not by PC Henderson) or 1000kg (manually operated).

COMPONENTS

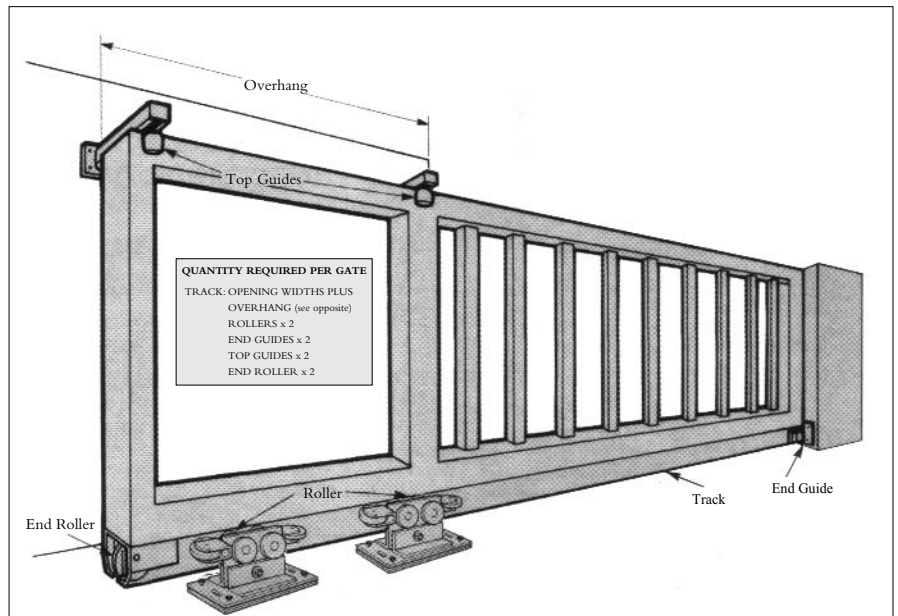
Components supplied per gate include: bottom rollers; top guides; end guides; end rollers; track - length determined by opening width plus overhang. (All steel parts are galvanised.) Table opposite indicates choice of gear dependent on gate weight, overhang and opening width.

INSTALLATION NOTES

(also see drawing)

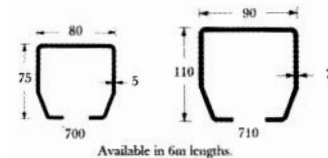
Gates should be constructed from welded square steel tubing. Enough space is required to slide gate completely clear of opening. Rollers should be mounted on substantial concrete footings, and spaced as widely as possible.

Typical installation detail drawings are also available from the Technical Department, PC Henderson.

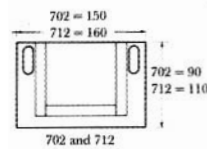


CHOICE OF GEARS

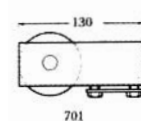
TRACKS



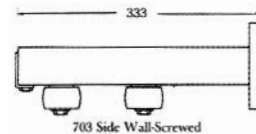
Available in 6m lengths.
END GUIDE (702 for track 700
712 for track 710)



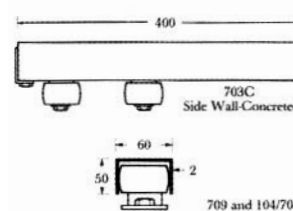
END ROLLER



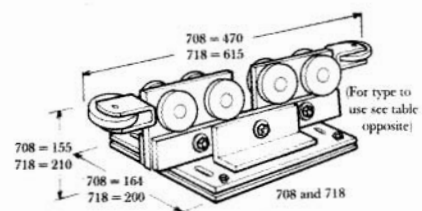
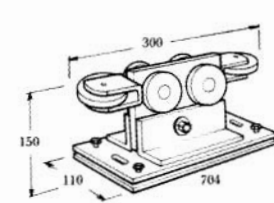
TOP GUIDES



ALTERNATIVE GUIDES



ROLLERS



Read across to required doorleaf height, then read downwards.

☒ 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

OPENING WIDTH (m)

Overhang length
in metres is
shown in the boxes

OPENING WIDTH (m)

Overhang length
in metres is
shown in the boxes

SECTION AND ELEVATION DETAILS

The technical drawings illustrate the roller assembly in section and elevation. The section view (top left) shows the roller assembly with labels: Adjuster Bolt, Lock Bolt, Expansion or rag bolts (not supplied), Roller no. 708, and Track no. 700. The elevation view (top right) shows the roller assembly with labels: 702, End Guide no. 702, End Guide Roller no. 701, and Top Guide Roller no. 703 (Side View). The side view (bottom right) shows the roller assembly with labels: Overhang Length, Top Guides, Rollers, Concrete Footing, End Guide no. 702, Track, End Roller no. 701, 800 Min., and 500 Min.

Note: Rollers should be set as far apart as possible but allow space for end roller no.701 (130mm) at both track ends.

All dimensions in mm

Steel frame sections supplied in kit form for on-site construction of economical, sturdy sliding doors clad with suitable metal or wood sheeting to choice (door cladding not supplied by PC Henderson). Designed for use with 301 track, hangers and brackets. Wall mounted guide system (VG1) ideal for farm doors or dirty industrial applications - no floor channel is needed. Conventional guide system (VG2) for use with bottom channel 97 also available. Suitable for doors up to 5m x 5m.

Versaframe kit supplied per door includes frame lengths and fittings. Order frame section length kits plus fittings kit according to door height and width as per table above, plus: 301 track to twice the width of proposed door; 2 x 56 AX/S or 56AX/N hangers; sufficient 1/301/S brackets for fixing at 900mm centres along track - (600mm centres for doors over 400kg.) (See pages 24 -27.)

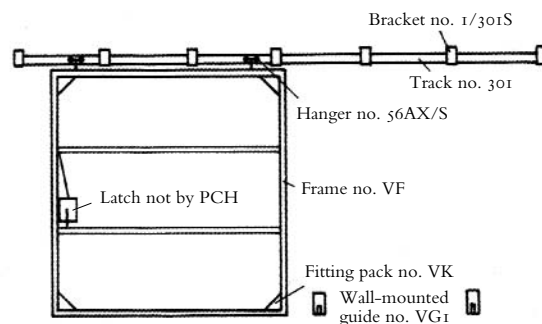
INSTALLATION NOTES

Door width should not exceed height. For smoothest operation, width of door should be 2/3 height. Typical installation detail drawings are available from the Technical Department, PC Henderson.

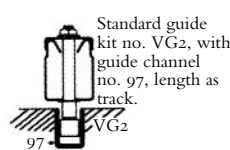
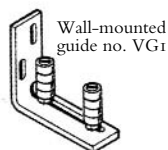
Door width	Door Height				Track length of 301/301H	Min no. of 1/301/S Brackets required
	2m	3m	4m	5m		
2m	5xVF2	4xVF2	5xVF2	6xVF2	4m	6
		2xVF3	2xVF4	2xVF5	6m	8
4m		6xVF3	5xVF3	6xVF3	8m	11
			2xVF4	2xVF5	10m	13
5m			7xVF4	6xVF4		
				2xVF5		
				8xVF5		

Versaframe hangers, guides & fittings

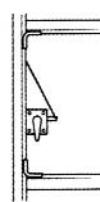
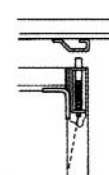
2m	3m	4m	5m	
VK2	Vk3	VK4	VK5	Fitting kit per door height
2	2	2	2	no.56 AX hangers per door
VG1	VG1	VG1	VG1	Guide kit - wall mounted
VG2	VG2	VG2	VG2	Guide kit - standard
(order channel 97 to same length as 301 track)				



Guides: 1 kit required per leaf.



Optional lock and latch kit no. VL1



301 FARM PACKS

SLIDING GEAR PACKS FOR TIMBER OR METAL DOORS

301 farm packs provide all components required for hanging a sliding timber or metal door weighing upto 400kg

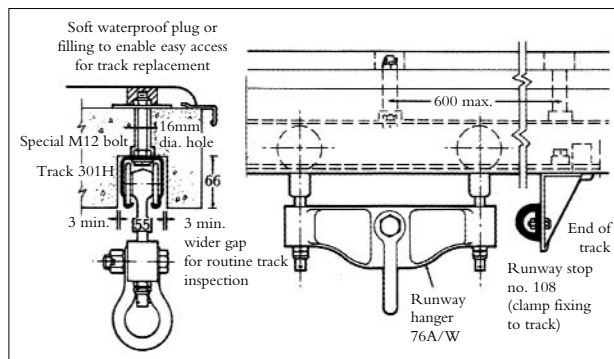
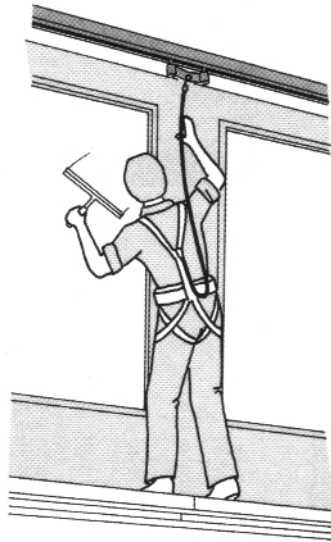
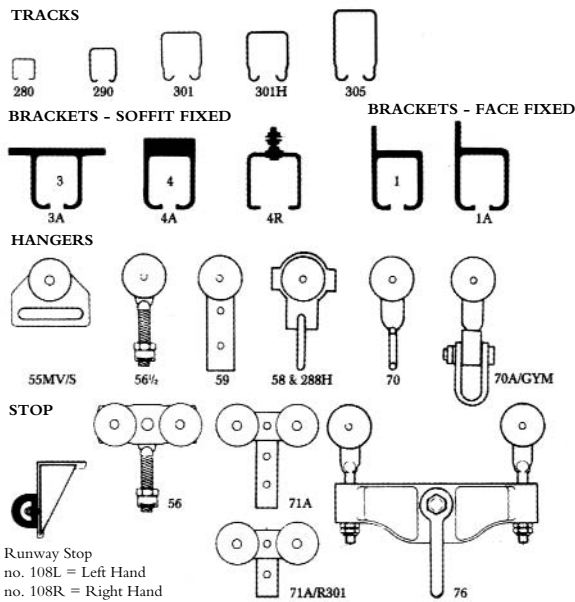
Sets contain 2 hangers no. 53A/5 (+ locking nuts for metal doors) track no. 301 (twice door width); face fixing brackets no. 1/301/S (for approx. 900mm centres); 2 bracket

end clips no. 1A/301/EC; 2 stay rollers no.126; 1 bow handle no. 863.

For Biparting doors, order two sets plus no. 128 shoe guide/centre stop.

Door widths up to	Kits
1800mm	FP6
2700mm	FP9
3600mm	FP12

CHOICE OF GEARS



The use of highly reliable, tracked sliding gear for personnel safety restraint on high-rise buildings and similar applications offers versatility, ease and speed in cleaning and maintenance.

Henderson sliding gear, tested to 136kg in accordance with BS 1397:1979, is an ideal way to achieve safety with a high degree of functionality. The gear is recommended to be incorporated into the design of the building, or other structure, cf. the typical details for window cleaning, below.

All systems should be discussed with PC Henderson Technical Department.

For window cleaning safety restraints, specially prepunched track is let into a purpose-cast recess in the overhead concrete slab, and secured with purpose-designed bolt assemblies (see drawing). Straight track only may be used.

This assembly has been drop tested to 136kg through 1.83m generally in accordance with BS 1397:1979, and with the approved Safety Harness to BS 1397:1979 (not from PCH).

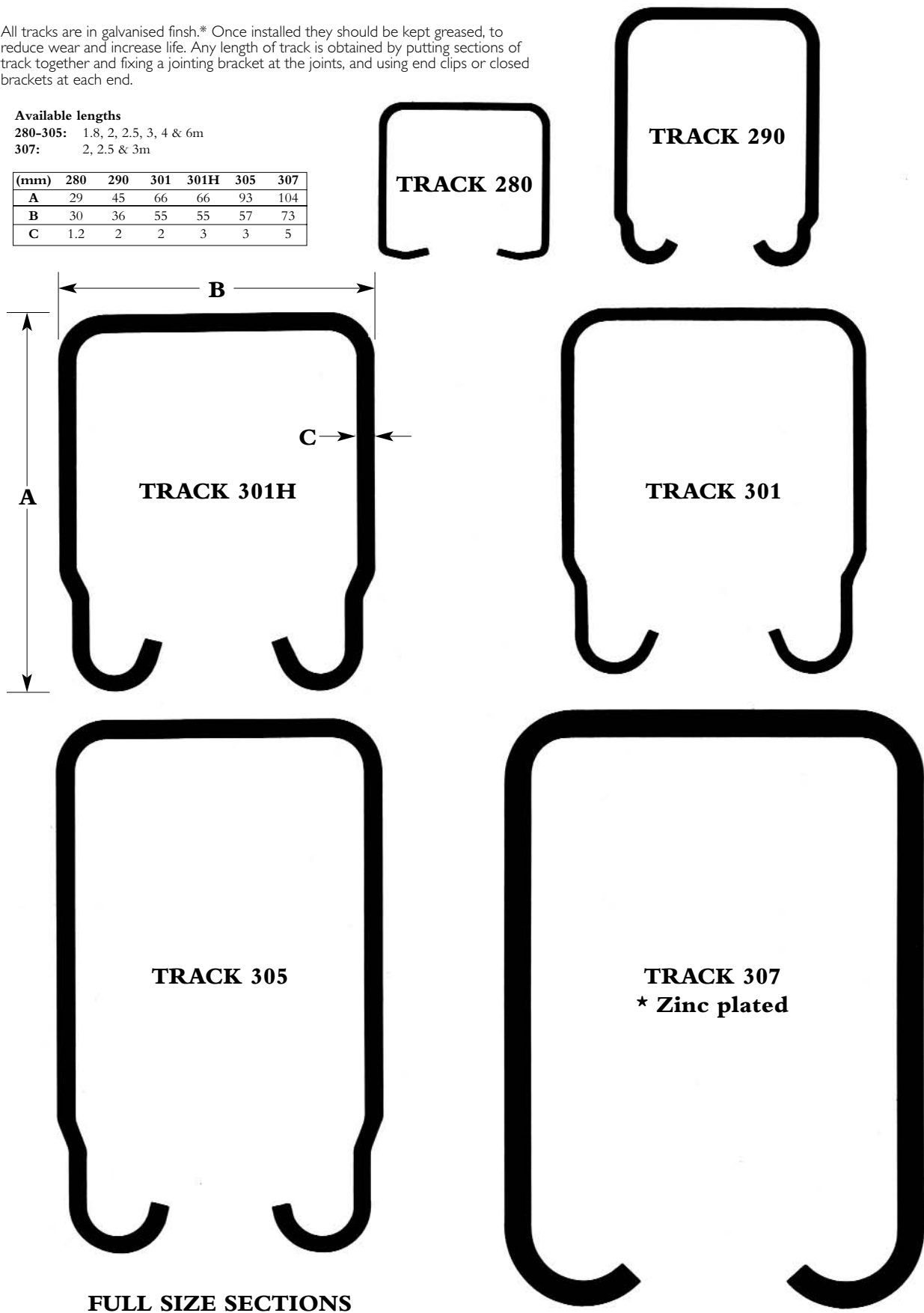
For more information ask for our Window Cleaning Gear data sheet.

For details on loading and other safety-in-use features, please consult PC Henderson Technical Department.

All tracks are in galvanised finish.* Once installed they should be kept greased, to reduce wear and increase life. Any length of track is obtained by putting sections of track together and fixing a jointing bracket at the joints, and using end clips or closed brackets at each end.

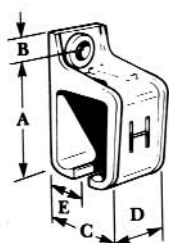
Available lengths
280-305: 1.8, 2, 2.5, 3, 4 & 6m
307: 2, 2.5 & 3m

(mm)	280	290	301	301H	305	307
A	29	45	66	66	93	104
B	30	36	55	55	57	73
C	1.2	2	2	3	3	5



All brackets are aluminium alloy die castings except where indicated with a suffix/S (eg 1/301/S) which are zinc plated steel. Fit closed brackets with end-clip at track ends. Joining brackets are required at each track joint. Maximum bracket spacing is every 900mm.

BRACKETS - FACE FIXED



No. 1 or 1A

Cat No.	A	B	C	D	E	Bolt
1A/290	67	13	52	32	27	M8
1A/290/S	75	13	55	60	27	M8
1A/301	97	19	73	57	35	M12
1/301/S	95	16	69	60	37	M12
1A/305	140	25	85	76	38	M16
1/307/S	159	24	91	75	45	M16



Bracket End Clips, 1A/290 EC and 1A/301 EC. For converting brackets No.s 1, 1A, 3A, 4A, 5, 5AA & 6/301 to closed brackets in the 290, 301 & 301H formats

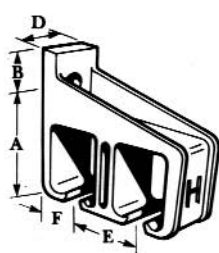


1/301/S steel bracket is fully compatible with previous design and also accepts the 1A/301 EC End Clips.



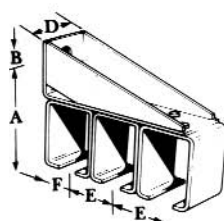
No. 9 or 9A

Cat No.	A	B	C	D	E	Bolt
9A/290	43	16	70	24	51	1/4G Screw
9A/301	65	12	125	38	89	1/4G Screw
9A/305	84	38	160	59	130	M12
9/307/S	84	50	184	69	140	M16



No. 5

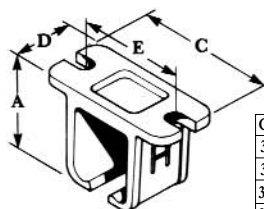
Cat No.	A	B	D	E	F	Bolt
5/290	80	20	38	54	27	M12
5/301	110	33	57	79	39	M16
5/305	155	38	75	92	48	M20
5/307/S	192	26	102	91	45	M20



No. 7

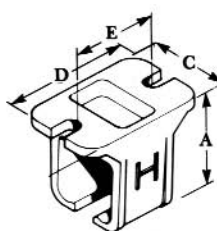
Cat No.	A	B	D	E	F	Bolt
7/301/S	116	38	60	66	40	M16

BRACKETS - SOFFIT FIXED



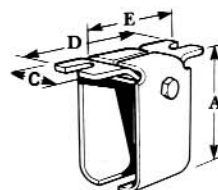
No. 3 or 3A

Cat No.	A	B	C	D	E	Bolt
3A/290	56	-	83	32	64	M8
3A/301	86	-	130	57	100	M12
3/301/S	88	-	130	57	97	M12
3A/305	121	-	168	75	125	M16
3/307/S	158	-	184	90	140	M16



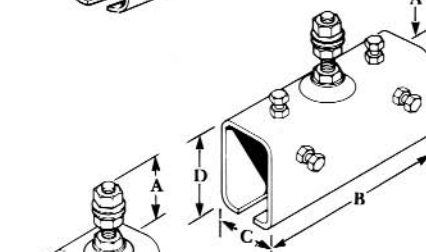
No. 4 or 4A

Cat No.	A	B	C	D	E	Bolt
4A/290	67	-	48	75	60	M8
4A/301	95	-	75	117	95	M12
4A/305	137	-	83	190	130	M16
4/307/S	158	-	91	84	140	M16



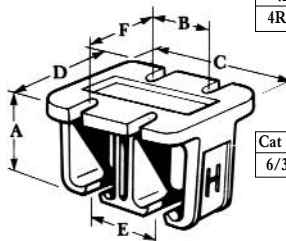
No. 4/301/S

Cat No.	A	B	C	D	E	Bolt
4/301/S	94	-	45	117	95	M12



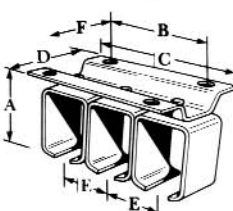
No. 4R

Cat No.	A	B	C	D	Bolt
4R/280/S	46	50	35	35	M10
4R/290/S	46	30	44	53	M10
4R/301/S	65	57	65	78	M12
4R/305/S	68	75	71	107	5/8 Whit
4R/307/S	72	75	91	134	M20
4RX/301TS	70	145	64	70	M12



No. 6

Cat No.	A	B & E	C	D	F	Bolt
6/301	95	79	152	127	92	M10



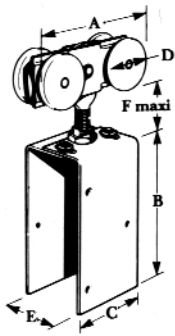
No. 8

Cat No.	A	B	C	D	E	F	Bolt
8/301/S	98	127	178	118	66	92	M12

/N = Nylon Wheels /S = Steel Wheels

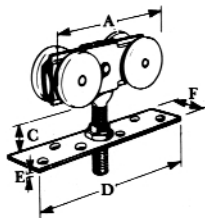
Nylon wheels are quieter and avoid the need to grease track to reduce wear. Hence their carrying capacity is greater. For automatic doors halve the carrying capacity and use nylon wheels if possible.

N.B. Door weight capacities are for a pair of hangers.



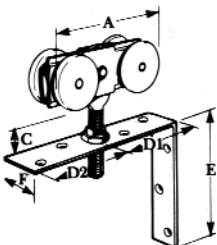
No.53 WOOD DOORS

Track No.	Hanger No.	Dimensions						Door weight Capacity
		A	B	C	D	E	F	
290	53K/N	87	95	57	37	35-48	30	150Kg
	53K/S							150Kg
	53K/S 200							200Kg
301	53A/S	142	178	76	56	43-57	70	300Kg
	53A/N							400Kg
301H	53A/S	142	178	76	56	43-57	71	360Kg
	53A/N							450Kg
305	53C/S	161	178	76	75	43-57	71	700Kg
307	53FJ/S	215	390	65	88	60	94	2000Kg



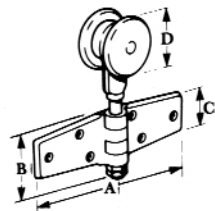
No.57 WOOD DOORS

Track No.	Hanger No.	Dimensions						Door weight Capacity
		A	C	D	E	F		
290	57K/N	87	31	140	5	25		150Kg
	57K/S 200							200Kg
301	57A/S	142	57	184	6	38		300Kg
301H	57A/N	142	57	184	6	38		450Kg
305	57C/S	161	61	184	6	38		700Kg



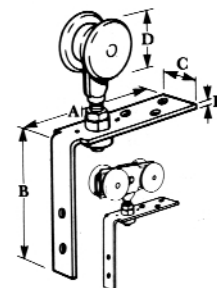
No.52 WOOD DOORS

Track No.	Hanger No.	Dimensions						Door weight Capacity
		A	C	D1	D2	E	F	
290	52K/N	87	31	77	51	134	25	150Kg
	52K/S							150Kg
	52K/S 200							200Kg
301	52A/S	142	57	102	127	165	38	300Kg
301H	52A/N	142	57	102	127	165	38	450Kg
305	52C/S	161	61	102	127	165	38	700Kg



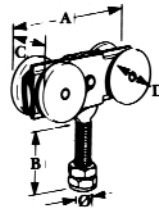
No.62 FOLDING DOORS

Track No.	Hanger No.	Dimensions			
		A	B	C	D
290	62K	180	77	45	37
301	62A	180	77	45	56
301H					
305	62C	540	104	51	75



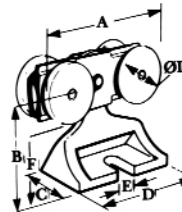
No.21 FOLDING DOORS

Track No.	Hanger No.	Dimensions				
		A	B	C	D	E
290	21K/S	153	153	25	37	5
	21K/N					
	21K/4N					
301	21A/S	178	153	38	56	6
301H	21A/4S					
305	21C/S	178	153	38	56	6



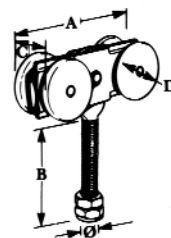
No.56 METAL DOORS

Track No.	Hanger No.	Dimensions					Door weight Capacity
		A	B	C	D	ø	
290	56K/N	87	32	27	37	10	150Kg
	56K/S						150Kg
	56K/S 200						200Kg
301	56A/S	142	70	42	56	16	300Kg
	56A/N						400Kg
301H	56A/S	142	70	42	56	16	360Kg
	56A/N						450Kg
305	56C/S	161	70	42	75	16	700Kg
307	56FJ/S	215	86	55	88	20	2000Kg



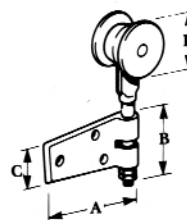
No.56F FIRE DOORS

Track No.	Hanger No.	Dimensions							Door weight Capacity
		A	B	C	D	øD	E	F	
301	56AF/S	142	81	45	83	56	17	53	300Kg
301H	56AF/S	142	81	45	83	56	17	53	360Kg
305	56CF/S	161	89	45	83	75	17	51	700Kg



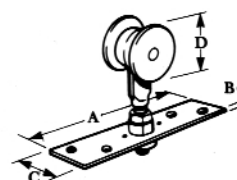
No.56X METAL DOORS

Track No.	Hanger No.	Dimensions					Door weight Capacity
		A	B	C	D	ø	
290	56KX/N	87	110	27	37	10	150Kg
	56KX/S						200Kg
301	56AX/S	142	146	42	56	16	300Kg
	56AX/N						400Kg
301H	56AX/S	142	146	42	56	16	360Kg
	56AX/N						450Kg
305	56CX/S	161	146	42	75	16	700Kg
307	56FJX/S	215	140	55	88	20	2000Kg



No.63 FOLDING DOORS

Track No.	Hanger No.	Dimensions			
		A	B	C	D
290	63K	90	77	45	37
301	63A	90	77	45	56
301H					
305	63C	203	104	51	75



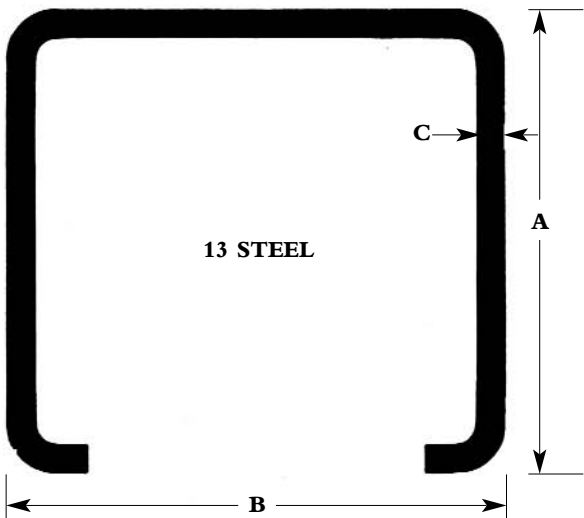
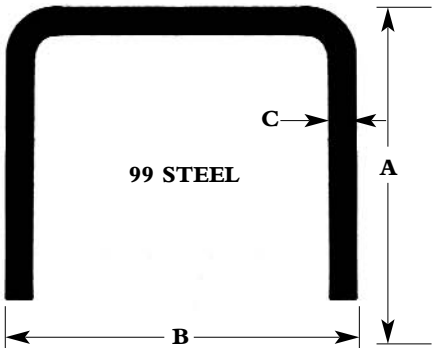
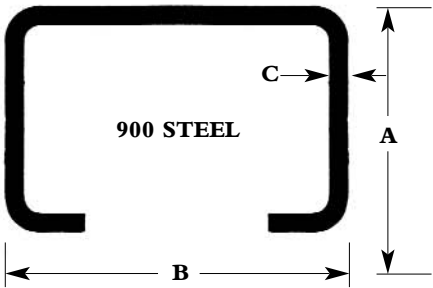
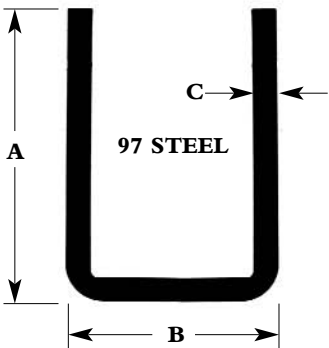
No.61 FOLDING DOORS

Track No.	Hanger No.	Dimensions			
		A	B	C	D
290	61K/S	140	5	25	37
301	61A/S	184	6	38	56
301H					
305	61C/S	184	6	38	75

All dimensions in mm

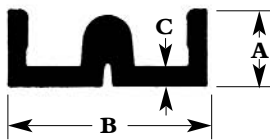
GUIDE
CHANNELS

(mm)	89	94	97	100	900	99	13	917	918	297	298	299
A	25	20	38	27	29	38	60	13	10	65	51	51
B	24	21	27	27	45	46	65	35	25	55	51	32
C	3	1.5	3	3	2	3	3	2	2	7	4	3

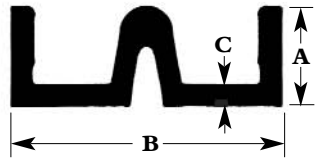


For bracket specifications see Technical Data Sheets
FULL SIZE SECTIONS

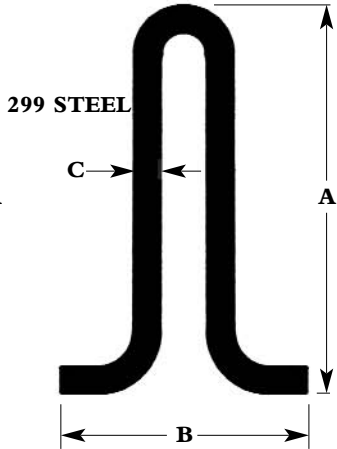
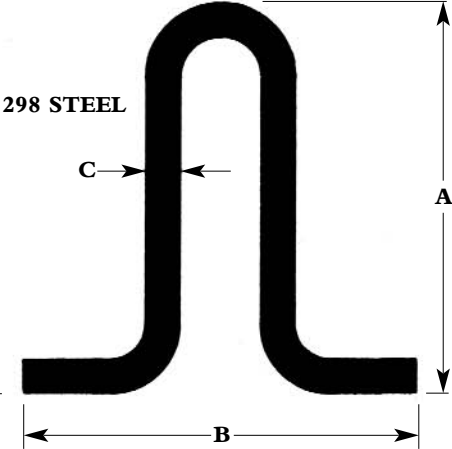
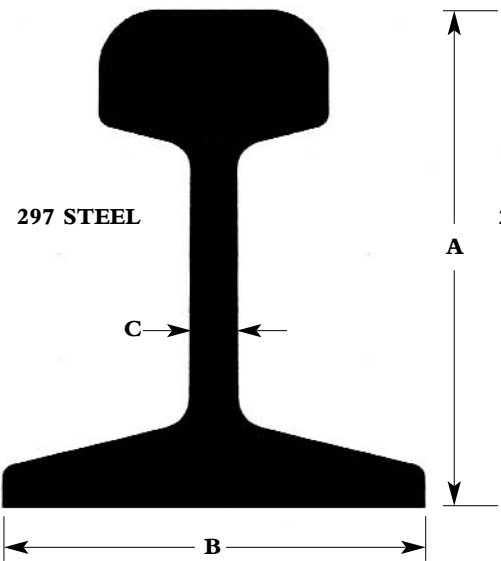
918 BRASS



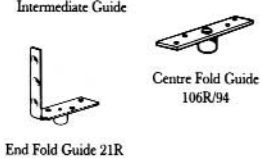
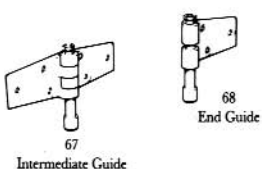
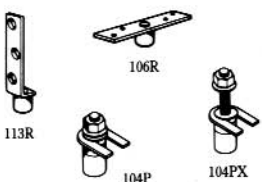
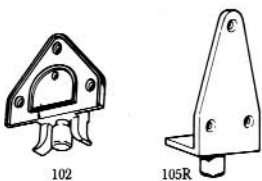
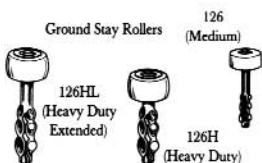
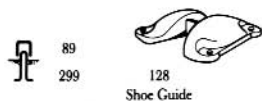
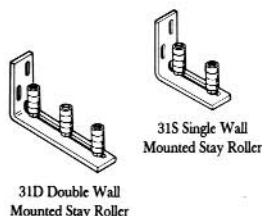
917 BRASS



FLOOR RAILS



GUIDES



No. 31S Single Wall Mounted Stay Roller (Biparting doors) - Provides clear threshold - fit No. 128 shoe guide with centre stop. Nylon Rollers, galv. steel angle.

No. 31D Double Wall Mounted Stay Roller (Double line) - Provides clear threshold - Nylon Rollers, galv. steel angle.

No. 126HD/A Ground Stay Roller - Provides clear threshold - Rollers covered by shields to prevent traffic damage. galv. steel angle.

No. 112 Stop Guide - Binds door to frame in closed position. Slotted for padlock and hasp.

No. 128 Shoe Guide with Centre Stop - Zinc plated iron, adjustable, centre stop plate provided, for biparting doors.

No. 299 Curtailed Rail with Inverted No.89 Channel to underside of doors - Provides clear threshold - fit No.128 shoe guide with centre stop on biparting doors.

No. 126 Ground Stay Roller - Provides clear threshold - fit No.128 shoe guide with centre stop on biparting doors. Galv. Steel

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

No. 102 Side Guide Roller - Heavy duty plough guide, ideal for most applications. Malleable body with self adjusting roller spindle. Use with channels No.s 97 or 100.

No. 105R Roller Guide - General purpose guide suitable for most applications. Is economical yet very strong. Use with channels No.s 89, 97 or 100.

No. 106R Roller Guide - Galvanised steel plate with a brass roller. Ideal for small, light doors especially internal applications. Not recommended for dirty conditions. Use with channels No.s 89, 97 or 100.

No. 113R Slide Guide Roller - Galvanised steel plate with a brass roller. Not recommended for heavy doors or dirty conditions. Use with channels No.s 89 or 94.

No. 104P Under Guide Roller - Brass roller used for metal doors. Easily removable without dismantling doors. Use with channels No.s 89, 97 or 100.

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

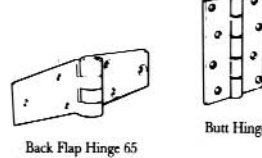
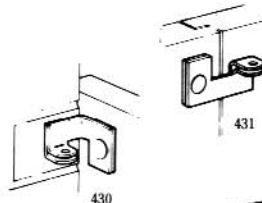
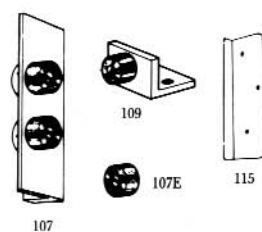
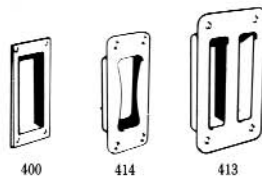
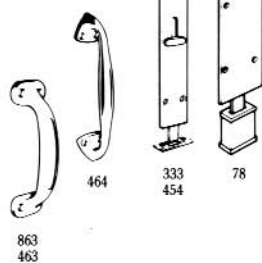
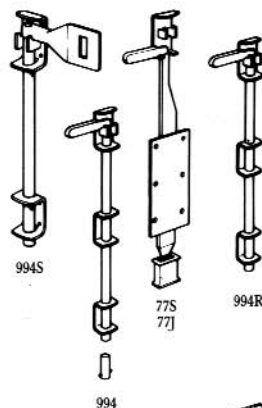
No. 67 Intermediate Guide - Round-the-Corner and Folding Doors.
No. 67/89 for track 290 and channel 89.
No. 67/97 for track 301 or 301H and channel 97.
No. 67C/97 for track 305 and channel 97.

No. 68 End Guide - Round-the-Corner and Folding Doors.
No. 68/89 for track 290 and channel 89.
No. 68/97 for track 301 or 301H and channel 97.
No. 68C/97 for track 305 and channel 97.

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

No. 106R Centre Fold Guide - Folding Doors.
No. 106R/94 for all tracks.

DOOR FURNITURE



No. 994 Bolt - Electro galvanised steel shoot and guides with socket for concrete, when required.

No. 994X Offset Bolt - Zinc galvanised steel shoot and guides with socket for concrete.

No. 994R Roller Guide Bolt - Electro galvanised steel shoot and guides with brass roller. Use with channel No.s 89 or 97.

No. 994S locking Bolt - Electro galvanised steel shoot and guides with socket for concrete. Use with Padlock (Not by PCH).

No. 77 Flush Bolt - No.77J suitable for framed doors with bottom rails up to 152x48. Zinc plated steel. No.77S suitable for framed doors with bottom rails up to 236x70. Zinc plated steel.

No. 78 Flush Bolt - Designed for fitting to stile of flush doors minimum 127x45. Zinc plated steel.

No. 333 Semi Flush Bolt - 152x35 Aluminium alloy in satin anodised finish.

No. 454 Semi Flush Bolt - 190x41 Aluminium alloy in satin anodised finish.

No. 863 Bow Handle - Zinc plated cast iron. 133x43

No. 463 Bow Handle - Zinc plated cast iron. 159x46

No. 464 Bow Handle - Zinc plated cast iron. 261x62

No. 400 Flush Pull - Aluminium alloy in satin anodised finish 108x48 with 17 mortise.

No. 414 Flush Pull - Aluminium self finish 133x60 with 20 mortise.

Flush Pull No.401P - White polypropylene 90x38mm with 13mm mortise.

No. 413 Flush Pull - Heavy duty Zinc plated cast iron 152x95 with 26 mortise.

Flush Pull No.26P - White polypropylene n.b. Drill 31mm hole.

No.115 Corner Protection Plates - Rustproofed by electronzinc plating - Fit a pair on the leading door edge where door meets door stop.

No.109 Single Wall or Ground Stop - Zinc plated steel with rubber buffer. For light doors. Fit on wall, 2/3 up door height.

No.103 Single Floor Stop - Satin anodised aluminium with rubber buffer. For heavier domestic internal doors.

No.110N Door Stop - White nylon complete with rubber buffer. For light interior doors. (Wall or floor fixed.)

No.28P/1 Door Stop - White nylon for light cupboard and wardrobe doors.

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

No.107 Double Wall Stop - Zinc plated steel with rubber buffers. For medium weight doors, fit one on wall, 2/3 up door height. For heavier door fit 2.

No.431 Swivel Locking Bar - Rustproofed by Zinc plating. For meeting 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. Zinc plated.

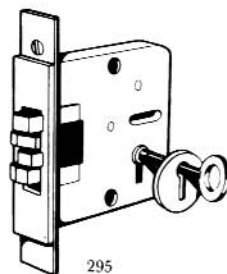
No.403 Butt Hinge - No.403/1 89x50 aluminium alloy.
No.403/2 100x55 aluminium alloy.
No.403/3 100x75 aluminium alloy.

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



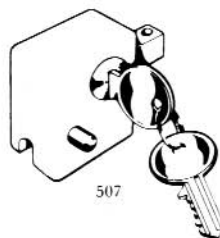
Rim Cylinder Lock No. 444

Five pin tumbler action with long body (keyhole 60mm from jamb) enables door to overlap jamb by 25/38mm. Keyhole plate in B.M.A. finish. Supplied with two keys. To differ only.



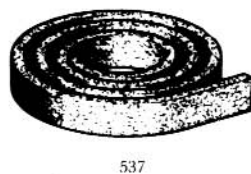
Sliding Door Mortise Dead Lock No. 295

For light interior sliding doors. Claw action with brass striker plate and claws in unrebated from only - supplied with two keys. suits minimum stile 102x35mm



'Zenith' Cylinder Lock No. 507 - C.P.

Fitted to 'zenith' glass rail panels. Shoot enters second bottom rail of double passing doors. 2 keys. handed: state hand. Left-hand illustrated



Sponge Neoprene Sealing Strip No. 537

22x6mm available in any length - supplied in rolls.

commercial sliding gear

introduction to commercial sliding gear

straight sliding

folding

multidirectional

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commercial sliding gear

Henderson commercial gear is suitable for doors

weighing up to 500kg.

It is ideal for applications such as shop fronts, hotels, conference centres and offices, where smooth action, high performance and aesthetics are important.

There are three models in the range - Husky Glass, Pacer and Flexirol. Between them they provide options for timber, aluminium and glass doors.

Henderson commercial gear offers three modes of operation, straight sliding, folding and multidirectional stacking systems.



All commercial gear systems use aluminium track which can be painted to match interior colours and ceilings. Husky Glass and Pacer track also have the option of clip-on aluminium fascia.



For full technical information on commercial systems please refer to the Commercial Sliding Door Hardware brochure.

STRAIGHT SLIDING

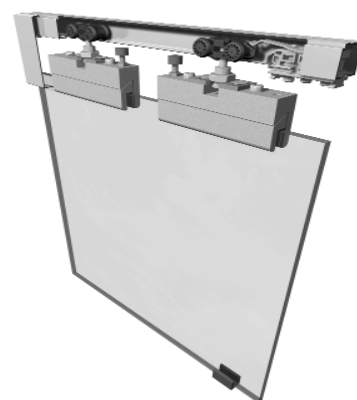


HUSKY GLASS straight sliding

8mm and 10mm glass panels up to 75kg in weight.

APPLICATIONS

Lightweight glass applications such as office doors and small glass partitions.



PACER straight sliding

8mm, 10mm and 12mm glass panels up to 130kg in weight.

Timber and Metal doors up to 200kg in weight.

APPLICATIONS

Accommodates both sliding and fixed door panels, making it ideal for interior dividers in offices and shops as well as modern buildings and complexes. Metal doors can be of angle or box section.



FLEXIROL straight sliding

Glass, Timber and Metal doors up to 500kg in weight.

APPLICATIONS

Flexirol is ideally suited to hotels, conference centres, shop fronts, showrooms or any site that requires high performance and attractive finish.



For full technical information on commercial systems please refer to the Commercial Sliding Door Hardware brochure.



commercial sliding gear

FOLDING

PACER folding

Interior timber doors up to 75kg in weight. Available in centrefold and endfold configurations. Also available for exterior applications using endfold timber, glass or aluminium doors up to 65kg in weight.

APPLICATIONS

Residential and Commercial centrefolding (interior only) and endfold doors. Pacer endfold for glass doors accommodates 8mm or 10mm thick tempered glass panels. Ideal for shopfronts and room dividers where space is limited.

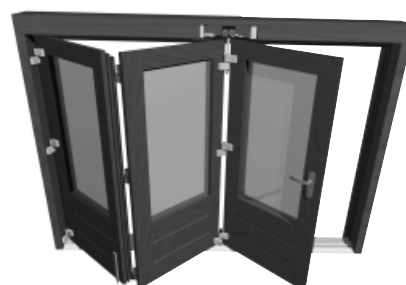
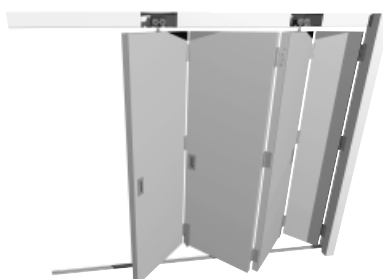


FLEXIROL folding

Interior timber doors up to 125kg in weight. Available in centrefold and endfold configurations. Also available for exterior applications using endfold, timber, glass or aluminium doors up to 125kg in weight.

APPLICATIONS

Heavy commercial centrefolding (interior only) and endfolding doors. Flexirol folding glass profiles accommodate 10mm or 12mm thick tempered or laminated glass panels. Ideal for shopfronts and room dividers using heavy or large folding doors.

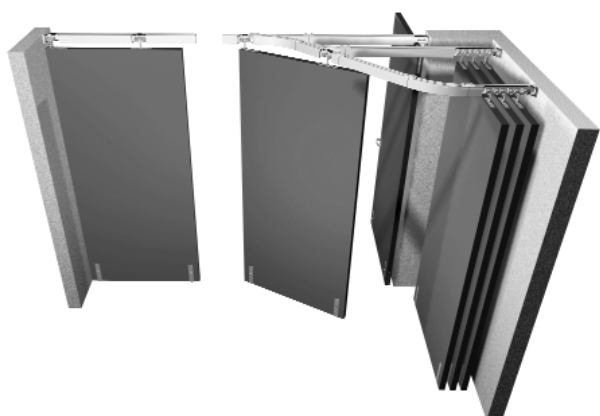


For full technical information on commercial systems please refer to the Commercial Sliding Door Hardware brochure.

MULTIDIRECTIONAL

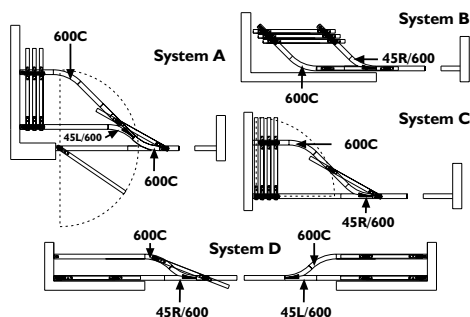
APPLICATIONS

The multidirectional range of systems are ideal for shopfronts, internal partitions, moveable walls, conference rooms and any situation requiring the flexibility of a stacking system.



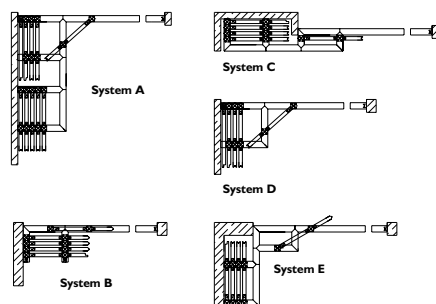
PACER multidirectional

Timber, aluminium and glass doors up to 120kg. Glass panels can be 10mm or 12mm thick tempered or laminated glass. Doors move through a 135° switch to allow the doors to be stacked clear of the opening.



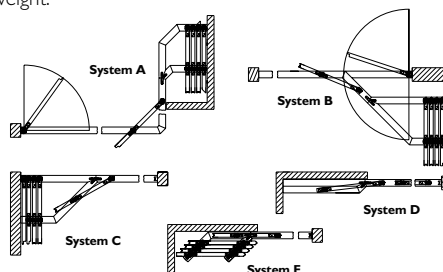
FLEXIROL 90° multidirectional

Flexirol 90° multidirectional systems carry timber, aluminium or glass doors up to 100kg in weight.



FLEXIROL 135° multidirectional

Flexirol 135° multidirectional systems carry timber, aluminium or glass doors up to 500kg in weight.



For full technical information on commercial systems please refer to the Commercial Sliding Door Hardware brochure.

NOTES

SLIDING GEAR WORLDWIDE



● Shows countries where agents are located

Sliding gear from PC Henderson for doors and other applications is known and respected all over the world.

We are represented by agents in countries throughout the Near, Middle and Far East; Africa; Australasia and the Pacific; North, Central, South America and the West Indies; Western and Eastern Europe, India and Asia.

Please contact our Export department on

Telephone: +44(0) 191 377 0701

Facsimile: +44(0) 191 377 0755

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how to obtain your Henderson
sliding and folding door hardware

We reserve the right to introduce improvements to design and changes to specification. This is not a controlled document.

For more information on the comprehensive range of Henderson Sliding and Folding door hardware, or to find details of your local Henderson stockist - wherever you may be in the world - contact us on the numbers below:

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e-mail: international@pchenderson.com



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