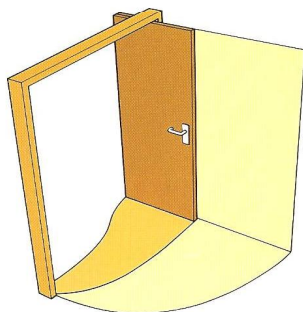


MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

A space saving idea

Doors are usually considered to be the means of providing access to segregated areas, and it is surprising how much space they take up due to the area which must be kept clear to allow for their opening swing. In hospitals, nursing homes or busy office environment with many interlinking rooms, doors can account for a considerable and costly waste of space.



The reduced swing door concept

By the installation of NT Reduced Swing Doorsets much of the space wasted by conventional doors can be saved.

The doorset has a two panel articulated door which folds with a concertina type action, in the ratio of $\frac{2}{3}$ to $\frac{1}{3}$ following an elliptical curve, thus reducing the swing area to approximately $\frac{1}{3}$ that of a conventional door of the same width.

A helping hand for elderly and disabled people

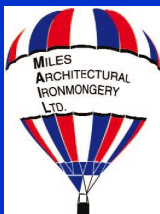
NT Reduced Swing doors are easier to open and close than conventional doors and are ideal for use by physically disabled people and wheelchair traffic.



New fire door saves space and gives improved levels of fire safety and convenience

The NT Reduced Swing fire doorset has a 'Briton' closer which is provided with an electro-magnetically operated free-swing facility. This fire tested doorset has 3 major advantages;

- (1) It removes the need to resort to the life endangering and illegal practice of propping or wedging open self closing fire doors, to give easy access.
- (2) The doors are easy to use by disabled people, in particular wheelchair users. The closer allows the door to swing freely offering minimal opening resistance under normal conditions, but as it is interfaced to a fire detector/alarm system it closes the door automatically in an emergency alarm situation, to resist the spread of smoke and fire.
- (3) This doorset can be installed in confined areas where previously fire doors could not be accommodated.



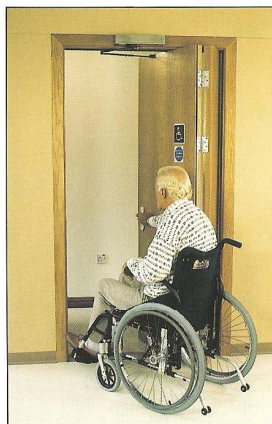
MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

The range

NT Reduced Swing Fire Doorset

This single action fire tested doorset is supplied together with a 'Briton' door closer which has an electro-magnetically controlled 'free-swing' facility. It is interfaced with a fire-detector/alarm system to give automatic closure of the door in case of fire or emergency. In addition to saving space the free-swinging doors are easy to use by disabled people and wheelchair users.



NT Reduced Swing Doorset

A simple single action doorset designed to save space and provide ease of use by disabled persons.

Ideal for general **non** fire door situations and house adaptations for people with physical disabilities.



NT Double Action Reduced Swing Doorset

A unique double action doorset with a patented mechanism which has been designed to provide optimum ease of use for people in wheelchairs. It allows 'push or pull action' from either side of door to offer the least resistance. Ideal for general **non** fire situations and house adaptations for people with physical disabilities.





MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

NT Reduced Swing Fire Doorset



Features

- SINGLE ACTION BI-FOLDING DOOR DESIGNED FOR DISABLED PEOPLE AND WHEELCHAIR USERS
- IMPROVES FIRE SAFETY
- FIRE TESTED TO BS476: PART 22: FOR FD 30 PERFORMANCE

- SUPPLIED COMPLETE WITH A BRITON ELECTRO-MAGNETIC FREE SWING DOOR CLOSER
- SAVES SPACE; DOOR REQUIRES APPROXIMATELY 1/3 OF THE SWING AREA USED BY A CONVENTIONAL DOOR

- WIDE RANGE OF FINISHES/OPTIONS TO SUIT SURROUNDING ENVIRONMENT
- HEAVY DUTY LIPPED DOOR LEAVES AS STANDARD

Description

A fire tested doorset, for internal situations. It is purpose designed for use by disabled people. The unit includes a Briton electro-magnetically controlled free swing door closer which allows unrestricted access for people in wheelchairs. The door closer is normally interfaced with a fire detector/ alarm system. On operation of the alarm, the closer arms are released by the electro-magnetic mechanism, and the free swinging door is closed from whatever open position it may be in at the time. To reset the mechanism, with detector alarm system in the normal passive state, the door is opened to its maximum angle, at which point the mechanism of the door closer will again retain the arms and leave the doors to swing freely.

This is a 'fail safe' unit which will also close the doors if there is a power failure or any other interruption of the electro-magnetic power supply.

The doorset utilizes wall and floor space to its full extent and is an excellent solution for confined areas, and other situations listed in The Building Regulations 1991 approved document M; Access for disabled people.

The 2 panel articulated door which folds in the ratio 2/3 to 1/3 following an elliptical curve reduces the swing area to approximately 1/3 that of a conventional door of the same width.

Construction

The factory assembled doorset consists of door and frame with operating hardware fitted, excluding the closer unit which is supplied separate. Closer fixing holes are pre-drilled. The door is hung on a top and bottom pivot and the action is guided by a roller within the track in the head of the door frame which holds the pivot for the second hinged panel. Intumescent strips are incorporated into the track and around the door panels for fire safety. Door leaves are heavy duty lipped construction.

Finishes

Frame, architraves and door leaves are offered; primed for painting, or factory pre-finished in a choice of Oak, Ash or Mahogany. Alternatively door leaves can be provided finished in a range of plastic laminate or to other customer specified appearance.

Dimensions

Units are available in standard clear passage widths, 800mm and 900mm, and clear passage height, 2023mm.

Note: Free passage widths do not allow for projection of door furniture. Detailed dimensions are given in the separate data sheet at the back of this brochure.

Accessories

Accessories include optional architraves and extension linings. A choice of locks, latches and handles is available from the extensive Newman Tons range. Other accessories include vision panels, kicking plates, and finger plates.

BRITON 990 CONTROL UNIT AND SMOKE DETECTORS.

This is an automatic smoke detection and control device designed for use with Briton door closers which have electro-magnetically released free swing/hold function.

The 990 is ideal for use in areas that are not covered by an existing Fire detector/alarm system, or where independent zone control is required.

The control unit is designed in accordance with the relevant parts of BS3116: Part 4 and BS5839: Part 1. 1981.

The standard pack is supplied with two optical smoke detectors designed to meet the requirements of BS5446: Part 1.

Full information is given on the Briton 990 in the Briton fire and smoke door control brochure.

Performance

This Fire doorset conforms to BS476: Part 22: for FD 30.

Applications

Handing

This Fire doorset is not self handing. Hand must be stated when ordering. See handing guide on page 8.

Electrical Requirements

24v D.C. 100mA nominal.

Supply and Sitework

The unit is supplied as a complete kit, assembled for site installation by others. Full fixing instructions are provided. An installation service is available.

Technical Services

We have technical consultants covering all areas throughout the UK.

Information required when ordering

See the separate data sheets at the back of this brochure.

Maintenance

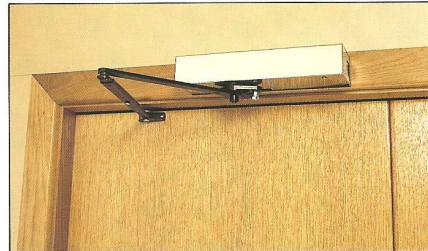
Unit to be tested weekly in accordance with the Fire Precautions Act 1971. Fire Certificate Schedule 2, based on recommendations contained in Home Office Circular 29-1973. Normal routine maintenance required, keep clean and free from dust and dirt. All internal working parts of the door closer are completely immersed in oil to ensure long working life of closer. Check quarterly to ensure correct setting of door closing and latching speeds and that fixing screws are tight. A small quantity of light machine oil applied to the arm knuckle joint and to the door hinges will assist optimum performance.

A national maintenance service is available from NT ACCESS, Oxleasow Road, East Moons Moat, Redditch, Worcestershire E98 0RE. Telephone: 0527 514000.



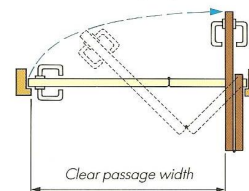
MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

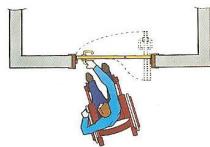


'Briton' electro-magnetic free swing door closer with a special arm adaptation.

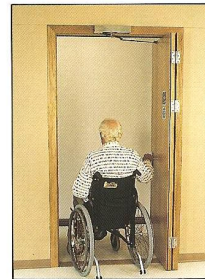
Doorset has bi-folding single action.



Units are available in standard clear passage widths.



Entering Room



Exiting Room



MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

NT Reduced Swing Doorset



Features

- SINGLE ACTION BI-FOLDING DOOR IS ECONOMICAL AND PRACTICAL TO INSTALL
- SAVES SPACE, DOOR REQUIRES $\frac{1}{3}$ APPROXIMATELY OF THE SWING AREA USED BY A CONVENTIONAL DOOR
- IDEAL FOR WHEELCHAIR USERS
- WIDE RANGE OF SIZES AND FINISH TO SUIT SURROUNDING ENVIRONMENT
- HEAVY DUTY LIPPED DOOR LEAVES AS STANDARD

Description

This economical doorset is ideal for use by disabled persons and wheelchair users. The unit utilizes wall and floor space to its full extent and is an excellent solution for confined areas, and other situations listed in The Building Regulations 1991, approved document M; Access for disabled people.

The doorset comprises of a single action 2 panel articulated door which folds in the ratio $\frac{1}{3}$ to $\frac{1}{3}$ following an elliptical curve reducing the swing area to approximately $\frac{1}{3}$ that of a conventional door of the same width, door frame and architraves.

Construction

The factory assembled doorset consists of doors and frame with operating hardware fitted. The door is hung on a top and bottom pivot and the action is guided by a roller within the track at the head of the door frame which holds the pivot for the second hinged panel. Door leaves are of heavy duty lipped construction.

Finishes

Frame, architraves and door leaves are offered; primed for painting, or factory pre-finished in a choice of Oak, Ash or Mahogany. Alternatively door leaves can be provided finished in a range of plastic laminate or to other customer specified appearance.

Dimensions

Units are available in standard clear passage widths, 800mm, 900mm and 1200mm and clear passage height, 2023mm. Units can be manufactured to special order to a specified size.

Note: Clear passage widths do not allow for projection of door furniture. Detailed dimensions are given in the separate data sheet at the back of this brochure.

Accessories

Accessories include optional architraves and extension linings. A choice of locks, latches and handles is available from the extensive Newman Tonks range. Other accessories include vision panels, kicking plates, and finger plates.

Applications

Ideal for **non** fire door applications.

Handing

The reduced swing doorset is not self handing. Hand must be stated when ordering. See handing guide page 8.

Supply and Setwork

The unit is supplied as a complete kit assembled for site installation by others full fixing instructions are provided. An installation service is available.

Technical Services

We have technical consultants covering all areas throughout the UK.

Information required when ordering

See the separate data sheets at the back of this brochure.

Maintenance

A national maintenance service is available from NT ACCESS, Oxleasow Road, East Moons Moat, Redditch, Worcestershire E98 0RE. Telephone: 0527 514000.

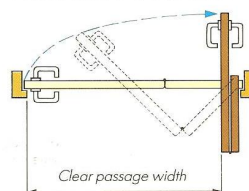


MILES ARCHITECTURAL IRONMONGERY LTD

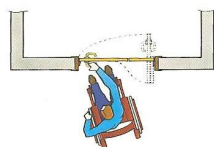
REDUCED SWING SPACE SAVING
SLIDING FOLDING DOOR GEAR



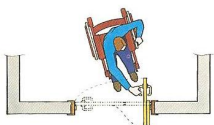
Doorset has bi-folding single action.



*Units are available in standard
clear passage widths.*



Entering Room



Exiting Room



MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

NT Double Action Reduced Swing Doorset



Features

- DOUBLE ACTION BI-FOLDING DOOR OFFERS OPTIMUM EASE OF USE FOR WHEELCHAIR USERS
- SAVES SPACE; DOOR REQUIRES APPROXIMATELY $\frac{1}{3}$ OF THE SWING AREA USED BY A CONVENTIONAL DOOR
- SUPPLIED COMPLETE WITH LOCK
- SPECIFICALLY DESIGNED FOR USE BY DISABLED PEOPLE
- FOLDING JOINT HAS SOFT EDGES TO PROTECT FINGERS
- HEAVY DUTY LIPPED DOOR LEAVES AS STANDARD

Description

This doorset was specifically designed for use by disabled persons. The double action doors incorporate a unique mechanism which allows persons in wheelchairs the option of push through operation of the doors from either side.

Reduced swing doorsets saves space; its innovative two-panel articulated door folds in the ratio $\frac{2}{3}$ to $\frac{1}{3}$ following an elliptical curve reducing the swing area to approximately $\frac{1}{3}$ that of a conventional door of the same width. As wall and floor space is utilized to its full extent. These doorsets are an excellent solution for confined areas, and other situations listed in The Building Regulations 1991. Approved document M; Access for disabled people.

Construction

The factory assembled doorset consists of doors and frame with operating hardware and double action lock fitted. The door is hung on a top and bottom pivot and the action is guided by a rolling carriage within the track at the head of the door. The double action spring bolt is designed to latch on closing from either direction. At the joint of the two panels, there are two rubber seals, that provide a degree of protection for fingers. Door leaves are of heavy duty lipped construction.

Finishes

Frame, architraves and door leaves are offered; primed for painting, or factory pre-finished in a choice of Oak, Ash or Mahogany. Alternatively door leaves can be provided finished in a range of plastic laminate or to other customer specified appearance.

Dimensions

Units are available in standard clear passage widths, 800mm, 900mm and 1200mm and standard clear passage height, 2023mm. Units can be manufactured to special order to a specified size.

Note: Clear passage widths do not allow for door furniture. For more detailed dimensions of the unit see enclosed data sheet at the back of this brochure.

Accessories

Accessories include optional architraves and extension linings. A choice of handles is available from the extensive Newman Tonks range. Other accessories include vision panels, kicking plates, and finger plates.

Applications

Due to the special design features, this doorset cannot be provided in a fire resisting grade.

Handing

This doorset is not handed, it is fully reversible and will operate in either direction.

Supply and Sitework

The doorset is supplied as a complete kit, assembled for site installation by others. Full fixing instructions are provided. An installation service is available.

Technical Services

We have technical consultants covering all areas throughout the UK.

Information required when ordering

See the separate data sheets at the back of this brochure.

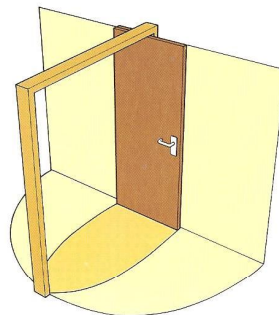
Maintenance

A national maintenance service is available from NT ACCESS, Oxleasow Road, East Moons Moat, Redditch, Worcestershire E98 0RE. Telephone: 0527 514000.

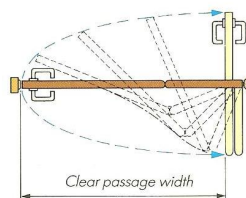


MILES ARCHITECTURAL IRONMONGERY LTD

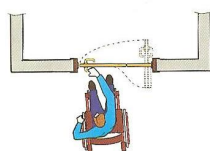
REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR



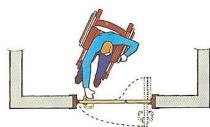
Doorset has bi-folding double action. Allows option of push-through operation of doors from either side.



Units are available in standard clear passage widths.



Entering Room



Exiting Room





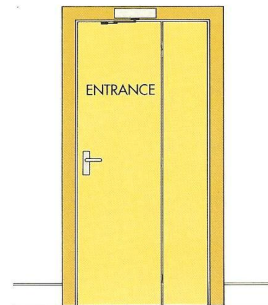
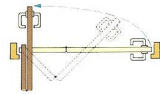
MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING
SLIDING FOLDING DOOR GEAR

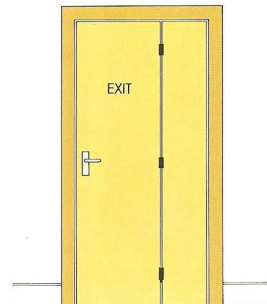
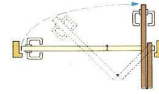
Doorset Handing Guide



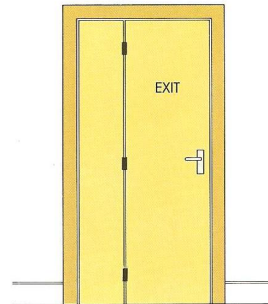
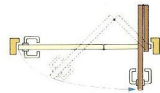
Exterior view of Left Hand Door.



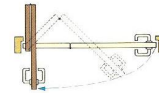
Exterior view of Right Hand Door.



Interior view of Left Hand Door.



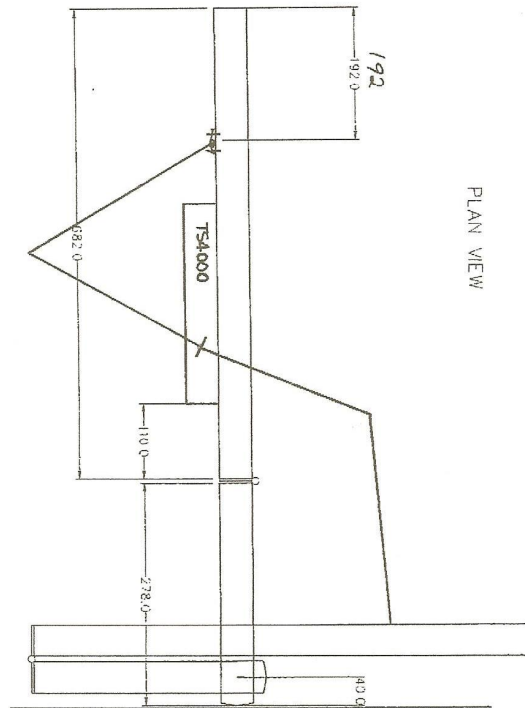
Interior view of Right Hand Door.





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REDUCED SWING SPACE SAVING
SLIDING FOLDING DOOR GEAR

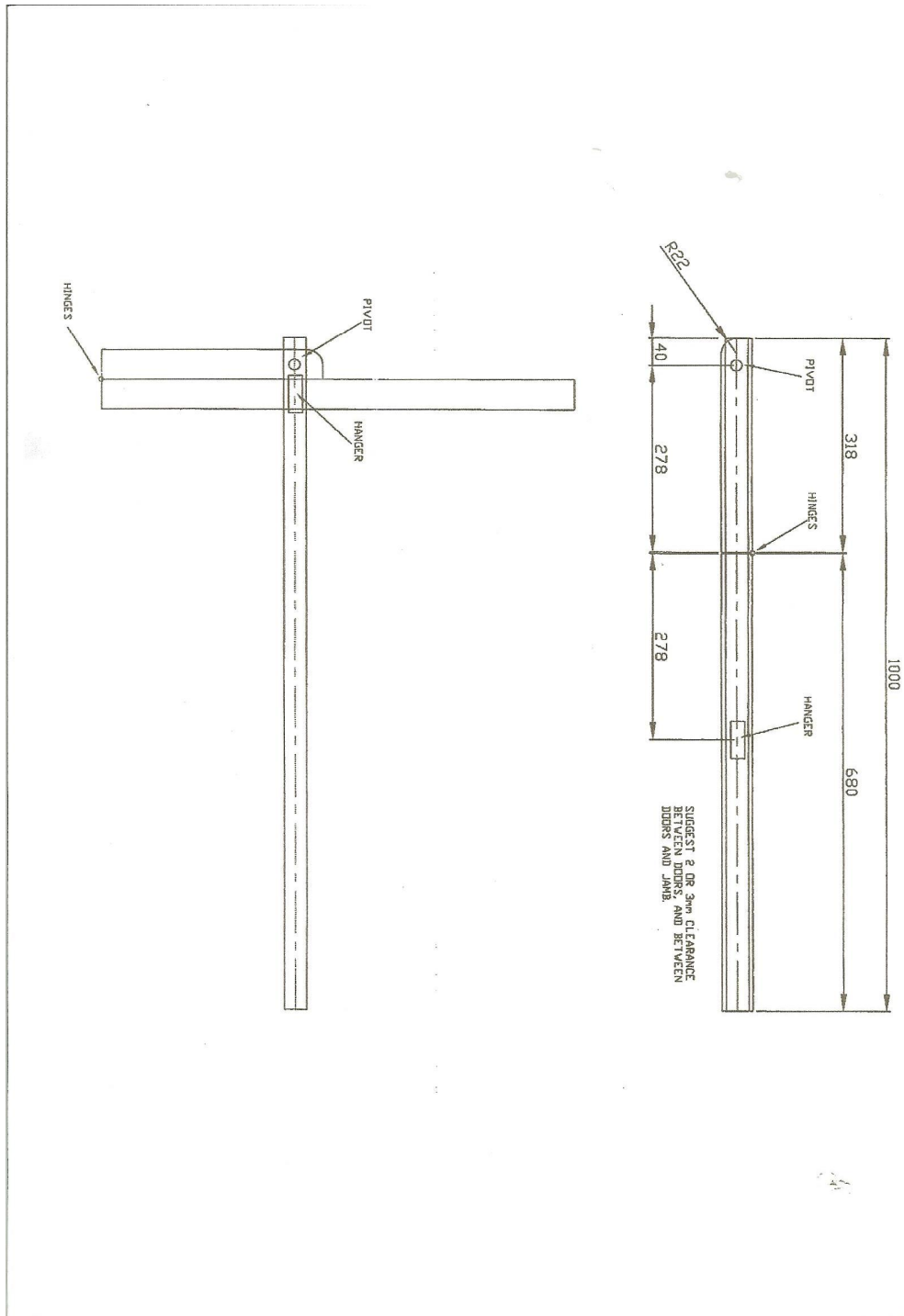


PLAN VIEW



MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

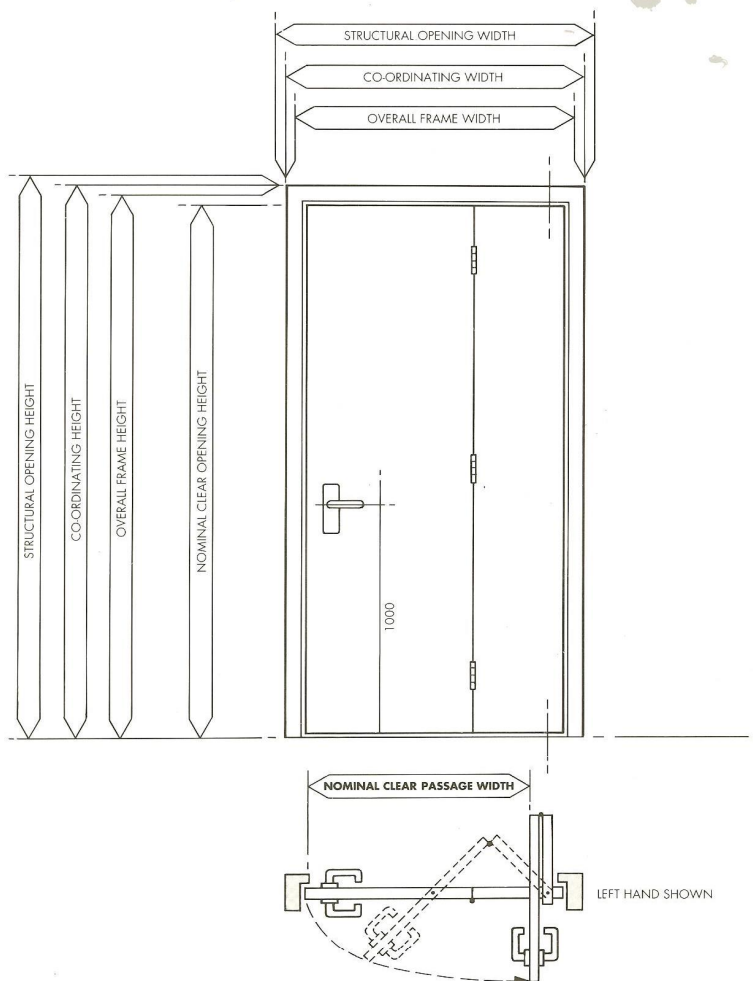




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REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

NT Reduced Swing Doorset



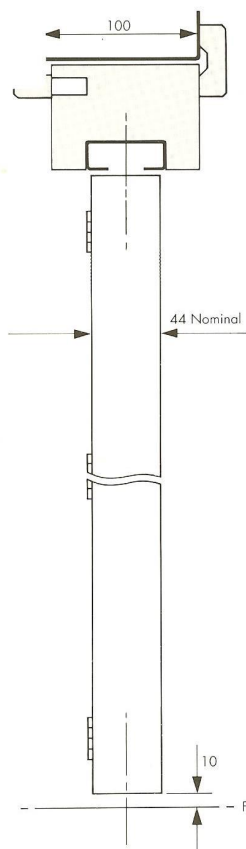
NOMINAL CLEAR PASSAGE WIDTH	OVERALL FRAME WIDTH	CO-ORDINATING WIDTH	STRUCTURAL OPENING WIDTH	NOMINAL CLEAR OPENING HEIGHT	OVERALL FRAME HEIGHT	CO-ORDINATING HEIGHT	STRUCTURAL OPENING HEIGHT
800*	994	1000	1003	2023	2093	2100	2101
900*	1094	1100	1103				
1200*	1394	1400	1403				

* EXCLUDING DOOR FURNITURE

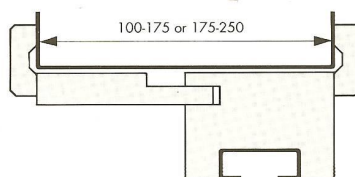


MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

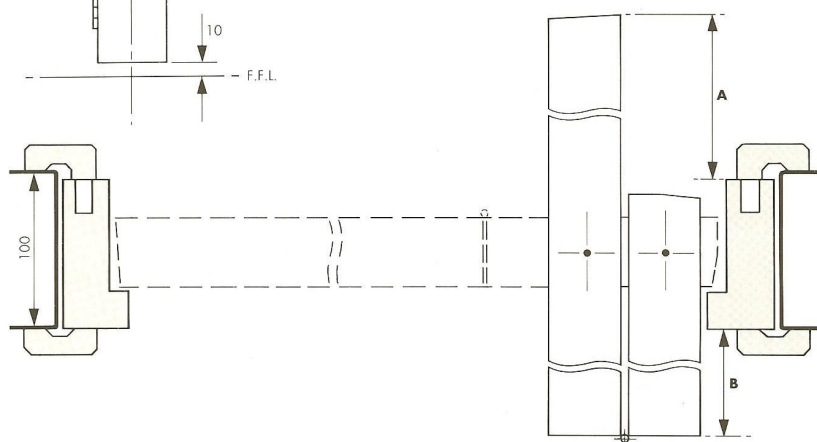


Frame Details shown are standard to suit 100mm thick partitions. Optional adjustable linings are available to order for partition thicknesses of 100-175 and 175-250.



Note: When open the nested leaves project beyond both faces of the frame as shown below. This factor should be considered when siting doors leading off from a corridor for example, and it may thus be necessary to set the doors back into a vestibule to avoid a hazardous situation. For reference the table below gives the nominal amounts of projection from each face of the frame.

NOMINAL CLEAR PASSAGE WIDTH	'A'	'B'
800	300	230
900	335	260
1200	435	360

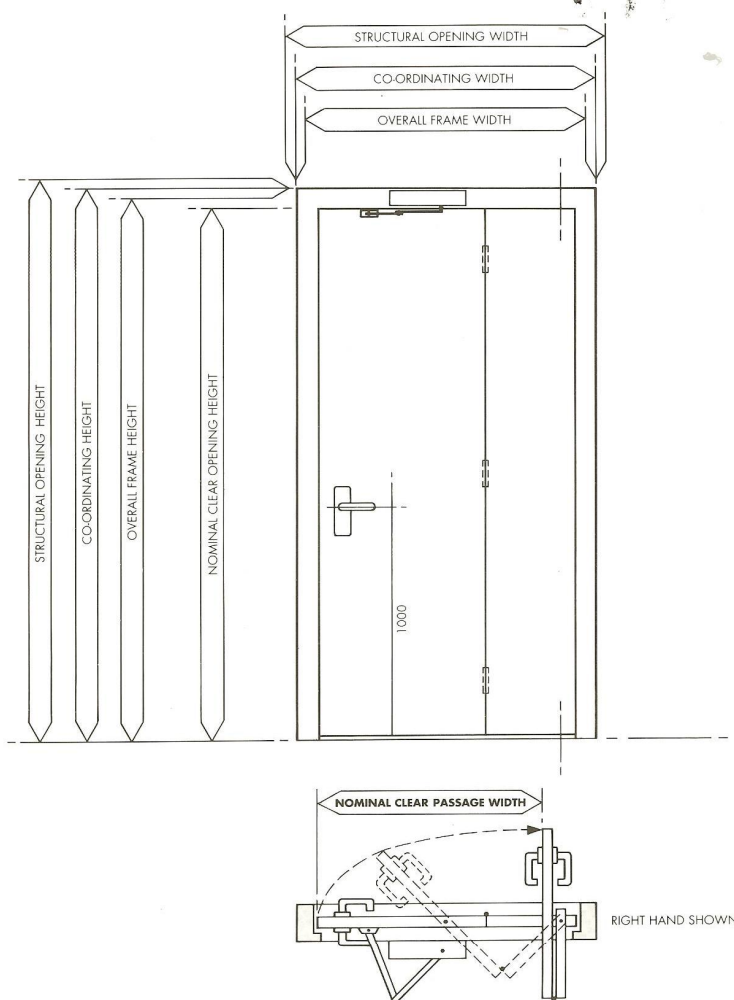




MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

Reduced Swing Fire Doorset



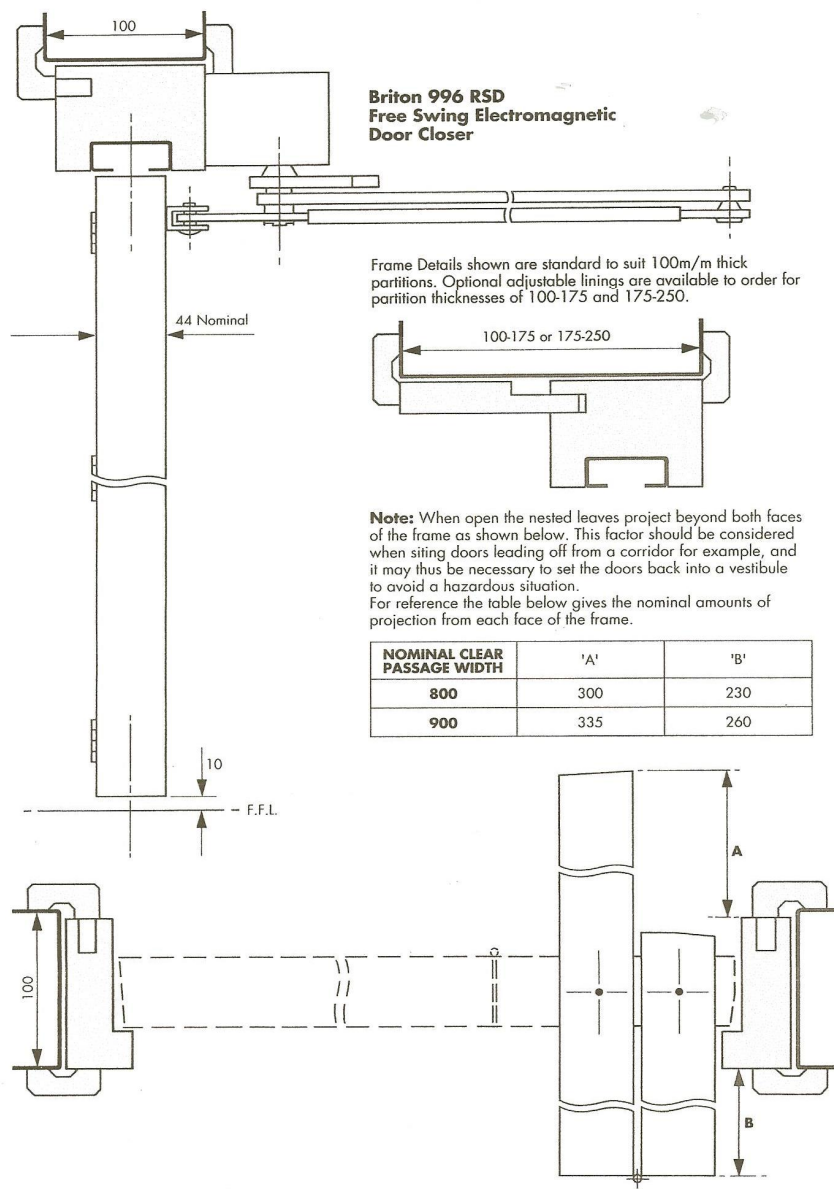
NOMINAL CLEAR PASSAGE WIDTH	OVERALL FRAME WIDTH	CO-ORDINATING WIDTH	STRUCTURAL OPENING WIDTH	NOMINAL CLEAR OPENING HEIGHT	OVERALL FRAME HEIGHT	CO-ORDINATING HEIGHT	STRUCTURAL OPENING HEIGHT
800*	994	1000	1003	2023	2093	2100	2101
900*	1094	1100	1103				

*EXCLUDING DOOR FURNITURE



MILES ARCHITECTURAL IRONMONGERY LTD

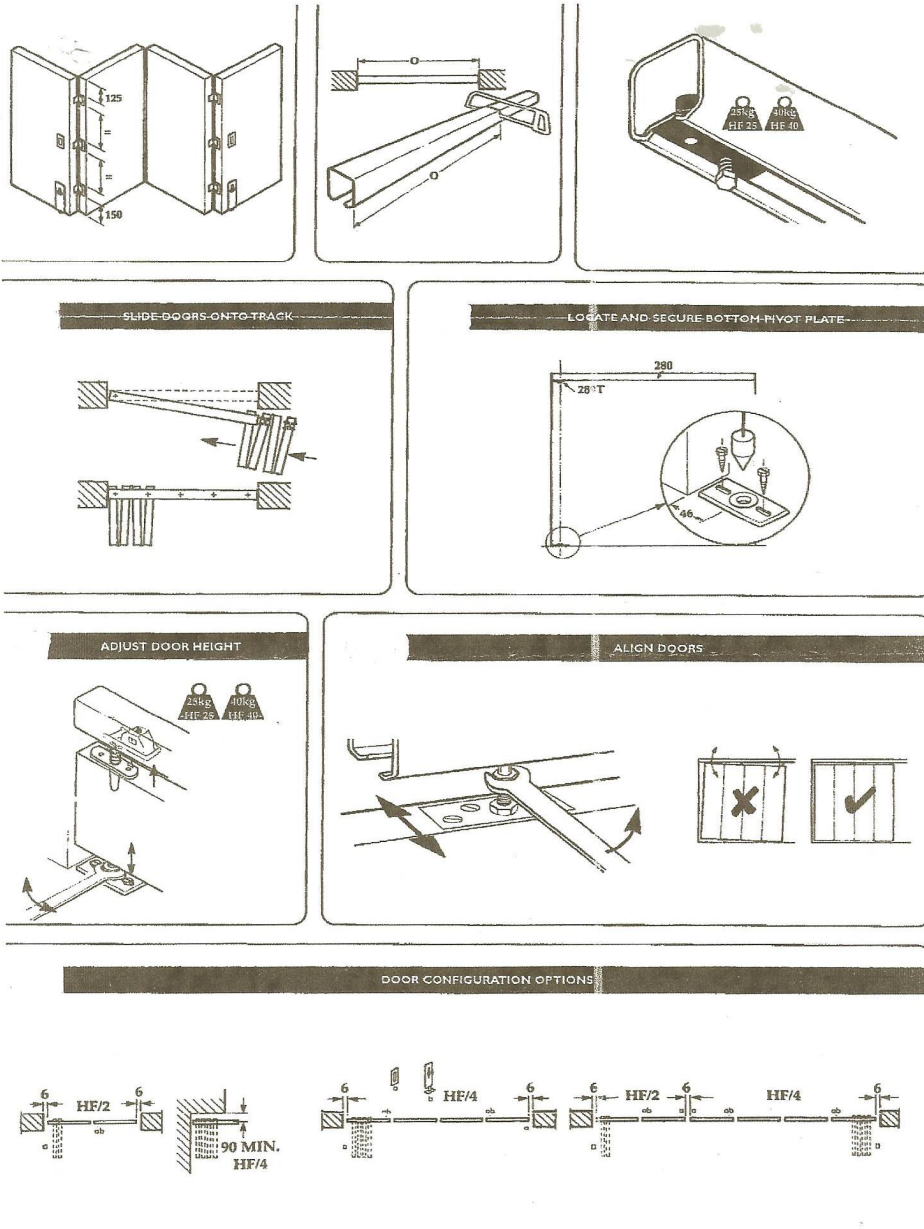
REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

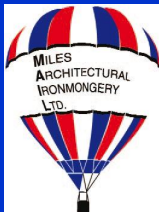




MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR



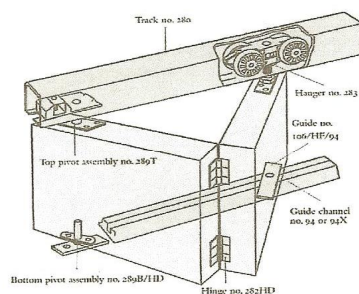


MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING SLIDING FOLDING DOOR GEAR

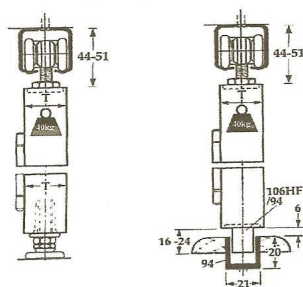
FOR FOLDING DOORS AND ROOM DIVIDERS TO 40KG

For opening width to	No. panels	Kit no.
1500mm	2	HF20/15
3000mm	4	HF20/30
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.

KITS

2 and 4 leaf fittings packs (excluding track and guide channel) 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 and fixing instructions. Order also steel track no. 280 or aluminium section track no. 280A. Soffit fixing only is available. Guide channel no. 94 or 94X should be 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.



MILES ARCHITECTURAL IRONMONGERY LTD

REDUCED SWING SPACE SAVING
SLIDING FOLDING DOOR GEAR