

This system offers thermally broken sections for both Lift & Slide and In-Line sliding doors with the sliding pain on the inner track to suit most project requirements.

Introduction

The basic suite of section has an equal leg outer frame, in addition there are add-on sections to enable the system to be fitted into all types of structure including all of the Brital curtain walling systems.

The door system can be manufactured either as an inline sliding door or as a lift & slide door, for applications requiring higher performance.

The system is designed to accommodate up to 30mm thick insulated glass units. The sliding pains are designed to be wrap-around glazed and the fixed frames are bead glazed directly into the outer frame.

As with all Brital systems the sliding doors are manufactured to exacting standards enabling economy to be combined with strength to give many years for aesthetic, trouble-free operation.

Scope

The specification defines materials construction, finishes and size limits for the sliding doors.

Materials

Aluminium profiles are extruded from aluminium alloy 6063 T6 or similar complying with the recommendations of BS EN 12020-2:2008/BS EN 755-9:20008.

Finishes

The range of sections can be provided in either of the following finishes.

1. Anodised to BS 1615 or BS 3987 (Natural or Coloured)
2. Powder organic coated to BS 6496
3. Subject to Brital approval other finishes may also be used.

The finish may differ on the internal and external surfaces if required.

Construction

The frame members are cut at 45 degrees, Outer frame corners are jointed with cast aluminium mechanical cleats and extruded cleats. Shutter frames are jointed with cast aluminium cleats. The fixed mullions are fixed into the outer frame by means of screw ports extruded into the section and stainless steel self tapping screws. All joints are fully sealed during construction against the entry of water. Extruded gaskets and woolpiles are provided to resist water penetration.

Glazing

The shutter frame is assembled around the glazing units, which are set against extruded EPDM gaskets, internally and externally. The fixed glazing is glazed directly into the outer frame and retained between extruded EPDM gaskets by means of extruded aluminium beads. Glazing support packers should be used between the edge of the insulated glazing unit and the frame.

Installation

This manual provides detailed installation instructions which should be followed. It is important that the bottom track is laid as horizontally as possible, with a deviation of not more than $\pm 3\text{mm}$. The outer top rail should be parallel with the cill rail and the gap between them should not vary by more than $\pm 1\text{mm}$.

Sliding Door Fittings

The sliding doors are designed to suit the hardware described in this manual and manufactured by Brital's authorised supplier, Master.

Doors can be supplied with or without key operated locks.

Where the cill of the door is raised above floor level refer to pages HP45G/03/03 and HP45G/07/26 for details of the locking mechanism to be used to allow the handle to be as

a usable height. (Only suitable for in-line sliders.)

Size Limits for Sash Sections

The maximum and minimum sizes for the door systems are dictated by the hardware manufacturer's recommendations and the structural strength of the section. Charts contained in this manual should be used to check that the meeting rails are capable of resisting the maximum wind load for the height and width of any given shutter unit.

Horizontal Lift - Sliding Door Maximum & Minimum Moving Shutter Sizes Maximum weight 200kg			
Shutter Section	Max Height	Max Width	Min Width / Height Ratio
BR-LS60-32-60	3000mm (Min Ht 1175mm)	2400mm (Min Width 800mm)	1/3
For Heights Between 2675 and 3000 Refer to Brital Tech. Department			

Horizontal In-Line - Sliding Door Maximum & Minimum Moving Shutter Sizes Maximum weight 180kg			
Shutter Section	Max Height	Max Width	Minimum Width/ Height Ratio
BR-LS60-32-60	3000mm (Min Ht 1900mm)	1800mm (Min Width 600mm)	1/3

Performance

The Brital sliding door systems have been designed to the requirements of BS 6375 Part 1.

Air permeability	Class 2 ($2.25\text{m}^3/\text{hr}/\text{m}$ at 100Pa)
Watertightness	Class 7A (300Pa)
Wind Resistance	Class A5 (2000Pa)

(Based on Fixed/Sliding, Lift Slide Door)

Development

Our policy is to continually research and develop new and improved products. We must therefore retain the right to amend these specifications without prior notice.