

The system offers thermally broken sections to suit the specific project requirements.

Introduction

The basic suite has long leg outer frame sections to allow the sliding and fixed light windows to be fitted at the back of the reveal.

Various other profiles can be designed and incorporated allowing architects to achieve flexible designs.

The system is designed to accommodate 24mm double glazed units, using non beaded or beaded sash and fixed light windows accommodate 24mm or 26mm double glazed units, with standard clip in glazing bead.

As with all Brital systems, the horizontal sliding / fixed light window system is manufactured to exacting standards, enabling economy to be combined with strength to give many years of aesthetic, trouble-free operation.

Scope

This specification defines materials, construction, finishes and size limits for the sliding / fixed light windows.

Materials

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

Finishes

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

1. Anodised to BS1615 or BS3987 (Natural or Coloured)
2. Powder organic coated to BS6496

Subject to Brital Approval other finishes may also be used.

The external finish may differ from the the internal one.

Construction

Frame members are mitre cut at 45°, corners are reinforced with cast aluminium or plastic mechanical cleats and corner braces. A secure joint is formed by screwing the cleat up tightly using an Allen key.

Interlock bars are cut, shaped and fixed securely to the sash by means of stainless steel screws.

All frame joints are sealed during construction against entry of water. Extruded gaskets and woolpile seals are provided to resist the ingress of water.

Glazing

The sash frame is assembled around the glass unit (non beaded) or glazed into the assembled sash or fixed frame (beaded) which are set against self adhesive EPDM gaskets externally and are fitted onto the frame / sash upstands.

Glazing beads are clipped in where required and the glazing is held secure by means of wedge gaskets internally. For glass support BR setting blocks and flat packers should be used.

Installation

Detailed installation instructions are provided which should be strictly followed.

Sliding Window Fittings

The sections are designed to suit clamp fixed horizontal sliding window fittings including rollers and buffers with a variety of handle options. Brital are able to advise on a full range of fittings and accessories.

Rollers and corner cleats are available for the fly screens.

Brital recommend the use of restrictors to prevent the sliding window opening more than 100mm when fitted above ground floor level.

Size Limits for Sash sections

Horizontal Sliding windows Maximum & Minimum Moving Sash Sizes			
Sash Section	Max Height	Max Width	Min Width
BR-SL03-24-03 Moving Sash	2100mm	1200mm	Height / 3
BR-SL03-24-05 Beaded Moving Sash	2100mm	1200mm	Height / 3
BR-SL03-24-17 Tall Moving Sash	2400mm	1500mm	Height / 3

Maximum sash weight 100 Kg with BR-6667.10 Rollers

Maximum sash weight 180 Kg with BR-6675.40 Rollers

Maximum sash weight 220 Kg with BR-6675.34 Rollers

Performance

The Brital Sliding window system has been designed to give the following levels of performance.

Air permeability - BS 6375 : Pt. 1 : 1983 test pressure 200 Pa

Water tightness - BS 6375 : Pt. 1 : 1983 test pressure 200 Pa

Wind resistance - BS 6375 : Pt. 1 : 1983 test pressure 1500 Pa

These levels of performance should be sufficient for any location within the Middle East, However should higher levels of performance be required for any reason, Brital's advice should be sought.

Development

Our policy is to continually research the market for new and improved products. We must therefore retain the right to amend specifications without prior notice. It is recognised by Brital that in some instances special sections may be required for particular projects. When this occurs it may be possible to produce bespoke sections subject to there being sufficient quantity and adequate time.