BRITAL
ALUMINIUM FACADE DESIGNS

TB-75-BI-FOLD DOOR
BI-Fold Door Sysytems (Thermally Broken)
Specification

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

Introduction

The basic suite has equal leg outer frame sections and an internal trim to allow the doors to be fitted against the internal reveal if required.

The Brital Bi-Fold door system is designed to take maximum advantage of an opening, to provide almost unimpeded access into and out of a building.

Various other profiles can be designed and incorporated allowing architects to achieve flexible designs. The system is glazed internally to accommodate 28mm to 34mm double glazed units, using standard beads.

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

Thermal Performance

The Brital thermally broken system in conjunction with the correct glass specification, is designed to provide optimal thermal performance.

Scope

This specification defines materials, construction, finishes and size limits for the thermally broken Bi-Fold door system.

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 BS 1615 or BS 3987 (Natural or Coloured)
2. Powder organic coated to BS 6496

Subject to Brital approval other finishes may also be used.

The Brital Bi-Fold Doors can be a different colour/finish internally and externally.

Construction

Frame members are mitre cut at 45°, corners are reinforced with extruded aluminium crimping cleats and corner braces. A secure joint is formed by pneumatically crimping into the extruded crimping cleat.

Mullion and transom bars are cut, shaped and fixed securely to the frame by means of stainless steel screws.

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

Glazing

Two types of glazing beads are used. For the longest frame edge beads are directly engaged into the frame, whilst on the shortest frame edge the beads are held secure by means of bead clips. Gaskets are provided internally and externally as described in section 9.

For glass support, setting blocks and flat packers are provided to locate into the sections, also see section 9.

Installation

Detailed installation instructions are provided in this manual which should be strictly followed.

Open In & Out Door Fittings

The sections are designed to suit Masters Locks and handles, and keeps.

The running gear including, roller assemblies, and hinges are manufactured in the UK by Caldwell for the Brital range of sections.

Brital are able to advise on a range of fittings and accessories.

Brital recommend that single locks should only be used on doors up to 2400mm high, (where improved weather resistance is required multipoint locks should be used).

Performance

The Brital swing door system has been designed to give the following levels of performance (based on single doors with fully rebated frames).

Air permeability - BS6375: Pt1:1983 test Class 2

Water Tightness - BS6375: Pt1:1983 test Class 3A

Wind resistance - BS6375: Pt1:1983 test Class 4

These levels of performance should be sufficient for most locations. However, should higher levels of performance be required for any reason, Brital's advice should be sought.

Max/Min Size Limits

Door Shutter Section	Door Shutter Height	Door Shutter Width
Open In & Out Doors (Single shutter size) Standard Duty Door		
BR-BF01-20-02	2400mm (max)	1000mm (max)
	1500mm (min)	800mm (min)

Maximum Door Shutter Weight 100kg

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.