

800 Series Thermally Broken Door System - SPECIFICATIONS

1. Scope

This specification defines the basic design concept, construction, materials, fittings and performance of WGL 800 series thermally broken door.

2. Design Concept

The profiles and components in this range have been specially designed to provide a thermally broken door that is glazed internally.

Compatible with WGL 800 series windows, WGL 500 series curtain wall and WGL 200 series entrance screen system.

In addition to use as a standalone door, the system can be used as ground floor screen work up to a height of 3.6m by using coupling mullion reinforced with steel.

3. Materials

Aluminium alloy 6063 TE & TF, stainless steel and appropriate high quality seals used throughout.

4. Finishes

The construction allows for fabrication of all exposed members from pre-finished lengths of aluminium extrusion.

These exposed profiles will be available in a range of finishes:

- a) Anodised to BS 3987, Grade AA25. Etched and anodised natural self-colour, black, bronze and standard colour range.
- b) Synthapulvin paint standard colour range.
- c) Non-standard colours are available upon request.
- d) Synthapulvin paint finish to a marine / swimming pool environment finish.

5. Construction

Perimeter members are cut at a 45° mitre. The corners being reinforced and joined using extruded aluminium

corner cleats and ties then sealed with a corner jointing adhesive. Intermediate mullions and transom bars are square cut, machined and fixed to outer frame using self-tapping screws and stainless steel pins.

6. Hardware

Fitted with fully adjustable door hinges, security lock, with europrofile security cylinder.

7. Glazing/Infill

The range has been designed for 28-32mm & 46-48mm glass or panel thickness.

Glass is set against rubber retaining gasket set into a groove in the bead/frame, with internal locking wedge gasket completing the glazing. Glazing gaskets are manufactured from BS7412 trade standard TPE material with silicon lubricant. TPE material can be used with self-cleaning glass, such as Pilkington Active. The glass is then held in place with either WGL835 or 837 clip-in spring bead depending on glass thickness.

8. Performance (weather)

The construction allows for a very effective inside seal between glass and aluminium. This, combined with pressure equalised drainage, means that a correctly installed window system will be completely watertight.

The system having been tested in house up to the test pressure 'class 600Pa' as specified in BS 6375: Part 1: 1989 for water, air permeability and wind resistance.

The system has also been tested by a UKAS accredited testing facility, for water, air permeability and wind resistance and passed BS 6375: Part 1:2004.

9. Important note

Profiles must be used in their insulated form (thermally broken) to conform to Part `L` of the building regulations

STANDARD SPECIFICATIONS & PERFORMANCE

The next pages indicate typical standard specifications for different door types. These specifications are not exhaustive and many different forms of hardware can be used.

Rebated door ~ Open out, inside glazed.

Sash -	WGL851.
Hinges -	Roto Door-line 108. (anti lift, 3 Fitted).
Lock -	Standard Security Maco hook lock- 35 back set lock – 92mm handle fixing centres.
Handle -	Lever/lever, lever pad or cranked handles.
Additional Hardware -	Centring Blocks to be fitted to cill frame member (50mm in from sash leading edge). Sash Jack for glass packing.
Restriction –	Face fixed closers or concealed restrictors.
Trickle ventilation -	Brookvent aluminium trickle vent hood & channel.
Glass –	26-32mm and 46-48mm double glazed unit.
Security –	Inside glazed and fitted with 3No. Roto theft claws.
Performance –	<u>Tested in accordance with BS 6375: Part 1:1989 to 600Pa (severe) rating for weather & air leakage, Compliant with Building Regulation Part L dependent on window configuration & glass specification.</u>

Rebated door- Open in, inside glazed.

Sash -	WGL852.
Hinges-	Roto Door-line 108 (anti lift, 3 fitted with security fixings).
Lock-	Standard Security Maco hook lock- 35 back set lock – 92mm handle fixing centres.
Handles -	Lever/lever, lever pad or cranked handles.
Additional Hardware -	Centring Blocks to be fitted to cill frame member (50mm in from sash leading edge). Sash Jack for glass packing.
Restriction –	Face fixed closers or concealed restrictors.
Trickle ventilation -	Brookvent aluminium trickle vent hood & channel.
Glass –	26-32mm and 46-48mm double glazed unit.
Security –	Inside glazed and fitted with 3No. Roto theft claws.
Performance –	Tested in accordance with BS 6375: Part 1:1989 to 600Pa (severe) rating for weather & air leakage, compliant with Building Regulation Part L dependent on window configuration & glass specification

Double doors ~Inward Opening, inside glazed or outward opening, inside glazed.

Sash -	WGL 851 or WGL 852.
All specification as previous but using French door lock with shoot bolt extension for slave door with lever/lever operation. (alternatively slave door fitted with finger bolt locking and shoot bolts fitted to master door.)	
<u>Low threshold-</u> Available for both inward and outward opening doors with requirements to meet DDA specifications giving a 13mm high threshold.	