

## **1100 Series Thermally Broken Commercial Door SPECIFICATION**

### **1. Scope**

This specification defines the basic design concept, construction, materials, fittings and performance of WGL 1100 series thermally broken Commercial door.

### **2. Design Concept**

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

Suitable for stand alone situations it is also compatible with WGL 500 series curtain wall.

### **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/RAL paint standard colour range.
- c) Non-standard colours are available upon request.
- d) Synthapulvin/RAL paint finish to a marine / swimming pool environment finish.

### **5. Construction**

Both frame & door members are cut square, machined and fixed together using self-tapping screws. The corners are joined using extruded aluminium corner cleats and sealed with a corner jointing adhesive.

### **6. Hardware**

Fitted with overhead concealed closer & pivot and europrofile cylinders with multi point locking.

### **7. Glazing/Infill**

The range has been designed for 28-32mm, 36-38mm & 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 water based lubricant. TPE material can be used with self-cleaning glass, such as Pilkington Active. The glass is then held in place with either WGL835, 836 or 837 clip-in spring beads depending on glass thickness.

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

DOOR TYPE	DOOR TESTING
	SECURITY PAS24:2012
Single Door (Low threshold)	PASSED
Double Door (Low threshold)	PASSED

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

**SIZE LIMITATIONS** – Glass/Aluminium section weight limitation for overhead concealed closer & pivot

- **MAX LOAD CAPACITY = 120 KG, SUPPLIED AS STANDARD**
- **MAXIMUM WIDTH OF DOOR IS 1200MM OVERALL SASH**
- **MAXIMUM HEIGHT OF DOOR IS; 2900MM FOR SINGLE DOORS OVERALL SASH.**
- **MAXIMUM HEIGHT OF DOOR IS; 2900MM FOR DOUBLE DOORS OVERALL SASH.**