

SPECIFICATION TS66 Rebate Door

The AMS Thermstrip TS66 rebated door system offers unique patented architectural design features combined with market leading thermal performance. This thermally broken door system combines polyurethane resin with an multi chamber isolator core which assist in meeting the thermal requirements of the current building regulations.

Introduction

The suite of profiles have short, long, equal leg and unequal leg sections to accommodate all anticipated framing options. Various other profiles can be designed and incorporated allowing architects to achieve flexible project specific designs. The system can be glazed both internally and externally with double glazed units from 24mm to 28mm with fixed pane, side hung open in and open out rebated configurations.

Thermal Performance

Thermstrip TS66 is designed to offer the specifier excellent aluminium thermal u-frame values in conjunction with the correct glass specification to achieve overall target u-values or equivalent energy ratings on specified projects.

Scope

This specification defines materials, fabrication, paint finishes, and size limitations for rebated thermal doors.

Materials

Aluminium profiles are extruded from aluminium alloy 6063 T5 and T6 complying with BS1474 - BS EN 12020-2:2001 / BS EN 755-9:2001.

Paint Finishes

Polyester Powder Coatings

Aluminium profiles can be dual colour polyester powder coated to BS6496. AMS offers in house painting with the following paint suppliers -

- Azko Nobel Interpon D
- Du Pont Alestal
- Beckers Powder

Decoral

Aluminium profiles can be polyester powder coated with a woodgrain effect paint finish to BS6496.

Anodised

Aluminium profiles can be anodised to BS1615 or BS3987.

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Fabrication

Frame members shall be mitre cut at 45° and corners are reinforced with extruded aluminium crimping cleats and corner braces and securely fixed in place with a two part adhesive. A secure joint is achieved by means of a pneumatic crimp along with the insertion of a two part epoxy adhesive. Intermediate mullion and transom bars shall be square cut shaped and fixed securely to the frame by means of a new fixing bracket tapped into the polyurethane resin with a stainless steel screw.

All frame joints shall be sealed during construction against entry of water using a suitable small gap sealant.

Glazing

Glass shall be set against co-extruded gaskets externally which are fitted into gasket grooves in the frame and gaskets shall be manufactured BS4255.

Snap in glazing clips shall be utilized to hold glazing beads in place.

Glazing shall be to BS 6262 and Building Regulations Document N.

The system can accommodate glazing from 28mm to 48mm.

Installation

AMS offer detailed installation instructions on all systems and these should be followed as per AMS's technical department's recommendations.

Door Thresholds

AMS offers several door threshold details as contained in their literature.

In most common commercial applications it is required that DDA legislation be conformed with and this can be achieved with AMS low-rise threshold CDTM.

Door Fittings & Accessories

The AMS system is designed to suit weathered rebated operations and the following ironmongery is required to assist this.

Hinges - AMS 3DL for hanging opening doors to the outer frame.

Handles - AMS standard Polyester Powder Coated lever / lever Handles.

Doors Closer - Adams Rite surface mounted closer.

Locking Mechanism - Five point multi-locking via key operated locks.

Emergency Escape Mechanism - Fapim face fixed panic bar emergency opening device.

Opening Door - Side Hung Open In or Open Out

Maximum Opening Door Height: 2400mm

Maximum Opening Door Width: 1000mm

Maximum Opening Door Weight: 100KG

Performance

Tested to BS 6375-1 2004.

Air Classification - A4: 600 Pa.

Water Tightness - A9: 600 Pa.

Wind Resistance - 3C: 1200 Pa. (Rebated Door)