

SPECIFICATION TS66 Tilt & Turn

The AMS Thermstrip TS66 Tilt & Turn window system offers unique patented architectural design features combined with market leading thermal performance.

This thermally broken casement window 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 28mm through to 48mm with fixed pane, side hung and bottom hung open in configurations. The system is also internally beaded for additional security.

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 tilt & turn windows.

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
- DuPont - Alestia
- 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.

Installation

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

Tilt & Turn Window Fittings

The system is designed to suit heavy duty vents with Maco or siegania tilt & turn, all round perimeter multi- locking system.

System can be adjusted to suit pivot only window or doors.

Handles

Lockable or Non-Lockable handles to be supplied.

Opening Vents - Side & Bottom Hung Open In

Maximum Opening Vent Height: 2350mm

Maximum Opening Vent Width: 1650mm

Maximum Opening Vent Weight: 80KG

Structure

Section performance requirements must be calculated from site conditions and all loading requirements. All structural profiles shall be designed so as the maximum deflection of any member shall not exceed L/175 of its span and there shall be no evidence of any permanent deformation once the load has been removed.

Performance

Tested to BS 6375-1 2004.

Air Classification - A4: 600 Pa.

Water Tightness - A9: 600 Pa.

Wind Resistance - 3A: 1200 Pa. (Tilt & Turn Window)