



AMS Panels

AMS Panel systems offer unique patented architectural design features combined with market leading thermal performance.

Introduction

T&G Cladding Wall Panel

The T & G Panel system is a non-thermally broken external cladding panel system. The system provides a long term sustainable solution to externally fixed timber products often placed within modern facades. The system has a visual face width of 90mm and the planks have a concealed fixing in the underside to give a timber tongue and groove cladding finish.

Insulated Door & Screen Panel

The insulated door and screen panel offers a robust and thermally efficient method of closing in doors and screens with a polyester powder coated paint finish. The panels can either be a Styrofoam or Marine Grade Plywood Core faced on both sides by 1.5mm aluminium sheet which can be painted to a RAL colour. The panels are available in either 24mm or 28mm.

Thermstrip TS46 Door Panel

The Thermstrip door panel system combines a polyurethane resin with a multi chamber isolator core which assist in meeting the thermal requirements of the current building regulations. The system has a visual face width of 90mm to give a timber tongue and groove plank effect.

Thermal Performance

Thermstrip TS46 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. All above panel solutions will offer differing u-values calculations and specifier's should seek specific project technical assistance from AMS's technical department.

Scope

This specification defines materials, fabrication, paint finishes, and size limitations for door, cladding and screen panel systems.

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.

- Styrofoam Insulation.
- Marine Grade Plywood.

Paint Finishes

Polyester Powder Coatings

T & G Cladding Wall Panel profiles are single colour polyester powder coated to BS6496.

Thermstrip TS46 Door Panel & Insulated Door Panel 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 Alesta
- 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.

Fabrication

Fabrication as per Architectural & Metal System's recommendations in their technical literature specific to the required panel system.

Glazing

Panels shall be set against extruded EPDM gaskets externally which are fitted into gasket grooves in the frame and gaskets shall be manufactured BS4255. Snap in glazing clips shall be utilised 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.

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.