

## SCOPE

The AM Profiles Design-5 timber / aluminium composite hinged door system is available in the following options:

- Open in single or double door
- Open out single or double door

The hinged door is part of the composite solution designed and produced in the UK by AM Profiles and also includes:

- Open Out Casement and Reversible Windows
- Tilt & Turn Windows
- Folding Sliding Doors
- Curtain Wall
- Sliding Patio Doors

## STYLES

The AM Profiles' composite hinged door can be produced with or without midrails, muntin bars or slim-line astragal bars and have glazed or panelled areas so facilitating a range of aesthetically pleasing design options. To form a screen arrangement the door can easily be connected to windows manufactured from one of AM Profiles' Design-5 composite window systems.

## INTERNAL TIMBER

The timber sections of the door are jointed in traditional mortise and tenoned fashion. FSC accredited solid or engineered Pine is offered but some hardwoods can be obtained dependant on environmental impact. Choice of aesthetic detail is possible subject to volume.

## TIMBER FINISH

Water based preservative primer and clear or opaque finish up to 90 microns.

## EXTERNAL ALUMINIUM

Aluminium extruded from alloy EN AW-6063 T6 in accordance with BS EN-755. Polyester powder coated to BS 6496-1984 with full RAL and BS range available or anodised to BS 3987.

## SYSTEM DETAILS

The Design-5 door aluminium sections are available in bar lengths or as fabricated frames. The door range is offered fabricated by AM Profiles and registered manufacturers. Having constructed timber and aluminium frames and sashes, the aluminium is attached to the timber using purpose designed nylon clips. The aluminium component can only be removed if the nylon clips are turned through 90 degrees by the use of a special tool. The system is fully drained and vented to ensure long lasting sealed unit and timber performance.

## FURNITURE AND FITTINGS

The Design-5 composite hinged door accommodates 3 number Peder Nielsen butt hinges as standard – the lower one of these being height adjustable. The 3 hinges will carry a maximum loading of 100kg and extra hinges can be used to accommodate greater weights.

The standard lock used on fabricated doors is the FUHR 856 Multisafe lever operated latch with dead bolt and 2 number hook bolts.

The Peder Nielsen Friction Brake Arm from the Combi hardware system is an additional option ideal for open out doors.

The slave door sash on a double door is firmly held in place by 2 number sturdy edge fixed flush bolts.

A face fix closer can be provided.

Open in and open out doors include a low threshold feature as standard.

As an extra trickle ventilation is available through the head of the door sash - other options are possible upon request.

## GASKETS

Dual component solid / cellular EPDM compression gasket gives a complete and effective seal. Please consult the drawings on this document to review the gasket positions on the open in and open out doors.

## GLAZING

A 28mm overall glazing thickness for glass or panels is offered as standard. All sealed units should be 'toe & heeled'. The aluminium cladding retains the glass but high bond glazing tape is also used as an extra security feature on doors fabricated by AM Profiles.

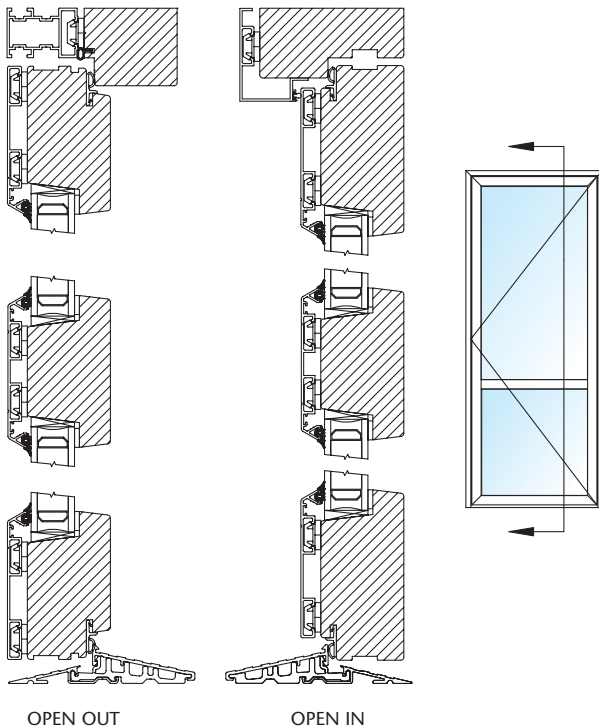
## PERFORMANCE

The Design-5 composite door, in either open out, open in, single or double format, is designed to be a low maintenance, high performance door for low to medium 'traffic' situations.

## ANCILLARY PROFILES

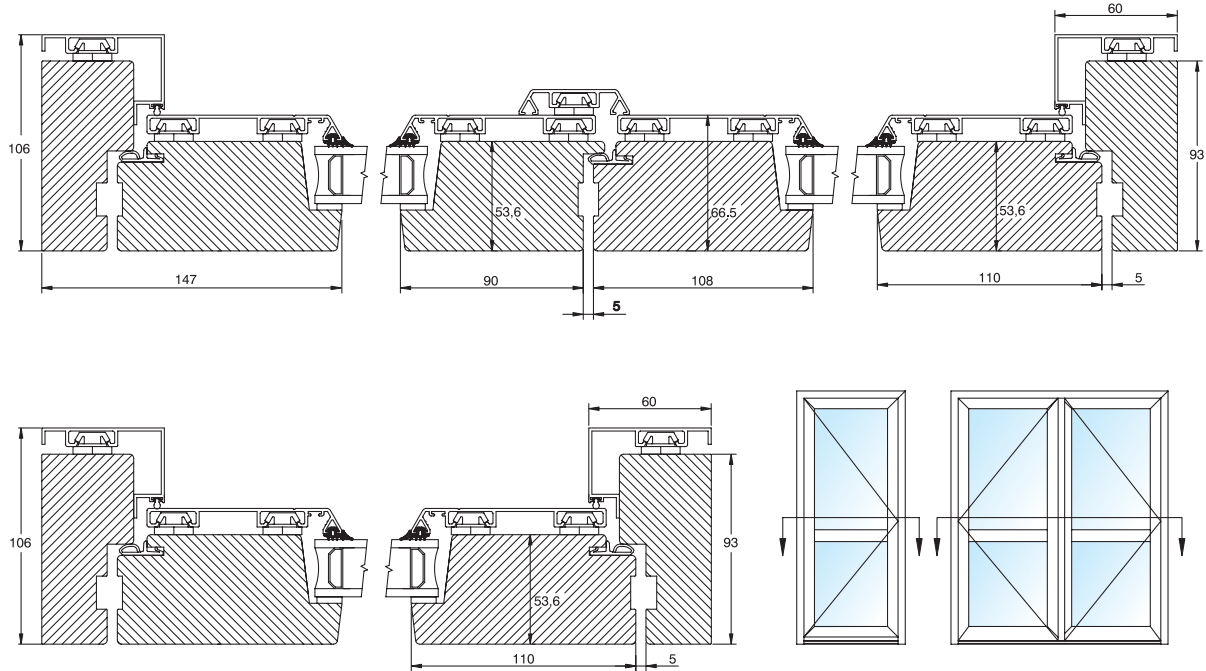
Various cill options, frame extenders and coupling arrangements are available.

For further information please consult our technical sales manual. For assistance on glass options or performance requirements please contact our Technical Team.



Drawings not to scale

**OPEN IN SINGLE & DOUBLE DOOR HORIZONTAL SECTIONS**



**OPEN OUT SINGLE & DOUBLE DOOR HORIZONTAL SECTIONS**

