



APPLICATION

For residential access purposes at ground floor terrace or upper floor level balcony locations where doors are to be secured from within the building.

FUNCTION

Single leaf doors (SHID) are secured by a concealed multipoint locking espagnolette bolt mechanism incorporating an integral handle operated friction stay with variable limiting up to 90°. In the case of pairs of doors (SHIDD) the slave leaf is secured with flush bolts.

CONSTRUCTION

Composite construction combining extruded aluminium alloy profiles to EN AW 6060-T6 and close grained, laminated North European Redwood, Class J10/J30 in accordance with EN 942: 1996. Other timber species available.

Timber frame and casement sections are precision machined and assembled with pinned and glued comb joints.

External aluminium frame profiles are assembled with sealed mitred joints by means of crimped angle cleats, bonded with PIB tape and mechanically fixed with stainless steel pins to internal timber members.

A low profile aluminium threshold or aluminium clad timber cill can be specified.

Doors are fully weatherstripped with EPDM slot seals.

MANUFACTURE

All doors are purpose made to specification in accordance with EN 14351-1 : 2006

APPEARANCE

Aluminium profiles are chemically pre-treated and powder coated in any standard RAL colour and specified gloss level in accordance with BS6496: 1984.

Timber is fully factory finished with a 3 coat spray applied water based clear lacquer, paint to NCS/RAL specification or a wide range of stain finishes.



GLASS AND GLAZING

Doors are factory double or triple glazed to specification in accordance with BS6262: 1982 with 28mm or 36mm dual sealed units constructed to EN1279-2 : 2002 and safety glazed in accordance with BS6206: 1981 and Building Regulation 2000 Approved Document N.

Doors are externally bead glazed employing a drained and ventilated glazing system with sealed units incorporating warm edge composite super spacers and gas filling as standard. Sealed units are supported on setting blocks and dry glazed with EPDM gaskets.

All available high performance glass types can be specified to meet particular requirements for thermal insulation, acoustic attenuation, solar control, safety and security.

PERFORMANCE

All Westcoast doors can be considered as genuinely high performance. Door size, glazing and other factors however directly affect performance levels.

Westcoast technical support staff should be contacted if particular data is required or for advice on how to achieve the most cost effective solution for specific performance targets.

WEATHERTIGHTNESS

Doors comply with the following performance standards when tested in accordance with:

EN 1026:2000 (air permeability)

EN 1027:2000 (watertightness)

EN 12211:2000 (wind resistance).

Air Permeability: Class 4 (600Pa)
in accordance with EN 12207:2000

Watertightness: Class 8A (600Pa)
in accordance with EN 12208:2000

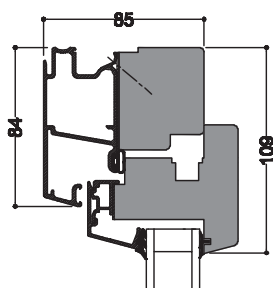
Wind Resistance: Class 3 (600Pa) Dynamic
(1200Pa) Static
(1800Pa) Impact
Frame Deflection C ($< 1/300$)
in accordance with EN 12210:2000

THERMAL INSULATION

Doors can be glazed to achieve whole window 'U' values as low as $1.06\text{W/m}^2\text{K}$ (calculated in accordance with EN ISO 10077-1 and 10077-2).

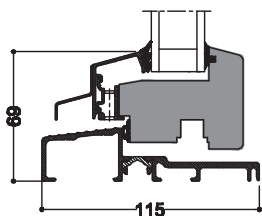
ACOUSTIC ATTENUATION

Double glazed doors can be specified to achieve sound reductions in a range of $31\text{dB}(R_w)$ to $44\text{dB}(R_w)$.



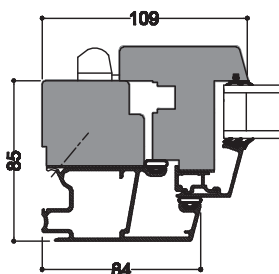
Head

Ref : DK122



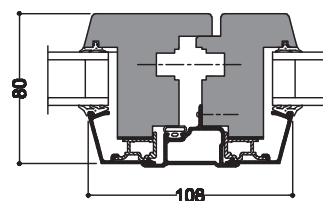
Sill

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Jamb

Ref : DK121a



Meeting Stile

Ref : DK124

Scale 1:4

SECURED BY DESIGN

Doors have been tested to comply with PAS24-1: 1999 enhanced security performance requirements for door assemblies.

IRONMONGERY

Doors are fitted with the latest high performance ironmongery including as standard:

Hinges: 'Otlav' Exacta adjustable bolt hinges

LEADING LEAF

Espagnolette: 'Siegenia Aubi' AGMK multipoint locking roller bolt

Friction stay: 'Garant' handle operated friction stay

Handle: 'Mila' 1005/1005A (satin anodised finish)

SLAVE LEAF

Flush bolts: 'Siegenia Aubi' flush bolts to slave leaf

Friction Stay: Siegenia SZ TS friction restrictor stay

A wide range of optional ironmongery items can be specified to address additional safety and security issues or methods of operation, style and finish.

INSTALLATION

Doors are supplied to site fully factory finished and glazed for installation into prepared openings. A comprehensive design and installation service is offered.

MAINTENANCE

Door maintenance is limited to periodic washing of external aluminium and glass surfaces with water containing a mild detergent and in the case of internal timber, cleaning with a damp cloth or polishing.

Ironmongery items are manufactured from corrosion resistant materials and require only annual inspection and lubrication of appropriate moving parts.

