

APPLICATION

For single or multi-storey buildings where cleaning and/or reglazing is to be carried out internally.

FUNCTION

Windows are secured by a concealed multipoint locking espagnolette bolt mechanism incorporating an integral handle operated friction stay with a variable hold open position up to 90°.

Concealed multipoint espagnolette locking provides superior closing tightness for weatherproofing and acoustic attenuation.

CONSTRUCTION

Composite construction combining extruded aluminium alloy profiles to BS1474: 1987 and close grained Upper Gulf Swedish Redwood, Class J10/J30 in accordance with BS EN 942: 1996. Other timber species available.

Timber frame and casement sections are precision machined and assembled with pinned and glued comb joints. Mullions and transoms are assembled with mortice and tenon 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.

Windows are fully weatherstripped with EPDM slot seals.

MANUFACTURE

All windows are purpose made to specification.

APPEARANCE

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

Natural and colour anodising also available in accordance with BS3987: 1991.

Timber is fully factory finished with a 2-coat spray applied water based clear lacquer, paint to NCS/RAL specification or a wide range of stain finishes. Specially formulated stain and paint colours can also be provided.



GLASS AND GLAZING

Windows are factory double or triple glazed to specification in accordance with BS6262: 1982 with 28mm or 36mm dual sealed units constructed to BS5713: 1979 and safety glazed where applicable in accordance with BS6206: 1981 and Building Regulation 2000 Approved Document N.

Windows are externally bead glazed employing a drained and ventilated glazing system with sealed units 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 INSIGHT system windows can be considered as genuinely high performance. Window size, glazing and other factors however directly affect performance levels.

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

WEATHERTIGHTNESS

Windows achieve the highest classification categories of BS6375-1: 2000 when tested in accordance with:

- BS EN 1026 - Air permeability
- BS EN 1027 - Watertightness
- BS EN 12211 - Resistance to wind load

THERMAL INSULATION

Windows can be glazed to achieve whole window 'U' values of less than 1.0W/m²K.

ACOUSTIC ATTENUATION

Double glazed windows can be specified to achieve sound reductions in a range of 31dB(R_w) to 42dB(R_w).

SECURED BY DESIGN

Windows have been tested to comply with BS7950: 1997 Specification for enhanced security performance.

IRONMONGERY

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

- Hinges:** 'Fiskars' M8 x 40 bolt hinges.
- Espagnolette:** 'Winkhaus' GP concealed multipoint locking roller bolt.
- Friction Stay:** 'Winkhaus' FBP handle operated hold open device.
- Restrictor:** 'Winkhaus' FSR elbow stay restrictor.
- Handle:** 'Hoppe' 013/013S - Satin anodised finish.

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

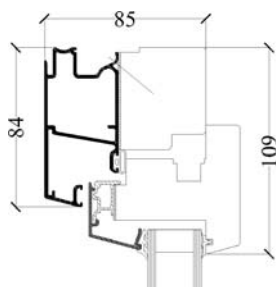
INSTALLATION

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

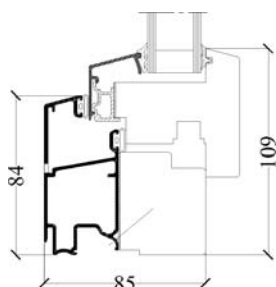
MAINTENANCE

Window 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.

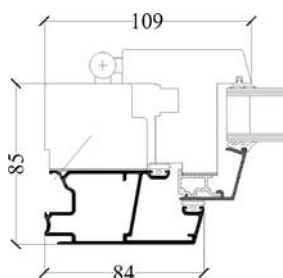
Ironmongery items are manufactured from corrosion resistant materials and require only annual inspection and lubrication of appropriate moving parts.



Head



Cill



Jamb

Scale 1:4