

# TSG45

## TOP HUNG PROJECTING WINDOW



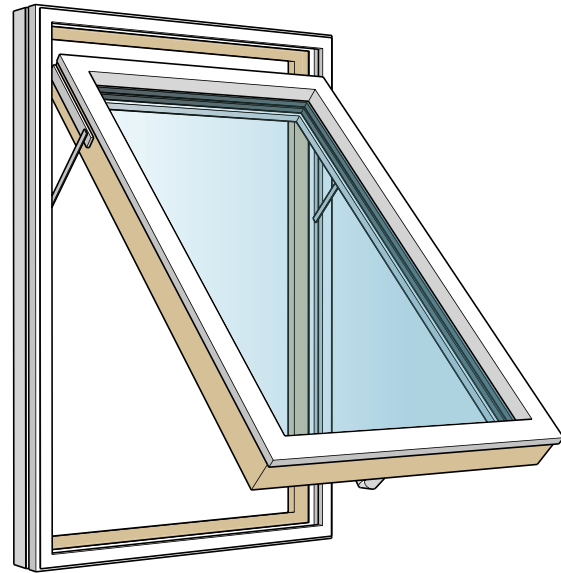
### APPLICATION

For single storey buildings or high level balcony locations where cleaning can be carried out from within the building and reglazing is to be carried out externally.

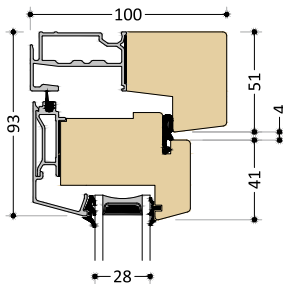
### FUNCTION

The window has a top hung open out action, the sash being hung on a pair of concealed friction hinges. An opening angle of up to 80° can be achieved to enable external surfaces to be cleaned from within the building (max safe reach 850mm).

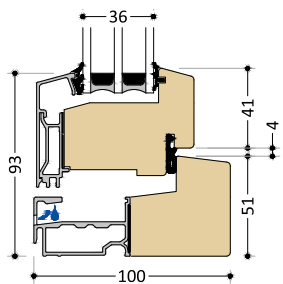
Concealed multipoint espagnolette locking provides superior closing tightness for weatherproofing and acoustic attenuation and offers a secure night ventilation position.



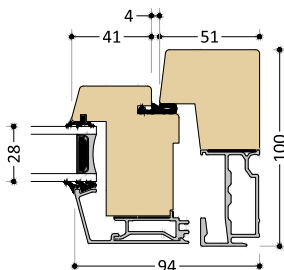
### HEAD



### CILL



### JAMB



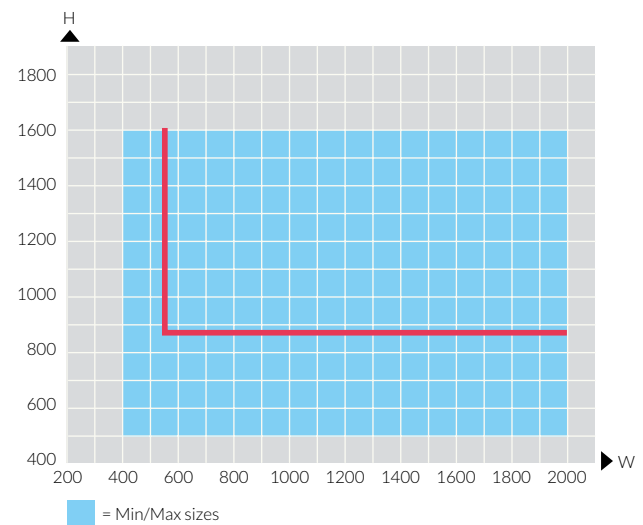
### IRONMONGERY

**Concealed Hinges:** Top hung projecting friction hinges.

**Espagnolette:** Concealed multipoint locking wedge bolts with night vent position receivers.

**Handle:** Satin anodised espagnolette handle.

A wide range of optional ironmongery items are available, please contact us for further information.



Note: Size limits also depend on the weight of the glazing. For further information please contact our Technical Department.

The red line on the above graph indicates the minimum frame sizes that will provide an unobstructed area of 0.33m<sup>2</sup> and at least 450mm high and 450mm wide, in order to satisfy the requirements of Approved Document B.

# THE SYSTEM STANDARDS

## CONSTRUCTION

Composite construction combining extruded aluminium alloy profiles to EN AW 6060-T6 and close grained, laminated North European Redwood, durability Class 3 as defined in BS EN 350. Other timber species can be specified.

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 or silicone slot seals.

## MANUFACTURE

All windows and doors are purpose made to specification in accordance with BS 644 : 2009 and EN 14351-1 : 2006.

## APPEARANCE

Aluminium profiles are chemically pre-treated and powder coated in any standard RAL colour in accordance with BS 6496 : 1984. Standard gloss level 75% +/- 5%. Other gloss levels can be specified.

Timber is fully factory finished with a two or three coat spray applied water based clear lacquer gloss level 35%, paint to NCS/ RAL specification gloss level 40% or a wide range of standard stain finishes gloss level 35%.

## GLASS AND GLAZING

Windows and doors are factory double or triple glazed to specification in accordance with BS 6262 : 1982 with 28mm, 36mm or 48mm dual sealed units constructed to EN 1279-2 : 2002 and safety glazed where applicable in accordance with BS 6206 : 1981 and Building Regulation 2000 Approved Document K.

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

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

## PERFORMANCE

All Westcoast products can be considered as genuinely high performance but frame size, glazing and other factors can, however, directly affect performance levels. Westcoast technical support staff should be consulted if particular data is required or for advice on how to achieve the most cost effective solution for specific performance targets.

## WEATHERTIGHTNESS

Products comply with the following minimum performance standards when tested in accordance with:

EN 1026 : 2000 (air permeability)  
EN 1027 : 2000 (watertightness)  
EN 12211 : 2000 (wind resistance)

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

Watertightness: 900 Pa (Class E900)  
In accordance with EN 12208 : 2000

Wind Resistance: 2000 Pa (Class A5)  
In accordance with EN 12210 : 2000

Exposure Category: 2000  
In accordance with BS 6375 : Part 1 : 2009

## THERMAL INSULATION

Products can be glazed to provide whole window 'U' values ranging from 1.4Wm<sup>2</sup>K to less than 0.8Wm<sup>2</sup>K in accordance with EN ISO 10077-2 : 2012.

## ACOUSTIC ATTENUATION

Double and triple glazed products can be specified to achieve tested sound reductions in a range from 31 to 48dB(Rw) in accordance with EN ISO 10140- 2 : 2012.

## SECURED BY DESIGN

All principle products have been tested to comply with PAS 24: 2016.

## FIRE RESISTANCE

A selection of fixed and opening lights are classified EI45 and EI<sub>2</sub>45 in accordance with EN 13501- 2 : 2007 + A1 : 2009 when tested to EN1364- 1 : 1999 and EN 1634- 1 : 2014 respectively.

## TESTING

A continuous programme of internal and 3rd party independent testing ensures that Westcoast products remain at the very forefront of fenestration technology.

## INSTALLATION

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

## MAINTENANCE

Maintenance is limited to periodic washing of external aluminium and glass surfaces with water containing a mild detergent. Internal timber should be cleaned with a damp cloth or polished.

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