



HP - 50

CASEMENT SYSTEM

ALUMEG

Integrated Façade Solutions



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CASEMENT SYSTEM HP 50 W&D

Windows & Doors

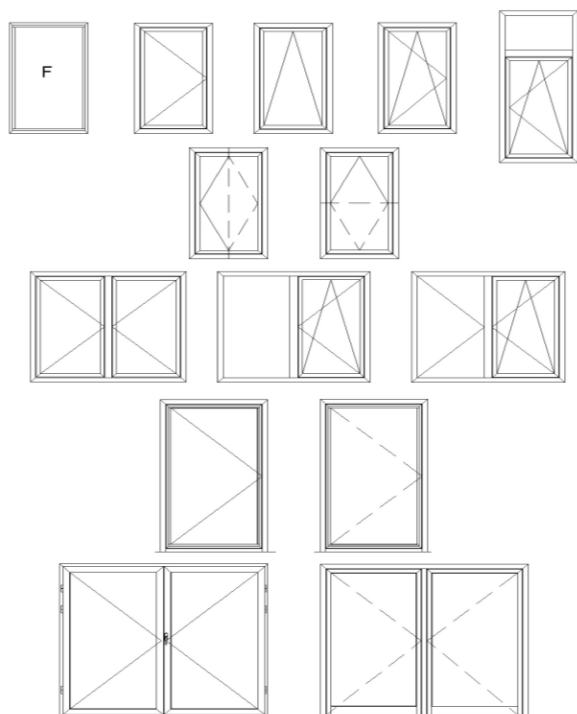
HP 50 W&D Window & Door System enables the construction of various window and door type configurations. The system consists of many of standard profiles, reinforced profile for extra strength, and any custom made profiles could be designed upon request.

System Description

HP 50 W&D is a fully drained & pressure equalized system, open in or open out, glazed from inside or outside consists of slim line frames, transoms & mullions. Three gaskets system allowing for superior tightness. Euro groove for unrestricted choice of hardware. Varies architrave and glazing bead designs to suit different styles.

Opening Configurations

Varies opening like fixed lights, side-top and bottom hung with butt hinges or friction hinges/stays, and turn and tilt. Double casement (French windows) open in or open out, vertically and horizontally pivoting windows are available within this systems. Doors could be single or double hinged, swing, automatic and full glass doors opening outward or inward.



Glazing Thickness

Casement system could be glazed from the inside or outside. Glass should conform the requirements of BS 6262 & ASTM E 1300-3 for thickness and type, in terms of wind resistance, safety and security.

Glazing thickness: 6: 28 mm

Drainage

The system is fully drained & pressure equalized, achieved by meeting the requirements of "Ventilated and drained glazing system" as specified in BS 6262

Thermal Insulation Performance

Thermal simulation according to **EN ISO 10077-2:2012** "Thermal performance of windows, doors and shutters - calculation of thermal transmittance. Part 2 Numerical method for frames" (U_w 3.3 W/m²K)

Sound Insulation Performance

Depending largely upon the glass specification, generally the window framing reduces the figure by 2 to 3 db(A) (a sound reduction of approx. 40 DBA can be achieved).

Materials

The system is constructed from extruded aluminium profiles, using alloy **6063** subject to **T5** thermal treatment, following **UNE EN – 573-1** standard. Profiles are extruded following the standard **UNE EN – 12020 & UNE EN – 755**.

Construction

Varies fabrication and installation methods using corner crimping or corner with internal claspings, 90° and 45° connection using variety of fitting sources such as Italian, Portages, Greece, and Turkish manufacturer. The system allows the adaptation of the **European Groove** fittings. All instructions regarding the manufacture and installation of the system must be strictly followed.

Weathering

Glazing vision strips are made of EPDM conforming to BS 4255 Part 1.

Technical Performance

The system can achieve the following criteria when manufactured, installed and glazed according to ALUMEG recommended procedures and fabrication manual.

System Classifications

- Air permeability: **Class 4**
Classification according to **UNE-EN 12207:2000**
Tested according to UNE-EN 1026:2000
- Water tightness: **Class 8A**
Classification according to **UNE-EN 12208:2000**
Tested according to UNE-EN 1027:2000
- Wind resistance: **Class C3**
Classification according to **UNE-EN 12210:2000**
Tested according to UNE-EN 12211:2000

Size limitations

Size limitation of the system depends on various parameters such as wind load, glazing thickness, leaf size and weight, and mullion/transom members used to suit the span.

- Sash overall weight Up to 80 kg
- Capacity depends on opening and hardware configuration
- Sash dimension limit (width) 1250 mm
- Sash dimension limit (height) 3000 mm