## Windows made from thermally broken steel profiles. JANSEN Janisol HI system

Design features:

The highly thermally insulated Janisol HI steel system consists of two cold-rolled steel half profiles and continuous, glass fibre-reinforced isolators. The high-quality insulating bar securely joins the half profiles together. It withstands the short-term temperature increases during welding without melting or burning. Proof of the shear bond in accordance with EN 14024 must be provided.

All corner and T-joints are securely welded together. The visible welds must be fully smoothed.

The face widths of the profiles (without end stops) are 25 mm, 30 mm and 50 mm.

Window vent flush-fitted on the outside with all-round external shadow groove of 5mm. Window vent face-fitted on the inside with inner and outer rebate weatherstrip and centre weatherstrip in the rebate. Controlled outward drainage of the vent rebate must be ensured.

Only tested fittings belonging to the system may be used. This is binding for compliance with the CE marking.

The infill units are installed on both sides with EPDM weatherstrips or packing tape and permanently elastic sealing compound.

The regulations of the glazing manufacturer must be observed.

A glazing bead is installed on one side of the infill units in the construction.

Wider sill rails or transoms are possible through the use of profile combinations in conjunction with flush-fitted, welded steel inserts and fill the cavities with suitable insulation.

Watertightness in accordance with EN 12208 up to E750

Wind load resistance in accordance with EN 12210 up to C5

Air permeability in accordance with EN 12207   up to class 4

Heat transfer coefficient in accordance with EN 10077-1 from 0.92 W/m2K

Sound reduction in accordance with EN ISO 10140-3   up to 46 dB

Profile basic depths:

Outer frame, mullion, transom 80 mm

Vent frame 90 mm

Profile face widths:

Outer frame, side and top 70 mm

Four-sided vent frame 40 mm

