## Doors 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 30 mm and 50 mm.

Door leaves flush-fitted on the inside and outside with all-round shadow joint 5 mm wide and double all-round rebate weatherstrip. Depending on the design, with one or two weatherstrips in the threshold area.

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 class 6A

Wind load resistance in accordance with EN 12210 up to C4

Air permeability in accordance with EN 12207   up to class 4

Heat transfer coefficient in accordance with EN 10077-1 from 0.90 W/m2K

Sound reduction in accordance with EN ISO 140-3   up to 45 dB

Resistance to repeated opening and closing in accordance with EN 12400 up to class 8

Burglar resistance in accordance with EN 1627   up to RC3

Strength requirements in accordance with EN 1192 up to class 4

Profile basic depths:

Outer frame, mullion, transom 80 mm

Leaf frame 80 mm

Profile face widths:

Outer frame, side and top 45 mm

Leaf frame, sill 90 mm

Three-sided leaf frame 90 mm

