
Swiss – Wall – System

Patent pending

**The self-supporting wall
for system housing**



from 2 x *Homogen 40* panels

SWS wall-system performance description

System

The Swiss Wall System is a newly-developed, patented wall element for system housing, which is transported in small units and installed quickly and easily without hoisting equipment. It enables all kinds of structures to be produced, from emergency accommodation to the most elegant villas.

Outside and inside walls consist of the same elements and are connected as static sections over 1, 2 or more storeys.

A cavity of 65/30 mm is provided inside the element for the installation lines. The elements are connected on all sides by a rebate of 40/40 mm, secured with a special glue (1K adhesive PU4193F) and 70/6 mm self-countersinking headless screws.

No preliminary work is necessary before installation. All installation materials can be supplied with the system.

Grid/dimensions/installation

The elements are placed in a grid of 34 or 68 cm, with standard widths available of 34 and 68 cm. The element thickness is 8 cm. The lengths of the standard elements are 260, 280 or 300 cm.

The elements can be mounted horizontally and vertically, cut in length (for windows and doorways) and in width (for adaptations of wall widths) with a hand miller or keyhole saw. A 40/40 mm wooden square is screwed to the cut edges if necessary, with addition of glue to permit any adaptation.

Weights/insulation value

The weight of a standard element of 260 x 68 x 8 cm is 85 kg and it can be lifted and installed by 2 people. The insulation value of the 8 cm wall is 0.85 W/m²K.

Delivery unit

The package size with 10 elements are tied with 3 straps and wound weatherproof in PVC film. One pack of 10 elements 64 cm wide has a weight of approx. 880 kg.

Raw material

Waterproof homogeneous panels of 2 x 40 mm wall thickness glued with PH are combined for the SWS elements. Vapour diffusion is ensured through the element.

Installation panel/floors/roof

A concrete slab and also a wooden floor can be provided for installing the walls. The intermediate floors are produced with a joist frame system or self-supporting elements.

The roof can be designed as flat or gabled roof.

Insulation/façade

External insulation in outside wall elements by screwing or gluing in any desired thickness and form. The façade can be installed with façade panels or wooden sheathing with rear ventilation.

Insulating panels glued to the façade and provided with external rendering are also possible. Any external façade is possible in principle.

Interior walls

The inside walls are similar to the outside walls and can be painted, papered or tiled to ensure absolute freedom from cracks.