

Thermosafe100

Certified passive house door


 EN 14351-1

- for covering coating
- translucent surfaces in many types of wood

Tested accord. to DIN EN 1121

 Test climate **c, d, e** from 68 mm class 3 (c), 3 (d), 3 (e)

acc. to DIN EN 12219:2000-06

Burglar resistance RC2/RC3, external door acc. to EN 14351-1

Custom-made

1. Wing frame

- **Lock side:** lamellas in type of wood / colour matching the covering layer, width approx. 45 mm, glued to inner frame
- **Hinge side:** flawless glulam timber concealed edge band, finger jointed, type of wood as lock side Holzart wie Schlossseite
- **Above:** 100 mm flawless glulam timber concealed edge band, type of wood as lock side
- **Below:** 100 mm glulam timber concealed edge band acc. to factory's choice

2. Covering layers (see page 22 „Plywood covering layers“ data sheet no 515)
 Plywood Exterior glued acc. To DIN EN 314-class 3, MDF-Exterior with thicknesses of 3 und 6 mm. **Water-repellent treatment of the MDF with VARIOTEC Protekt, data sheet no. 471.**
 HPL-coating acc. to Exterior collection.

3. FKV technology (Fibre-plastic composite) as a metal-free reinforcement.

Thermal insulation PURconstruction core, free of CFC.

Door thickness in mm	100	* 2200 x 1100 mm (without cutouts)
Element value U_D in $W/(m^2K)^*$	0,62	
Panel value U_P in $W/(m^2K)^{**}$	0,59	** 2138 x 992 mm (without cutouts)
Sound insulation R_w „standard design“	30	

4. ASS stabilization layers on both sides, as vapour barrier, stiff against shearing and tension.

5. Core insulation

PUR construction core, free of CFC, construction biologically tested, recyclable. Jointless and non-positive directly foamed and thus **without thermal bridges**.

6. Internal reinforcement (insert)

Standard: **MFP** (multifunction panel) as a reinforcement for cutouts or as a basis for glazing beads, false edges and glazing beads on both sides. Option: Insert in **plywood** or **MDF** for glazing beads on one side.

PUR gluing of the whole construction.

Passive house certified elements:

Size of blind frame:	2200 x 1100 mm (Zulassungsformat)
Thickness of the door blank:	100 mm
Wood type of the frame:	Kiefer, Fichte, Lärche, Eiche,
Blind frame:	95 x 95 mm Massivholz
Air tightness:	$V \leq 1,3 \text{ m}^3/(\text{hm}) \leq 2,25 \text{ m}^3/(\text{hm})$ bei 100 Pa

Any glazing with an U_g -Wert of $0,70 \text{ W}/(\text{m}^2\text{K})$ must not exceed a size of $0,25 \text{ m}^2$.

The functionality, withstand capability, weathering qualities of the surfaces, and all the other characteristics which can be expected of an entry door, depend on the adherence of technical guidelines, coatings on dimensionally stable external parts made of wood, especially on windows and outside doors. Leaflet no. 18 and VOB (German Construction Contract Procedures) part A 10.3 as well as the RAL quality and test requirements for the construction of wooden entry doors RAL GZ 996. The application recommendations for external building elements from the ift-Rosenheim and VFF-Frankfurt am Main, as well as the guidelines of the EN 14351-1:2006+A1:2010 have imperatively to be maintained.

