

# Ultrahaus-Effizienzhaus

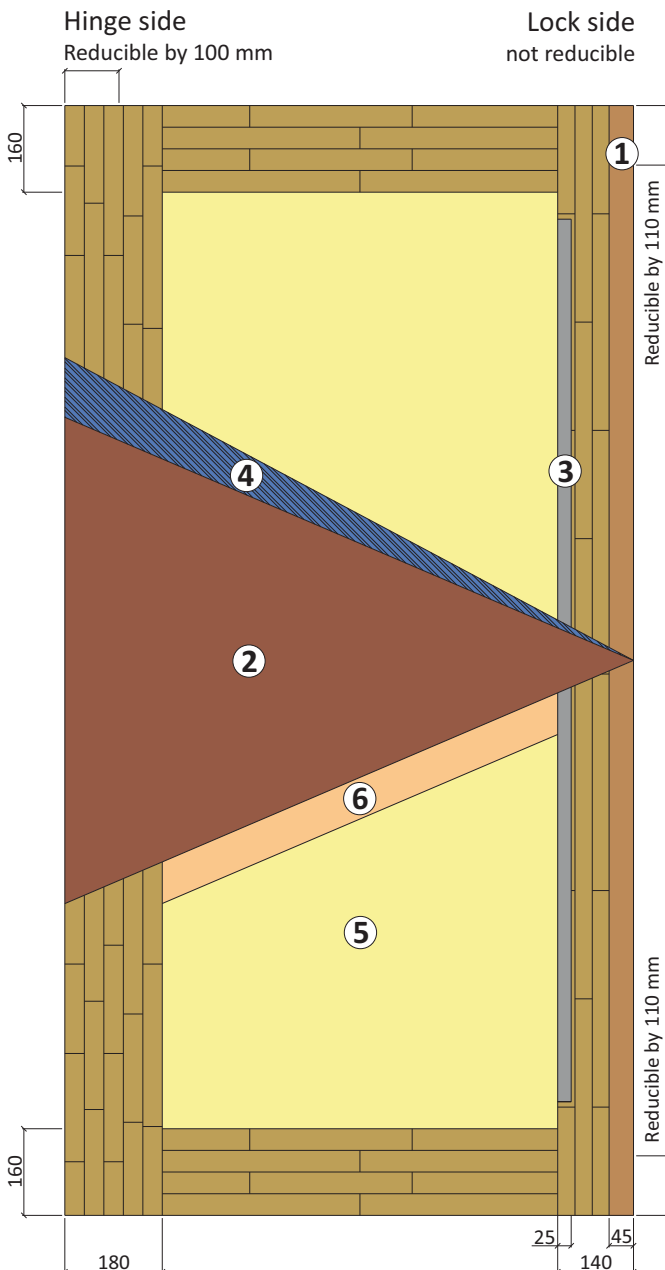
## KfW 55-135 in the thicknesses: 78-90 mm

- translucent surfaces in plenty types of wood
- for covering coating
- sound insulation

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

**Standard sizes:**  
 2150 / 2250 x 950 mm  
 2150 / 2250 x 1050 mm  
 2150 / 2250 x 1150 mm

**Reducible to:**  
 1930 / 2030 x 850  
 1930 / 2030 x 950  
 1930 / 2030 x 1050



### 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 as reduction area, type of wood as lock side
- **Above:** 160 mm flawless glulam timber concealed edge band as reduction area, type of wood as lock side
- **Below:** 160 mm glulam timber concealed edge band according to factory's choice

**2. Covering layers** (see at page 22 „Plywood covering layers“ data sheet no. 515)  
 Plywood Exterior glued according to DIN EN 314, class 3, MDF-Exterior with a thickness of 3 mm. **Water-repellent treatment of MDF with VARIOTEC Protekt, data sheet no. 471.** HPL wating acc. to Exterior collection.

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

**Thermal insulation** PUR construction core, free of CFC.

Door thicknesses in mm	$U_p$ -W/(m <sup>2</sup> K)	Wood types
78	0,84 W/(m <sup>2</sup> K)	pine, spruce,
85	0,77 W/(m <sup>2</sup> K)	larch, oak,
90	0,73 W/(m <sup>2</sup> K)	meranti

*U<sub>p</sub>-value for size 2250 x 1050 mm*

**4. ASS** Stabilisation layers on both sides as vapour barrier gluing 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.

**Reducible** in heig by 220 mm (minimum width of the glulam timber concealed edge band 50 mm), from case to case reducible in width by 100 mm only on the **hinge side**. Please take into account ground seal + rabbet design before reducing.

### Internal measurements for cutouts/10 mm reserve per side

- with width 950 : 610 mm
- with width 1050 : 710 mm
- with width 1150 : 810 mm

### PUR gluing of he whole construction.

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 guidlines of the EN 14351-1:2006+A1:2010 have imperatively to be maintained.

