

Inspected and certified values

For your safety

Technical data

	PU 40	PU 60	PU 80	PU 100	PU 120	PU 140	PU 150	PU 170	PU 200	PU 220
panel thickness mm	40	60	80	100	120	140	150	170	200	220
U-value (W/m ² K)	0,58	0,39	0,30	0,24	0,20	0,17	0,16	0,14	0,12	0,11
self-weight (kN/m ²)	0,108	0,116	0,124	0,132	0,140	0,148	0,151	0,159	0,171	0,179

Basis of calculation:

Surface exterior side 0,6mm lined, interior side 0,5mm lined (LL), WLG 025 acc. to DIN 4108

Surface:	hot dip galvanised steel belt for additional belt coating systems
Steel thickness:	exterior side 0,6mm; interior side 0,5mm (please contact us for other nominal thicknesses)
Fluting:	exterior side lined, profile depth approx. 1mm (flat surface with steel \geq 0,6mm on request) interior side lined, profile depth approx. 1mm (flat surface with steel \geq 0,6mm on request)
Coating:	exterior side PLADUR® SP 25µm, double-layer-stove-enamel finish in industrial colours with protective film interior side PLADUR® SP 25µm, double-layer-stove-enamel finish similar RAL 9002 without protective film For further coating-systems and colours please see on page 5.
Insulating core:	polyurethan hardfoam, blowing agent CFC- and HCFC-free
Sealing:	double tongue-and groove connection which forms a constructive labyrinth sealing (from PU 60 and thicker) without additional sealing components.
Options:	HKP (joint finish) to achieve a smooth joint surface (one or both sides) ems® Elast factory-made or applied on site for special applications (e.g. gas tightness).



Physical building characteristics

Thermal insulation:	thermal conductivity acc. to DIN 4108: $\lambda R=0,025W/mk$
Fire protection:	building material class B1 - low inflammability - acc. to DIN 4102-1
Sound protection:	evaluated sound insulation coefficient for all panel thicknesses $R'_w \geq 26$ dB
Impermeability:	joint permeability coefficient $a \leq 0,1 \text{ m}^3 / (\text{hm} (10 \text{ Pa})^{2/3})$ acc. to DIN EN 42
Statics:	drivin rain tightness acc. to DIN EN 86 span list on request



Approval and quality assurance

General building approval: Z-10.4-254 of DIBt, Berlin. Several approvals from foreign bodies. Quality standards correspond with the determinations of the building approval (DIBt) and the quality and testing regulations RAL GZ-617 (GBS).

The approved production is guaranteed by our own factory production controls and additional external quality control by the Research Centre for Steel, Wood and Stones of the Technical University of Karlsruhe (Germany).



European harmonization

In connection with the introduction of the EN 14509 ThyssenKrupp Bausysteme GmbH is a member of the EPAQ, European Quality Assurance Association for Panels and Profiles.

In cooperation with independent institutes the quality criterions here are guaranteed for the improved customer protection.