

The distinctive TRCore, for our clear-PEP[®] panels, is manufactured on our specially designed and patented core expander. The innovative characteristic of the open cell structure gives the lightweight panels not just a unique depth but also an extremely high rigidity.

The various types of panel in the clear-PEP[®] family differ in their facing sheet materials, cores, surface structures, physical properties, dimensions and colours.



Product description

Facing sheet on both sides	Transparent polycarbonate
Core	PC - TRCore honeycomb

Properties

- innovative translucent optics
- unique 3D effects and light scattering
- excellent UV stability and resistance to weathering
- low weight
- easy processing
- compatibility with common mounting systems
- excellent rigidity
- high impact strength

Dimensions

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	3020	1220	19
Special dimensions ^{1;2}	max. 7800	max. 2450	max. 80

¹ all panels over 3020 x 1500mm with core joint

² on request – minimum order per special size: 200m²

Tolerances	Length [mm]	Width [mm]	Thickness [mm]
Cut to size	+2/-2	+1/-2	+0/-1

General physical properties

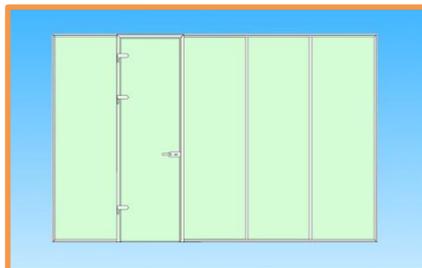
Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class			G-Value (total energy transmission value)			
		DIN 4102-1	BS 476 Part 7	EN 13501	Solar angle			
[1/K]	[°C]				0°	30°	45°	60°
$6,5 \times 10^{-5}$	-30 bis +80		1Y	B s 1 d0	0,62	0,58	0,55	0,43

Thickness [mm]	Weight per unit area [kg/m ²]	Thermal insulation U-value [W/m ² K]	Sound insulation Rw [dB]	Bending stiffness* [Nm ²]
16	8,5	2,8	24	478
19	8,5	2,7	24	629
30	9,7	2,4	25	1688
40	9,7	2,1	25	2933
60	10,9	1,7	26	3280
80	10,9	1,4	26	5973

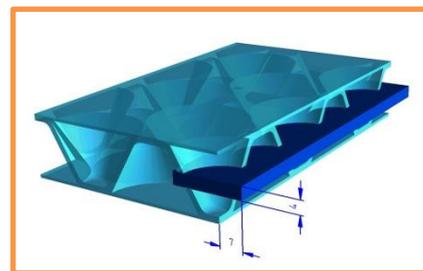
* per m panel width

Mounting systems for all clear-PEP[®] panels

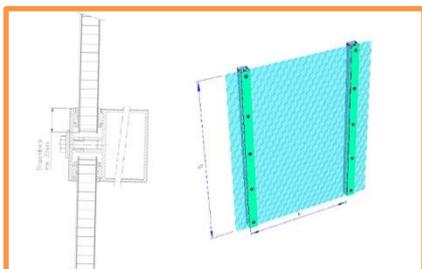
Profile system for dividing walls



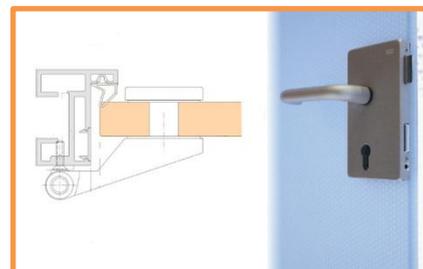
Tongue and groove joint



Profile system for glazing



Furniture for hinged doors



All these specifications are based on our most up-to-date information but are subject to changes at any time.

A legally binding assurance of certain properties or the suitability of an individual type for a specific field of application cannot be assumed from these specifications.