

The distinctive TRCore, for our clear-PEP[®] panels, is manufactured on our specially designed and patented core expander. The innovative characteristic of the open 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	PMMA satin
Core	PC - TRCore honeycomb

*Standard colour: opal, grey; other colours on request

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

Dimensions

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	3020	1000	19
Special dimensions ^{1;2}	max. 3020	max. 2020	max. 80

¹ all panels over 3020 x 1500mm with core joint

² on request – minimum order per special size: 25 panels

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

General physical properties

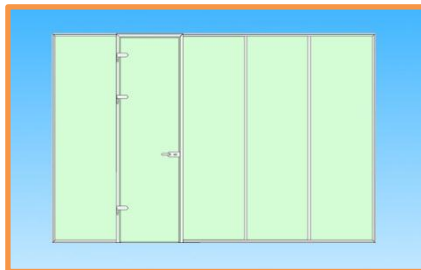
Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class		
[1/K]	[°C]	DIN 4102-1	BS 476 Part 7	EN 13501
7×10^{-5}	-30 bis +80	B2		

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	10,8	2,9	26	597
19	10,8	2,8	26	829
30	12,0	2,4	27	1800
40	12,0	2,1	27	3200
60	13,2	1,7	28	3750
80	13,2	1,4	28	6400

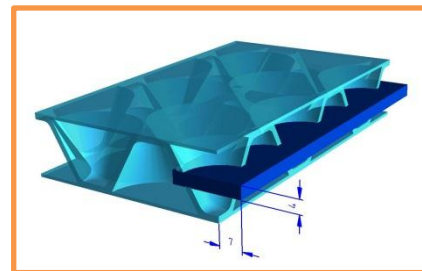
* per m panel width

Mounting systems for all clear-PEP[®] panels

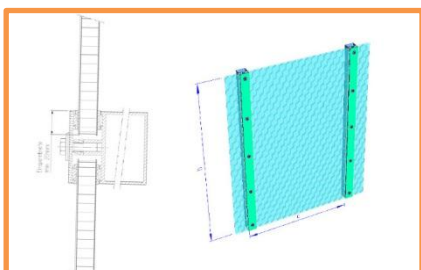
Profile system for dividing walls



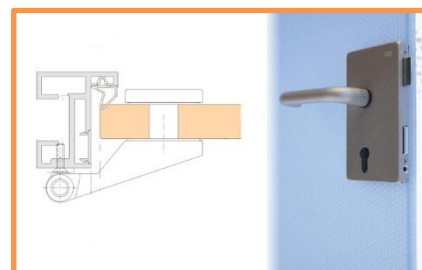
Tongue and groove joint



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.