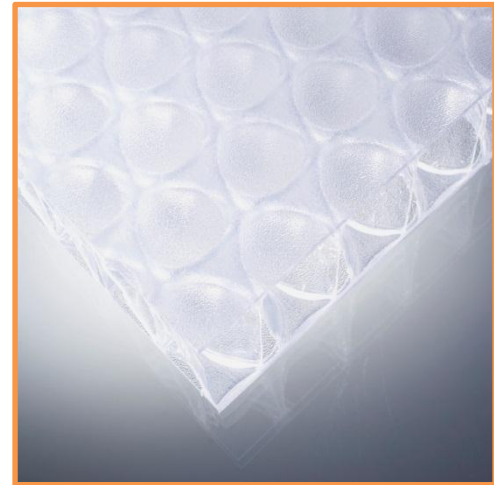


clear-PEP[®] UV PC stage

As at: 01.01.2014

The distinctive TRlcore, 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 2 mm UV resistant PC-facing sheets with a structured surface on both sides give the panels a translucent appearance and a slip reduced character. It can be used as backlit or as suspended flooring.



Product description

Facing sheet on both sides	Transparent structured polycarbonate
Core	PC - TRlcore honeycomb

Properties

- innovative translucent optics
- unique 3D effects and light scattering
- highly scratch resistant and slip reduced surface
- excellent UV stability and resistance to weathering
- low weight
- easy processing
- compatibility with common mounting systems
- excellent rigidity
- high impact strength
- slip reduction class R9 according to DIN 51130

Dimensions

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	2000	1000	40
Special dimensions ^{1;2}	max. 7800	max. 1420	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		
[1/K]	[°C]	DIN 4102-1	BS 476 Part 7	EN 13501
6,5 x 10 ⁻⁵	-30 bis +80		2Y	Bfl s1

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]
30	9,7	2,4	25	1688
40	9,7	2,1	25	2933

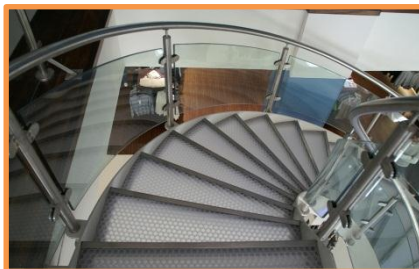
* per m panel width

Load values

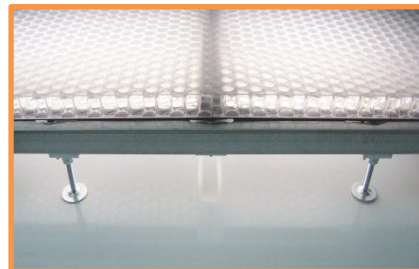
Thickness in mm	Support centers 500mm			Support centers 750mm			Support centers 1000mm		
	30	40	50	30	40	50	30	40	50
Deflection in mm, Support on 2 sides									
Applied load 2500 N/m ²	1,0	0,6	0,4	4,7	2,6	1,7	14,5	8,1	5,1
Applied load 3500 N/m ²	1,4	0,8	0,5	6,6	3,7	2,4	-	11,3	7,2
Applied load 5000 N/m ²	2,0	1,1	0,8	9,4	5,3	3,4	-	-	-
Deflection in mm, Support on 4 sides									
Applied load 2500 N/m ²	0,6	0,5	0,2	1,9	1,1	0,7	4,3	2,5	1,6
Applied load 3500 N/m ²	0,8	0,5	0,3	2,6	1,5	2,0	6,0	3,4	2,3
Applied load 5000 N/m ²	1,2	0,7	0,5	3,8	2,2	1,5	8,6	4,9	3,3

Examples of use

Stair treads



Illuminated and raised flooring



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.