

# clear-PEP<sup>®</sup> ECO PC stage



## PRODUCT DESCRIPTION

**Facing sheet on both sides:** Transparent structured polycarbonate with sustainable raw material content



**Core:** PC-TRCore honeycomb



The distinctive TRCore for our clear-PEP<sup>®</sup> 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 and suspended flooring.

PC ECO is a top layer with a biocircular material content and a low CO2 footprint. This means that the part of the material that is normally made from fossil components is replaced by renewable raw materials. The attributed sustainable share is up to 83% of the total content.

## PROPERTIES

- **Top layer up to 83% sustainable raw material content**
- innovative translucent optics
- unique 3D effects and light scattering
- highly scratch resistant and slip reduced surface
- excellent UV stability
- low weight
- easy processing
- compatibility with common mounting systems
- excellent rigidity
- high impact strength
- slip reduction class R9 according to DIN 51130



# clear-PEP<sup>®</sup> ECO PC stage



## DIMENSIONS

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	2000	1000	40
Special dimensions *	max. 3000	max. 1220	40

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

\*on request - minimum order per special size: 200 m<sup>2</sup>

## GENERAL PHYSICAL PROPERTIES

Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class	
[1/K]	[°C]	BS	EN
6,5 x 10 <sup>-5</sup>	-30 to +80	476 Part 7	13501
		2Y	Bfl s1

## MECHANICAL PROPERTIES

Thickness [mm]	Weight per unit area [kg/m <sup>2</sup> ]	Thermal insulation U-value [W/m <sup>2</sup> K]	Sound insulation Rw [dB]	Bending stiffness* [Nm <sup>2</sup> ]
30	9,7	2,4	25	1688
40	9,7	2,1	25	2933

\*per 1 m panel width



# clear-PEP<sup>®</sup> ECO PC stage



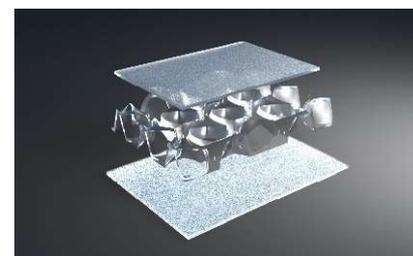
## LOAD VALUES

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

## APPLICATIONS



customized application according to our mission



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. All information is provided without any obligation. No legal liability can be assumed.

