

# AIR-board® ECO PC clear



## PRODUCT DESCRIPTION

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



**Core:** PC honeycomb

- AIR-board® ECO PC clear (cell diameter 7 mm)
- big AIR-board® ECO PC clear (cell diameter 12 mm)
- chaos AIR-board® ECO PC clear (cell diameter 4/7/12 mm)



Our unique bonding technology enables us to combine a translucent honeycomb core with transparent thermoplastic top sheets resulting in a panel with exceptional optical features.

The various types of panels in the AIR-board® family differ in their facing sheet materials, cores, surface structures, physical properties, dimensions, and colours.

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

## DIMENSIONS

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	3020	1220	19
Special dimensions*			
AIR-board® ECO PC clear	max. 3500	max. 1500	max. 30
big AIR-board® ECO PC clear	max. 3020	max. 1300	max. 30
chaos AIR-board® ECO PC clear	max. 3020	max. 1300	max. 30
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>



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## GENERAL PHYSICAL PROPERTIES

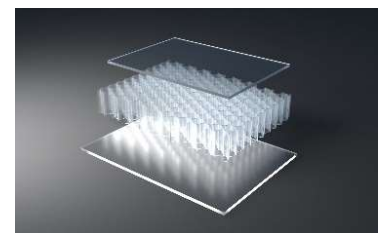
Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class for AIR-board UV PC		G-Value (total energy transmission value)			
[1/K]	[°C]	BS	EN	Solar angle			
6,5 x 10 <sup>-5</sup>	-30 to +80	476 Part 7	13501	0°	30°	45°	60°
		1Y	B s2 d0	0,72	0,67	0,61	0,52

## 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> ]
19	5,9	2,4	21	532
30	6,6	1,7	23	1688

\*per 1 m panel width

## 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.

