

AIR-board® series

Common properties

- innovative translucent optics
- excellent light transmission
- outstanding thermal insulation
- easy to handle and process
- flat applications only
- light weight



AIR-board®

Highly transparent thermoplastic top sheets

Special properties

- high impact resistance
- excellent bending strength
- large variety of dimensions
- compatible with standard profile systems
- only for interior applications



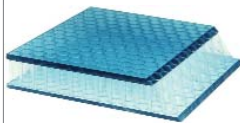
AIR-board® UV

This panel with its unique optic has a wide variety of outdoor application possibilities due to special top sheets.

Highly transparent UV-protected thermoplastic top sheets.

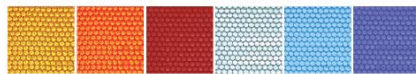
Special properties

- excellent UV and weather resistance
- high impact and hail resistance
- easy to install
- compatible with standard profile systems
- large variety of dimensions



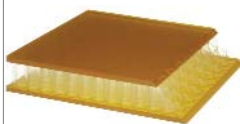
AIR-board® color

Translucent, colored acrylic top sheets available in



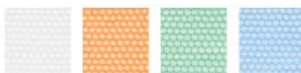
Special properties

- unique light scattering
- excellent stiffness
- interior and exterior applications
- both sides usable
- physiological unobjectionable



AIR-board® satin

Translucent, satin colored acrylic top sheets available in



Special properties

- outstanding light scattering
- velvety scratch resistant top surface
- no visible fingerprints and pleasant haptics
- excellent stiffness
- interior and exterior applications
- both sides usable
- physiological unobjectionable

AIR-board® series

Applications of AIR-board® panels



architecture
design elements
exhibition booths
shop design
stage setting
interior design
displays
illuminated advertising
dispenser
point-of-Sales
décor items

shelves
luminaries
illuminated ceilings
furniture
partitions
sliding doors
raised floors
balustrade glazing
facades
canopies
...and many more!

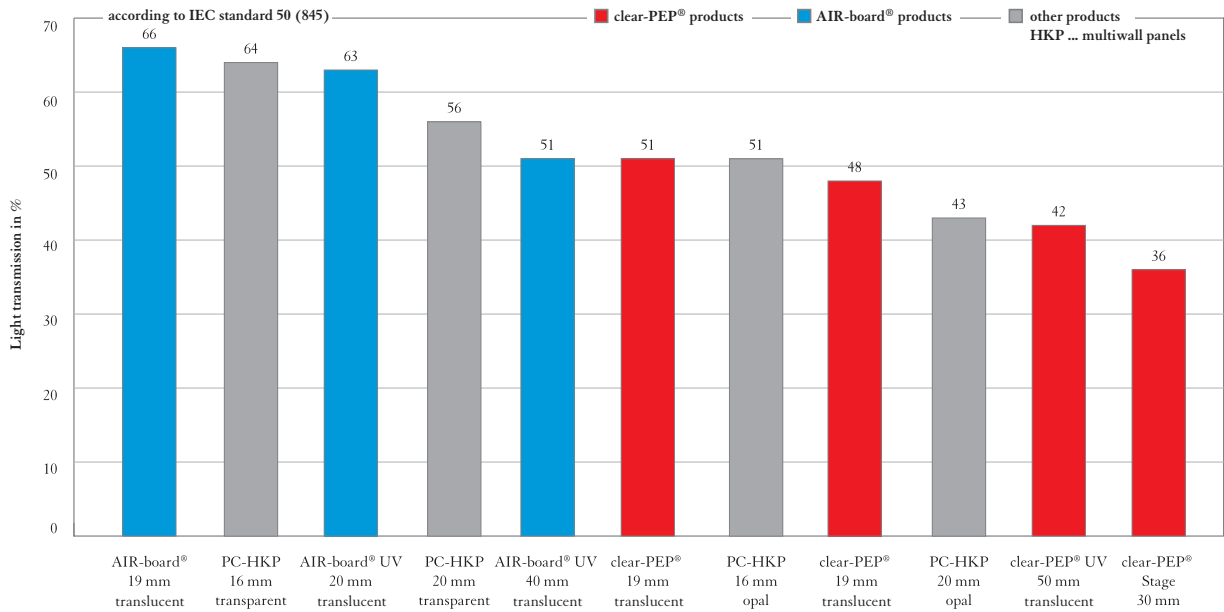
The range of applications for AIR-board® panels is almost unlimited and we are constantly developing new solutions together with our customers.



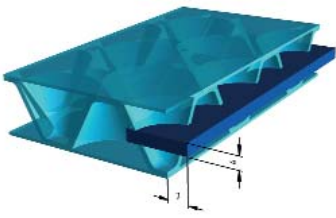
AIR-board® series

Light transmission

Comparison of PC multiwall sheets (in short PC-HKP) with **AIR®-board** and **AIR®-board UV**

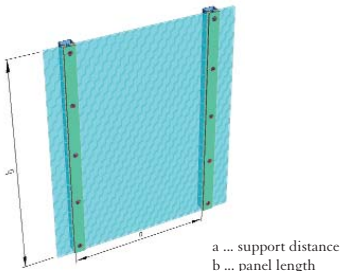


Installation systems for all AIR-board® panels



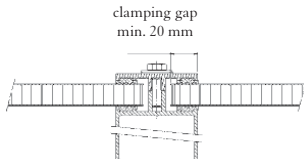
Visible clamping profile system
This installation system is specially designed for standard aluminium exhibition booth profiles.

Suitable for interior applications



Visible clamping profile systems
This system is designed for standard clamping systems.

Suitable for exterior applications



clamping gap
min. 20 mm

AIR-board® series

Dimensions, mechanical and physical data

	Standard			Special max. *			Tolerances			Fire class	Coefficient of thermal expansion (1/K)	Service temperature (°C)
	Length (mm)	Width (mm)	Thickness (mm)	Length (mm)	Width (mm)	Thickness (mm)	Length (mm)	Width (mm)	Thickness (mm)			
AIR-board®	2550	1050	12/16/19	6020	1200	80	+/-10**	+/-10**	+0/-1	B1', 1Y'	6,5x10 ⁻⁵	-30 bis +80
AIR-board® UV	2900	1200	20	6020	2020	80	+2/-2	+1/-2	+0/-1	B1', 1Y'	6,5x10 ⁻⁵	-30 bis +80
AIR-board® color	2900	1000	19	3020	2010	80	+2/-2	+1/-2	+/-10%	B2'	7x10 ⁻⁵	-30 bis +80
AIR-board® satin	2900	1000	19	3020	2010	80	+2/-2	+1/-2	+/-10%	B2'	7x10 ⁻⁵	-30 bis +80

* with core joint – minimum order quantity per special dimension: 200 m²

** untrimmed

	Weight per unit area (kg/m ²)								Thermal insulation U-value (W/m ² K)								Sound insulation Rw (dB)										
	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm
AIR-board®	3,1	3,4	3,6	-	4,0	4,4	5,1	5,8	-	2,9	2,5	2,2	-	1,8	1,6	1,3	1,0	-	19	19	19	-	19	20	20	20	-
AIR-board® UV	-	5,6	-	5,9	6,3	6,6	7,3	8,0	10,1	-	2,6	-	2,2	1,9	1,6	1,3	1,1	0,7	-	21	-	21	21	22	22	22	23
AIR-board® color	-	-	8,0	-	8,4	8,8	9,5	10,2	12,3	-	-	2,4	-	2,0	1,7	1,3	1,1	0,7	-	-	23	-	23	23	24	24	25
AIR-board® satin	-	-	8,0	-	8,4	8,8	9,5	10,2	12,3	-	-	2,4	-	2,0	1,7	1,3	1,1	0,7	-	-	23	-	23	23	24	24	25

	Modulus of elasticity (N/mm ²)								Bending strength (N/mm ²) *								Bending stiffness (Nm ² /m)										
	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm	12 mm	16 mm	19 mm	20 mm	25 mm	30 mm	40 mm	50 mm	80 mm
AIR-board®	1000	780	670	-	510	430	330	260	-	7	6	5	-	4	3	2	2	-	144	266	383	-	664	968	1760	2708	-
AIR-board® UV	-	1300	-	1100	890	750	560	450	260	-	5	-	4	4	3	2	2	1	-	444	-	733	1159	1688	2987	4688	11093
AIR-board® color	-	-	1250	-	900	760	570	460	270	-	-	5	-	3	3	2	2	1	-	-	714	-	1172	1710	3040	4792	11520
AIR-board® satin	-	-	1250	-	900	760	570	460	270	-	-	5	-	3	3	2	2	1	-	-	714	-	1172	1710	3040	4792	11520

* Values determined with the three-point bending test according to ISO 178: test sample width 80 mm / support distance 250 mm

	TSET-value (total solar energy transmittance)			
	0° *	30° *	45° *	60° *
AIR-board® UV 20	0,72	0,67	0,61	0,52

* Sun elevation angle

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Maximum support distances

for **AIR-board® UV**, **AIR-board® color** and **AIR-board® satin**

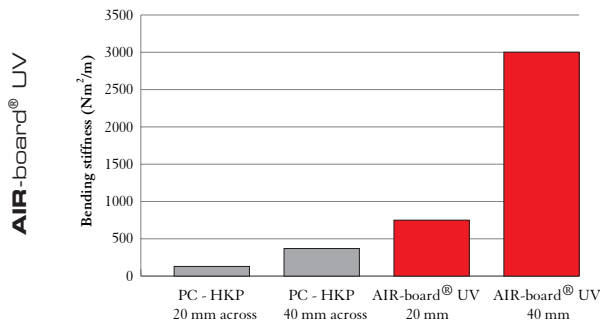
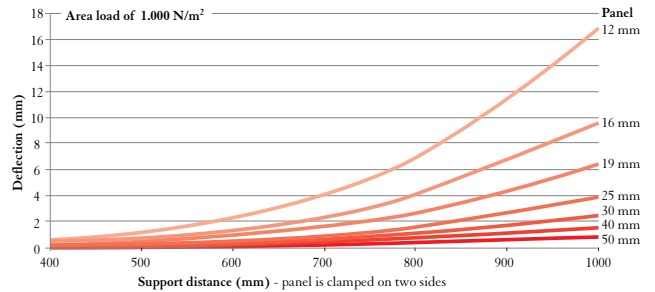
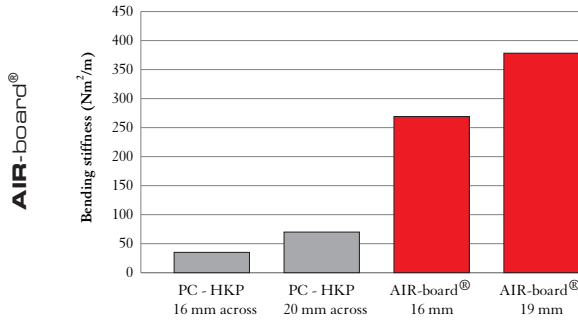
	Load in N/m ²									
	600	800	1000	1200	1400	1600	1800	2000	2500	3000
AIR-board® UV										
16 mm	1620	1480	1390	1230	1270	-	-	-	-	-
20 mm	1860	1720	1620	1530	1460	1410	1360	-	-	-
25 mm	2000	1980	1860	1760	1680	1620	1560	1520	-	-
30 mm	2000	2000	2000	1970	1880	1820	1760	1710	-	-
40 mm	2000	2000	2000	2000	2000	2000	2000	2000	1910	-
50 mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
80 mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
AIR-board® color AIR-board® satin										
19 mm	2000	1980	1860	1760	1680	1620	1570	-	-	-
25 mm	2000	2000	2000	2000	2000	1940	1870	1820	-	-
30 mm	2000	2000	2000	2000	2000	2000	2000	2000	-	-
40 mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
50 mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
80 mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

- data in mm
- calculated values based on the assumption of two sides clamped and safety factor 1.5
- load capacity values include the maximum force and the corresponding panel weight per m²
- minimum of 20 mm clamped on two sides
- 2000 mm - maximum support distance depending on available top layers

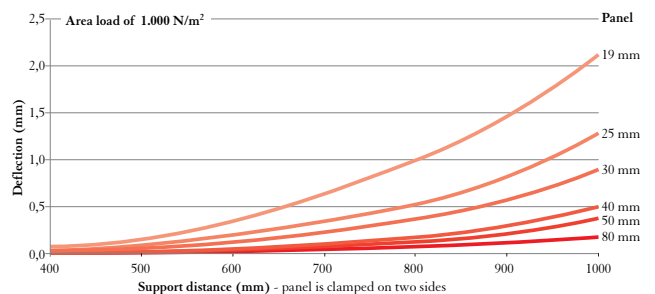
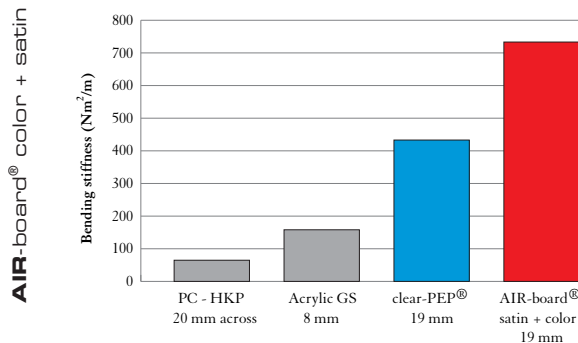
All statements and data correspond with our current know-how and are subject to changes. Though a legally binding assurance of certain characteristics or suitability of any product type for a special purpose can not be derived. Any indication is only a non-binding recommendation. Subject to changes.

AIR-board® series

Details on load – deflection and bending stiffness



Please refer to the table on the left page for further details on load capacity of **AIR-board® UV**.



The diagrams clearly show the essentially higher stiffness of AIR-board® products assessed with other comparable products.
PC-HKP = PC-multiwall panel.