

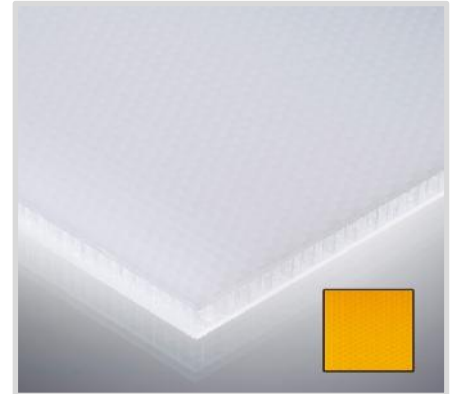
## PRODUCT DESCRIPTION

Facing sheet on both sides: PMMA satin\*

Core: PC honeycomb

- AIR-board® UV satin (cell diameter 7mm)
- big AIR-board® UV satin (cell diameter 12mm)
- chaos AIR-board® UV satin (cell diameter 4/7/12mm)

\*standard colour: AIR-board® UV satin : opal; chaos AIR-board® UV satin : clear ; other colours on request



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

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

## PROPERTIES

- innovative translucent optics
- unique 3D effects and light scattering
- excellent UV stability
- high light transmission with optimum privacy
- 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*    |             |            |                |
| AIR-board® UV PC       | max. 3020   | max. 1500  | max. 30        |
| big AIR-board® UV PC   | max. 3020   | max. 1300  | max. 30        |
| chaos AIR-board® UV PC | max. 3020   | max. 1300  | max. 30        |
| Tolerances             | Length [mm] | Width [mm] | Thickness [mm] |
| Cut to size            | +2/-2       | +1/-2      | +2/-2          |

\*on request - minimum order per special size: 25 pieces

## GENERAL PHYSICAL PROPERTIES

| Coefficient of thermal expansion acc. to DIN 53752-A | Service temperature |
|--|---------------------|
| [1/K]  | [°C]                |
| $7 \times 10^{-5}$                                   | -30 to +80          |

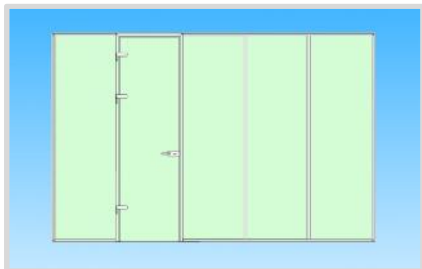
## MECHANICAL PROPERTIES

| 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* [N/m <sup>2</sup> ] |
|----------------|---|---|--------------------------|--|
| 12             | 7,5                                       | 3,5   | 24                       | 226                                    |
| 16             | 7,8                                       | 2,8   | 24                       | 515                                    |
| 19             | 8,0                                       | 2,5   | 24                       | 714                                    |
| 30             | 8,8                                       | 1,8   | 26                       | 1710                                   |

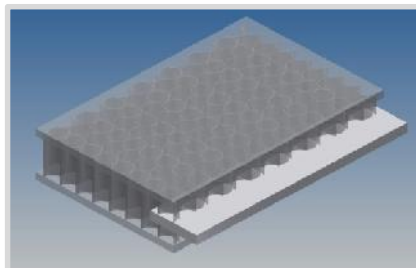
\*per 1 m panel width

## MOUNTING SYSTEMS FOR ALL AIR-BOARD® PANELS

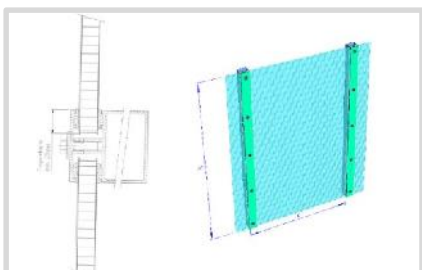
Profile system for dividing walls



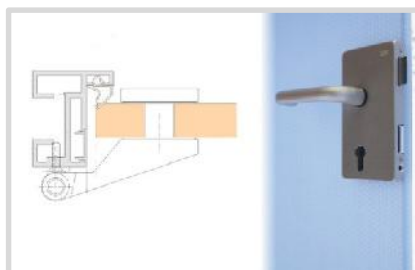
Tongue and groove joint



Profile system for glazing



Furniture for hinged doors



## APPLICATIONS

interior

interior fittings | furniture | floors/walls/ceilings | partition walls/doors | stairs | illuminated elements

retail & booth constructions

corporate design & artistic objects

customized application according our mission **design<sup>you</sup> composite**

For use in damp please contact Design Composite for technical assistance!

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.