

design composite panels

Die jahrzehntelange Erfahrung in Klebtechnologie und Produktion von Wabenkernen aus hochwertigen Kunststoffen bildet die Basis für unsere Verbundpaneele. Die Kombination von höchster Qualität mit faszinierendem Design schafft vielfältige Möglichkeiten der innovativen Gestaltung. Prüfungen in unserem bestens ausgestatteten Labor und Ausgangskontrollen garantieren höchste Qualität unserer Produkte.

Besonders durch den Einsatz moderner Lichttechnologien kommen unsere transluzenten Wabenpaneele optimal zur Wirkung. Die **AIR-board®** und **clear-PEP®** Paneele haben unterschiedliche Kernstrukturen.

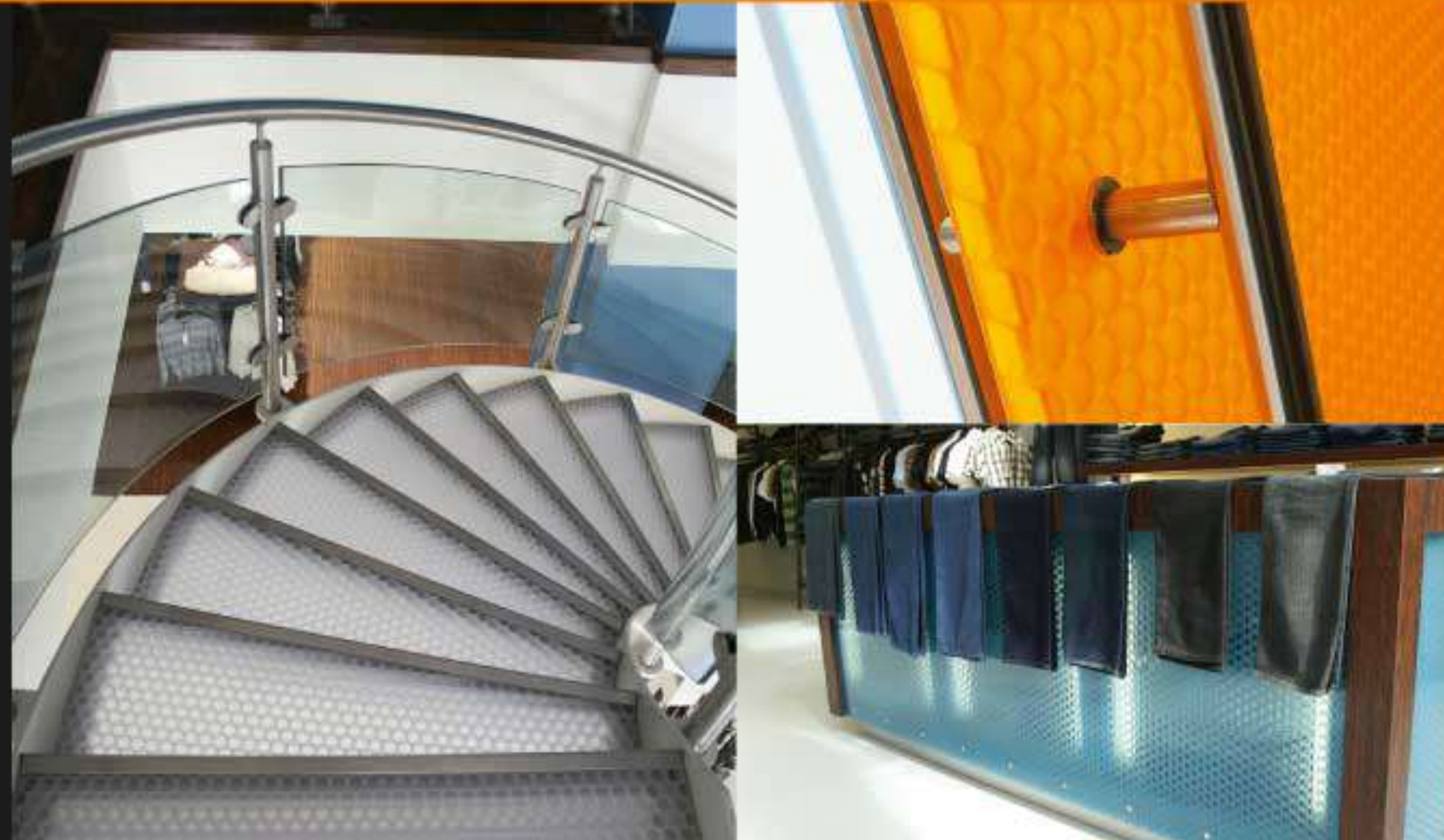
Over 15 years of experience in adhesive technology and production of TRlcore cores from high quality plastic is the basis for our composite panels. The combination of the highest technical quality with stunning designs creates numerous opportunities for innovative concepts. Quality testing in our well-equipped laboratory through to final inspection guarantees the highest quality of our products.

The use of advanced lighting technology is particularly suited to our panels to enhance their optical effect.

***AIR-board®** and **clear-PEP®** panels have different core structures.*


Features

- Excellent UV and weather resistance
- Innovative translucent optics
- Excellent light transmission
- Provides full or partial visibility/privacy
- Light weight
- Easy processing
- Compatible with standard fixing systems
- Excellent bending stiffness
- Unique 3D-effects and light scattering
- High impact and abuse resistance
- Patented core geometries
- Good thermal and sound insulation properties



Eigenschaften


- Ausgezeichnete UV Stabilität und Bewitterungsresistenz
- Innovative transluzente Optik
- Hohe Lichtdurchlässigkeit bei optimalem Sichtschutz
- Geringes Gewicht
- Leichte Verarbeitbarkeit
- Kompatibilität mit gängigen Befestigungs-Systemen
- Exzellente Steifigkeit
- Einzigartige 3D-Effekte und Lichtstreuung
- Hohe Schlagzähigkeit
- Patentierte Kerngeometrien
- Gute Wärme- und Schalldämmung



AIR-board®

Die Wabenkerne für unsere **AIR-board®** Paneele sind in verschiedenen Zellgrößen und Strukturen erhältlich. Erst durch das Verkleben der Kerne mit unterschiedlichsten Deckschichten entstehen Paneele mit einzigartigen Eigenschaften.

*The honeycomb cores in different sizes for our **AIR-board®** panels can be combined with various transparent or coloured facing sheets. The different layers and different core structures allow a variety of imaginative design options.*



clear-PEP®

Auf einer eigens entwickelten und patentierten Kernziehanlage werden die unverkennbaren Wabenkerne für unsere **clear-PEP®** Paneele hergestellt. Die innovative Charakteristik der Lochstruktur verleiht dem Leichtbaupaneel nicht nur eine einzigartige Tiefenwirkung, sondern auch eine extrem hohe Steifigkeit.

*The distinctive TRCore, for our **clear-PEP®** panels, is manufactured on our specially designed and patented core expander. The innovative characteristic of the open structure gives the lightweight panels not just a unique depth but also an extremely high rigidity.*



AIR-board® & clear-PEP® panels

lagerware / stock items

AIR-board®

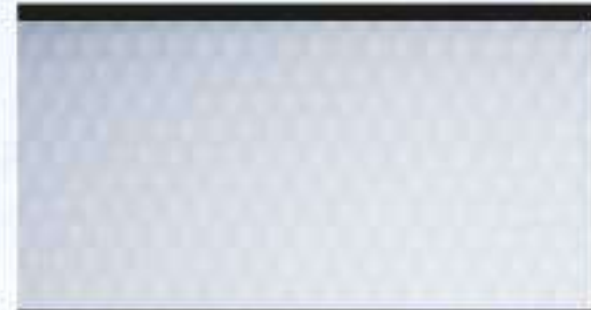
PRODUKT / PRODUCT



AIR-board® UV PC transparent

3020 x 1220 x 19 mm

Art-Nr. ABU019-30201



AIR-board® UV satin opal

3020 x 1000 x 19 mm

Art-Nr. ABSA19-20011



AIR-board® UV satin orange

3020 x 1000 x 19 mm

Art-Nr. ABSA19-20041

PRODUKT / PRODUCT



chaos AIR-board® UV satin clear

3020 x 1000 x 19 mm

Art-Nr. ABCS19-20001



AIR-board® acoustic

2500 x 1220 x 18 mm

Art-Nr. ABM018-00201

Zusätzlich zu unserem Lagerprogramm produzieren wir auch individuelle Paneele nach Kundenwunsch.

In addition to the range of stocked panels we also produce panels to customer requirements.

lagerware / stock items

clear-PEP®

PRODUKT / PRODUCT



clear-PEP® UV PC transparent
3020 x 1220 x 19 mm
Art-Nr. CPU019-30201



clear-PEP® UV PC color orange
3020 x 1000 x 19 mm
Art-Nr. CPC019-24781



clear-PEP® UV PC color light blue
3020 x 1000 x 19 mm
Art-Nr. CPC019-26251



clear-PEP® UV satin opal
3020 x 1000 x 19 mm
Art-Nr. CPSA19-20011

PRODUKT / PRODUCT



clear-PEP® UV satin grey
3020 x 1000 x 19 mm
Art-Nr. CPSA19-20061

NEU / NEW



clear-PEP® UV PC stage
2000 x 1000 x 40 mm
Art-Nr. CPS040-20001

BODENPANEEL
FLOOR / STAGE



clear-PEP® spy UV satin clear
3020 x 1000 x 19 mm
Art-Nr. CPSS19-20001

NEU / NEW



Die Möglichkeiten

Neben dem Standardprogramm bieten wir verschiedene Deckschichten, Dimensionen, Kernstrukturen, Farben und Materialkombinationen mit speziellen Eigenschaften an.

Kundenorientierung und Flexibilität erlauben es uns, individuelle Lösungen anzubieten.

The possibilities

In addition to the standard range we offer many different surface sheets, dimensions, core structures, colours and material combinations with special properties.

Customer orientation and flexibility allow us to offer customized solutions.



Farben/Colours

Alle Farben sind in satinierten/glänzenden Ausführungen lieferbar.

All colours in glossy or satin finishes are available.



Formen/Shapes

Individuelle Zuschnitte/Bohrungen/Ausfräsungen und Verformungen können nach Kundenanforderungen gefertigt werden.

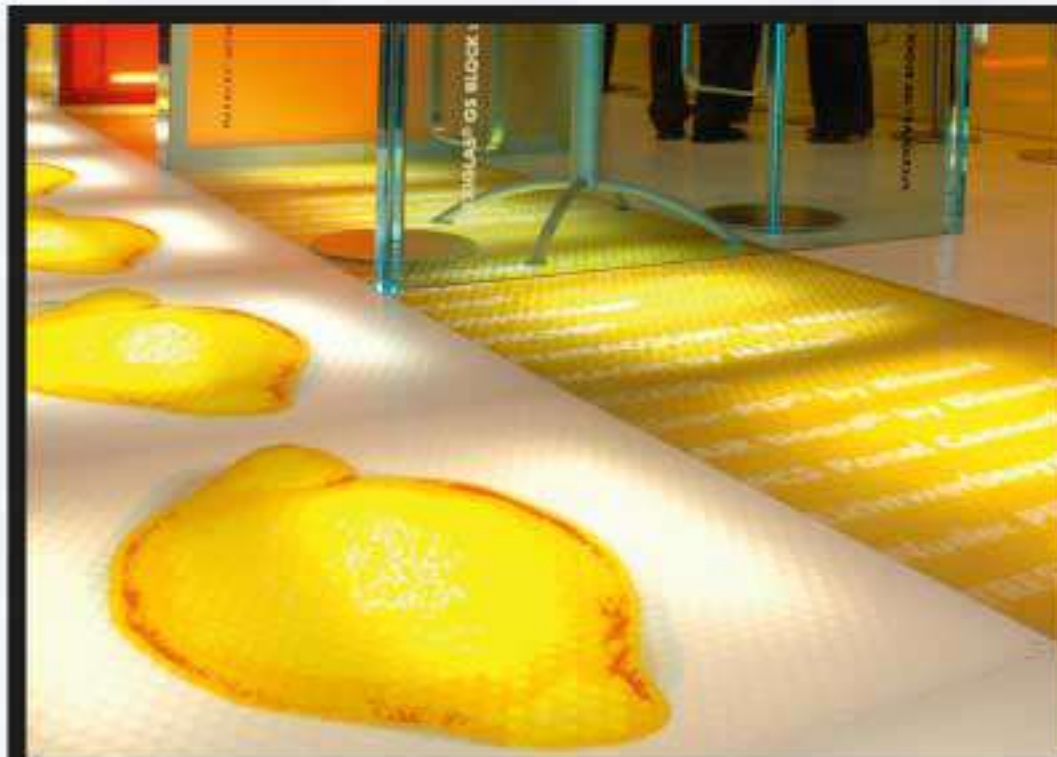
Cutting/drilling/bending/CNC milling according to customer's specifications.



Dimensionen / Dimensions

Paneelformate sind bis zu einer Größe von 7500 x 2500 mm möglich.

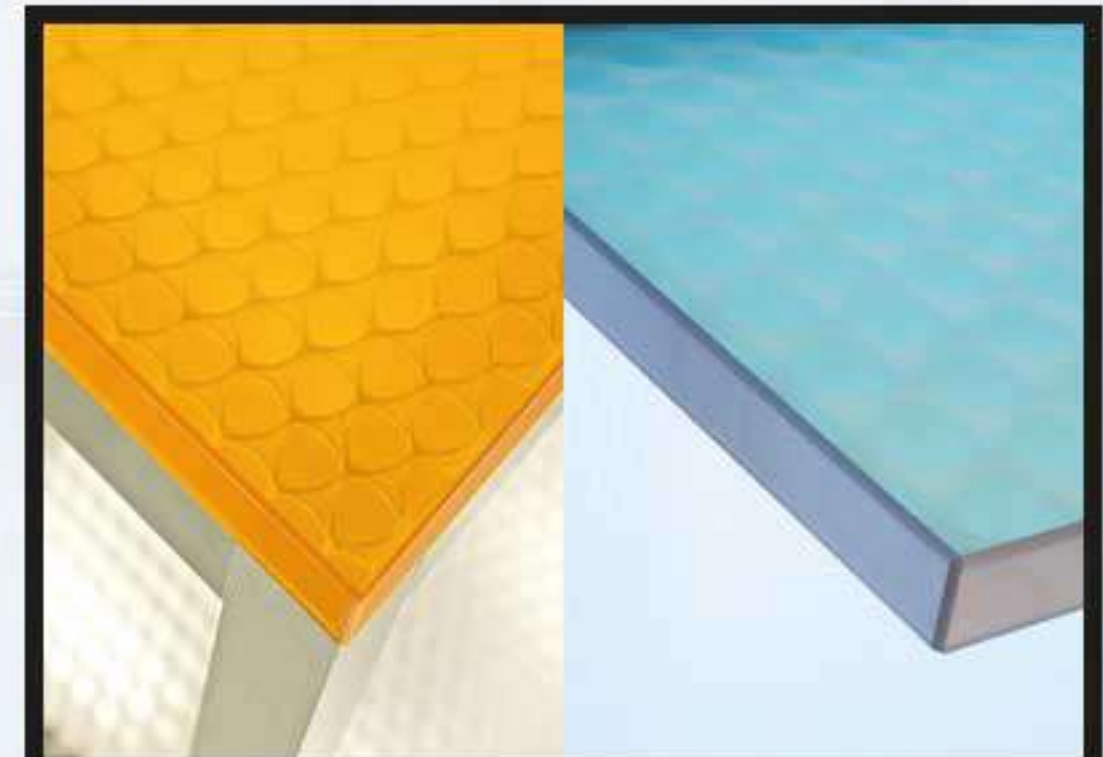
Panel sizes up to 7500 x 2500 mm.



Aufdruck / Printing

Beliebige Grafiken/Logos können mit Hilfe von Digitaldruck auf die Paneele aufgedruckt werden.

Any graphics/logos can be printed on the panels with digital print.



Kantenlösung / Edge banding

Kantenlösungen für den Innen- und Außenbereich.

Edge banding options for interior and exterior applications.

Mit unseren Systemlösungen präsentieren wir maßgeschneiderte Konzepte für Innenausbau und Fassadengestaltung. Spezielle Profilsysteme ermöglichen Raumabtrennungen und Wandgestaltungen, Dreh- und Schiebetürkonzepte, Beschattungssysteme und vieles mehr mit hohem Designanspruch.



Wandsysteme / wall systems

Vollwertige Wandsysteme, integrierte Türen und Profilsysteme werden montagefertig geliefert.

Complete wall systems, integrated doors and profile systems are delivered ready for assembly.



Türsysteme / door systems

Individuelle Dreh- & Schiebetüren werden als Komplettlösung mit passenden Beschlagsystemen angeboten.

Customized hinged & sliding doors together with the appropriate mounting systems.



Stellwandsysteme / partition walls

Temporäre oder permanente Stellwände für Raumteiler, Messestände, Ausstellungen, Kongresse, Büros, Foyers etc.

Temporary or permanent partition walls for applications such as exhibition booths, congresses, offices, foyers etc.

With our system solutions we present bespoke concepts for interior and external applications. Special profile systems offer room partitions, decorative walls, swing and sliding doors, shading systems and many other possibilities for requirements with a higher level of design.



Fassaden/facades

Witterungsresistente Paneele aus UV-geschützten Materialien mit hohen thermischen Isolationswerten kommen speziell bei Hinterleuchtung und Sonneneinstrahlung optisch perfekt zur Geltung.

The weather-resistant panels from UV-resistant materials with outstanding thermal insulation values are at their best when illuminated from the rear or with sunlight.



Beschattungssysteme/shading systems

Witterungsresistente Paneele aus UV-geschützten Materialien setzen optische Akzente in der Außenfassade und bringen Schatten und Komfort.

The weather-resistant panels from UV-resistant materials are providing a distinct look to a building's exterior while providing shade and increased comfort.



Akustiksysteme/acoustic systems

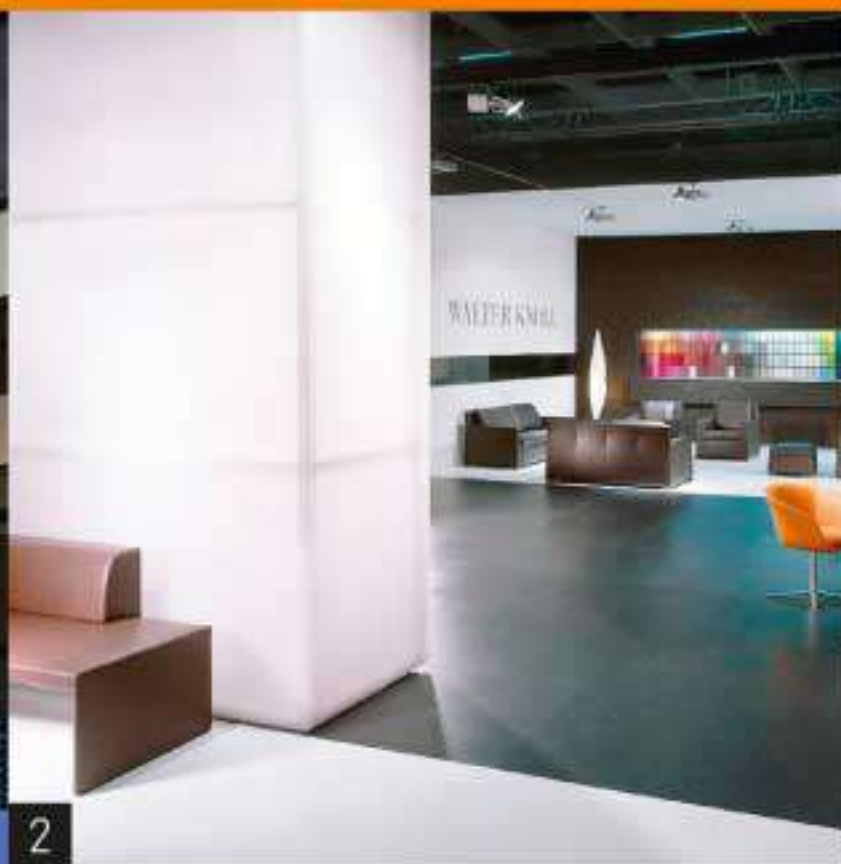
Die speziell entwickelten Akustikpaneele für Decke/Wand und Trennwände dienen zur Verbesserung der Raumakustik und der Schallabsorption.

The specially developed acoustic panels for ceilings, walls and partitions are used to improve the room acoustics and sound absorption.

anwendungen / applications



7



2



4



5



2



1



6

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2

Anwendungsmöglichkeiten von **AIR-board®**- und **clear-PEP®**-Paneelen: Architektur, Messestände, Ladenbau, Bühnenkulissen, Innenausbau, Displays, Lichtwerbung, Schaufensterdekorationen, Regale, Leuchtkörper, Lichtdecken, Design-Möbel, Trennwände, Schiebetüren, Doppelböden, Geländerverglasungen, Fassadenelemente, Vordächer u. v. m.
 Application possibilities for **AIR-board®**- and **clear-PEP®**-panels: architecture, exhibition booths, shop design, stage setting, interior design, displays, illuminated advertising, shop window decorations, shelves, luminaries, illuminated ceilings, furniture, partitions, sliding doors, raised floors, balcony panels, facades, canopies and much more!



6



5



2



2



3



1



1



3

- 1 Shopdesign, Ladenbau, Bar
 - 2 Messebau, Bühnenbau
 - 3 Museen
 - 4 Designmöbel
 - 5 Sanitäranwendungen
 - 6 Hotel- und Wellnesseinrichtungen
 - 7 Aussenfasaden
-
- 1 Shop design/bars
 - 2 Exhibition booths
 - 3 Museums
 - 4 Designer furniture
 - 5 Sanitary applications
 - 6 Health spa and hotels
 - 7 External facades

Architecture & Design



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NBB - Die Agentur | Bilder: Nikolaus Faustauer, Maximilian Muzzinas, Michael Huber, mada GmbH, Archiv Design Composite GmbH



AIR-board® panels

Color	Top sheets	Dimensions	AIR-board®	big AIR-board®	chaos AIR-board®	metal AIR-board®
	PC transparent	2550 x 1050 x 12	AB0012-25501			
	PC transparent	2550 x 1050 x 16	AB0016-25501			
	PC transparent	2550 x 1050 x 19	AB0019-25501*			
	UV PC transparent	3020 x 1000 x 19		BABU19-30201	ABUC19-30201	
	UV PC transparent	3020 x 1220 x 19	ABU019-30201*			ABTU19-00031*
	UV PC color orange	3020 x 1000 x 19	ABC019-24781	BABC19-24781	ABUC19-24781	ABTU19-24781
	UV PC color green	3020 x 1000 x 19	ABC019-27771	BABC19-27771	ABUC19-27771	ABTU19-27771
	UV PC color light blue	3020 x 1000 x 19	ABC019-26251	BABC19-26251	ABUC19-26251	ABTU19-26251
	UV PC color dark blue	3020 x 1000 x 19	ABC019-26271	BABC19-26271	ABUC19-26271	ABTU19-26271
	UV satin clear	3020 x 1000 x 19	ABSA19-20001*	BABS19-20001	ABCS19-20001	
	UV satin opal	3020 x 1000 x 19	ABSA19-20011*	BABS19-20011	ABCS19-20011	
	UV satin orange	3020 x 1000 x 19	ABSA19-20041*	BABS19-20041	ABCS19-20041	
	UV satin glass green	3020 x 1000 x 19	ABSA19-20021	BABS19-20021	ABCS19-20021	
	UV satin ice blue	3020 x 1000 x 19	ABSA19-20031	BABS19-20031	ABCS19-20031	
	radiant	2420 x 1200 x 19	ABR019-24201			
	UV PC transparent	3020 x 1000 x 19				
			color pink AIR-board®	color green AIR-board®	color yelblue AIR-board®	color black AIR-board®
			ABUP19-30201	ABUG19-30201	ABUY19-30201	ABUB19-30201

*stock items, delivery time for other panels on request

1. Introduction

Our standard lightweight panels respectively any customized panel demand not only a great deal of the modern Design Composite production equipment, but also a comprehensive know-how of processing and handling by our customers.

Following instructions and suggestions should assist you to handle Design Composite lightweight panels according to their properties.

2. Metal cutting processing of Design Composite panels

2.1 General

In principle the selection of the cutting tool depends on the type of top sheet material.

Note: In general we recommend to wear protective gloves and safety glasses during mechanical processing with the panels.

2.2 Drilling

Any conventional metal drill bit (HSS spiral bit) can be used. Panels without metallic top sheets should be drilled with high drill speed (50 – 10 m/min, but little feed speed). We recommend an advance drill if the hole diameter is more than 5 mm.

Due to the thermal expansion of any thermoplastic top sheet a hole diameter of minimum 2 mm bigger than the screw diameter is imperatively required.

Lubrication is useful during drilling in order to achieve an optimum drill surface.

2.3 Sawing

Sandwich panels can generally be cut with standard workshop equipment (e.g. work table or hand circular saw, compass and band saw). Carbide tipped saw blades with a large number of crown teeth together with high cutting speed and little feed speed produce optimum results.

When drilling a support could prevent detachment of the lower top sheet.

Cutting thermoplastic sheets (e.g. clear-PEP®, clear-PEP® color, AIR-board®, AIR-board® satin) require special saw blades in order to avoid bursting of edges.

Recommendation: Leitz HW circular saw blade for NE-metal neg. HW 300x3.2x30, Z96, FZ / TZ.

For further information look up www.leitz.org

Cutting with laser and/or water-jet is not possible!

2.4 Milling

Sandwich panels can be milled with cemented carbide (CC) milling tools.

Note: high cutting speed (15.000 – 25.000 R/min) combined with little feed speed produces optimum results.

2.5 Grinding

Grinding is used to adjust minor top surface defects or rough cutting edges. High grinding speed with little feed speed is recommended too. The requested roughness can be adjusted with the grit size of the sandpaper. Tape speed of 10 m/s is suggested.

2.6 Burnishing

Manual polishing can either be done with a soft cloth or with a suitable felt together with a polishing paste.

Larger surfaces should be polished with a face-polishing machine that is equipped with a cloth of felt or lambskin soaked with polishing paste.

AIR-board® panels


	Standard dimensions	Tolerances for Standard dimensions			Special dimensions		Fire class			Coefficient of thermal expansion	Service temperature	TSET value (total solar energy transmittance)			
	Length x Width x Thickn. (mm)	Length (mm)	Width (mm)	Thickn. (mm)	Thickn. (mm)	Length _{max} x Width _{max} (mm x mm)	DIN 4102-1	BS 476 Part 7	ÖNORM B3800	acc. to DIN 53752-A (1/K)	(°C)	sun elevation angle			
												0°	30°	45°	60°
AIR-board® PC	2550 x 1050 x 12/16/19	+10/-101	+5/-51	+0/-11			B1	1Y		6,5 x 10 ⁻⁵	-30 up to +80				
AIR-board® UV PC	3020 x 1220 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ²	B1	1Y	B1	6,5 x 10 ⁻⁵	-30 up to +80	0,72	0,67	0,61	0,52
color AIR-board® UV PC	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ⁴	B1	1Y		6,5 x 10 ⁻⁵	-30 up to +80				
big AIR-board® UV PC	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ²	B1	1Y	B1	6,5 x 10 ⁻⁵	-30 up to +80				
chaos AIR-board® UV PC	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ²	B1	1Y	B1	6,5 x 10 ⁻⁵	-30 up to +80				
AIR-board® UV PC color	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ³	B1		B1	6,5 x 10 ⁻⁵	-30 up to +80				
big AIR-board® UV PC color	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ³	B1		B1	6,5 x 10 ⁻⁵	-30 up to +80				
chaos AIR-board® UV PC color	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1300 ³	B1		B1	6,5 x 10 ⁻⁵	-30 up to +80				
AIR-board® UV satin	3020 x 1000 x 19	+2/-2	+1/-2	+2/-2	12 - 80	3020 x 2020 ⁴	B2			7 x 10 ⁻⁵	-30 up to +80				
big AIR-board® UV satin	3020 x 1000 x 19	+2/-2	+1/-2	+2/-2	12 - 80	3020 x 2020 ⁴	B2			7 x 10 ⁻⁵	-30 up to +80				
chaos AIR-board® UV satin	3020 x 1000 x 19	+2/-2	+1/-2	+2/-2	12 - 80	3020 x 2020 ⁴	B2			7 x 10 ⁻⁵	-30 up to +80				
AIR-board® radiant	2420 x 1200 x 19	+2/-2	+1/-2	+0/-1	12 - 80	2420 x 1200 ⁴	B2			7 x 10 ⁻⁵	-30 up to +80				
metal AIR-board® UV PC	3020 x 1220 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1500 ⁴		1Y	B1	6,5 x 10 ⁻⁵	-30 up to +80				
metal AIR-board® UV PC color	3020 x 1000 x 19	+2/-2	+1/-2	+0/-1	12 - 80	3020 x 1500 ³			B1	6,5 x 10 ⁻⁵	-30 up to +80				

1...untrimmed; 2...minimum order quantity per special dimension: 200 m²; 3...minimum order quantity per special dimension: 400 m²; 4...minimum order quantity per special dimension: 25 pc.

	Weight per unit area (kg/m ²)							Thermal insulation (W/m ² K)							Sound insulation Rw (dB)							Bending stiffness per panel width (Nm ² /m)						
	panel thickness in mm							panel thickness in mm							panel thickness in mm							panel thickness in mm						
	12	16	19	30	40	60	80	12	16	19	30	40	60	80	12	16	19	30	40	60	80	12	16	19	30	40	60	80
AIR-board® PC	3,1	3,4	3,6	4,4	5,1	6,5	7,9	3,0	2,5	2,3	1,7	1,4	1,1	0,9	19	19	19	20	20	22	22	144	266	383	968	1760	2556	5120
AIR-board® UV PC	5,4	5,6	5,9	6,6	7,3	8,7	10,1	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
color AIR-board® UV PC	5,4	5,6	5,9	6,6	7,3	8,7	10,1	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
big AIR-board® UV PC	5,5	5,9	6,2	7,1	8,0	9,8	11,6	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
chaos AIR-board® UV PC	5,5	5,9	6,2	7,1	8,0	9,8	11,6	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
AIR-board® UV PC color	5,4	5,6	5,9	6,6	7,3	8,7	10,1	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
big AIR-board® UV PC color	5,5	5,9	6,2	7,1	8,0	9,8	11,6	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
chaos AIR-board® UV PC color	5,5	5,9	6,2	7,1	8,0	9,8	11,6	3,2	2,7	2,4	1,7	1,4	1,1	0,9	21	21	21	23	24	25	25	196	444	532	1688	2987	3420	11093
AIR-board® UV satin	7,5	7,8	8,0	8,8	9,5	10,9	12,3	3,5	2,8	2,5	1,8	1,5	1,1	0,9	24	24	24	26	27	28	28	226	515	714	1710	3040	4140	11520
big AIR-board® UV satin	7,6	8,0	8,3	9,2	10,1	11,9	13,7	3,5	2,8	2,5	1,8	1,5	1,1	0,9	24	24	24	26	27	28	28	226	515	714	1710	3040	4140	11520
chaos AIR-board® UV satin	7,6	8,0	8,3	9,2	10,1	11,9	13,7	3,5	2,8	2,5	1,8	1,5	1,1	0,9	24	24	24	26	27	28	28	226	515	714	1710	3040	4140	11520
AIR-board® radiant	7,5	7,8	8,0	8,8	9,5	10,9	12,3	3,5	2,8	2,5	1,8	1,5	1,1	0,9	24	24	24	26	27	28	28	226	515	714	1710	3040	4140	11520
metal AIR-board® UV PC	5,1	5,3	5,4	5,8	6,2	7,0	7,8	5,3	5,2	5,2	5,1	5,0	4,8	4,6	20	20	20	22	23	24	24	205	461	543	1733	3093	3540	11947
metal AIR-board® UV PC color	5,1	5,3	5,4	5,8	6,2	7,0	7,8	5,3	5,2	5,2	5,1	5,0	4,8	4,6	20	20	20	22	23	24	24	205	461	543	1733	3093	3540	11947



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	Material Safety Data Sheet Product Lines clear-PEP® and AIR-board®	MSDS 0102 Ch.- Nr.: 01 page: 1 von 2
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1. Trade names of products concerned:

clear-PEP® PC
clear-PEP® UV PC
clear-PEP® UV PC color
clear-PEP® UV PC stage

AIR-board® PC
AIR-board® UV PC
AIR-board® UV PC color
color AIR-board® UV PC
metal AIR-board® UV PC

2. Composition / Indication to parts:

Chemical characterisation:

Polycarbonate panels bonded with a drawn TRICore or honeycomb Polycarbonate core

Dangerous substances:

By bonding with Polyurethane adhesives Isocyanathe can be released, however they are chemically bonded in adhesive reacted out (approx. 48 hours after processing).

3. Possible dangers:

unknown

4. First Aid actions:

inhale:
skin contact:
swallow up:
eye contact with PC-swarf:

not applicable
not applicable
not applicable
irrigation with water or commercial eye irrigations

5. Actions against fire:

Suitable extinguishing agents:
Unsuitable extinguishing agents:
At fire following will be released:
Other decomposition products at thermal decomposition:

water, powder, foam, carbon dioxide
unknown
Carbon Dioxide, water vapour

Further information:

Carbon Monoxide and other organic monomers in small quantity
combustion residues are to be disposed according to local regulations

6. Actions at unintended release:

not applicable

7. Handling and storage:

handling:
storage:

no information
in delivery package in dry rooms, according to local fire-directions

These indications are based on our state of knowledge and experience at date of issue, but they do not bear the meaning of assurance of characteristics. It is not allowed to change nor to translate into other products. Copying in unchanged status is allowed.



Material Safety Data Sheet
Product Lines
clear-PEP® and AIR-board®

MSDS **0102**
Ch.- Nr.: 01
page: 2 von 2

8. Exposition limitation and personal protective equipment:

Parts with limit value to be observed – not applicable

Personal protective equipment:

breathing protection

not necessary

eye protection

at mechanical processing – protective goggles

ear protection

at mechanical processing – ear protection

9. Physical and chemical characteristics:

form:

non-detachable

colour:

according to customer's request

smell:

neutral

change of condition:

non

ignition temperature:

over 200° C

solubility in water:

unsolubly

10. Stability and reactivity:

no change of condition at usage according to determination

11. Information on toxicology:

no acute toxicity

12. Information on ecology:

Information on elimination:

no datas available

Behaviour in environment

compartments:

not water endangering, environment neutral

13. Information on disposal:

According to local magisterial directives

14. Information on transport:

no labelling liability for dangerous goods-law according to EEC-law

15. Instructions:

labelling according to EEC-law:

no labelling liability

national regulations:

not subject of dangerous goods-regulation

16. Others:

information for usage of this MSDS please find in the footer

These indications are based on our state of knowledge and experience at date of issue, but they do not bear the meaning of assurance of characteristics. It is not allowed to change nor to translate into other products. Copying in unchanged status is allowed.

