COSMO® Composite panels Unlimited possibilities for design

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weiss

Together toward success

A strong partner



Agenda

Applications

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COSMO[®]

Therm

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Heat-insulating

ALU

PVC

HPI

GFK

SPE

SPE

ALU

PVC

HPL

ALU/HD

HPL/HD

EPO/HD

Quick-Tape

ALU/Stucco

composite panels

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Quality, service and high delivery reliability are the basic pillars of the success of our group of companies. We have continuously improved and further developed our portfolio in the last years; this also includes the acquisition of new companies. By now, about 325 employees at four sites participate in the success of our group.



Company

By pooling the core competences of our business segments of adhesives and composite panels under a single roof, we are able to offer solutions from one source to our customers that are efficient and of high technical quality.

We are among the leading manufacturers in these two business segments in Europe and moreover, we also increasingly sell our products outside of Europe, such as in China, Russia and the USA.

Company history

Since the company's foundation in 1815, Weiss has developed from a small hide-glue producer to an internationally acting, industrial company for modern adhesive systems and composite panels. With a passion for quality and the aspiration to meet our customers' high expectations, we are a recognised and reliable partner on the market.

PUDOL

Weiss is the only enterprise that produces adhesives and composite panels.

Division

Powerful product range

Division **Adhesives**



Durably firm joints

Traditional bonding technologies like riveting, soldering, welding, or screwing are more and more replaced by modern adhesive systems, resulting in many advantages.

Our product range includes more than 400 variants of surface and construction adhesive and superglues, as well as special adhesives for a wide variety of applications.

Composite panels



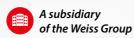
Unlimited possibilities for design

Our range of products includes more than 5,000 variants of composite panels. Because there is a large number of top coats and core materials available as well as the possibility of combining and processing them in many different ways, a vast number of creative designs results for the finished element.

Cleanliness refreshes your senses

Cleaning and maintenance products

PUDOL stands for convincing quality of special products in the field of commercial cleaning. In addition to a complete range of cleaning and care products for different applications, we are offering a comprehensive service with interesting solutions and benefits.







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Interactive



Design Composite pane

р.б

COSMO^o

Tech

Customised

PVC

HPL

GFK

COSMO® Protect

Burglar/penetration-resistive ALU 24 PVC 24

COSMO[®] Frame Frame widening composite panels elements 28 PVC 32

communication

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COMPOSITE PANELS

Applications

COSMO® Composite Panels & Façade Elements

Unlimited possibilities for design

Are you looking for a suitable composite panel for your application in industry or trade? Then, here is just the right place to be for you!

Our range of composite panels currently includes more than 5,000 variants. These solely consist of high grade material components and are bonded with a long-term approved adhesive system that has especially been developed for this purpose in our house. The result is a Premium Composite Panel that can fully convince with its quality, robustness and durability.

Because there is a large number of top coats and core materials available as well as there is the possibility of combining them in many different ways, a vast number of creative designs results for the finished composite panel.

As a member of the ift (Institut für Fenstertechnik), we regularly test newly and further developed composite panels for heat and noise reducing and/or penetration-resistive properties. With this, we are offering the maximum level of safety to you, because the measured test values are not only achieved in practice but often exceeded.

Fields of application

We are offering suitable composite panels for many different fields of application.







Development

In close cooperation with our customers we create solutions that are customised for the respective range of application.

Our team of materials testers and application engineers with long-term experience in the fields of materials science and building physics would be pleased to be on hand with advice to help you.

Customer-specific solutions

We are offering customised composite panels for your special applications. Because a large number of different top coats and core materials is available as well as there is the possibility of combining them in many different ways, a vast number of creative designs results for the finished element.

Certified quality

Weiss delivers composite panels of constant top-quality. In order to be able to permanently ensure this quality, we are cooperating with different testing institutes, e.g. ift Rosenheim, MPA NRW and CSTB.





Burglary resistance measured by ball test **DIN EN 356 P5A**





Airborne sound insulation as per EN ISO 717-1



DIN EN 12600 class



Fire protection as per DIN 4102-1 and EN 13501-1





Delivery service

With our range of products of more than 5,000 article variants we are offering to our customers a large assortment of heat and sound-insulating composite panels.

In addition, many of our core products are constantly available from our warehouse or will be deliverable in a short time.



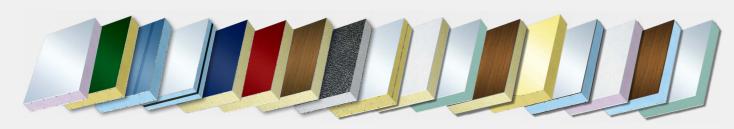
Burglary resistance measured by axe test DIN EN 356, P6B to P8B

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Thermal performance as per EN ISO 10077-2

• Various test certificates are available for the mentioned tests.

Our composite panels are composed of a variety of different material combinations that can be designed individually.



Top coats

The external layers of a composite panel are called top coats and can consist of the following materials:

- ALU (aluminium)
- **PVC** (polyvinylchloride)
- **HPL** (high-pressure laminated panels)
- **GFK** (GRP glass fibre reinforced plastics)
- **CFK** (carbon fibre reinforced plastics)
- EPO (epoxy resin)
- HD (decorative films)
- SPE (plywood)
- **DSP** (thin chipboard)

The upper and the lower top coat can consist of the same material or of different materials.

Core material

"Core material" is our designation for the inner components of our composite panels that can consist of the following materials:

- **XPS** (extruded polystyrene rigid foam)
- **PUR** (polyurethane rigid foam)
- **TK** (thermoplastic plastics)
- MIN (mineral fibre insulating material)
- PR (polyurethane recycling panel)
- EPS (expanded polystyrene rigid foam)
- PUR/AL (polyurethane rigid foam/ aluminium)

PVC

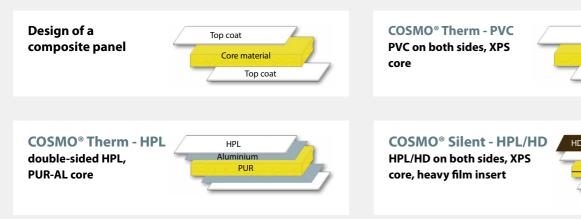
XPS

PVC

Special inserts

- Sound-insulating heavy film
- Burglar-resistant aluminium insert

Design





COSMO® Therm

Heat-insulating composite panels

For many years, these composite panels with different plastic, aluminium and wood surfaces have proven to be successful. Because there is a large number of top coats and core materials available as well as there is the possibility of combining them in many different ways, a vast number of creative designs results for the finished element.

COSMO® Therm - ALU

ALU on both sides, XPS core

Top coats

Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

Panel thickness

(mm)

20

24 27

27

27

30 30

30

33

33 33

Polystyrene-rigid foam, extruded (XPS)

tests

- Pendulum test as per DIN EN 12600 class 1
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
1.0	18	6.5	28	0.033	1.398
1.2	18	7.6	28	0.033	1.398
1.5	17	9.2	28	0.033	1.459
1.0	22	6.7	28	0.033	1.195
1.2	22	7.7	28	0.033	1.195
1.5	21	9.3	28	0.033	1.240
1.0	25	6.8	28	0.033	1.078
1.2	25	7.8	28	0.033	1.078
1.5	24	9.4	28	0.033	1.114
1.0	28	6.9	28	0.033	0.982
1.2	28	7.9	28	0.033	0.982
1.5	27	9.5	28	0.033	1.012
1.0	31	7.0	28	0.033	0.901
1.2	31	8.0	28	0.033	0.901
1.5	30	9.6	28	0.033	0.927

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Special Properties

Moisture-resistantFree from CFC and HCFC

Standard sizes (mm)

3000x1500

3000x1500

Top coat 1.0 mm: 2500x1250, 3000x1500 Top coat 1.2 mm: 2000x900, 2000x1000, 2500x1250,

Top coat 1.5 mm: 2000x900, 2000x1000, 2500x1250,

COSMO® Therm - ALU

ALU on both sides, PUR core

Top coats

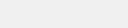
Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

Polyurethane hard foam (PUR)

tests

- Pendulum test as per DIN EN 12600 class 1
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E



Special Properties

Moisture-resistant Free from CFC and HCFC

Standard sizes (mm)

Top coat 1.5 mm: 2000x900, 2000x1000, 2500x1250, 3000x1500 Top coat 2.0 mm: 2000x1000, 3000x1500



Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
20	1.5	17	9.5	28	0.026	1.214
20	2.0	16	12.2	28	0.026	1.273
24	1.5	21	9.7	28	0.026	1.023
24	2.0	20	12.4	28	0.026	1.065
27	1.5	24	9.9	28	0.026	0.915
27	2.0	23	12.5	28	0.026	0.948
30	1.5	27	10.0	28	0.026	0.827
30	2.0	26	12.7	28	0.026	0.855
33	1.5	30	10.2	28	0.026	0.755
34	2.0	30	12.9	28	0.026	0.755

COSMO® Therm - ALU

ALU on one side, PUR core, PVC on rear side white

Top coats

Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

Polyurethane hard foam (PUR)

tests

- Pendulum test as per DIN EN 12600 class 1
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
24	1.5	21	7.8	28	0.026	1.023
40	1.5	37	8.6	28	0.026	0.628

Special Properties

Moisture-resistant

Standard sizes (mm)

Free from CFC and HCFC

2000x1000, 2500x1250, 3000x1500







COSMO® Therm - ALU/HD

Polyurethane hard foam (PUR)

Top coats

Aluminium

tests

Core material

ALU/HD on both sides, PUR core

Special Properties

- 200µ decorative film on surface

Standard sizes (mm)

2000x900, 2150x1150

Pendulum test as per DIN EN 12600 class 1 Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
20	1.5	17	9.5	28	0.026	1.214
24	1.5	21	9.7	28	0.026	1.023
27	1.5	24	9.9	28	0.026	0.915
30	1.5	27	10.0	28	0.026	0.827
33	1.5	30	10.2	28	0.026	0.755

More than 200 different wood decors and universal films available from our warehouse





UV- and weather-resistant Moisture-resistant Free from CFC and HCFC



COSMO® Therm - ALU/Stucco

ALU/Stucco on both sides, EPS core

Top coats

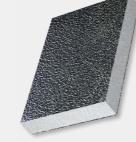
Aluminium, semi-hard, surface uncoated, Stucco patterned

Core material

Polystyrene-rigid foam, expanded (EPS)

Special Properties

- Moisture-resistant
- Free from CFC and HCFC
- Standard sizes (mm) 3100x1250



Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m²K)
14	0.5	13	3.4	0.040	2.020
16	0.5	15	3.5	0.040	1.835
21	0.5	20	3.6	0.040	1.493
24	0.5	23	3.6	0.040	1.342
28	0.5	27	3.7	0.040	1.183

COSMO® Therm - ALU/Stucco

ALU on both sides, PUR core

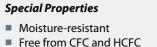
Top coats

Aluminium, semi-hard, surface uncoated, Stucco patterned

Core material

Polyurethane hard foam (PUR)





- Free from CFC and HCFC
- Standard sizes (mm)
- 3100x1250



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Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m²K)
16	0.5	14.5	3.7	0.026	1.374
20	0.5	18.6	3.8	0.026	1.129

COSMO® Therm - PVC PVC on both sides, XPS core

Top coats

PVC

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

- Category of resistance / DIN EN 356 P5A / ift test report 213 33640
- Pendulum test / DIN EN 12600 class 1 / ift test report 213 33637
- Airborne sound insulation* as per EN ISO 717-1 Rw 27 (-1;-2) dB / ift test report 164 32607/Z7 (* only panel thickness 24mm)
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
10	1.0	8.0	3.3	-	0.033	2.357
17	2.0	13	6.4	30	0.033	1.702
20	1.0	18	3.6	-	0.033	1.375
20	1.5	17	5.0	27	0.033	1.423
20	2.0	16	6.9	30	0.033	1.474
23	1.0	21	4.0	-	0.033	1.222
23	1.5	20	5.4	27	0.033	1.260
24	1.0	22	4.0	-	0.033	1.179
24	1.3	21	4.6	-	0.033	1.217
24	1.5	21	5.4	27	0.033	1.214
24	2.0	20	6.5	30	0.033	1.251
27	1.0	25	4.1	-	0.033	1.065
27	1.5	24	5.5	27	0.033	1.093
30	1.0	28	4.2	-	0.033	0.971
30	1.5	27	5.6	27	0.033	0.994
30	2.0	26	6.8	30	0.033	1.019
33	1.0	31	4.3	_	0.033	0.892
33	1.5	30	5.7	27	0.033	0.912
34	2.0	30	6.9	30	0.033	0.907
44	1.0	42	4.6	-	0.033	0.688
49	2.0	45	7.4	30	0.033	0.642



Special Properties

- Increased impact resistance as per DIN 53453 Weather-resistant
- UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1
- Moisture-resistant
- CFC- and HCFC-free
- PVC cold weldable using adhesive COSMO[®] SL-

Standard sizes (mm)

660.110

2000x1000, 3000x1500, 3000x2000, 4000x2000



COSMO® Therm - PVC

PVC on both sides, XPS core

Top coats

PVC

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

- Category of resistance / DIN EN 356 P5A / ift test report 213 33640
- Pendulum test / DIN EN 12600 class 1 / ift test report 213 33637
- Airborne sound insulation* / as per EN ISO 717-1 Rw 27 (-1;-2) dB / ift test report 164 32607/Z7 (* only panel thickness 24mm)
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- Extremely low GWP factor
- (Global Warming Potential) Increased impact resistance as per DIN 53453
- Weather-resistant
- UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1
- Moisture-resistant
- CFC- and HCFC-free
- cold weldable using COSMO® SL-660.110

Standard sizes (mm)

2000x1000, 3000x1500, 3000x2000

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
24	1.5	21	5.1	27	0.029	1.097
36.5	1.5	33.5	5.6		0.029	0.745

COSMO® Therm - PVC

PVC on both sides, XPS core

Top coats

PVC

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

- Pendulum test / DIN EN 12600 class 1 / ift test report 213 33637
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- Increased impact resistance as per DIN EN ISO 179
- (DIN 53 453) Weather-resistant
- UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1
- Moisture-resistant
- CFC- and HCFC-free
- Paintable using the paint system recommended by us
- cold weldable using COSMO[®] SL-660.110

Standard sizes (mm)

2000x1000, 3000x1500, 3000x2000

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
23.6	1.3	21	4.5	27	0.033	1.217
24	1.0	22	3.8		0.033	1.179
24	1.5	21	5.1		0.033	1.097
27.6	1.3	25	5.1	27	0.033	1.061
31.6	1.3	29	5.2	27	0.033	0.940
35.6	1.3	32	5.3	27	0.033	0.866





COSMO® Therm - PVC

PVC on both sides, PUR core

Top coats

PVC

Core material

Polyurethane hard foam (PUR)

tests

- Pendulum test / DIN EN 12600 class 1 / ift test report 213 33637
- Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- (DIN 53 453)
- CFC- and HCFC-free

Standard sizes (mm)

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
18	1.5	15	5.5	27	0.026	1.308
23	1.5	20	5.8	27	0.026	1.045
24	1.5	21	5.8	27	0.026	1.005
27	1.5	24	6.0	27	0.026	0.900
28	1.5	25	6.0	27	0.026	0.870
33	1.5	30	6.3	27	0.026	0.745
43	1.5	40	6.8	27	0.026	0.579

WLG 035	
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- Increased impact resistance as per DIN EN ISO 179
- Weather-resistant, moisture-resistant
- UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1
- Paintable using the paint system recommended by us cold weldable using COSMO[®] SL-660.110

2150x950, 2000x1000, 3000x1500, 3000x2000





COSMO® Therm - HPL

HPL on both sides, XPS core

Top coats

High-pressure laminated panels (HPL)

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- Impact- and shock-resistant as per DIN EN 438/2
- UV- and weather-resistant
- Mechanical resistance: Resistant to abrasion, shock and scratching
- Chemical resistance to: Organic solvents, weak acids and leaches, fuel, oil, resistant to bacteria and fungus attack
- Moisture-resistant
- CFC- and HCFC-free

Standard sizes (mm)

2150x900, 2150x1150, 2800x1860, 2800x2070, 3050x1150, 3050x1300



COSMO® Therm - HPL HPL on both sides, PUR core

Top coats

High-pressure laminated panels (HPL)

Core material

Polyurethane hard foam (PUR)

tests

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- shock and scratching
- Chemical resistance to: Organic solvents, weak acids and leaches, fuel, oil, resistant to bacteria and fungus attack
- Moisture-resistant
- Low weight
- CFC- and HCFC-free

Standard sizes (mm)

_	Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m²K)
	20	2.0	16	6.7	0.033	1.497
_	24	2.0	20	6.8	0.033	1.267
-	30	2.0	26	7.0	0.033	1.030
-	33	2.0	29	7.1	0.033	0.942
-	40	2.0	36	7.3	0.033	0.785

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m²K)
20	2.0	16	7.0	0.026	1.252
24	2.0	20	7.2	0.026	1.050
27	2.0	23	7.3	0.026	0.936
30	2.0	26	7.5	0.026	0.845
40	2.0	36	8.0	0.026	0.638

COSMO® Therm - HPL/HD

High-pressure laminated panels (HPL)

with 200µ decorative film on surface

Polystyrene-rigid foam, extruded (XPS)

Reaction to fire test as per DIN EN 13501-1 /

HPL on one side, decorative film, XPS core, PVC on rear side, white

Top coats

tests

Core material

Class of fire E

- UV- and weather-resistant (HPL) UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1(PVC) Increased impact resistance (PVC) Weather-resistant (PVC) CFC- and HCFC-free

Standard sizes (mm)

Panel thickness	Top coats	Core material	Weight	Lambda value	U-value
(mm)	(mm)	(mm)	(kg/m ²)	(W/mK)	(W/m ² K)
23.5	2.0/1.5	20	6.1	0.033	







- Impact- and shock-resistant as per DIN EN 438/2 UV- and weather-resistant
- Mechanical resistance: Resistant to abrasion,

2150x900, 2150x1150, 3050x1150, 3050x1300

Special Properties

2150x900, 3050x1150, 3050x1300



COSMO® Therm - HPL/HD

HPL on both sides, coated with decorative film, XPS core

Top coats

High-pressure laminated panels (HPL) with 200µ decorative film on surface

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

Reaction to fire test as per DIN EN 13501-1 /

- Class of fire E Pendulum test / DIN EN 12600 class 1 / ift test
- report 213 33637

Special Properties

- UV- and weather-resistant
- Moisture-resistant
- CFC- and HCFC-free

Standard sizes (mm)

2150x900, 2150x1150, 3050x1150, 3050x1300



Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m²K)
20	2.0	16	7.2	0.033	1.497
24	2.0	20	7.4	0.033	1.267
25	2.0	21	7.4	0.033	1.220
30	2.0	26	7.6	0.033	1.030
33	2.0	29	7.7	0.033	0.942

COSMO® Therm - HPL/HD

HPL on one side, decorative film, XPS core, HPL on rear side, white

Top coats

High-pressure laminated panels (HPL) with 200µ decorative film on surface

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- UV- and weather-resistant (HPL)
- UV-resistant in accordance with DIN EN ISO 4892 and meets the requirements of RAL-GZ 716/1(PVC) CFC- and HCFC-free

Standard sizes (mm)

2150x900, 3050x1150, 3050x1300

Panel thickness	Top coats	Core material	Weight	Lambda value	U-value
(mm)	(mm)	(mm)	(kg/m²)	(W/mK)	(W/m²K)
24	2.0	20	7.4	0.033	

More than 200 different wood decors and universal films available from our warehouse



COSMO® Therm - GFK GFK on both sides, XPS core

Top coats

Glass-fibre reinforced plastics (GRP) **Core material**

Polystyrene-rigid foam, extruded (XPS)

Special Properties

- Industrial quality
- shock-resistant Weather-resistant
- Short length extension
- Moisture-resistant

CFC- and HCFC-free

Standard sizes (mm)

4000x2000

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m²K)
20	1.5	17	6.5	0.033	1.449
24	1.5	21	6.6	0.033	1.232
25	1.5	22	6.7	0.033	1.188
30	1.5	27	6.8	0.033	1.007

COSMO® Therm - GFK

GFK on both sides, PUR core

Top coats

Glass-fibre reinforced plastics (GRP)

Core material

Polyurethane hard foam (PUR)

Special Properties

- Door panel quality

- of glass Weather-resistant
- Low thermal extension
- door panels
- Moisture-resistant CFC- and HCFC-free

Standard sizes (mm)

Panel thickness	Top coats	Core material	Weight	Lambda value	U-value
(mm)	(mm)	(mm)	(kg/m ²)	(W/mK)	(W/m ² K)
24	2.0	20	8.8	0.026	1.057



U-value (W/m²K)	
1.267	







- High mechanical strength, impact- and



- Gelcoat surface, smooth
- Good mechanical strength due to high percentage
- Especially suitable for the manufacture of front

2000x900, 2150x1150, 3050x1150

COSMO® Therm - EPO/HD

EPO/HD on one side, PUR core, GRP on rear side

Top coats

COSMO[®] THERM

Epoxy resin with 200µ decorative film on surface

Core material

Polyurethane hard foam (PUR)

Special Properties

Coloured top coats which are highly light- and weather resistant

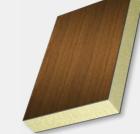
Short length extension

- High bending strength Minimum bending also at
- high external temperatures
- Moisture-resistant CFC- and HCFC-free

Standard sizes (mm)

2000x900, 2100x1000





Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m²K)
20	1.0	18	3.5	0.026	1.146
24	1.0	22	3.7	0.026	0.975
28	1.0	26	3.9	0.026	0.847
30	1.0	28	4.0	0.026	0.796

COSMO® Therm - Quick-Tape

Adhesive film on both sides, XPS core

Core material

Polystyrene-rigid foam, extruded (XPS)

Raw density

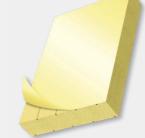
35kg/m³

Special Properties

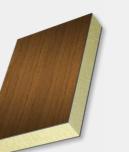
- Fast bonding over the whole surface
- Immediate adhesion, fast action, and easy handling

- No handling with adhesive or silicone cartridges
- No dirty surfaces due to adhesive or silicone Panels are ready for use immediately after pressing

Standard sizes (mm) 3000x1000









COSMO® Therm - Quick-Tape

Adhesive film on both sides, PUR core

Core material

Polyurethane hard foam (PUR)

Raw density

45-52kg/m³

Special Properties

Fast bonding over the whole surface

Immediate adhesion, fast action, and easy handling

Panel thickness (mm)	Pressure resistance (N/mm ²)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m²K)
10	0.40	0.7	0.026	1.803
16	0.40	1.0	0.026	1.273
20	0.40	1.1	0.026	1.065
21	0.40	1.1	0.026	1.023
24	0.40	1.4	0.026	0.915
25	0.40	1.4	0.026	0.884
26	0.40	1.5	0.026	0.855
30	0.40	1.7	0.026	0.755
40	0.40	2.2	0.026	0.585
50	0.40	2.7	0.026	0.478
90	0.40	4.7	0.026	0.275
130	0.40	6.7	0.026	0.193

Panel thickness (mm)	Pressure resistance (N/mm ²)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m²K)
10	0.30	0.4	0.033	2.114
16	0.30	0.6	0.033	1.527
20	0.30	0.7	0.033	1.289
21	0.30	0.7	0.033	1.240
24	0.30	0.8	0.033	1.114
25	0.30	0.8	0.033	1.078
26	0.30	0.9	0.033	1.044
30	0.30	1.1	0.033	0.927
40	0.30	1.3	0.033	0.724
50	0.30	1.6	0.033	0.593
91	0.30	2.8	0.033	0.342
130	0.30	4.0	0.033	0.243

Standard sizes (mm) 2000x1000

No handling with adhesive or silicone cartridges No dirty surfaces due to adhesive or silicone Panels are ready for use immediately after pressing



COSMO® Therm - SPE

Plywood on both sides, XPS core

Top coats

Plywood

- Gabon B/BB, peeled veneer
- Gabon A/BB, sliced veneer Mahogany A/BB, sliced veneer
- Pine A/BB, sliced veneer
- Spruce A/BB, sliced veneer
- Oak A/BB, sliced veneer
- Larch A/BB, sliced veneer

Core material

Polystyrene-rigid foam, extruded (XPS)

tests

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Special Properties

- Surfaces untreated
- CFC- and HCFC-free

Standard sizes (mm)

2500x1700 (Other dimensions and designs on request)

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m ² K)
24	4.0	16	5.0	0.033	1.419
28	4.0	20	5.2	0.033	1.211
33	4.0	25	5.3	0.033	1.023
38	4.0	30	5.5	0.033	0.886

COSMO® Therm - SPE

Panel structure

as per DIN 68 705, A 100

Standard size (mm)

2500 x 1700mm

Plywood Gabon B/BB, peeled veneer

Top coats

- 4, 9, 12, 15 and 17 mm plywood smooth, Gabon A/BB, sliced veneer
 - Mahogany A/BB, sliced veneer
 - Pine A/BB, sliced veneer
 - Spruce A/BB, sliced veneer Oak A/BB, sliced veneer

Special Properties

Surfaces untreated Moisture-resistant CFC- and HCFC-free



COSMO® Silent

Sound-insulating composite panels

Noise is a problem of our modern time. Our environment becomes increasingly noisier. Therefore, it is an important task, to reduce noise pollution effectively to a minimum. We took up this challenge and developed a series of composite panels that have special noise control characteristics in addition to outstanding heat insulation. These elements can be used, for instance, in window sills, doors, shutter housings, machines, or equipment housings or as sound-absorbing hoods. We are offering composite panels of several sound transmission classes (I to V), from which a huge number has been tested by the ift (Institut für Fenstertechnik) referring their noise insulation characteristics.

COSMO[®] Silent (dB 38) - ALU

ALU on both sides, XPS core, heavy film insert

Top coats

Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

Polystyrene rigid foam, extruded (XPS) with heavy film insert

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
24	1.0	22 (9/4/9)	16.7	38	0.033	1.352

COSMO® Silent (dB 46/50) - ALU

ALU on both sides, core of mineral wool, heavy-film insert

Top coats

Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

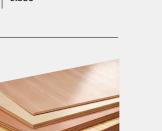
Mineral fibre insulating material (MIN) with heavy film

Standard sizes (mm)

Individually on request

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
31	1.5	27.5 (4/19.5/4)	29.4	46	0.035	1.30
42	2.0	38 (4/30/4)	32.6	50	0.035	0.93







20

Water-repellent

3000x1500

- Moisture-diffusing



Special Properties

Moisture-resistant Low weight CFC- and HCFC-free Special heavy film for improving the noise insulation characteristics

Standard sizes (mm)



Special Properties

- Heat- and sound-insulating
- Special heavy film for improving the noise
- insulation characteristics



COSMO® Silent

Sound-insulating composite panels

COSMO® Silent (dB 34/36/38) - PVC

PVC on both sides, XPS core, heavy film insert

Top coats

PVC

Core material

Polystyrene rigid foam, extruded (XPS) with heavy film insert

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Designs

PVC/dB34-XPS, PVC/dB36-XPS, PVC/dB38-XPS

Special Properties

- Increased impact resistance as per
- DIN EN ISO 179 (DIN 53 453) Weather-resistant
- UV-resistant in accordance with DIN EN ISO 4892

- Low weight
- Special heavy film for improving the noise insulation
- characteristics
- Paintable using the paint system recommended by us
- Cold weldable using COSMO®FEN PLUS

2000x1000, 3000x1500

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
23	1.5	20 (8/4/8)	15.6	36	0.033	1.444
24	2.0	20 (16/4)	16.7	38	0.033	1.432
24	2.0	20 (18/2)	11.8	34	0.033	1.335
34	2.0	30 (26/4)	17.1	38	0.033	0.999
34	2.0	30 (28/2)	12.1	34	0.033	0.951

COSMO[®] Silent (dB 45/47) - HPL

HPL on both sides, core of mineral wool

Top coats

High-pressure laminated panels (HPL)

Core material

Mineral fibre insulating material (MIN) with heavy film inserts

Designs

HPL-MIN/dB45 - ift 164 11442/1

HPL-MIN/dB47 - ift 164 11442/2

Special Properties

- Impact- and shock-resistant as per DIN EN 438/2
- UV- and weather-resistant
- Mechanical resistance: Resistant to abrasion, shock and scratching
- Chemical resistance to: Organic solvents, weak acids and leaches, fuel, oil, resistant to bacteria and fungus attack
- Heat- and sound-insulating
- Moisture-diffusing
- Special heavy film for improving the noise insulation characteristics
- All around with edge strip and vapour-tight film as moisture barrier

Standard sizes (mm)

Individually on request

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
27	2.0	4/15/4	26.7	45	0.035	1.52
32	2.0	4/20/4	26.9	47	0.035	1.25





- and meets the requirements of RAL-GZ 716/1
- Moisture-resistant
- CFC- and HCFC-free

Standard sizes (mm)



COSMO[®] Silent (dB 38) - HPL/HD

HPL/HD on both sides, XPS core, heavy film insert

Top coats

High-pressure laminated panels (HPL) with 200µ decorative film surface

Core material

Polystyrene rigid foam, extruded (XPS) with heavy film insert

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
24	2.0	16	16.8	38	0.033	1.453
28	2.0	20	17.0	38	0.033	1.235

COSMO[®] Silent (dB 38) - Quick-Tape

Adhesive film on both sides, XPS core, heavy film insert

Core material	
Polystyrene rigid foam, extruded (XPS) with heavy film insert	

Raw density

32 kg/m³

Special Properties

insulating factor (dB 38)

- handling

Standard sizes (mm)

3000x1500, 3000x1000

Panel thickness (mm)	Core material (mm)	Weight (kg/m²)	Sound insula factor (dB)
24	22	16.7	38

0.999
0.951









Special Properties

UV- and weather-resistant Moisture-resistant CFC- and HCFC-free Special heavy film for improving the noise insulation characteristics

Standard sizes (mm)

2150x900, 2150x1150, 3050x1150, 3050x1300

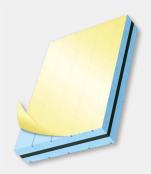




23

- Due to the application of a special heavy film, this element in connection with the aluminium top coat on both sides has a very good sound
- Fast bonding over the whole surface
- Immediate adhesion, fast action, and easy

No handling with adhesive or silicone cartridges No dirty surfaces due to adhesive or silicone Panels are ready for use immediately after pressing



ation Lambda value U-value (W/mK) (W/m^2K) 0.033 1.360

Burglar/penetration-resistive composite panels

Referring to their object-protecting characteristics penetration-resistive composite panels are to be classified in a higher level than glazing with resistance to thrown objects (manual attack). DIN EN 356 specifies the requirements and test methods for penetration-resistive glazing, which is intended to retard external forceful impacts on objects and/or persons within a protected area during a short period of time. If applied, penetration-resistive composite panels should be integrated in frames or structures that themselves provide a reasonable resistance to attacks. Generally, they are divided in classes P6B, P7B and P8B. There are test certificates available issued by ift (Institut für Fenstertechnik) for all three classifications.

COSMO® Protect (P6B/P8B) - ALU

ALU on both sides, XPS core, ALU insert

Top coats

Aluminium coated as per RAL, NCS or DB colour system, other special colours on request, also deliverable with anodized surface

Core material

Burglary resistance meas-

ured by axe test

Polystyrene rigid foam, extruded (XPS) with steel or ALU-insert

Test

P8B

P6B

Category of resistance / DIN EN 356 P8B / ift test report 213 33643

Panel thickness

(mm)

24

24

ALU insert

3.0

2.0

Special	Prop	erties

- Burglar-resistant characteristics
- CFC- and HCFC-free
- With aluminium insert or steel insert

Lambda value

(W/mK)

0.033

0.033

Increased impact resistance as per DIN EN ISO 179

UV-resistant in accordance with DIN EN ISO 4892

U-value

 (W/m^2K)

1.398

1.341

Standard sizes (mm)

2000x1000, 2500x1250, 3000x1500

Sound insulation

factor

(dB)

30

30

COSMO® Protect - PVC

PVC on both sides, XPS core, PVC insert

Top coats

PVC compact panel white, the external top coats are equipped with protective film

- Weather-resistant
- UV-resistant

Core material

Polystyrene-rigid foam, extruded (XPS)

- Thermal conductivity group 035
- Raw density 33 kg/m³
- Pressure resistance 0.30 N/mm² as per DIN 53421
- Moisture-resistant
- Free from CFC and HCFC

Test

- Successfully tested for shock resistance as per following standards/test standards: NF P 08-301, P 08-302 (France) Test report No.: 403 / 19 / 13242
- LNE TESTED (P191046) as per "EN 13501-1+A1: 2013" tested: Classification E.
- Certified by Avis Technique No. 6/16-2330_V2 Class of fire E

Panel thickness (mm)	PVC insert (mm)	Lambda value (W/mK)	U-value (W/m ² K)	Specific weight (kg/m ²)
24	1.30	0.033	1.246	5.7
28	1.30	0.033	1.083	5.9

COSMO[®] Protect (P7B) - PVC

PVC on both sides, XPS core, ALU insert

Top coats

PVC

Core material

Polystyrene rigid foam, extruded (XPS) with ALU insert

Test

Category of resistance DIN EN 356 P7B / ift test report 213 33641

and meets the requirements of RAL-GZ 716/1 Moisture-resistant

Weather-resistant

Special Properties

(DIN 53 453)

- CFC- and HCFC-free
- Burglar-resistant characteristics

Standard sizes (mm)

2000x1000, 2500x1250, 3000x1500

Burglary resistance measured by axe test	Panel thickness	ALU insert	Lambda value	U-value
	(mm)	(mm)	(W/mK)	(W/m²K)
Р7В	24	3.0	0.033	1.364







Special Properties

Increased impact resistance Low weight Weather-resistant Avis Technique

Standard sizes (mm)

3,000x1,500mm



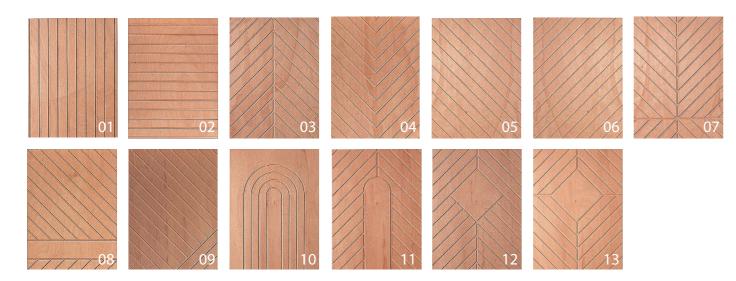


COSMO® Design Grooved composite panels

We are offering composite panels with milled top coats made of plywood, aluminium, PVC compact panels or HPL-high-pressure laminated panels with different milling patterns in accordance with the design overview.

A very special performance is provided by our COSMO® Art Design elements with surface patterns like concrete, rust or slate.

Design overview for milled top coats (applies to all surfaces)



Groove dimensions on request

COSMO® Design - SPE

Plywood on both sides, XPS

Top coats

Plywood

- Gabon B/BB, peeled veneer
- Gabon A/BB, sliced veneer
- Mahogany A/BB, sliced veneer
- Pine A/BB, sliced veneer
- Spruce A/BB, sliced veneer
- Oak A/BB, sliced veneer Larch A/BB, sliced veneer

Core material

XPS

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Panel thickness	Top coats	Core material	Weight	Lambda value	U-value
(mm)	(mm)	(mm)	(kg/m²)	(W/mK)	(W/m ² K)
29.5	9.5	16	8.1	0.033	1.353

Standard size (mm)

2500 x 1700 x 9.5mm

Groove type: Softline groove

COSMO® Design - SPE

Panel structure

- **9 mm plywood**, at least 5-fold bonded as per DIN 68 705, A 100
- Milled groove design in accordance with design overview

Special Properties

Surfaces untreated

- Surfaces sliced or peeled veneer
- CFC- and HCFC-free

Standard sizes (mm)

2500x1700 (Other dimensions and designs on request)

Groove type: Softline groove Groove centre distance: 100mm; groove width: 8mm; groove depth: 4.5 mm

Groove centre distance: 100mm; groove width: 8mm; groove depth: 4.5 mm





COSMO® Design - ALU

ALU on both sides, XPS core

Top coats

Aluminium, milling patterns in accordance with the design overview, coated as per RAL, NCS or DB colour system, other special colours on request

Core material

Polystyrene-rigid foam, extruded (XPS)

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

2000x1000

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
24	2.0	20	9.8	30	0.033	1.289

COSMO® Design - PVC

HPL on one side, XPS core, PVC on rear side, smooth

Top coats

PVC, milled groove, corresponding to our design overview

Core material

Polystyrene-rigid foam, extruded (XPS)

Test

fire E

design overview

- Surface white painted
- Increased impact resistance as per DIN EN ISO 179

Reaction to fire test as per DIN EN 13501-1 / Class of

CFC- and HCFC-free

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m²K)
24	2.5/1.5	20	7	30	0.033	1.251

COSMO® Design - HPL

HPL-groove on both sides, XPS core

Top coats

-	
High-pressure laminated panels (HPL)	

Core material

Polystyrene-rigid foam, extruded (XPS)

Test

Reaction to fire test as per DIN EN 13501-1 / Class of fire E

Groove type: Wide groove 🔨

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
24	3.0/2.0	19	8.1	29	0.033	1.312







Special Properties

Milled groove design in accordance with the design overview Moisture-resistant CFC- and HCFC-free

Standard sizes (mm)

Groove type: Wide groove 🥆

Groove centre distance: 100mm; groove width: 12mm; groove depth: 1.2 mm



Special Properties

- Milled groove design in accordance with the
- (DIN 53 453)
- Weather-resistant
- Moisture-resistant

Standard sizes (mm): 2000x1000, 3000x1500

Groove type: Wide groove ------

Groove centre distance: 100mm; groove width: 12mm; groove depth: 1.2 mm



Special Properties

- Milled groove in accordance with design overview
- Surface painted as per RAL (special paints on request)
- Weather-resistant
- Moisture-resistant
- CFC- and HCFC-free

Standard sizes (mm): 2150x900

Groove centre distance: 100mm; groove width: 12mm; groove depth: 12 mm

COSMO® Tech Individual composite panels

COSMO® Tech - PVC

PVC on both sides, PR core

Top coats

PVC

Core material

PUR recycling panel (PR)





HPL on both sides, PR core

Top coats

Core material

PUR recycling panel (PR)

High-pressure laminated panels (HPL)

- - - and scratching Chemical resistance to: Organic solvents, weak acids and leaches, fuel, oil, resistant to bacteria and
 - fungus attack Moisture-resistant
 - Low weight
 - drilling and screwing

Standard sizes (mm)

2800x1860, 2800x2070

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m ² K)
24	2.0	20	16.2	0.076	2.241
28	2.0	24	18.2	0.076	2.005
30	2.0	26	19.2	0.076	1.905
34	2.0	30	21.0	0.076	1.731

COSMO® Tech - HPL

HPL on both sides, PUR core, PR insert

Top coats

High-pressure laminated panels (HPL)

Core material

Polyurethane hard foam (PUR) PUR recycling panel (PR)

- shock and scratching
- acids and leaches, fuel, oil, resistant to bacteria and fungus attack
- Moisture-resistant
- Low weight
- drilling and screwing
- CFC- and HCFC-free (PUR)

Standard sizes (mm)

3050x1300

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m ² K)
25	1.5	22 (6.5/9.0/6.5)	11.4	0.026	1.30
27	1.5	24 (7.5/9.0/7.5)	11.5	0.026	1.20
31	1.5	28 (9.5/9.0/9.5)	11.7	0.026	1.03

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Lambda value (W/mK)	U-value (W/m ² K)
20	2.0	16	14.2	0.076	2.477
24	2.0	20	16.2	0.076	2.191
30	2.0	26	19.2	0.076	1.869
34	2.0	30	21.2	0.076	1.701

Special Properties

(DIN 53 453)

UV-resistant

drilling and screwing

Standard sizes (mm)

2000x1000, 3000x1500

Increased impact resistance as per DIN EN ISO 179

Suitable for sawing, milling, grinding, slot cutting,

Weather-resistant, moisture-resistant

COSMO® Tech - PVC

PVC on both sides, XPS core, TK inserts

Top coats

PVC

Core material

Polystyrene rigid foam, extruded (XPS) with inserts made of thermoplastic plastics material (TK)

Special Properties

- Minimum absorption of humidity
- Low weight
- Screwable with industrial screws for timber construction
- Durably moisture-resistant
- Environmentally-friendly inserts (TK is 100%) recyclable)

Standard sizes (mm)

on request

Variant	Panel thickness (mm)	Top coats (mm)	Core material (mm)
XPS/035/TK150	23	1.5	20
XPS/035/TK150	29	1.5	26
XPS/035/TK200	23	1.5	20
XPS/035/TK200	29	1.5	26











Special Properties

- Impact- and shock-resistant as per DIN EN 438/2 UV- and weather-resistant
- Mechanical resistance: Resistant to abrasion, shock
- Suitable for sawing, milling, grinding, slot cutting,



Special Properties

- Impact- and shock-resistant as per DIN EN 438/2 UV- and weather-resistant
- Mechanical resistance: Resistant to abrasion,
- Chemical resistance to: Organic solvents, weak
- Suitable for sawing, milling, grinding, slot cutting,



COSMO® Tech

Individual composite panels

COSMO® Tech - HPL

HPL on both sides, TK core

Top coats

High-pressure laminated panels (HPL)

Core material

Thermoplastic plastics material (TK/150)

Special Properties

- Minimum absorption of humidity due to closed cell
- Outstanding mechanical characteristics
- Low weight
- Screwable with industrial screws for timber construction
- Screwing together without pre-drilling (core)
- Durably moisture-resistant
- Swelling-resistant, i.e. no changes of dimensions
- High pressure resistance
- Environmentally-friendly inserts (TK is 100%) recyclable)

Standard sizes (mm)

2800x1860, 2800x2070

211	

COSMO[®] Tech - GFK GFK on both sides, TK core

Glass-fibre reinforced plastics (GRP)

Thermoplastic plastics material (TK)

Automotive manufacturing

Special Properties

- Low weight
- construction

Standard sizes (mm)

on request

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	U-value (W/m²K)
28	2.0	24	9.8	0.041	1.301
30	2.0	26	10.1	0.041	1.223

COSMO® Tech - GFK

GRP on one side anti-slip, TK core, GRP on rear side, smooth

Top coats

Glass-fibre reinforced plastics (GRP)

Core material

Thermoplastic plastics material (TK)

Field of application

Floor elements

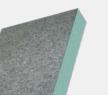
Special Properties

- Minimum absorption of humidity
- Outstanding mechanical characteristics
- Low weight
- Screwable with industrial screws for timber construction
- Durably moisture-resistant Swelling-resistant, i.e. no changes of dimensions
- High pressure resistance
- Environmentally-friendly inserts (TK is 100% recyclable)
- Slipping class R12 (fine) R13 (medium)

Standard sizes (mm)

on request

Variant	Panel thickness (mm)	Top coats (mm)	Core material (mm)	Lambda value (W/mK)	U-value (W/m²K)
XPS-P/TK150	23	1.5	20	0.041	1.509
XPS-P/TK150	29	1.5	26	0.041	1.236
XPS-P/TK200	23	1.5	20	0.043	1.562
XPS-P/TK200	29	1.5	26	0.043	1.283





Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK	U-value (W/m ² K)
23	1.5	20/TK150	7.9	0.041	1.51
29	1.5	26 / TK150	8.8	0.041	1.24
23	1.5	20 / TK200	8.9	0.043	1.56
29	1.5	26 / TK200	10.1	0.043	1.28





- Minimum absorption of humidity Outstanding mechanical characteristics
- Screwable with industrial screws for timber
- Durably moisture-resistant
- Swelling-resistant, i.e. no changes of dimensions High pressure resistance
- Environment-friendly core material (100% recyclable)



COSMO® Frame

Frame widening elements

COSMO® Frame - PVC

PVC on both sides, XPS/TK core

Top coats

PVC compact panels, white with protective film

Core material

Polystyrene rigid foam, extruded (XPS); thermoplastic plastics (PR)

Field of application

- Widening of frames
- substructure of lifting/sliding doors

Test

Airborne sound insulation as per EN ISO 717-1 Rw 36 (-1;-1) dB

Special Properties

- Moisture-resistant
- Weather-resistant UV-resistant
- CFC- and HCFC-free
- Suitable for sawing, milling, grinding, slot cutting, screwing and drilling
- Swelling-resistant and no changes of dimensions

Standard sizes (mm)

3000x1500, 4000x1500

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
70	2	12/26/28	13.3		0.033/0.043	0.497
74	2	18/26/26	13.4		0.033/0.043	0.469
84	2	20/26/34	13.7	33	0.033/0.043	0.411
90	2	12/26/48	13.9		0.033/0.043	0.378

Special Properties

Noise insulating Moisture-resistant

Weather-resistant

CFC- and HCFC-free

Standard sizes (mm)

3000x1500, 4000x1500

screwing and drilling

Suitable for sawing, milling, grinding, slot cutting,

UV-resistant

COSMO® Frame (dB) - PVC

PVC on both sides, XPS/PR core, heavy film insert

Top coats

PVC compact panels, white with protective film

Core material

Polystyrene rigid foam, extruded (XPS); PUR-recycling panel (PR)

Field of application

- Widening of frames
- substructure of lifting/sliding doors

Test

Airborne sound insulation as per EN ISO 717-1 Rw 40 (-1;-1) dB, ift 164 32607/Z10

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	Sound insulation factor (dB)	U-value (W/m²K)
70	2	24/4,0/26/12	32.2	0.033/0.076	40	0.606
74	2	22/4,0/26/18	32.3	0.033/0.076		0.546





Top coats

N. M. N.

PVC compact panels

Core material

Polystyrene rigid foam, extruded (XPS); PUR-recycling panel (PR)

Field of application

- Widening of frames
- substructure of lifting/sliding doors

Test

Airborne sound insulation as per EN ISO 717-1 Rw 36 (-1;-1) dB, ift 164 32607/Z11

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m ²)	Sound insulation factor (dB)	Lambda value (W/mK)	U-value (W/m ² K)
70	2	28/26/12	22.2	36	0.033/0.076	0.572
74	2	26/26/18	22.5		0.033/0.076	0.535
84	2	20/26/34	22.8		0.033/0.076	0.461
86	2	8/26/48	22.9		0.033/0.076	0.448
88	2	12/26/46	23.0		0.033/0.076	0.436
90	2	12/26/48	23.1		0.033/0.076	0.425

COSMO® Frame (dB) - PVC

PVC on both sides, XPS/TK core, heavy film insert

PVC compact panels, white with protective film

Core material

Polystyrene-rigid foam, extruded (XPS); Thermoplastic plastics material (TK)

Field of application

- Widening of frames
- substructure of lifting/sliding doors

Special Properties

- Noise insulating
- Moisture-resistant Weather-resistant
- UV-resistant
- CFC- and HCFC-free
- screwing and drilling

Standard sizes (mm)

3000x1500, 4000x1500

Panel thickness (mm)	Top coats (mm)	Core material (mm)	Weight (kg/m²)	Lambda value (W/mK)	Sound insulation factor (dB)	U-value (W/m ² K)
70	2	24/4,0/26/12	21.7	0.033/0.043		0.523
74	2	22/4,0/26/18	21.8	0.033/0.043		0.492
84	2	20/4,0/26/30	23.5	0.033/0.043	37	0.428







Top coats







Special Properties

Moisture-resistant Weather-resistant UV-resistant

CFC- and HCFC-free

■ Suitable for sawing, milling, grinding, slot cutting, screwing and drilling

Standard sizes (mm)

3000x1500, 4000x1500



- Suitable for sawing, milling, grinding, slot cutting,
- Swelling-resistant and no changes of dimensions



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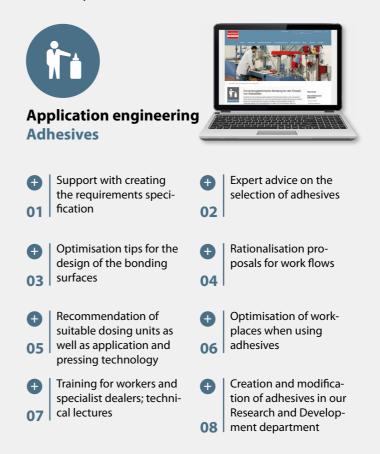
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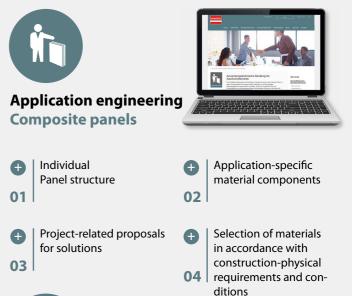


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Fields of application

- Windows and doors
- Transportation / Marine engineering
- Industry
- Assembly
- Dry construction
- Airtight bonding
- 🛨 Wood / Furniture industry
- Container construction
- Composite panels
- Fire protection
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Fields of application

- Window and façade
- Door construction
- Industry
- Automotive manufacturing
- Trailer construction
- Partition panel construction
- Ð Gate construction
- Ð Container construction
- Energy conservation
- Fire protection
- Burglar resistance
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Fields of application

- 🛨 Sanitary area
- 🛨 Clothing care
- 🕂 Food industry
- Household and gastronomy
- + Windows and glass
- Dishwasher
- Carpet and upholstery
- 🛨 Industry and workshop
- Ð Cars
- 🛨 Skin cleaning
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