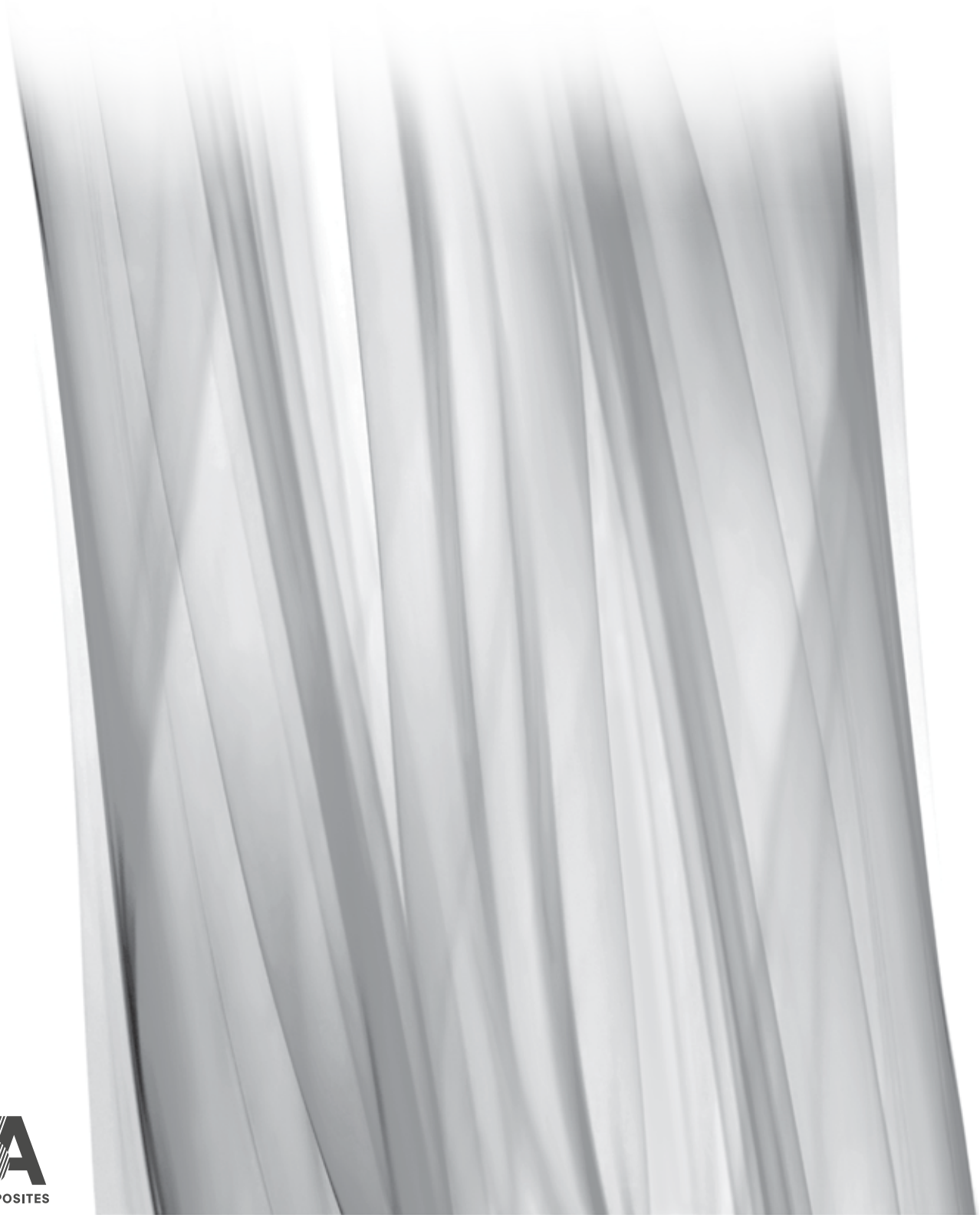
KAPA®

KAPA® tech

THE INNOVATION WITH UNIQUE PROPERTIES:

LIGHTWEIGHT – RIGID – DIFFICULT TO IGNITE



3A COMPOSITES

KAPA®tech

THE INNOVATION WITH UNIQUE PROPERTIES

KAPA®tech is the innovative lightweight foamboard of 3A Composites. The pioneering composition of PUR foam and aluminium skins combines lightweight with rigidity. Moreover, KAPA®tech is euroclass B certified; it is the first KAPA® board in the category "difficult to ignite".
KAPA®tech is also available with a MED-certified composition for shipbuilding.

FIRE CERTIFICATIONS

EUROCLASS

- B-s2, d0 according to EN ISO 13501-1 "difficult to ignite"
- M1 according to NF P 92-501
- Class 0 according to BS 476 part 6 +7

RAILWAY

- Hazard level HL 1-3 (R1) according to EN 45545-2:2013

SHIP BUILDING – MED-CERTIFIED

- IMO Resolution MSC.307(88) FTP Code 2010
- MED 118.396 (KAPA®tech composition with MED-certification)

0736/16

PRODUCT

- Polyurethane foam core with coated aluminium skins
- Lightweight foamboard suitable for exterior as well as for interior use
- Weather-resistant and resistant to humidity
- Good dimensional stability and stiffness
- Good insulating properties
- Protective film on both sides

APPLICATIONS

KAPA®tech offers excellent properties and a wide range of applications in the transport sector, for industrial applications, as well as in furniture and interior design.

TRANSPORT / INDUSTRY

- Ship building, railways and caravans
- Elevator cabins
- Air ducts
- Partitions
- Ceilings

FURNITURE DESIGN / INTERIOR DESIGN

- Base panel for furniture construction
- Shop fitting
- Stand construction

PRODUCT RANGE

Panel thickness	**5 mm**	**10 mm**
Cover sheet thickness	0.2 mm	0.2 mm
Standard formats (WxL)	2500 x 1250 mm 3050 x 1250 mm	2500 x 1250 mm 3050 x 1250 mm

The above dimensions are standard ex works.
Individual sizes are available on request.

PROCESSING CAPABILITIES

FORMING
- Easy processing with conventional woodworking and metalworking machinery
- Saw blade with trapezoidal/duplovit teeth
- Good routing results

FIXING
- Pre-drill the hole to avoid that the aluminium dents under the pressure of the screw
- Use drill with centring tip
- Do not draw the screws too strong: the sheet needs space to expand
- Use washers
- Bonding e.g. with interlocking H- or W-profiles

GLUING
- Aluminium, polyester lacquer and PUR foam are easy to glue with a variety of conventional adhesives

PRINTING
- Ideal for screen and digital printing

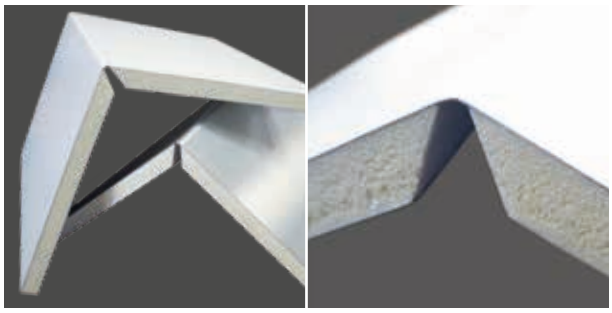
SURFACE FINISH
- Lamination with HPL
- Lamination with decorative film
- Other types of finishes are possible

EDGING
- ABS – plastic – profile (typical profile of furnitures)
- PVC – profile
- Adhesive tape

Upon request, we are pleased to send you detailed processing instructions of KAPA®tech by email.

AWARD

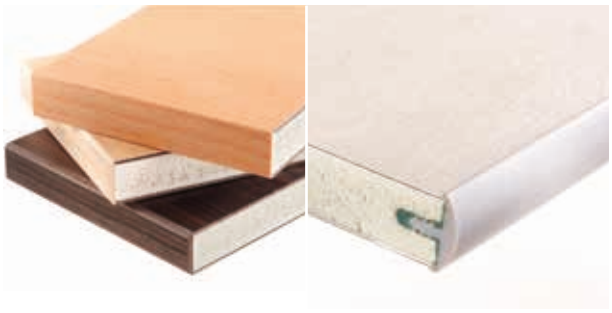
KAPA®tech has won the EDP Award 2014 as best rigid substrate!



Folded with routing and folding technique

Digitally printed

Laminated with real wood



Laminated with HPL, edges sealed with an ABS profile

Laminated with decorative film, edges sealed with a PVC T-profile

Various applications from the fields of stand and furniture construction, shop fitting as well as transport and industry

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PRODUCT PROPERTIES

		KAPA®tech		
Panel thickness	mm	**5**	**10**	**15**
Aluminium cover sheets	mm	0.2	0.2	0.2
Core material		PUR-foam		
Panel weight / Grammage	g/m²	1.620	1.940	2.280
Thermal properties				
Service temperature range permanent	°C	-30 to +70		
Service temperature range short-term	°C	+120		
Heat transition	W/mK	0.026		
Heat transition coefficient U	W/m²K	3.61	2.13	1.51
Mechanical properties				
Flexural rigidity [ExI]	kN cm²/m	1.700	7.500	17.000
Fire classification				
Euro class		B-s2, d0 according to EN ISO 13501-1 "difficult to ignite" M1 according to NF P 92-501 class 0 according to BS 476 part 6 +7		
Railway		Hazard level HL 1-3 (R1) according to EN 45545-2:2013		
Ship building		Ship building / IMO Resolution MSC.307(88) FTP Code 2010 MED 118.396 (KAPA®tech with MED-certification) 0736/16		

Further technical information about KAPA®tech available on request.

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