KAPA®

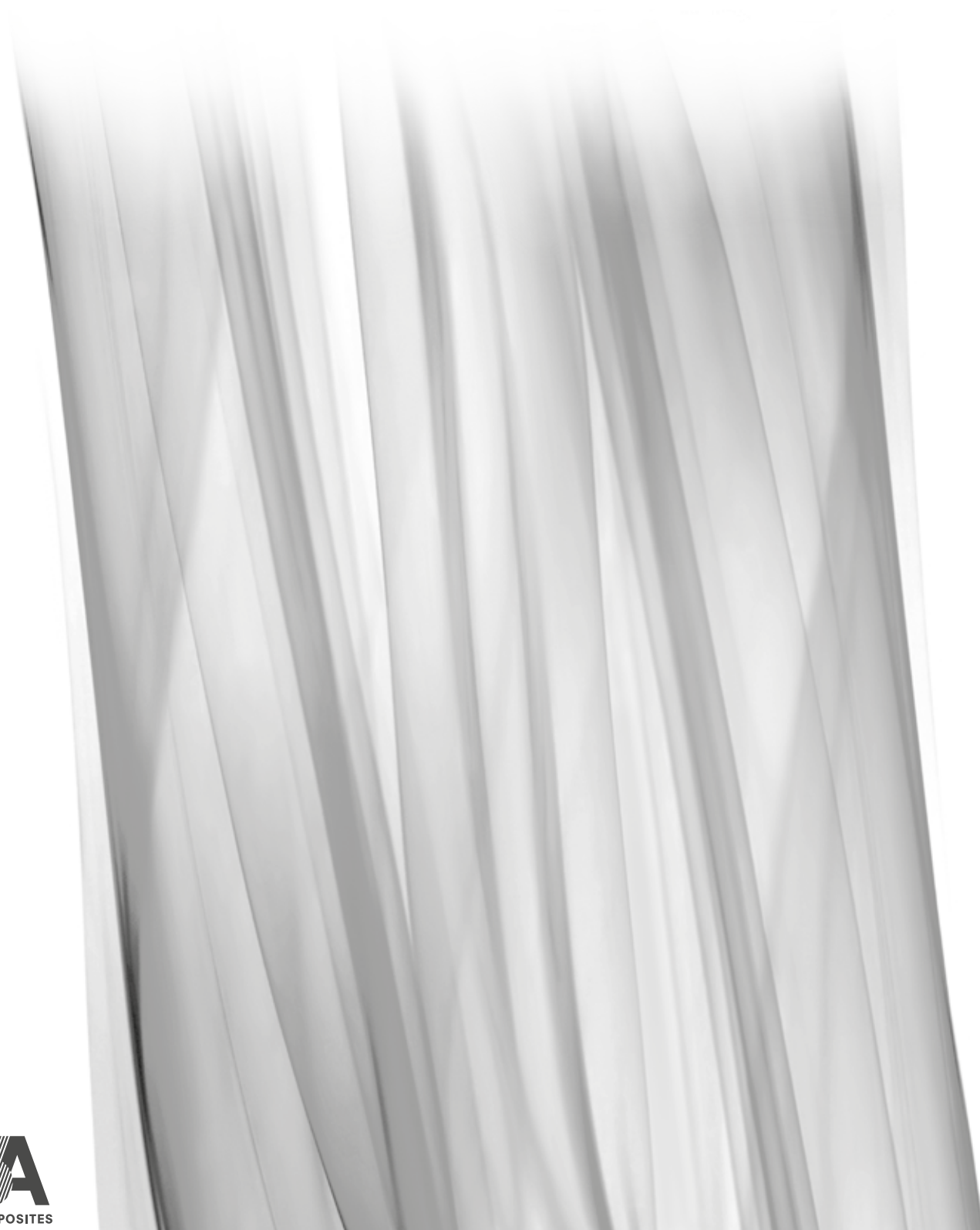## KAPA® tech

THE INNOVATION WITH UNIQUE PROPERTIES:

LIGHTWEIGHT – RIGID – DIFFICULT TO IGNITE

KAPA®tech
THE INNOVATION WITH UNIQUE PROPERTIES

KAPA®tech, an innovative lightweight sheet featuring a unique composition of a polyurethane foam core and aluminium cover layers, combines lightweight with rigidity. Thanks to the lacquered aluminium cover layers and a temperature and moisture-resistant core, KAPA®tech is the first KAPA® sheet for both indoor and outdoor applications. KAPA®tech is not only suitable for use outdoors, one of the product's main advantages is its fire classification: it is flame retardant and qualifies as "difficult-to-ignite".

FIRE CERTIFICATIONS

EUROCLASS
■ B-s2, d0 according to EN ISO 13501-1
  "difficult to ignite"

RAILWAY
■ EN 45545-2:2013
  Hazard level HL 1-3 (R1)

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
■ 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
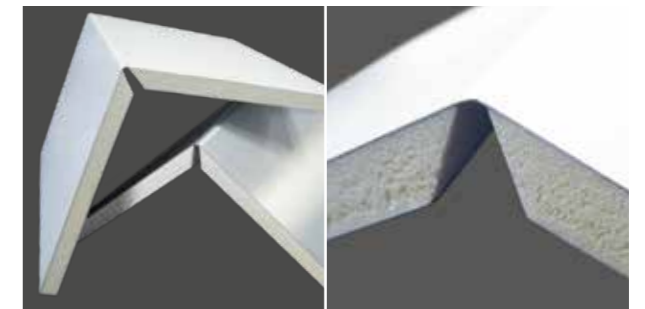■ Ideal for screen and digital printing

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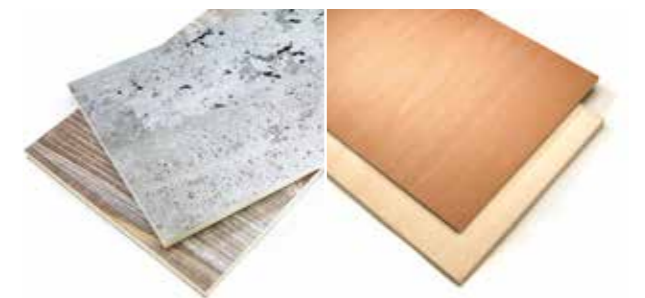■ Other types of finishes are possible

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.

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

KAPA·tech

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/m^2	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/m^{2}K	3.61	2.13	1.51
Mechanical properties				
Flexural rigidity [ExI]	kN cm^2/m	1.700	7.500	17.000
Fire classification				
Euro class		B-s2, d0 according to EN ISO 13501-1 "difficult to ignite"		
Railway		EN 45545-2:2013 Hazard level HL 1-3 (R1)		

Further technical information about KAPA®tech available on request.