THE INNOVATION WITH UNIQUE PROPERTIES:
LIGHTWEIGHT – RIGID – DIFFICULT TO IGNITE
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)

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
■ 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

PRODUCT RANGE

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>5 mm</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover sheet thickness</td>
<td>0.2 mm</td>
<td>0.2 mm</td>
</tr>
<tr>
<td>Standard formats (WxL)</td>
<td>2500 x 1250 mm</td>
<td>2500 x 1250 mm</td>
</tr>
<tr>
<td></td>
<td>3050 x 1250 mm</td>
<td>3050 x 1250 mm</td>
</tr>
</tbody>
</table>

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!

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

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>mm</th>
<th>KAPA®tech</th>
<th>KAPA®tech 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium cover sheets</td>
<td>mm</td>
<td>5  0.2</td>
<td>10  0.2</td>
</tr>
<tr>
<td>Core material</td>
<td></td>
<td>PUR-foam</td>
<td>PUR-foam</td>
</tr>
<tr>
<td>Panel weight / Grammage</td>
<td>g/m²</td>
<td>1.620</td>
<td>1.940</td>
</tr>
</tbody>
</table>

### Thermal properties

<table>
<thead>
<tr>
<th>Service temperature range permanent</th>
<th>°C</th>
<th>-30 to +70</th>
<th>-30 to +70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service temperature range short-term</td>
<td>°C</td>
<td>+120</td>
<td>+120</td>
</tr>
<tr>
<td>Heat transition</td>
<td>W/mK</td>
<td>0.026</td>
<td>0.026</td>
</tr>
<tr>
<td>Heat transition coefficient U</td>
<td>W/m²K</td>
<td>3.61</td>
<td>2.13</td>
</tr>
</tbody>
</table>

### Mechanical properties

| Flexural rigidity [Efl] | kN cm²/m | 1.700 | 7.500 | 17.000 | 2.500 | 10.500 |

### 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
  - B-s2, d0 according to EN ISO 13501-1

- **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)

Further technical information about KAPA®tech available on request.