CAPATECT SIAMESE THERMAL INSULATION BOARD

DESCRIPTION
Capatect Siamese is polystyrene-based thermal insulation board which has a compatible production process with Thermal Insulation Materials Standard “TS EN 13163”.

PROPERTIES
• Capatect Siamese Thermal Insulation Board has 20% better thermal insulation value than standard EPS boards by the help of adding carbon to its structure in ideal ratio. According to the calculation process in Thermal Insulation Materials Standard “TS EN 13163”, the Thermal Conductibility Coefficient of Capatect Siamese is λD=0.032 W/mK.
• The vapour permeability coefficient of Capatect Siamese is (µ=20-40). By this property, there is no vapour accumulation on the buildings which are insulated with Capatect Thermal Insulation System.
• Under normal conditions, Capatect Siamese can resist mechanic effects successfully in long and short periods. Also Capatect Siamese can prevent such cracks caused by expansion and shrinkage movements of the buildings. on plaster, paint or coating.
• Capatect Siamese is stored according to standards a period of time. In this period, all the production gas and vapour move on the board and Capatect Siamese reaches perfect dimension stability.

TECHNICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>CAPATECT SIAMESE</th>
<th>UNIT</th>
<th>CLASS</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Conductibility Coefficient</td>
<td>0.031</td>
<td>W/mK</td>
<td></td>
<td>TS EN 13163</td>
</tr>
<tr>
<td>Pull-off Resistance</td>
<td>&gt;100 kPa</td>
<td>TR 100</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Resistance to Impact</td>
<td>&gt;60 kPa</td>
<td>CS(10)60</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Length Tolerance</td>
<td>± 2 mm</td>
<td>L2</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Width Tolerance</td>
<td>± 2 mm</td>
<td>W2</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Thickness Tolerance</td>
<td>± 1 mm</td>
<td>T2</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Squareness Tolerance</td>
<td>± 2 mm/m</td>
<td>S2</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>± %0,2</td>
<td>DS(N)2</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Under 23 °C and %50 relative humidity for 48 hours</td>
<td>%1</td>
<td>DS(70,-11)</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Long term water absorption</td>
<td>&lt; %1</td>
<td>WL(T)1</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Full submerge one week</td>
<td>&lt; %3</td>
<td>WL(T)3</td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Partial submerge</td>
<td>&lt; 0,5 kg/m²</td>
<td></td>
<td>TS EN 13499</td>
<td></td>
</tr>
<tr>
<td>Water Vapour Permeability Coefficient</td>
<td>20-40</td>
<td></td>
<td>TS EN 13163</td>
<td></td>
</tr>
<tr>
<td>Water Vapour Permeability Coefficient</td>
<td>Not Flammable</td>
<td>B1</td>
<td>DIN 41202</td>
<td></td>
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<tr>
<td>Fire Resistance</td>
<td></td>
<td></td>
<td>E</td>
<td>TS EN 13501-1</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>-50 / +75 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sizes</td>
<td>50 x 100 cm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thicknesses</td>
<td>2,3,4,5,6,7,8 cm</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Since this technical sheet was prepared considering the general conditions, please contact our technical support office for details which are not stated above sufficiently. Otherwise, the manufacturing company cannot be held responsible for information insufficiency.
**STORAGE**

Capatect Siamese Thermal Insulation Boards must be stored away from direct sunlight, cool and lofted places; apart from solvent and thinner like flammable materials.

This technical data sheet is prepared according to normal conditions and if you can’t find enough information in this sheet, please appeal to our technical support department. In other cases, lack of knowledge does not assign any responsibility to the producer.

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