



The oil and gas industry places extreme demands on passive fire protection on its installations. Passive fire protection on the installations is therefore a vital component on the safety system, and the standards and documentation required for compliance are equally extensive.

ENERGY Fireboard® is a precast and cured board, type epoxy based passive fire protection. The board is flexible and easy to fit onto curved surfaces. Epoxy is an intumescent fire insulation product which expands up to 5 times its own thickness during high temperature exposure. The board is supplied fully sealed with a polyester reinforced aluminum foil. Edges and cuts can be sealed with aluminum tape.

#### **Areas of use**

ENERGY Fireboard® is also applied as fire insulation in ENERGY Firecover® and ENERGY Fireshield®, wherever there are fire insulation requirements for vessels, pipes and technical equipment. Intumescent epoxy products are frequently applied as passive protection in the oil and gas industry. The product can be used at service temperatures from -30°C to + 80°C.

#### **Installation and adaption**

ENERGY Fireboard® can be cut by knife or scissors. Edges and cuts shall be sealed with aluminum tape. The board is most easily cut, bent and adapted when stored at room temperature. During cutting, the board shall not be subject to work or tools generating heat above 80°C. Usually the board is fixed to steel plates with M3 bolts or pop rivets.

## Technical information

<b>Product description</b>	<b>ENERGY Fireboard® Cured heat expanding epoxy board</b>
<b>Epoxy material</b>	<b>Pitt-Char XP</b>
<b>Thermal conductivity</b>	<b>0,244 W/m°C - 20°C</b>
<b>Mass density</b>	<b>1,06 g/cm<sup>3</sup></b>
<b>Temperature resistance</b>	<b>-30°C / +80°C</b>
<b>Aluminum foil</b>	<b>Multifoil 12/25/12 Laminate</b>
<b>Aluminum foil thickness</b>	<b>0,049mm</b>
<b>Humidity absorption foil</b>	<b>&lt; 0.3 %</b>
<b>Steam permeability</b>	<b>0,000001 gr/m2/hrs. mmHg (practically water vapor tight)</b>
<b>Board dimension</b>	<b>800mm x 2250mm (W x L)</b>
<b>Thickness of plates</b>	<b>4mm, 6mm, 8mm, 10mm</b>
<b>Weights</b>	<b>4mm Thickness = 4,24 kg/m<sup>2</sup> 6mm Thickness = 6,4 kg/m<sup>2</sup> 8mm Thickness = 8,5 kg/m<sup>2</sup> 10mm Thickness = 10,1 kg/m<sup>2</sup></b>