

# ECAP<sup>®</sup> NANO

PREFABRICATED THERMAL INSULATING  
BOARD HIGHLY PERFORMANT



## ECAP<sup>®</sup> NANO

Prefabricated thermal insulating board highly performant

PRODUCT	Composed of an Aerogel nanotechnology insulator, coupled to a reinforced polypropylene breathable membrane with glass fiber.		
PACKING AND STORAGE	Board with straight edge 720 x 1400 mm (1,008 m <sup>2</sup> ). · Thickness mm: 10 - 20 - 30 - 40 - 50 - 60 (in addition to the smoothing mortar thickness which is approximately 3 mm) · Pallet: box on pallet of 1440 x 735 cm · Storable in a cool and dry place away from frost and water		
COMPOSITION	Thermal insulating board made of Aerogel (various thicknesses) · Cement based smoothing mortar (thickness: approx. 3 mm) · Alkali-resistant, dimensionally stable fiberglass mesh 160 gr/m <sup>2</sup> covered by the smoothing mortar with prearranged overlaps · Punched holes for the insertion of the dowels		
APPLICATION FIELDS	<ul style="list-style-type: none"> <li>· External thermal insulation</li> <li>· Internal thermal insulation for walls and ceilings</li> <li>· Thermal insulation of prefabricated buildings</li> <li>· Refurbishing and renovation of façades</li> <li>· Elimination of construction and general thermal bridges</li> <li>· Protection of the façades from rain</li> </ul>		
APPLICATION	See the "Application Manual".		
WARNINGS	<ul style="list-style-type: none"> <li>· Do not apply under the rain, at a temperature lower than +5°C or with the risk of frost</li> <li>· Apply with relative humidity between 45% and 80%. Do not apply with relative humidity too low</li> <li>· For the detailed methods of use and application consult the "Application Manual", or contact the Edilteco Engineering Department</li> </ul>		
TECHNICAL CHARACTERISTICS	Board shape:	1400 x 720 mm	n.d.
	Thickness:	10 / 20 / 30 / 40 / 50 / 60 mm	n.d.
	Thermal conductivity ( $\lambda_0$ ) a 10 °C:	0,015 W/mK	EN 12667
	Permeability to water vapour $\mu$ :	5	EN 12086
	Limit temperature of use:	-200 °C +200 °C	n.d.
	Compressive strenght (for a deformation of the 10%):	80 KPa	EN 826
	Specific thermal capacity:	1.000 J/kgK	ASTM E 1269
	Nominal density:	230 ± 20% kg/m <sup>3</sup>	n.d.
	Fire reactivity:	C S <sub>1</sub> D <sub>0</sub>	EN 13501-1
	Long term water absorption by partial immersion:	Wp ≤ 0,01 kg/m <sup>2</sup>	EN 1609
	Color:	grey - white	n.d.



Thermal Insulation & Chemicals Division



Edilteco S.p.A. Via dell'Industria, 710 - 41038 San Felice sul Panaro (MO) Italy  
Ph. +39 0535 82161 - Fax +39 0535 82970 - [www.edilteco.com](http://www.edilteco.com) | [info@edilteco.com](mailto:info@edilteco.com)

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HEAT RESISTANCE	THICKNESS	VALUES - R=[m <sup>2</sup> K/W]
	10 mm	0,67
	20 mm	1,34
	30 mm	2,01
	40 mm	2,68
	50 mm	3,33
	60 mm	4,00

All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.



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Ph. +39 0535 82161 . Fax +39 0535 82970 . [www.edilteco.com](http://www.edilteco.com) | [info@edilteco.com](mailto:info@edilteco.com)



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