



ECAP[®] 100 GTL

PRE-FINISHED THERMAL INSULATING EPS BOARDS,
WITH GRAPHITE

ECAP[®] 100 GTL

Pre-finished thermal insulating EPS boards, with graphite

PRODUCT	Pre-finished EPS board, class 100, with graphite. Content of recycled material/byproduct (post-consumer) ≥ 10% *				
PACKAGING AND STORAGE	Board with straight edge 600 x 1200 mm (0,72 m ²). · Thickness: 30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 - 120 - 150 - 180 - 200 mm (+ 3 mm smoothing mortar). · Pallet: box on pallet 120 x 120 x h. 120 cm. · Keep in a cool and dry place, away from frost and water.				
COMPOSITION	Thermal insulating EPS board with graphite (various thicknesses). · Cement-based smoothing mortar (approx. thickness 3 mm). · Alkali resistant, dimensionally stable fiberglass mesh 160 gr/m ² covered by the smoothing mortar and with prearranged overlaps. · Punched holes for the insertion of the dowels.				
APPLICATION FIELDS	<ul style="list-style-type: none"> · External thermal insulation. · Internal thermal insulation of walls and ceilings. · Thermal insulation of prefabricated building. · Refurbishing and renovation of façades. · Elimination of construction and general thermal bridges. · Protection of the façades from rain. 				
APPLICATION	Consult "The Application Manual" or contact the <i>Edilteco Technical Department</i> .				
WARNINGS	<ul style="list-style-type: none"> · Do not apply with temperatures higher than +35 °C. In case of pointing and smoothing carried out under the direct sunlight, take the necessary preventative measures (such as scaffold netting). · Do not apply under the rain, at temperatures lower than +5 °C or with the risk of frost. · Apply with relative humidity between 45% and 80%. Do not apply with relative humidity too low. 				
TECHNICAL CHARACTERISTICS <i>(Thermal insulating board in EPS Class 100)</i>	DESCRIPTION	CODIFICATION UNI EN 13163	UNIT OF MEASURE	VALUE	STANDARD
	Length:	L{2}	mm	± 2	EN 822
	Width:	W{2}	mm	± 2	EN 822
	Thickness:	T{1}	mm	± 2	EN 823
	Orthogonally:	S{2}	mm/mm	± 2/1000	EN 824
	Planarity:	P{3}	mm	± 4	EN 825
	Dimensional stability (under normal laboratory conditions):	DS{N}	%	± 0,2	EN 1603
	Stressing to compression (to 10% of deformation):	CS{10/Y}	kPa	≥ 100	EN 826
	Flexural strength:	BS	kPa	≥ 200	EN 12089
	Thermal conductivity declared to +10 °C:	λ _D	W/mK	0,030	EN 12667
	Coefficient of linear thermal expansion:	-	K ⁻¹	65 x 10 ⁻⁶	-
	Limit temperature of use:	-	°C	80	-

*% by weight insulating panel



Thermal Insulation & Chemicals Division



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	DESCRIPTION	CODIFICATION UNI EN 13163	UNIT OF MEASURE	VALUE	STANDARD
TECHNICAL CHARACTERISTICS (Thermal insulating board in EPS Class 100)	Fire reactivity:	-	-	Class E	EN 13501
	Factor of resistance to the water vapour diffusion:	μ	-	30 ÷ 70	EN 12086
	Water absorp. by total immersion and for a long period:	WL(T)	%	≤ 3	EN 12087
	Water absorp. by partial immersion and for a long period:	Wlp	kg/m ²	$\leq 0,1$	EN 12087
	Specific thermal capacity:	C _p	J/(kg.K)	1450	UNI EN 10456

	DESCRIPTION	UNIT OF MEASURE	VALUE
TECHNICAL CHARACTERISTICS (Cement smoothing mortar)	Specific weight:	kg/m ³	1400
	Grain size:	mm	0,6
	Permeability to water vapour:	μ	approx. 50
	Thermal conductivity declared to +10 °C:	W/mK	0,80
	Value S _d 3 mm thickness:	-	0,15

	DESCRIPTION	UNIT OF MEASURE	VALUE
TECHNICAL CHARACTERISTICS (Alkali-resistant fiberglass mesh)	Weight (treated air mass):	gr/m ²	155 ± 5
	Tensile strength:	N/mm	approx. 46 (equal to 2300 N/S cm)
	Tensile strength after 3 days:	-	> 50% of the starting value > 20 N/mm (equal to 1000 N/S cm)

	THICKNESSES mm	VALUES - R _v = (m ² K)/W	STANDARD
DECLARED THERMAL CONDUCTIVITY (ECAP® board)	30	1,00	EN 12667
	40	1,30	
	50	1,65	
	60	2,00	
	70	2,30	
	80	2,65	
	90	3,00	
	100	3,30	
	120	4,00	
	140	4,65	
	150	5,00	
	160	5,30	
	180	6,00	
200	6,65		

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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