



$\lambda_D =$
0,035
W/mK

ECAP[®]
L150

**PRE-FINISHED THERMAL
INSULATING BOARDS**

ECAP L150
Pre-finished thermal insulating boards

PRODUCT	Pre-finished EPS board, class 150.
PACKAGING AND STORAGE	Board with straight edge 600 x 1200 mm (0,72 m ²) · Thickness mm: 30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 - 120 - 150 - 180 - 200 (+ 3 mm smoothing mortar). · Pallet: box on pallet 120 x 120 x h. 120 cm. · Keep in a cool and dry place, sheltered from frost and water.
COMPOSITION	· Thermal insulating board in EPS class 150 (various thicknesses). · Cement-based smoothing mortar (approx. thickness 3 mm). · Alkali resistant, dimensionally stable fibreglass mesh 160 gr/m ² covered by the smoothing mortar and with prearranged overlaps. · Punched holes for the insertion of the anchors.
FIELDS OF APPLICATION	· External thermal insulation. · Internal thermal insulation for 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.
SURFACE PREPARATION AND APPLICATION	Consult "The Application Manual" (available on request) or contact the Edilteco Technical Department.
WARNINGS	· 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. · For the detailed methods of use and application consult "The Application Manual" or contact the Edilteco Technical Department.

TECHNICAL CHARACTERISTICS <i>Thermal insulating board in EPS class 150</i>	DESCRIPTION	CODIFICATION according to UNI EN 13163	VALUE	NORM
	Length:	L(2)	± 2 mm	EN 822
	Width:	W(2)	± 2 mm	EN 822
	Thickness:	T(1)	± 1 mm	EN 823
	Orthogonally:	S(2)	± 2 mm/m	EN 824
	Planarity:	P(5)	± 5 mm	EN 825
	Dimensional stability:	DS(N)	± 0,5 %	EN 1603
	Stressing to compression to 10% of deformation:	CS(10/Y)	≥ 150 kPa	EN 826
	Flexural strength:	BS	≥ 200 kPa	EN 12089
	Thermal conductivity declared to 10 °C:	λ_D	0,035 W/mK	EN 12667
Coefficient of linear thermal expansion:		65x10 ⁻⁶ K ⁻¹	-	
Limit temperature of use:	-	80 °C	-	



Thermal Insulation & Chemicals Division



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	DESCRIPTION	CODIFICATION according to UNI EN 13163	VALUE	NORM
TECHNICAL CHARACTERISTICS <i>Thermal insulating board in EPS class 150</i>	Fire reactivity:	-	E class	EN 13501-1
	Factor of resistance to the water vapour diffusion:	μ	30 - 70	EN 12086
	Water absorption by total immersion and for a long period:	WL(T)	$\leq 2\%$	EN 12087
	Permeability to water vapour:	δ	0,010 - 0,024 mg/(Pa·h·m)	EN 12086
	Specific thermal capacity:	C_p	1340 J/kgK	EN 10456
	Elastic compression module:	E	5900 - 7200 kPa	EN 826
TECHNICAL CHARACTERISTICS <i>Cement based smoothing mortar</i>	DESCRIPTION	VALUE		NORM
	Specific weight:	1350 kg/m ³		UNI EN 1015-10
	Grain size:	< 0,8 mm		-
	Permeability to water vapour μ :	≤ 20		UNI EN 1015-19
	Thermal conductivity declared to 10 °C:	0,40 W/mK		UNI EN 1745
TECHNICAL CHARACTERISTICS <i>Alkali-resistant fibreglass mesh</i>	DESCRIPTION	VALUE		NORM
	Weight (dressed air mass) $\pm 5\%$:	160 g/m ²		UNI EN ISO 12127
	Tensile strength (initial state):	2300 N/5 cm (equivalent to ≥ 36 N/mm)		UNI EN ISO 13934-1
	Tensile strength after 28 days ageing in an alkaline environment:	≥ 20 N/mm (> 50% of the initial value, in both directions)		UNI EN ISO 13934-1

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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