

EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS

CT EPS



- *CT EPS Boards are manufactured with the expansion method from dense, small beads of polystyrene.*
- *These beads contain a volatile gas which, when steam-heated expand and puff up the beads.*
- *Further steam-heating in a mould, fuses the beads into a large block which is then cut into boards by passing it through heated parallel wires.*
- *With low water vapour diffusion resistance factor ($\mu=20-40$) of CT EPS, the wall breathes well, so there will be no condensation, mould and dampness on indoor of the insulated wall.*

TECHNICAL SPECIFICATIONS	UNIT	DESCRIPTION										TOLERANCE	STANDARD
Material		Expandable Polystyrene Insulation Board										EPS-TS EN	TS EN 13163
Density	kg/m ³	16										-1	-
Width x Length	mm	500 1000										± 2 mm (W2) ± 2 mm (L2)	TS EN 822
Thickness	mm	30	40	50	60	70	80	100	120	140		± 1 mm (T2)	TS EN 823
Fire behaviour	-	E											TS EN 13501-1
Thermal conductivity declared value (10°C)	W/mK	0,039										-	TS EN 13163
Thermal resistance	m ² K/W	0,75	1,00	1,25	1,50	1,75	2,05	2,55	3,05	3,55		-	TS EN 13163
Max. service temperature	°C	75										-	-
Squareness	mm/m	S2										2 mm/m	TS EN 824
Flatness	mm/m	P4										± 5 mm/m	TS EN 825
Dimensional stability	%	DS(N)2										± % 0,2	TS EN 1605
Bending strength (min.)	kPa	BS 100										-	TS EN 12089
Compressive strength (min.)	kPa	CS(10)60										-	TS EN 826
Compressive creep	kPa	10										CC(2,5/2/10)10	TS EN 1606
Tensile strength (min.)	kPa	TR100										-	TS EN 1607
Water absorbtion by total immersion	%	WL(T)2										≤ % 2	TS EN 12087
Dimensional stability at specific temperature and humidity	%	DS(70,90)1										≤ % 1,0	TS EN 1604
Capillary absorbtion	-	No										-	-
Packaging material	-	Nylon bag										-	-
Packaging amount	piece-m ² package	16-8	12-6	10-5	8-4	7-3,5	6-3	5-2,5	4-2	3-1,5		-	-