

# CONVERTO HP

Technical Sheet - Issue 07/2024



Insulation panel produced by lamination synthesis, with enhanced thermal conductivity, suitable for external thermal insulation systems, made of sintered expanded polystyrene (EPS) with the addition of at least 70% graphite, with a white EPS surface made using a lamination synthesis process.

## DESCRIPTION

Thermal insulation panel made of sintered expanded polystyrene (EPS) with the addition of at least 70% graphite, produced using a patented process for expansion, sintering, and simultaneous lamination, which guarantees extremely stable monolithic panels, uniform specific mass, complete dimensional stability, and perfect squaring. ETICS certified in compliance with EAD 040083-00-0404 guidelines (formerly ETAG 004) and standard UNI EN 13499:2005, with "Certificate of Conformity" in accordance with UNI EN 13163. The white EPS protection allows the panel to be skimmed even during maximum sunlight exposure of non-shaded façades, making it safe to apply the skim coat.

## MAIN PROPERTIES

- EASE OF INSTALLATION
- EXCELLENT STABILITY
- RECYCLED CONTENT 15%

## SIZE AND THICKNESS

Useful size: 120 cm x 60 cm

Available thicknesses: 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22 cm

TECHNICAL DATA	Symbol	Value	REFERENCE STANDARD
Thermal conductivity	$\lambda_D$	0.030 W/mK	EN 12667
Reaction to fire	EUROCLASS	E	EN 13501-1
Resistance to vapour diffusion	$\mu$	20-40	EN 12086
Specific heat	$C_p$	1340 J/kgK	EN 10456
Tensile strength perpendicular to the surface	TR	$\geq 150$ kPa	EN 1607
Dimensional stability	DS(N)	$\pm 0.2\%$	EN 1603
Water absorption due to partial immersion	WIp	$\leq 0.5$ Kg/m <sup>2</sup>	EN 16535
Shear strength	$F_{tk}$	$\geq 20$ kPa	EN 12090
Shear modulus	$G_m$	$\geq 1000$ kPa	EN 12090

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## Dimensional tolerances

Length	L(2)	± 2 mm	EN 822
Width	W(2)	± 2 mm	EN 822
Thickness	T(1)	± 1 mm	EN 823
Squareness	S(2)	± 2 mm/m	EN 824
Flatness	P(3)	+ 3 mm	EN 825

## STORAGE PROCEDURE

Heat-reflecting material: do not cover the slabs with transparent materials and/or sheets during installation and storage.

## NOTES

- If the slabs are exposed to UV light for a long period of time during installation, they should be protected by shading nets to prevent surface chalking (yellowing).
- If, due to prolonged exposure to UV light, surface powdering has occurred (the slabs appear yellowed), completely remove this powdery substance by sanding and brushing before applying the skim coat, in order to ensure proper and effective adhesion.

## CERTIFICATIONS/CLASSIFICATIONS



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