

## COMPLETE INFORMATION OF INSULATING PANELS ChovAFOAM 250 H



"Declaration of Performances and CE-Mark" in: DoP\_E\_81952A\_13164\_CHOVAFOAM\_250\_H\_v05 (And other references)

ASFALTOS CHOVA, S. A.

Ctra. Tavernes a Liria, km 4,3. 46760 TAVERNES DE LA VALLDIGNA. Valencia

Description:

Extruded polystyrene rigid foam panel, XPS, closed cell structure, usable as thermal insulation.

Uses according to: Standards EN 13164:2012+A1:2015, UNE 92182, UNE 104401 y "CEC" del CTE. (Constructive Elements Catalogue), CTE DB-HE-1, etc.

Product with Environmental Product Declaration (DAP, Type III Environmental Ecolabel), DAPcons® 100.014 in accordance with the standards: ISO 14025 and EN UNE 15804 + A1.

**Types of thermal insulation panels of extruded polystyrene:**

- ChovAFOAM 250 H, XPS, of 1.250 mm x 600 mm and thickness according to type.
  - ChovAFOAM 250 H, XPS, of 2.600 mm x 600 mm and thickness according to type.

Lateral, tongue and groove finish to minimize thermal bridges and prevent slipping. Recommended: on facades, partitions, buried walls, etc. Do not use a temperature higher than 65 °C.

STORAGE: with the original presentation and the packages protected from the sun (U. V. rays).

TECHNICAL FEATURE	VALUE	UNIT	STANDARD	
<b>Reaction to fire. Euroclasses Features</b>	<b>Class E</b>	--	EN 13501-1	
<b>Combustion with continuous incandescence.</b> (Test method under development. Value will be defined when applying the Standard)	NPD (**)		PrEN xxx	
<b>Water vapour permeability. Water vapour transmission</b>	<b>80</b>	<b>(μ)</b>	EN 12086	
<b>Thermal Resistance. Thermal Conductivity</b> λ <sub>D</sub> = 0,034 W / m K, from 40 mm to 60 mm λ <sub>D</sub> = 0,036 m K / W, from 70 mm to 100 mm  Tolerance T1 • 40 mm. Tolerance ± 2 mm • From 50 to 100 mm. Tolerance - 2 / + 3 mm	Thickness mm	R <sub>D</sub>	EN 12667 / 12939	
	40	1,20		m <sup>2</sup> K / W
	50	1,50		m <sup>2</sup> K / W
	60	1,80		m <sup>2</sup> K / W
	80	2,20		m <sup>2</sup> K / W
	100	2,75	m <sup>2</sup> K / W	
<b>Water permeability. Water absorption in long-term</b>	≤ 0,7		EN 16535	
<b>Compressive resistance. Compressive contraction in compressive strength.</b>	≥ 250	kPa	EN 826	
<b>Traction/bending resistance. Perpendicular to sides traction resistance</b>	≥ 200	(σ <sub>m</sub> TR200)	EN 1607	
<b>Reaction to fire durability regarding to heat exposure, put in the open, aging/degradation</b>	(*)			
<b>Thermal resistance durability regarding to heat exposure, put in the open, aging/degradation</b> • Thermal Resistance. Thermal Conductivity • Freeze/thaw resistance	DS(70,-) / DS(70,90) NPD			
<b>Compressive resistance durability regarding to aging/degradation</b> • Compression creep	CC(2 / 1,5/ 50) 50			
<b>CE DESIGNATION CODE</b>	XPS-EN 13164 - T1 – DS (70,-) – DS (70,90) - CS (10/Y) 250 - WL(T) 0,7			

(\*\*) Test methods under development

(\*) The reaction to fire behaviour of XPS products does not vary with time.

[www.chova.com](http://www.chova.com)



**ChovA**  
SISTEMAS DE IMPERMEABILIZACIÓN  
Y AISLAMIENTO

# ChovAFOAM 250 H

THERMAL INSULATION PANELS.  
EXTRUDED POLYSTYRENE. XPS

TECHNICAL DATA SHEET Nº 81945A - REV 4/21 02/02/2021

## NO REGULATORY INFORMATION. (CE)

Other characteristics not included in the "DoP"

FEATURE		VALUE	UNIT	STANDARD
Tolerances	Thickness tolerances ( $\Delta d$ )	+2 ; -2 (30-40) +3 ; -2 ( $\geq 50$ )	mm	EN 823
	Squaring ( $S_b$ )	$\leq 5$	mm/m	EN 824
	Planimetry ( $S_{max}$ )	$\leq 7$	mm/m	EN 825
Stability	Dimensional stability (length, width and thickness) (48h, 70 °C and 90 % H.R.)	$\leq 5$	%	EN 1604
Deformation	Deformation under load and temperature (thickness) (70 °C, 168 h, 40 kPa)	$\leq 5$	%	EN 1605
Mechanical Behaviour	Perpendicular to sides traction ( $\sigma_{mt}$ )	$> 200$	kPa	EN 1607
	Compression creep ( $\sigma_c$ ) in 50 years under 50 kPa Expected relative deformation in 50 years under 50 kPa	$< 1.5$ $< 2.0$	kPa	EN 1606
Behaviour facing water	Water absorption total immersion ( $W_p$ )	$\leq 0,7$	%	EN 16535
	Water absorption by diffusion ( $W_d$ )	$\leq 5$	%	EN 12088
Behaviour facing ice	Freeze/thaw resistance ( $\Delta\sigma_{10}$ )	$< 10$	%	EN 12091
	Freeze/thaw resistance ( $\Delta W_t$ )	$\leq 1$	%	EN 12091
Density		$33\pm 3$	Kg/m <sup>3</sup>	EN 1602
Useful life	DAPcons® 100.014	50	years	

ChovAFOAM, XPS, are high performance extruded polystyrene rigid insulating foam panels, manufactured with a blowing agent that has zero ozone depletion potential (ODP) and low global warming potential (GWP). Product free of CFC's, HCFC's or HFC's.



Perimeter fitting in all four edges.  
- ("TONGUE AND GROOVE" fitting). 250 H TYPE

← — — — — Tongue and Groove mechanised side

## PRODUCT CERTIFICATIONS



Product with AENOR  
(According to UNE-EN 13164)



The information provided corresponds to data obtained in our own laboratories. This product will maintain these characteristics on average. ChovA, S. A. reserves the right to modify or cancel any parameter without prior notice. The ChovA, S. A. guarantee is limited to the quality of the product.

As for the commissioning, in which we do not participate, the requirements in the applicable standards must also be met, both in the composition of the façade and in the implementation of the different layers.

This data sheet will be annulled by subsequent revisions and, in case of doubt, request the latest revision.