

CHOVAFOAM 250 H

● PRESENTACIÓN Y UTILIZACIÓN

Rigid extruded polystyrene foam panel, XPS, with a closed cellular structure, usable as thermal insulation and grooved surface. The dimensions are 1,250 mm x 600 mm and thickness depending on type. Side finish, “half wood”, to minimize thermal bridges. Product free of CFC's and HCFC's.

In new construction or rehabilitation, it is used as:

- on facades, partition walls, buried walls, etc. Do not use at temperatures above 65°C. Cover or protect before the end of the day, from the sun and wind effects.

● FEATURES

Reaction to fire. Euroclasses Features (EN 13501-1)	Class E	
Combustion with continuous incandescence. (Test method under development. Value will be defined when applying the Standard)	NPD (**)	
Water vapour permeability. Water vapour transmission (EN 12086) (μ)	80	
Thermal Resistance. Thermal Conductivity $\lambda_D = 0,034 \text{ W / m K}$, de 40 mm a 60 mm $\lambda_D = 0,036 \text{ W / m K}$, de 70 mm a 100 mm Tolerance T1 40 mm of thickness: Tolerancia ± 2 mm Thickness between 50 until 100 mm : Tolerance -2/+3 mm	Thickness(mm)	R_D ($\text{m}^2\text{K/W}$)
	40	1,20
	50	1,50
	60	1,80
	80	2,20
100	2,75	
Water permeability. Water absorption in long-term (EN 165350) (%)	$\leq 0,7$	
Compressive resistance. Compressive contraction in compressive strength (EN 826) (KPa)	≥ 250	
Traction/bending resistance. Perpendicular to sides traction resistance (EN 1607) (σ_m TR200)	≥ 200	
Reaction to fire durability regarding to heat exposure, put in the open, aging/degradation	(*)	
Thermal resistance durability regarding to heat exposure, out in the open, aging/degradation Thermal Resistance and Thermal Conductivity Freeze/thaw resistance	DS(70,-) / DS(70,90) NPD	

Compressive resistance durability regarding to aging/degradation Compression creep	CC(2 /1,5/ 50) 50
CE DESIGNATION CODE	EN 13164 - T1 - DS(70,-) - DS(70,90) - CS(10/Y)250 - WL(T)0,7

(**) Test methods under development

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

● OTHER FEATURES

Tolerances	Thickness tolerances (Δd) (EN 823)	+2;-2(30-40) +3;-2(≥ 50) (mm)
	Squaring (S_b) (EN 824)	≤ 5 (mm/m)
	Planimetry (S_{max}) (EN 825)	≤ 7 (mm/m)
Stability	Dimensional stability (length, width and thickness) (48h, 70 °C y 90 % H.R.) (EN 1604)	≤ 5 (%)
Deformation	Deformation under load and temperature (thickness)(70 °C, 168 h, 40 kPa) (EN 1605)	≤ 5 (%)
Mechanical behavior	Perpendicular to sides traction (σ_{mt}) (EN 1607)	>200 (KPa)
	Compression creep (σ_c) in 50 years under 50 kPa (EN 1606)	<1,5 (%)
	Expected relative deformation in 50 years 50 kPa (EN 1606)	<2 (%)
Behavior facing water	Water absorption total immersion (W_p) (EN 16535)	$\leq 0,7$ (%)
	Water absorption by diffusion (W_d) (EN 12088)	≤ 5 (%)
Behavior facing ice	Freeze-thaw resistance (Δs_{10}) (EN 12091)	<10 (%)
	Freeze-thaw resistance (ΔW_{lt}) (EN 12091)	≤ 1 (%)
Density		33 \pm 3 (kg/m ³)
Useful life	DAPcons® 100.014	50 years

● CONDITIONING

- Store with the original presentation and packages protected from the sun (U.V. Rays).
- Store upright and away from any heat source.
- Transport: This material is not classified as hazardous; The safety sheet is not necessary.

● REFERENCE DOCUMENT

This product has the AENOR N Mark, according to UNE-EN 13164





This product has Environmental Product Declaration 100.014



This product has a Type III Environmental Ecolabel



● GENERALITIES ABOUT COMMISSIONING

Puesta en obra :

Uses according to *DIT 678/23 Sistemas de impermeabilización y barreras frente al radón para estructuras enterradas*, and according to *Manual de sistemas constructivos para la impermeabilización y el aislamiento térmico*.

Product standards:

CE Mark according to EN 13164:2012+A1:2015

COMPLEMENTARY INFORMATION

- 1/ When two characteristics are indicated, the first refers to the value in the longitudinal direction and the second in the transversal direction.
- 2/ All average values are calculated respecting the draft European Standard prEN WI 002254041.
- 3/ The text relating to the use and installation of the product does not prevail over local construction regulations and local standards to be respected. If in doubt, consult the BMI Technical Department.
- 4/ BMI reserves the right to modify the composition and conditions of implementation, depending on the evolution of knowledge and techniques. This technical sheet cancels and replaces the previous one. Always contact BMI to obtain the latest version.
- 5/ This technical sheet refers only to the product described here. The different BMI products can constitute a waterproofing system, the characteristics of which are described in the "system sheet". If in doubt, contact BMI Technical Service.

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