

# CHOVAFOAM 500 M

## ● PRESENTACIÓN Y UTILIZACIÓN

Panel de espuma rígida de poliestireno extruído, XPS, de estructura celular cerrada, utilizables como aislamiento térmico. Las dimensiones son de 1.250 mm x 600 mm y espesor según tipo. Acabado lateral, “media madera”, para minimizar puentes térmicos. Producto libre de CFC's y HCFC's.

En obra nueva o rehabilitación, se utiliza como:

- en cubierta invertida o convencional bajo protección pesada, especial para cubiertas parking y cubiertas ajardinadas con uso de maquinaria pesada; cimentaciones portadoras de carga; suelos portadores de carga; forjados, losas y pavimentos, aislamiento de suelos de garajes y suelos en general, etc. No utilizar a temperatura superior a 65 °C. Cubrir o proteger antes de finalizar la jornada, del sol y de efectos de viento.

## ● CARACTERÍSTICAS

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) ( $\mu$ )	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	Espesor (mm)	$R_D$ ( $\text{m}^2\text{K/W}$ )
	50	1,50
	60	1,80
	80	2,20
Tolerance T1 40 mm of thickness: Tolerancia $\pm 2$ mm Thickness between 50 until 100 mm : Tolerance -2/+3 mm		
Water permeability. Water absorption in long-term (EN 165350) (%)	$\leq 0,7$	
Compressive resistance. Compressive contraction in compressive strength (EN 826) (KPa)	$\geq 500$	
Traction/bending resistance. Perpendicular to sides traction resistance (EN 1607) ( $\sigma_m$ TR200)	$\geq 200$	
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) -DLT(2)5 - CS(10/Y)500 - WL(T)0,7

(\*\*) Test methods under development

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

## ● OTRAS CARACTERÍSTICAS

Tolerances	Thickness tolerances ( $\Delta d$ ) (EN 823)	+2;-2(30-40) +3;-2( $\geq 50$ ) (mm)
	Squaring ( $S_b$ ) (EN 824)	$\leq 5$ (mm/m)
	Planimetry ( $S_{max}$ ) (EN 825)	$\leq 7$ (mm/m)
Stability	Dimensional stability (length, width and thickness) (48h, 70 °C y 90 % H.R.) (EN 1604)	$\leq 5$ (%)
Deformation	Deformation under load and temperature (thickness)(70 °C, 168 h, 40 kPa) (EN 1605)	$\leq 5$ (%)
Mechanical behaviour	Perpendicular to sides traction ( $\sigma_{mt}$ ) (EN 1607)	>200 (KPa)
	Compression creep ( $\sigma_c$ ) in 50 years under 50 kPa (EN 1606)	<1,5 (%)
	Expected relative deformation in 50 years 50 kPa (EN 1606)	<2 (%)
Behaviour facing water	Water absorption total immersion ( $W_p$ ) (EN 16535)	$\leq 0,7$ (%)
	Water absorption by diffusion ( $W_d$ ) (EN 12088)	$\leq 5$ (%)
Behaviour facing ice	Freeze-thaw resistance ( $\Delta s_{10}$ ) (EN 12091)	<10 (%)
	Freeze-thaw resistance ( $\Delta W_{lt}$ ) (EN 12091)	$\leq 1$ (%)
Density		38 $\pm$ 2 (kg/m <sup>3</sup> )
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.

## ● DOCUMENTO DE REFERENCIA

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

### **Putting into work:**

Uses according to *DIT 578R/21 Sistemas de impermeabilización con láminas asfálticas de betún modificado para cubiertas con pendiente cero*, according to *DIT 674/23 Politaber tráfico rodado*, según *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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