



Chova
SISTEMAS DE IMPERMEABILIZACIÓN
Y AISLAMIENTO

ChovAFOAM 250 S

THERMAL INSULATION PANELS.
EXTRUDED POLYSTYRENE. **XPS**

TECHNICAL FILE Nº 81960A - REVIEW 2/13 C E

COMPLETE INFORMATION OF INSULATING PANELS ChovAFOAM 250 S



View "Declaración de Prestaciones – DoP" in: DoP_E_81960A_13164_CHOVAFOAM250S30_v02 (And other references)

View CE Trade, complete, in: DoP_E_81960A_13164_CHOVAFOAM250S30_v02 (And other references)

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Panel description:

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

Uses according to: Standards EN 13164, UNE 92325:2012 IN and "CEC" of CTE. (Constructive Elements Catalogue)

Extruded polystyrene thermal insulation panel, XPS, of 1.250 mm x 600 mm and thickness according to type. (There is also a presentation of 2.600 mm x 600 mm).

Finishing side, "straight".

Recommended: on floors, buried walls, etc.

Do not use at temperatures higher than 65 °C.

STORAGE: with the original presentation and package protected from the sun (UV rays).

CHARACTERISTIC	VALUE	UNIT	STANDARD
Reaction to fire. Euroclasses Features	Class E	--	EN 13501-1
Combustion with continuous incandescence. (Test method under development. Value will be defined when applying the Standard)	NPD		PrEN xxx
Water vapour permeability. Water vapour transmission	80	(μ)	EN 12086
Thermal Resistance. Thermal Conductivity.	Thickness mm	R _D	
$\lambda_D = 0,034 \text{ W / m K, de 30 mm a 60 mm}$	30	0,95	m ² K / W
	40	1,20	m ² K / W
	50	1,50	m ² K / W
	60	1,80	m ² K / W
$\lambda_D = 0,036 \text{ W / m K, de 70 mm a 80 mm}$	70	1,90	m ² K / W
	80	2,20	m ² K / W
Water permeability. Water absorption in long-term	≤ 0,7		EN 12087
Compressive resistance. Compressive contraction in compressive strength.	≥ 250	kPa	EN 826
Traction/bending resistance. Perpendicular to sides traction resistance	≥ 900	(σ _m TR900)	EN 1607
Reaction to fire durability regarding to heat exposure, out in the open, aging/degradation	NPD		
Thermal resistance durability regarding to heat exposure, out in the open, aging/degradation	NPD		
Compressive resistance durability regarding to aging/degradation	NPD		
CE DESIGNATION CODE	EN 13164 - T1 - DS(70,-) – DS(23,90) - CS(10/Y)250 - WL(T)0,7		



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NO REGULATORY INFORMATION. (CE)

Other characteristics not included in the "DoP"

FEATURES

	VALUE	UNIT	STANDARD
Tolerances	+2; -2 (30-40)	mm	EN 823
Thickness tolerances (Δd)	+3; -2 (≥ 50)		
Squaring (S_b)	≤ 5	mm/m	EN 824
Planimetry (S_{max})	≤ 7	mm/m	EN 825
Stability			
Dimensional stability ($\Delta \epsilon$) (70 °C and 90 %) Squaring (S_b)	≤ 5	%	EN 1604
Deformation under load and temperature ($\Delta \epsilon$) (70 °C, 168h, 40kPa)	≤ 5	%	EN 1605
Mechanical Behaviour.			
Perpendicular to sides traction (σ_{mt})	> 100	kPa	EN 1607
Compression yield strength (σ_c) 2 % in 50 years	125	kPa	EN 1606
Behaviour facing water			
Water absorption total immersion (W_p)	$\leq 0,7$	%	EN 12087
Water absorption by diffusion (W_d)	5	%	EN 12088
Behaviour facing ice			
Freeze-thaw resistance ($\Delta \sigma_{10}$)	< 10	%	EN 12091
Freeze-thaw resistance (ΔW_{it})	≤ 1	%	EN 12091

ChovAFOAM 250 S are high performance rigid extruded polystyrene insulant manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).

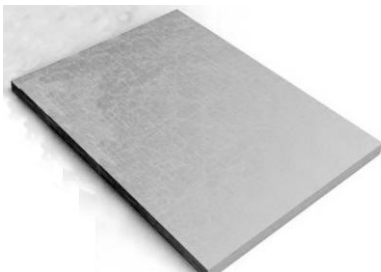


**Product with AENOR
Trade (According to UNE-
EN 13164)**

Provided information 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 notice. ChovA, S.A guarantee is only applying to the product quality.


As for commissioning work, which do not participate, they must also meet the requirements in the applied standards, both in facade composition and the realization of the different layers.

This technical data sheet will be void by subsequent revisions and, if in doubt, apply the latest revision



Straight edges.

- TYPE **250 S**

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RECOMMENDATIONS FOR USE, SUITABLE TO “CTE”, ACORDING TO:

- DR of CTE, CEC, “*Constructive Elements Catalogue*”, and
- **UNE 92325:2012 IN Thermal insulation products in buildings. Setup Control**


The usual possibilities for use recommended of insulating panels, XPS–**ChovAFOAM 250S**, are:

THERMAL INSULATION ON SLABS.

Insulating layer performance conditions.

Applied to any needed thickness, from 30 mm to 80 mm.

XPS panels will be installed simply supported on the support, covering the entire surface, contiguously one against others alternating joints. Onto the panels a polyethylene or similar separating layer will be extended. Then perform a mortar or concrete compression layer with a minimum thickness of 5 cm. On this layer the pavement will be installed.

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Underfloor heating compatibility.

Heating underfloor pipes will be installed on the polyethylene layer and XPS panels. A layer of sand will be applied to level the floor with a thick to ensure an adequate heating pipes coating. Finally make a mortar slab about 4 cm to serve as a basis for pavement termination.

THERMAL INSULATION UNDER SLABS

XPS panels will be installed using mechanical fasteners, polypropylene plugs or similar suitable to the support type.

6 fixation points will be used (4 in corners, about 10-15 cm between them, an 2 in the centre of the panel). Then the ceiling finishing can be done with a false plasterboard ceiling.

GENERALITIES: ISOLATION LAYER IMPLEMENTATION.

- Keep XPS panels in its original packaging until use.
- Implement necessary fixings, depending panel dimensions. Distribute them properly according to instructions given.

SAFETY CONDITIONS.

Regarding the safety and health during the execution of the works, shall apply the provisions of the legislation in relation to the prevention of occupational risks.

Personnel performing the isolating system should know the risks involved in their implementation and the correct component units of the work laying method, all within the overall regulatory framework for health and safety that is bound the general contractor of the work.

All solutions above, the application conditions and comments are set to:

- **UNE 92325:2012 IN Thermal insulation products in buildings. Control installation.**

The insulation layers are a constitutive element of work. The solutions are responsibility of the project, although the information is intended to describe the usual conditions of product use. As for commissioning work also must satisfy the insulating layer implementation requirements. Provided information is taken from the current regulations.