



Chova
SISTEMAS DE IMPERMEABILIZACIÓN
Y AISLAMIENTO

ChovAFOAM 300 M

THERMAL INSULATION PANELS.
EXTRUDED POLYSTYRENE. XPS

TECHNICAL DATA SHEET Nº 81905A – REV. 4/21 - 02/02/2021

COMPLETE INFORMATION OF INSULATING PANELS ChovAFOAM 300 M



See "Declaración de Prestaciones y Mercado CE" en: DoP_E_81915A_13164_CHOVAFOAM300M_v05 (And other references)

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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), 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.

Extruded polystyrene thermal insulation panel, XPS, of 1.250 mm x 600 mm and thickness according to type.

Finishing side, "half wood", to minimize thermal bridges

Recommended for: inverted roof, walkway or not walkway, with heavy protection.

Do not use at temperatures higher than 65 ° C. Cover or protect before the end of the day, from the sun and wind effects. STORAGE: with the original presentation and package protected from the sun (UV rays).

TECHNICAL FEATURES

	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 $\lambda_D = 0,034 \text{ W / m K}$, from 40 mm to 60 mm $\lambda_D = 0,036 \text{ W / m K}$, from 70 mm to 100 mm Tolerance T1 <ul style="list-style-type: none"> 40 mm. Tolerance ± 2 mm From 50 to 100 mm. Tolerance - 2 / + 3 mm 	Thickness mm	R_D	EN 12667 / 12939	
	40	1,20		$\text{m}^2 \text{ K / W}$
	50	1,50		$\text{m}^2 \text{ K / W}$
	60	1,80		$\text{m}^2 \text{ K / W}$
	70	1,90		$\text{m}^2 \text{ K / W}$
	80	2,20		$\text{m}^2 \text{ K / W}$
	90	2,50		$\text{m}^2 \text{ K / W}$
	100	2,75		$\text{m}^2 \text{ K / W}$
Water permeability. Water absorption in long-term	$\leq 0,7$	%	EN 16535	
Compressive resistance. Compressive contraction in compressive strength	≥ 300	kPa	EN 826	
Traction/bending resistance. Perpendicular to sides traction resistance	≥ 200	(σ_m TR200)	EN 1607	
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 <ul style="list-style-type: none"> Thermal Resistance and Thermal Conductivity Freeze/thaw resistance 	DS(70,-) / DS(70,90) NPD			
Compressive resistance durability regarding to aging/degradation <ul style="list-style-type: none"> 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)300 - WL(T)0,7			

(**) Test methods under development

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

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NO REGULATORY INFORMATION. (CE)

Other characteristics not included in the “DoP”.

FEATURE		VALUE	UNIT	STANDARD
Tolerances	Thickness tolerances (Δd)	+2 ; -2 (30-40) +3 ; -2 (≥ 50)	mm	EN 823
	Squaring (S_b)	≤ 5	mm/m	EN 824
	Planimetry (S_{max})	≤ 7	mm/m	EN 825
Stability	Dimensional stability (length, width and thickness) (48h, 70 °C and 90 % H.R.)	≤ 5	%	EN 1604
Deformation	Deformation under load and temperature (thickness) (70 °C, 168 h, 40 kPa)	≤ 5	%	EN 1605
Mechanical Behaviour	Perpendicular to sides traction (σ_{mt})	> 200	kPa	EN 1607
	Compression creep (σ_c) in 50 years under 50 kPa	< 1.5	%	EN 1606
	Expected relative deformation in 50 years 50 kPa	< 2.0	%	
Behaviour facing water	Water absorption total immersion (W_P)	$\leq 0,7$	%	EN 16535
	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
Density		33±3	Kg/m ³	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. (“STEPPED” or “HALF WOOD” fitting). **300 M TYPE**

← — — — Perimeter fitting

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