


X-FOAM[®] HBT 700

EXTRUDED POLYSTYRENE PANEL (XPS) [WITHOUT HCFC - WITHOUT HFC]

CARACTERISTICS	STANDARD	UNIT	VALUES											
SIZE														
Thickness	EN 823	mm	50 - 300											
Thickness tolerance class (T1)	EN 823 EN 13164	mm	-2 /+3 -2/+6											
Thickness from 50 to 120 mm														
Thickness > 120 mm														
Length	EN 822	mm	1250											
Width	EN 822	mm	600											
TYPE FINISH														
L - edges 	Panel with skin surface													
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE														
Declared thermal conductivity	EN 13164 EN 12667	W/mK												
Thickness from 50 mm to 60 mm				0,034										
Thickness from 80 mm to 120 mm				0,036										
Thickness from 140 mm to 180 mm				0,034										
Thickness from 200 mm to 220 mm				0,035										
Thickness from 240 mm to 300 mm	0,036													
Thermal resistance (EN 13164)														
Thickness (mm):	50	60	80	100	120	140	160	180	200	220	240	260	280	300
Thermal resistance (m ² K/W):	1,45	1,75	2,20	2,75	3,30	4,10	4,70	5,25	5,70	6,20	6,65	7,30	7,75	8,30
COMPRESSIVE STRESS AT 10% DEFORMATION - σ_{10}														
Thickness from 50 mm to 300 mm	EN 826	kPa	≥ 700											
COMPRESSIVE STRESS AT 2% DEFORMATION AFTER 50 YEARS														
Thickness from 50 mm to 300 mm	EN 1606	kPa	250											
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS														
Condition test: (48±1) hours, (70±2)°C and (90± 5)% U.R.														
Changes in thickness, length and width	EN 1604	%	≤ 5											
DEFORMATION BEHAVIOR														
Test condition: 70°C, 168 hours, 40 kPa	EN 1605	%	≤ 5											
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)														
Thickness from 50 mm to 300 mm	EN 12087	Vol. %	≤ 0,7											
WATER ABSORPTION BY DIFFUSION (28 DAYS)														
Thickness 50 mm	EN 12088	Vol. %	≤ 5											
Thickness from 60 mm to 300 mm			≤ 3											
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)														
Thickness from 50 mm to 300 mm	EN 12086		100											
FREEZE - THAW RESISTANCE														
Thickness from 50 mm to 300 mm	EN 12091	Vol. %	≤ 1											
REACTION TO FIRE														
Reaction to fire	EN 13501-1	Euroclass	E											
TEMPERATURE LIMIT USE														
Temperature limit use		°C	+ 75											

EDILTEC S.r.l.

Version: 18/01/2017

VIA GIARDINI, 474/M - 41124 MODENA
Tel. +39 059 291 64 11 / Fax. +39 059 34 42 32