

## Declaration of Performance (DoP) CPR-2013.05\_6

1.	Name and unique identification code of the product-type:	Panel PIR VV  Polyisocyanurate rigid foam (PIR) panels faced, both sides, with a fiber-glass veil mineralized.		
2.	Intended uses of the construction product:	Thermal insulation for buildings (ThIB).  Thermal insulation for deck type metal roofing.		
3.	Manufacturer:	Poliuretanos, S.A.  Z.I. El Trust, Ctra. C-65, km 16  17244 Cassà de la Selva – Girona (Spain)  Tel. +34 972 46 04 72  Fax. +34 972 46 17 19  e-mail: info@poliuretanos.com		
4.	System of assessment and verification of constancy of performance of the construction product (AVCP):	· · ·		
5.	Harmonised standard: Notified body/ies: Notified laboratory/ies:	EN 13165:2012+A2:2016  - APPLUS LGAI Technological Center, notified testing laboratory No 0370.  Centre Scientifique et Technique du Bâtiment (CSTB), notified testing laboratory No 0679.		



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## 6. Declared performance

Reaction to fire   Reaction to   Reacti	Essential characteristics	Performance		
Reaction to the Ferror dise         metal roofing Water absorption short term Water absorption long term         NPD WL(T)2           Release of dangerous substances to the indoor environment         No harmonised test method available           Acoustic absorption index         Sound absorption         NPD           Direct airborne sound insulation index         Sound absorption         NPD           Continuous glowing combustion         No harmonised test method available         dk:90mm Ro=3,30 dk:90mm Ro=3,30 dk:90mm Ro=3,30 dk:100mm Ro=3,70 dk:100mm Ro=5,00 dk:100mm Ro=6,00 dk:100mm Ro=5,00 dk:100mm Ro=6,00 dk:100mm R	Reaction to fire	Generic use		F
Water permeability	Reaction to fire – end use			
Release of dangerous substances to the Indoor environment Acoustic absorption index Sound absorption Direct airborne sound insulation index Sound absorption NPD  Continuous glowing combustion No harmonised test method available    Acoustic absorption   NPD	Water permeability			
Acoustic absorption index  Direct airborne sound insulation index  Continuous glowing combustion  No harmonised test method available  da:30mm Ro=0,85 dk:90mm Ro=3,30 dk:100mm Ro=3,70 dk:100mm Ro=1,75 dk:120mm Ro=4,60 dk:50mm Ro=2,10 dk:130mm Ro=5,00 dk:100mm Ro=2,50 dk:140mm Ro=5,03 dk:140mm Ro=5,02 dk:140mm Ro=5,03 dk:140mm Ro=5,03 dk:140mm Ro=5,03 dk:140mm Ro=5,02 dk:140mm Ro=5,03 dk:140mm Ro=1,03 dk:140mm Ro=5,03 dk:140mm Ro=1,03 dk:140mm Ro=1,03 dk:140mm Ro=1,03 dk:140mm Ro=1,03 dk:140mm Ro=1,03 dk:140mm		Flatness after one-sided wetting		NPD
Direct airborne sound insulation index  Continuous glowing combustion  No harmonised test method available  dn:25mm Ro=0,85 dn:10mm Ro=3,70 dn:10mm Ro=3,70 dn:10mm Ro=3,70 dn:10mm Ro=3,70 dn:10mm Ro=3,70 dn:10mm Ro=4,05 dn:25mm Ro=0,21 dn:12mm Ro=4,05 dn:20mm Ro=2,05 dn:12mm Ro=4,05 dn:20mm Ro=2,05 dn:12mm Ro=5,05 dn:10mm Ro=5,05 dn:10mm Ro=5,05 dn:10mm Ro=5,05 dn:10mm Ro=5,05 dn:10mm Ro=5,05 dn:10mm Ro=2,05 dn:15mm Ro=5,05 dn:15mm Ro=2,05 dn:15mm Ro=5,05 dn:15mm Ro=2,05 dn:15mm Ro=5,05 dn:15mm Ro=2,05 dn:15mm Ro=5,75 dn:15mm Ro=5,75 dn:15mm Ro=0,027 do:15mm Ro	Release of dangerous substances to the indoor environment	No harmonised test met		hod available
Continuous glowing combustion  No harmonised test method available  dn:25mm Rp=0,85 dn:10mm Rp=3,30 dn:10mm Rp=3,00 dn:10mm Rp=3,30 dn:10mm Rp=1,40 dn:10mm Rp=4,05 dn:10mm Rp=1,40 dn:110mm Rp=4,05 dn:10mm Rp=1,40 dn:110mm Rp=4,05 dn:10mm Rp=2,50 dn:150mm Rp=1,53 dn:120mm Rp=5,33 dn:150mm Rp=2,50 dn:150mm Rp=2,50 dn:150mm Rp=5,35 dn:150mm Rp=2,50 dn:150mm Rp=2,95 dn:150mm Rp=2,9	Acoustic absorption index	Sound absorption		NPD
Thermal resistance $R_{0} (m^{2}.K/W) = \frac{d_{N}:25mm R_{0}=0.85}{d_{N}:30mm R_{0}=1.05} \frac{d_{N}:10mm R_{0}=3.70}{d_{N}:10mm R_{0}=3.70} \frac{d_{N}:10mm R_{0}=3.70}{d_{N}:10mm R_{0}=3.70} \frac{d_{N}:10mm R_{0}=3.70}{d_{N}:10mm R_{0}=3.70} \frac{d_{N}:10mm R_{0}=3.70}{d_{N}:10mm R_{0}=3.70} \frac{d_{N}:10mm R_{0}=3.70}{d_{N}:10mm R_{0}=4.60} \frac{d_{N}:50mm R_{0}=1.75}{d_{N}:50mm R_{0}=2.70} \frac{d_{N}:10mm R_{0}=5.00}{d_{N}:10mm R_{0}=5.00} \frac{d_{N}:10mm R_{0}=5.00}{d_{N}:10mm R$	Direct airborne sound insulation index			NPD
Thermal resistance $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Continuous glowing combustion	No harmonised test met		hod available
conductivity λ <sub>D</sub> (W/m·K)     80≤d <sub>N</sub> <120mm λ <sub>D</sub> =0,027 d <sub>N</sub> ≈120mm λ <sub>D</sub> =0,026       Thickness d <sub>N</sub> : 25-150     T2       Water vapour permeability     Water vapour transmission     NPD       Compressive strength     e ≤ 45mm     CS(10\Y)175       Compressive strength / flexion     Tensile strength perpendicular to faces     NPD       Durability of reaction to fire against heat, weathering, ageing / degradation     Reaction to fire does not change with time       Thermal resistance and thermal conductivity     (a)       Durability of thermal resistance against ageing/degradation     Dirability under specified temperature and humidity conditions       Deformation under specified compressive load and temperature conditions     NPD       Durability of compressive strength against     Compressive strength     NPD	Thermal resistance	resistance	d <sub>N</sub> :30mm R <sub>D</sub> =1,05 d <sub>N</sub> :40mm R <sub>D</sub> =1,40 d <sub>N</sub> :50mm R <sub>D</sub> =1,75 d <sub>N</sub> :60mm R <sub>D</sub> =2,10 d <sub>N</sub> :70mm R <sub>D</sub> =2,50	$\begin{array}{l} d_{N}:100mm\ R_{D}\!=\!3,\!70 \\ d_{N}:110mm\ R_{D}\!=\!4,\!05 \\ d_{N}:120mm\ R_{D}\!=\!4,\!60 \\ d_{N}:130mm\ R_{D}\!=\!5,\!00 \\ d_{N}:140mm\ R_{D}\!=\!5,\!35 \end{array}$
Water vapour permeability       Water vapour transmission       NPD         Compressive strength       e ≤ 45mm       CS(10\Y)175         e ≥ 50mm       CS(10\Y)200         Tensile strength / flexion         Durability of reaction to fire against heat, weathering, ageing / degradation       Reaction to fire does not change with time         Thermal resistance and thermal conductivity       (a)         Durability of thermal resistance against heat, weathering, ageing/degradation       Dimensional stability under specified temperature and humidity conditions       DS(70,90)4         Deformation under specified compressive load and temperature conditions       NPD         Methods for determination of the values of thermal resistance and thermal conductivity after ageing       (a)         Durability of compressive strength against       Compressive strength strength       NPD		conductivity $80 \le d_N < 120 \text{mm } \lambda_D = 0$ , $d_N \ge 120 $		mm λ <sub>D</sub> =0,027 m λ <sub>D</sub> =0,026
Compressive strength  Compressive strength  E ≤ 45mm CS(10\Y)175  E ≥ 50mm CS(10\Y)200  Tensile strength / flexion  Tensile strength perpendicular to faces  NPD  Reaction to fire does not change with time  Thermal resistance and thermal conductivity  Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive green  NPD	1.00			
Tensile strength / flexion  Tensile strength / flexion  Durability of reaction to fire against heat, weathering, ageing / degradation  Thermal resistance and thermal conductivity  Durability of thermal resistance against heat, weathering, ageing/degradation  Durability of thermal resistance against heat, weathering, ageing/degradation  Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive group  NPD	Water vapour permeability			
Tensile strength / flexion  Durability of reaction to fire against heat, weathering, ageing / degradation  Thermal resistance and thermal conductivity  Durability of thermal resistance against heat, weathering, ageing/degradation  Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive green  NPD	Compressive strength			
Durability of thermal resistance against heat, weathering, ageing/degradation  Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive crean	Tensile strength / flexion	Tensile strength perpendicular to		
Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive green  NPD	Durability of reaction to fire against heat, weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Against ageing/degradation  Dimensional stability under specified temperature and humidity conditions  Deformation under specified compressive load and temperature and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing				(a)
Durability of thermal resistance against heat, weathering, ageing/degradation  Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Specified temperature and humidity conditions  Deformation under specified compressive strength against  NPD				(a)
Deformation under specified compressive load and temperature conditions  Methods for determination of the values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Deformation under specified compressive strength and temperature NPD  NPD		specified temperature and humidity		DS(70,90)4
values of thermal resistance and thermal conductivity after ageing  Durability of compressive strength against  Compressive green	agenig/degradation	compressive load and temperature		NPD
		values of thermal resistance and		(a)
	Durability of compressive strength against ageing/degradation	Compressive creep		NPD

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU)  $n^{\circ}$  305/211, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Ctra. C<sub>1</sub>65, Km. 16 - Pol. Ind el Trust Tel. 972 46 04 72 - Fax 972 46 17 19 17244 CASSA DE LA SELVA - Girona

F. Bolló General Manager

Cassà de la Selva, 14.09.2017