DECLARATION OF PERFORMANCE (DoP)

N° DoP: LBM-FPR/G-001A 30/06/2022 VERSIÓN 04

1. Unique identification code of the product-type:

Elastomer modified bitumen sheet with polyester reinforcement with mineral granules finishing (anti-root additives).

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

POLYDAN PRO 50/GP GREEN GARDEN TYPE (SBS/PY)/GR

POLYDAN PRO 50/GP GREEN GARDEN

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer

Bitumen reinforced sheet for roof waterproofing (and roof garden). Bitumen damp proof sheet (A Type) and basement tanking sheet (B Type).

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

DANOSA- POL. IND. SECTOR 9-19290 FONTANAR-GUADALAJARA-ESPAÑA

Tel.: +34 949 88 82 10 - info@danosa.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not apply

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

2+

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: name and identification number of the notified body/ Performance/ under system (1+,1, 2+,3)/n° certificate and date of concession:

AENOR: 0099

Evaluation of the factory production control

System 2+

Certificate of conformity of the factory production control, number and date: 0099/CPR/A85/0124 - 30/06/2022

UK Certificate of Conformity of the Factory Production Control, no and date: UK 0836-CPR-23/F6685 – 02/03/2023

UK Certificate of Conformity of the Factory Production Control, no and date: UK 0836-CPR-23/F6682 – 02/03/2023

External fire performance System 3 AFITI LICOF
Reaction to fire System 3 AFITI LICOF

8. Declared performance:

Reaction to fire E Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Tensile strength: 900 ± 250 Maximum tensile force L*, (N/50 mm) 650 ± 250 Elongation at maximum force L*, (%) 45 ± 15 Elongation at maximum force T*, (%) 45 ± 15 Resistance to root penetration Pass Resistance to impact, method A, (kg) ≥20 Resistance, (N) NPD Resistance of joints NPD Peel strength (N/50mm) NPD Shear resistance (N/50mm) 650 ± 250 Thermal durability 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 UV, heat and water durability 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 Thermal durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 60 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Flexibility	Essential characteristics	Performance	Harmonised technical specification
Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Tensile strength: 900 ± 250 Maximum tensile force L*, (N/50 mm) 900 ± 250 Maximum tensile force T*, (N/50 mm) 650 ± 250 Elongation at maximum force L*, (%) 45 ± 15 Elongation at maximum force T*, (%) 45 ± 15 Resistance to root penetration Pass Resistance to impact, method A, (kg) ≥20 Resistance of joints NPD Resistance of joints NPD Shear resistance (N/50mm) NPD Shear resistance (N/50mm) NPD Shear resistance at elevated temperature, (°C) 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 UV, heat and water durability 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 Thermal durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 2 kPa (Type B) Pass Chemical agents durability Pass Watertightness 2 kPa (Type B) Pass Chemical agents durability Pa	External fire performance	Broof(t1)	
Watertightness 60 kPa (Type B) Pass Tensile strength: 900 ± 250 Maximum tensile force L*, (N/50 mm) 650 ± 250 Elongation at maximum force L*, (%) 45 ± 15 Elongation at maximum force T*, (%) 45 ± 15 Resistance to root penetration Pass Resistance to static loading, method A, (kg) ≥20 Resistance to impact, method A, (mm) NPD Resistance of joints NPD Peel strength (N/50mm) NPD Shear resistance (N/50mm) 650 ± 250 Thermal durability 100 ± 10 Flexibility at low temperature, (°C) 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 UV, heat and water durability 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 Thermal durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Reaction to fire	E	
Tensile strength: Maximum tensile force L*, (N/50 mm) Maximum tensile force T*, (N/50 mm) Elongation at maximum force L*, (%) Elongation at maximum force L*, (%) Elongation at maximum force T*, (%) Elongation at maximum force T*, (%) Resistance to root penetration Resistance to static loading, method A, (kg) Resistance to impact, method A, (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Pass Pass Flexibility at low temperature, (°C) Pass Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C) S-25	Watertightness 2 kPa (Type A)	Pass	
Maximum tensile force L*, (N/50 mm) 900 ± 250 Maximum tensile force T*, (N/50 mm) 650 ± 250 Elongation at maximum force L*, (%) 45 ± 15 Elongation at maximum force T*, (%) 45 ± 15 Resistance to root penetration Pass Resistance to static loading, method A, (kg) ≥20 Resistance to impact, method A, (mm) NPD Resistance of joints NPD Peel strength (N/50mm) NPD Shear resistance (N/50mm) 650 ± 250 Thermal durability 100 ± 10 Flexibility at low temperature, (°C) 100 ± 10 Flexibility at low temperature, (°C) 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 Thermal durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Watertightness 60 kPa (Type B)	Pass	
Maximum tensile force T*, (N/50 mm) 650 ± 250 Elongation at maximum force L*, (%) 45 ± 15 Elongation at maximum force T*, (%) 45 ± 15 Resistance to root penetration Pass Resistance to static loading, method A, (kg) ≥20 Resistance to impact, method A, (mm) ≥1000 Tear resistance, (N) NPD Resistance of joints NPD Peel strength (N/50mm) NPD Shear resistance (N/50mm) NPD Thermal durability EN 13707:2004+A2:2009 Flow resistance at elevated temperature, (°C) 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 UV, heat and water durability 100 ± 10 Flexibility at low temperature, (°C) -5 ± 5 Thermal durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Tensile strength:		
Elongation at maximum force L*, (%) Elongation at maximum force T*, (%) Resistance to root penetration Resistance to static loading, method A, (kg) Resistance to impact, method A, (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Pass Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) Flexibility at low temperature, (°C) Flexibility at low tempe	Maximum tensile force L*, (N/50 mm)	900 ± 250	
Elongation at maximum force T*, (%) Resistance to root penetration Resistance to static loading, method A, (kg) Resistance to impact, method A, (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 60 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) Pass Pass Flexibility at low temperature, (°C) S=-25	Maximum tensile force T*, (N/50 mm)	650 ± 250	
Resistance to root penetration Resistance to static loading, method A, (kg) Resistance to impact, method A, (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 60 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) S=25	Elongation at maximum force L*, (%)	45 ± 15	
Resistance to static loading, method A, (kg) Resistance to impact, method A, (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 60 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) S -25	Elongation at maximum force T*, (%)	45 ± 15	
Resistance to impact, method A , (mm) Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) S−25	Resistance to root penetration	Pass	
Tear resistance, (N) Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) SPD SPD EN 13707:2004+A2:2009 EN 13969:2004/A1:2006 100 ± 10 -5 ± 5 100 ± 10 -5 ± 5 Thermal durability Pass Pass Pass Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) SPD SPD SPD SPD SPD SPD SPD SP	Resistance to static loading, method A, (kg)	≥20	
Resistance of joints Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) IV, heat and water durability Flow resistance at elevated temperature, (°C) IV, heat and water durability Flow resistance at elevated temperature, (°C) IV, heat and water durability Flow resistance at elevated temperature, (°C) IV, heat and water durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Flexibility at low temperature, (°C) Flexibility Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Flexibility at low temperature, (°C) Flexibility Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C)	Resistance to impact, method A , (mm)	≥1000	
Peel strength (N/50mm) Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Flexibility Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C)	Tear resistance, (N)	NPD	
Shear resistance (N/50mm) Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C) Pass Flexibility at low temperature, (°C) Shout 13969:2004; EN 13969:2004/A1:2006 EN 13969:2004/A1:2006 Flexibility at low temperature, (°C) 100 ± 10 -5 ± 5 Thermal durability Pass Pass Flexibility at low temperature, (°C) Shout 13969:2004; EN 13969:2004, All 13969:2004, All 13969:2004; EN 13969:2004; EN 13969:2004; EN 13969:2004; EN 13969:2004; EN 13969:2004; EN 13969:2004, All 13969:2004, All 13969:2004, All 13969:2004; EN 13	Resistance of joints		EN 40707 000 4 : 40 0000
Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Flexibility Watertightness 2 kPa (Type A) Flexibility Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C)	Peel strength (N/50mm)	NPD	1
Thermal durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) UV, heat and water durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Shear resistance (N/50mm)	650 ± 250	
Flexibility at low temperature, (°C) UV, heat and water durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤-25	Thermal durability		
UV, heat and water durability Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type A) Pass Chemical agents durability Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C) ≤ -25	Flow resistance at elevated temperature, (°C)	100 ± 10	
Flow resistance at elevated temperature, (°C) Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) 100 ± 10 -5 ± 5 Pass Pass Pass Selexibility at low temperature, (°C) 100 ± 10 -5 ± 5 Pass Pass Selexibility at low temperature, (°C)	Flexibility at low temperature, (°C)	-5 ± 5	
Flexibility at low temperature, (°C) Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 2 kPa (Type B) Pass Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C) -5 ± 5 Pass Pass Pass Selexibility at low temperature, (°C)	UV, heat and water durability		
Thermal durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Chemical agents durability Watertightness 2 kPa (Type A) Watertightness 60 kPa (Type B) Pass Watertightness 60 kPa (Type B) Flexibility at low temperature, (°C) Pass ≤ -25	Flow resistance at elevated temperature, (°C)	100 ± 10	
Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Flexibility at low temperature, (°C)	-5 ± 5	
Watertightness 60 kPa (Type B) Pass Chemical agents durability Pass Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Thermal durability		
Chemical agents durability Watertightness 2 kPa (Type A) Pass Watertightness 60 kPa (Type B) Pass Flexibility at low temperature, (°C) ≤ -25	Watertightness 2 kPa (Type A)	Pass	
Watertightness 2 kPa (Type A)PassWatertightness 60 kPa (Type B)PassFlexibility at low temperature, (°C)≤ -25	Watertightness 60 kPa (Type B)	Pass	
Watertightness 60 kPa (Type B)PassFlexibility at low temperature, (°C)≤ -25	Chemical agents durability		
Flexibility at low temperature, (°C) ≤ -25	Watertightness 2 kPa (Type A)	Pass	
, , , , , , , , , , , , , , , , , , ,	Watertightness 60 kPa (Type B)	Pass	
Dangerous substances NPD	Flexibility at low temperature, (°C)	≤ -25	
	Dangerous substances	NPD	

L* means longitudinal direction, T* means transversal direction

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

10.

Name and function	Place and date of issue	Signature
Mónica de Velasco Bituminous Waterproofing Product Manager	Fontanar 30/06/2022	hoc die

NOTE 1: this product do not contains asbestoses or tar.

NOTE 2: external fire performance is a system test, not a product test.