

## DECLARATION OF PERFORMANCE (DoP)

Nº DoP: LBM-FP-009

02/02/2017

VERSIÓN 04

1. **Unique identification code of the product-type:**  
Elastomer modified bitumen sheet with polyester reinforcement.
  2. **Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):**  
ESTERDAN 48 P ELAST TYPE (PP/PY)  
ESTERDAN 48 P ELAST
  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.  
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)/nº certificate and date of concession:**  
  
BUREAU VERITAS: 1035  
Evaluation of the factory production control  
System 2+  
Certificate of conformity of the factory production control, number and date: 1035-CPR-ES044104 -  
01/08/2015
- |                           |          |             |
|---------------------------|----------|-------------|
| External fire performance | System 3 | AFITI LICOF |
| Reaction to fire          | System 3 | AFITI LICOF |

8. Declared performance:

Essential characteristics	Performance	Harmonised technical specification
External fire performance	Broof(t1)	EN 13707:2004+A2:2009; EN 13969:2004; EN 13969:2004/A1:2006
Reaction to fire	E	
Watertightness 2 kPa (Type A)	Pass	
Watertightness 60 kPa (Type B)	Pass	
Tensile strength:		
Maximum tensile force L*, (N/50 mm)	700 ± 200	
Maximum tensile force T*, (N/50 mm)	450 ± 150	
Elongation at maximum force L*, (%)	45 ± 15	
Elongation at maximum force T*, (%)	45 ± 15	
Resistance to root penetration	Fails	
Resistance to static loading, method A ( soft substrate), (kg)	≥15	
Resistance to static loading, method B ( rigid substrate), (kg)	≥15	
Resistance to impact, method A (rigid substrate), (mm)	≥900	
Resistance to impact, method B (soft substrate), (mm)	≥1000	
Tear resistance, (N)	NPD	
Resistance of joints		
Peel strength (N/50mm)	NPD	
Shear resistance (N/50mm)	450 ± 150	
Thermal durability		
Flow resistance at elevated temperature, (°C)	100 ± 10	
Flexibility at low temperature, (°C)	-5 ± 5	
UV, heat and water durability		
Flow resistance at elevated temperature, (°C)	NPD	
Flexibility at low temperature, (°C)	NPD	
Thermal durability		
Watertightness 2 kPa (Type A)	Pass	
Watertightness 60 kPa (Type B)	Pass	
Chemical agents durability		
Watertightness 2 kPa (Type A)	Pass	
Watertightness 60 kPa (Type B)	Pass	
Flexibility at low temperature, (°C)	≤ -15	
Dangerous substances	NPD	

L\* means longitudinal direction, T\* means transversal direction

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

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

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.

<b>Name and function</b>	<b>Place and date of issue</b>	<b>Signature</b>
Álvaro González-Posada Delgado Bituminous Waterproofing Product Manager	Fontanar 02/02/2017	