

# DECLARATION OF PERFORMANCE: 11103048-6

1. Identification Code: 11103048 ARDESIA 4,5 PL

## 2. Intended use:

Standard: EN	Intended use:
13707:2013	Reinforced flexible bitumen sheets for roof waterproofing:
	Single layer
	X Top layer
	Underlay and intermediate layer
	Layer under heavy protection
	Layer for roof gardens
13969:2007	Bitumen damp proof sheets including bitumen basement tanking sheets
13859-1:2014	X Flexible sheets for waterproofing : Underlays for discontinuous roofing
13970:2007	Bitumen water vapour control layers
14695:2010	Reinforced bitumen sheets for waterproofing concrete bridge decks and other areas of concrete subject to traffic

3. Manufacturer: Valli Zabban S.p.A - 50041 Calenzano (FI) - Via Di Le Prata, 103 - Tel +39 055 328041 - Fax +39 055 300 300 www.vallizabban.it - info@vallizabban.it

## 4. System or systems of assessment and verification of constancy of performance of the construction product:

EN harmonized standard	VVCP systems
13707 / 13969 / 14695	System 2+
13859-1 / 13970	System 3

## 5. Notified bodies:

EN harmonized standard	Notified body / laboratory	Notification code	FPC Certificate of conformity
13707 / 13969 / 14695	Bureau Veritas	1370	1370-CPR-0042
13859-1	Technische Universität München	1211	/
13970	Technische Universität München	1211	/

## 6. Declared performances:

Relevant characteristics :	Unit	Performance	Tolerance <sup>(1)</sup>	EN Test	EN harmonized standard			
					13969	14695	13970	13859-1
External Fire Performance	Broof	F roof	-	13501-5				
Reaction To Fire	Classe	F	-	13501-1	•		•	•
Watertightness	kPa	60	≥	1928	•		•	
Watertightness	Classe	W1	-					•
Tensile strength at max L/T	N/5cm	550 / 400	± 20 %	12311-1	•	•	•	•
Elongation at max L/T	%	35 / 35	± 15					
Root resistance		NPD	-	13948				
Resistance to static loading – Method A soft substrate	Kg	NPD	≥	12730				
Resistance to static loading – Method B hard substrate	Kg	NPD	≥	12730	•			
Resistance to impact – Method B soft substrate	mm	NPD	≥	12691				
Resistance to impact - Method A hard substrate	mm	NPD	≥	12691	•		•	
Nail tearing resistance L/T	N	140 / 140	- 30 %	12310-1	•		•	•
Peel resistance of joints	N/5cm	NPD	-	12316-1				
Shear resistance of joints	N/5cm	NPD	-	12317-1	•		•	
Flexibility at low temperature	°C	- 10	≤	1109	•	•	•	•
Vapour resistance	μ	20000	≥	1931			•	
Durability after ageing T: Flexibility at low temperature	°C	NPD	≤	1296 / 1109				
Durability after ageing T: Flow resistance at elevated temperature	°C	120	- 10	1296 / 1110		•		
Durability after ageing UV: Visible defects		NPD	-	1297 / 1850-1				
Durability after ageing UV/T: Tensile strength at max L/T	N/5cm	NPD	-	1297 / 1296 / 12311-1				
Durability after ageing UV/T: Elongation at max L/T	%	NPD	-					•
Durability after ageing UV/T: Watertightness	kPa	NPD	-	1297 / 1296 / 1928				
Durability after ageing T: Watertightness	kPa	NPD	-	1296 / 1928	•			
Durability after ageing RC: Watertightness	kPa	NPD	-	1847 / 1928				
Durability after ageing T: Vapour resistance	μ	NPD	-	1296 / 1931				
Durability after ageing RC: Vapour resistance	μ	NPD	-	1847 / 1931			•	
Water absorption	%	NPD	-	14223				
Watertightness	kPa	NPD	-	14694				
Bond strength	N/mm <sup>2</sup>	NPD	-	13596				
Crack bridging	°C	NPD	-	14224				
Compatibility by heat conditioning	%	NPD	-	14691		•		
Resistance to thermal shock	%	NPD	-	14693				
Resistance to compaction of an asphalt layer		NPD	-	14692				
Shear strength	N/mm <sup>2</sup>	NPD	-	13653				
Dangerous substances	This Product does not contain asbestos or tar constituents. <sup>(2)</sup>				•	•	•	•

(1) Note: In the absence of a uniform test method throughout Europe, any verifications and declarations on release/content must be performed considering the national regulations of the place of use.

7. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.