# **DECLARATION OF PERFORMANCE: 11128346-6**





## 1. Identification Code: 11128346 BENDAGUM MINERALE 4,5 PL

## 2. Intended use:

Standard: EN		Intended use:				
13707:2013	Rein	Reinforced flexible bitumen sheets for roof waterproofing:				
		Single layer				
	Χ	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	Х	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:

Bullionest about the con-	Unit	Performance	Tolerance (1)	EN Test	EN harmonized standard			
Relevant characteristics :					13969	14695	13970	13859-
External Fire Performance	Broof	F roof	-	13501-5				
Reaction To Fire	Classe	F	-	13501-1	•		•	•
Vatertightness	kPa	60	2	1928	•		•	
Vatertightness	Classe	W1	-					•
ensile strength at max L/T	N/5cm	450 / 330	± 20 %	12211 1				
longation at max L/T	%	30 / 30	± 15	12311-1	•	•	•	•
toot resistance		NPD	-	13948				
esistance to static loading – Method A soft substrate	Kg	NPD	2	12730				
esistance to static loading – Method B hard substrate	Kg	NPD	2	12730	•			
tesistance to impact – Method B soft substrate	mm	NPD	≥	12691				
esistance to impact - Method A hard substrate	mm	NPD	≥	12691	•		•	
lail tearing resistance L/T	N	130 / 130	- 30 %	12310-1	•		•	•
eel resistance of joints	N/5cm	NPD	-	12316-1				
hear resistance of joints	N/5cm	NPD	-	12317-1	•		•	
lexibility at low temperature	°C	- 5	≤	1109	•	•	•	•
apour resistance	μ	20000	≥	1931			•	
Ourability after ageing T: Flexibility at low temperature	°C	NPD	≤	1296 / 1109				
Durability after ageing T: Flow resistance at elevated temperature	°C	110	- 10	1296 / 1110		•		
Ourability after ageing UV: Visible difects		NPD	-	1297 / 1850-1				
ourability after ageing UV/T: Tensile strength at max L/T	N/5cm	NPD	-	1297 / 1296 / 12311-1				
Ourability after ageing UV/T: Elongation at max L/T	%	NPD	-	1297 / 1290 / 12311-1				•
ourability after ageing UV/T: Watertightness	kPa	NPD	-	1297 / 1296 / 1928				
Ourability after ageing T: Watertightness	kPa	NPD	-	1296 / 1928	•			
Ourability after ageing RC: Watertightness	kPa	NPD	-	1847 / 1928				
Ourability after ageing T: Vapour resistance	μ	NPD	-	1296 / 1931			•	
Ourability after ageing RC: Vapour resistance	μ	NPD	-	1847 / 1931				
Vater absorption	%	NPD	-	14223				
Vatertightness	kPa	NPD	-	14694				
ond strength	N/mm²	NPD	-	13596				
rack bridging	°C	NPD	-	14224				
ompatibility by heat conditioning	%	NPD	-	14691	•			
esistance to thermal shock	%	NPD	-	14693				
esistance to compaction of an asphalt layer		NPD	-	14692				
Shear strength	N/mm²	NPD	-	13653				
Dangerous substances	-	his Product does not cor	atain achortos or tar s	constituents (2)				

(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 id in conformity with the declared performance in point 7. The declaration of performance is issued under the sole responsibility of the manufactorer identified in point 3.

Responsabile Tecnico Daniele Piccardi