


Declaration of Performance VAPOBAR 1 AL/VV 3MM

Accompanying Technical Documentation Annex to D.D.T N° of	Declaration of Performance n° 9WI310-00	
		13 22

- Unique identification code of the product type: **9WI310**
- Product Identification:

VAPOBAR 1 AL/VV 3MM		
Length, Width: 10x1 (-1%) m	Thickness: 3,00 mm	Reinforcement: Glass Mat + Aluminium Foil
Finishing TOP/BOTTOM: SAND / TERMOTENE	Installation (*): Torch	

(*): Storage in vertical position, out of sun and freezing. Stabilise for 24 h at +5°C, prior to use, where otherwise TDS

- Intended uses:

Harmonised technical spec. EN - BS EN	Intended uses	
13707:2004+A2:2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	FLEXIBLE SHEET FOR WATERPROOFING – DEFINITIONS AND CHARACTERISTICS REINFORCED BITUMEN SHEET FOR ROOF WATERPROOFING (*): - SINGLE LAYER - EXPOSED MULTILAYER – TOP LAYER - EXPOSED MULTILAYER – UNDERLAY OR INTERMEDIATE LAYER - UNDER HEAVY PROTECTION - ANTIROOT (*): Refer to our technical assistance service about correct stratigraphy
13859-1:2010	<input type="checkbox"/>	FLEXIBLE SHEETS FOR WATERPROOFING – DEFINITIONS AND CHARACTERISTICS: - UNDERLAY FOR DISCONTINUOUS ROOFING
13969:2009	<input type="checkbox"/>	FLEXIBLE SHEETS FOR WATERPROOFING - DEFINITIONS AND CHARACTERISTICS: - BITUMEN DAMP PROOF SHEETS INCLUDING TANKING SHEET
13970:2004/A1:2006	<input checked="" type="checkbox"/>	FLEXIBLE SHEETS FOR WATERPROOFING - DEFINITIONS AND CHARACTERISTICS: - BITUMEN WATER VAPOUR CONTROL LAYERS
14695:2010+AC:2011	<input type="checkbox"/>	FLEXIBLE SHEETS FOR WATERPROOFING - DEFINITIONS AND CHARACTERISTICS: REINFORCED BITUMEN SHEET - WATERPROOFING OF CONCRETE BRIDGE DECKS

- Name of manufacturer: IMPER ITALIA srl, Via Rita Atria 9, 10079 Mappano (TO), Italy
- Authorised Representative: Moy Materials Ltd, Columbia Mills, 14/15 Sir John Rogerson's Quay, Dublin 2, D02 E409
- Systems of assessment and verification of constancy of performance of the construction product:

Harmonised technical spec. EN – BS EN	Systems of assessment and verification of constancy of performance of the product
13707:2004+A2:2009, 13969:2004, 14695:2010+AC:2011	AVCP 2+
13859-1:2010, 13970:2004/A1:2006	AVCP 3

- In accordance with the above-mentioned AVCP systems, notified bodies/laboratories have performed the initial inspection of the manufacturing plant of factory production control, or the initial type testing provided, and the continuous surveillance, assessment and evaluation of factory production control, and issued the certificate of conformity of the factory production control, or the test reports as described below:

BITUMEN

Harmonised technical spec. EN – BS EN	Notified body	Code	Certificate of conformity/ Test report
13707: 2004+A2:2009	---	---	---
13859-1: 2010	---	---	---
13969: 2004	---	---	---
13970: 2004/A1:2006	C.S.I. S.P.A	0497	---
14695: 2010+AC:2011	---	---	---

8. European technical assessment: n.a.

European technical assessment	Notified body	Code	Ref. Doc.	Certificate of conformity	System of assessment

9. Declared performance:

Essential characteristics	Units	Tolerances	Performances	Harmonised technical spec. EN – BS EN
External fire performance ⁽¹⁾	Class	-	NPD	13707:2004+A2:2009
Reaction to fire	Class	-	E	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006
Water absorption	kPa	>=	100	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006, 14695:2010+AC:2011
Tensile properties L/T	N/50 mm	± 20%	420/315	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006, 14695:2010+AC:2011
Elongation L/T	%	± 15 abs	2/2	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006, 14695:2010+AC:2011
Root resistance	-	-	NPD	13707:2004+A2:2009
Resistance to static loading	kg	>=	NPD	13707:2004+A2:2009, 13969:2004
Resistance to impact	mm	>=	NPD	13707:2004+A2:2009, 13969:2004, 13970:2004/A1:2006
Tear resistance L/T	N	± 30%	NPD / NPD	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006
Joint resistance: - Peel joint - Joint strength	N/50 mm N/50 mm	± 20N ± 20%	NPD OJB	13707:2004+A2:2009, 13969:2004 13707:2004+A2:2009, 13969:2004, 13970:2004/A1:2006
Foldability	°C	<=	-10	13707:2004+A2:2009, 13969:2004, 13859-1:2010, 13970:2004/A1:2006
Water vapour properties	μ	>=	500,000	13970:2004/A1:2006
Durability: - Flexibility at low temperature - Deter. of flow res. at elev. temp. - UV resistance - Var. tensile properties L/T - Var. elongation L/T - Watertightness - Water vapour properties	°C °C - N/50 mm N/50 mm kPa μ	+15 -10 - ± 20% ± 15 abs >= >=	<=-5 >=120 NPD NPD / NPD -/ NPD >=	13707:2004+A2:2009 13707:2004+A2:2009, 14695:2010+AC:2011 13707:2004+A2:2009, 14695:2010+AC:2011 13859-1:2010 13859-1:2010 13969:2004, 13859-1:2010, 13970:2004/A1:2006 13969:2004, 13970:2004/A1:2006
Res. to dynamic water pressure	kPa	>=	NPD	14695:2010+AC:2011
Watertightness	%	<=	NPD	14695:2010+AC:2011
Bond strength	N/mm ²	>=	NPD	14695:2010+AC:2011
Capacity to bridge decks	°C	<=	NPD	14695:2010+AC:2011
Compatibility	%	>=	NPD	14695:2010+AC:2011
Resistance to heat impact	-	<=	NPD	14695:2010+AC:2011
Resistance to compaction	-	-	NPD	14695:2010+AC:2011
Resistance to shear	N/mm ²	>=	NPD	14695:2010+AC:2011
Dangerous substance	Not contain dangerous substances in compliance with national standard			

(1) Determination of external fire performance is a system test which can be influenced by system components, thus performance for each individual product cannot be given.

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Mappano,

Legal representative:
Maurizio Alongi

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