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European Technical Assessment

ETA-08/0114 of 02 sept 2020

(English translation prepared by CSTB – Original version in French language)

GENERAL PART

Technical Assessment Body issuing the European Technical Assessment:

Centre Scientifique et Technique du Bâtiment

(CSTB)

Trade name of the construction product:

Procédé FLASHING

Product family to which the construction

product belongs:

Product Area Code: 03

One component bitumen – polyurethane resin

for flashing application.

Manufacturer: SOPREMA SAS

14, rue de saint nazaire

BP 70215

67025 STRASBOURG CEDEX 1

Manufacturing plant(s): SOPREMA SAS

14, rue de saint nazaire

BP 70215

67025 STRASBOURG CEDEX 1

This European Technical Assessment

contains:

9 pages including 1 Annex(es) which form an

integral part of this assessment

This European Technical Assessment is issued in accordance with regulation (EU)

No 305/2011, on the basis of:

European Assessment Document (EAD) n° 030155-00-0402 (adopted draft EAD on march 22 2016) : "ONE COMPONENT BITUMEN-POLYURETHANE RESIN FOR

FLASHING APPLICATION"

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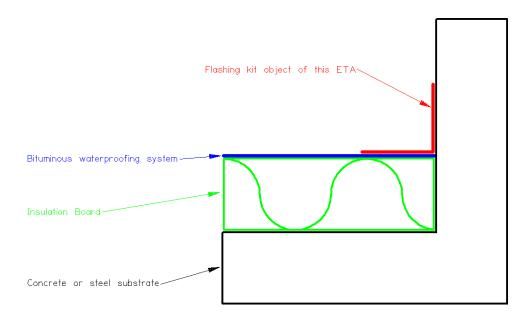
SPECIFIC PART

1. Technical description of the product

The roof waterproofing flashing system consists of one component bitumen-polyurethane resin for flashing application applied directly to bitumen waterproofing membrane used in the horizontal part of the roof.

The roof waterproofing flashing system is composed of:

- 1 layer of « ALSAN FLASHING » or « ALSAN FLASHING JARDIN » resin (900 g/m²)
- 1 layer of reinforcement « ALSAN TOILE DE RENFORT » put on the corner of the flashing with a minimum width of 10 cm
- 1 layer of « ALSAN FLASHING » or « ALSAN FLASHING JARDIN » resin (700g/m²)



The existing or new waterproofing system in horizontal parts of the roof, must be CE marked according to EN 13707 or according to ETAG 006 (used as EAD), and can only be:

- Flexible bituminous sheets mechanically fastened.
- Partially or fully bonded bituminous sheets
- Loose laid flexible bituminous sheets

Admissible substrates are:

- For horizontal part :
 - o bitumen sheet with mineral protection
 - o bitumen sheet with metallic protection.
 - o bitumen sheet with sand finishing
 - bitumen sheet burned film finishing (black sheet)
- For vertical part (acroterion, metallic roofcurb)
 - Concrete (all finish)
 - Steel

The minimum thickness of the roof waterproofing flashing system applied is 1.2 mm.

NB: the width of the overlapping between the roof waterproofing flashing system and the bitumen sheets or the vertical part depend of the national regulation.



2. Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The roof waterproofing flashing system for the waterproofing of roof surfaces against penetration of atmospheric water.

The roof waterproofing flashing system shows certain levels of performance according to EAD n°15-03-0155-04.02 which facilitates the use taking account of national requirements.

In the manufacturer's technical dossier (MTD) to this European technical assessment (ETA) the manufacturer gave information concerning substrates which the roof waterproofing flashing system is suitable for and on how these substrates shall be pre-treated.

The verifications which are based on this ETA give reason for the assumption of an intended working life of the roof waterproofing flashing system of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works

3. Performances of the product and references to the methods used for their assessment

Performances of the roof waterproofing flashing system, related to the basic requirements for construction works (hereinafter BWR), were determined according to the EAD n°15-03-0155-04.02.

These performances, given in the following paragraphs, are valid as long as the components are the ones described in § 1 and Annexe 1 of this ETA.

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Reaction to fire: No performance assessed

External fire performance: No performance assessed

3.3 Hygiene, health and the environment (BWR 3)

3.3.1 Watertightness

Kit is watertight according to Technical Report EOTA 003.

3.3.2 Resistance against ageing

Performance and tensile properties, after exposure of accelerated ageing by heat, artificial weathering and accelerated ageing by hot water are kept.

3.3.3 Resistance to plant roots

Resin ALSAN FLASHING : No performance assessed. Resin ALSAN FLASHING JARDIN: Resistant to root penetration.

3.3.4 Release of dangerous substances

According to Technical Report EOTA n° 034, the product does not contain dangerous substance.



3.4 Safety and accessibility in use (BWR 4)

3.4.1 Resistance to wind load

Bond strength on admissible substrates is > 50kPa.

3.4.2 Resistance to slipperiness

No performance determined.

3.5 Protection against noise (BWR 5)

No performance determined.

3.6 Energy economy and heat retention (BWR 6)

No performance determined.

3.7 Sustainable use of natural resources (BWR 7)

No performance determined.



4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to Decision 97/556/EC (Decision of the Commission of 14 July 1997, L 229 of 20.8.1997, p. 15), as amended by Decision 2001/596/EC (Decision of the Commission of 8 January 2001, L 209 of 2.8.2001, p. 33), the systems of AVCP given in the following table apply:

Product	Intended uses	Level or Class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	-	3

The systems of AVCP are described in Annex V of Regulation (EU) No 305/2011, as amended by Delegated Regulation (EU) No 568/2014.

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at the CSTB.

lssued in Marne-la-Vallée on 02 sept 2020 by Stéphane GILLIOT – DEB/FaCeT - CSTB



Apllicable	e to roof wat	erproofing: Resin ALS	AN FLASHING	3		
	Number of					
Properties	specimen / tests	Test method	Dimension	Smallest values	Higtest values	Mean values
		New specimen	•			
External fire performance		No testing		No p	erformance asse	ssed
Reaction to fire		No testing		No performance assessed		essed
Tensile properties						
Maximum tensile strength	_	EN 100 527 2	Мра	2,6	3,4	3
Elongation	5	EN ISO 527-3	%	344	505	431
Watertightness	3	TR 003	/		Watertight	
Flexibilty at low temerature	5	EN 1109	°C		-36	
Resistance to plant root		No testing		No p	erformance asse	ssed
Delamination	I					
burned plastic film upper face			1	249	284	269
Metallic autoprotection				369	424	401
sand upper face	_	TD		338	498	408
mineral protection	5	TR 004	kPa	336	421	371
Concrete				899	1234	1107
Steel				719	1347	935
Resistance to dynamic indentation	ļ		ļ			
burned plastic film upper face						
Metallic autoprotection						
	5	EN 12691 (method B)	m		2	
sand upper face						
mineral protection						
Differential movement of insulation : - 20°C/500 cycles	1	§ 2.2.7 of EAD n°15-03-0155-04.02.	/	No cracks, no loosening of layers, no splits, no loss of adhesion : Watertigh		
Differential movement on vertical and horizontal side	1	§ 2.2.8 of EAD n°15-03-0155-04.02.		No cracks, no loosening of layers, no splits, no loss of adhesion : Watertight		
Compressibility test for insulation materials compre	essibility (10%	6)			i	i
C10 % of insultation				81	91	85
C10% of applied kit on concrete		§ 2.2.9 of EAD n°15-03-0155-04.02.	kPa	80	89	84
C10% of applied kit on steel	3			82	95	88
Charge until ruin on concrete				245	267	254
Charge until ruin on steel				246	>325	>325
Determination of the resistance of sliding	3	§ 2.2.10 of EAD n°15-03-0155-04.02.	mm	0,0	0,0	0,0
Compatibility product / membrane : Peel resistance	Į	10 00 0100 04.02.			1	
Burned plastic film upper face				Burne	d plastic film upp	er face
Maximal resistance				156	205	181
Mean resistance				139	156	145
Metallic autoprotection					tallic autoprotec	
Maximal resistance				76	109	89
Mean resistance				36	39	38
					Sand upper face	
Sand upper face		§ 2.2.11 of EAD n°15-03-0155-04.02.				
Maximal resistance				222	231	225
Mean resistance	3		N/50 mm	156	182	166
Mineral protection	-				Mineral protectio	
Maximal resistance				271	297	285
Mean resistance				235	259	247
Concrete					Concrete	
Maximal resistance				222	226	224
Mean resistance				173	183	178
Steel					Steel	
Maximal resistance				81	166	131
Mean resistance			j	61	119	90

Roof waterproofing "ALSAN FLASHING"

Roof waterproofing flashing system

Characteristics of "Procédé FLASHING"

ANNEX 1 (1/4) of ETA-08/0114



	Number of	Test method	Dimension		Results	
Properties	specimen / tests			Smallest values	Higtest values	Mean value
Resista	ance to thermal	ageing (TR 011) during 84	4 days at 70°C		•	•
Flexibilty at low temerature	5	EN 1109	°C		-36	
Tensile properties			•			
Maximum tensile strength	5	EN ISO 527-3	Мра	2,3	3,7	3,1
Elongation	5		%	459	536	510
Resista	ance to thermal	ageing (TR 011) during 1	month at 80°C			
Differential movement of insulation : - 20°C/200 cycles	1	§ 2.2.8 of EAD n°15-03-0155-04.02.	/		ks, no loosening o loss of adhesio	
Compatibility product / membrane : Peel resistance	е		l.			
Burned plastic film upper face				Burne	d plastic film upp	er face
Maximal resistance				155	173	167
Mean resistance				127	145	134
Metallic autoprotection			•	Me	etallic autoproted	tion
Maximal resistance			l t	159	205	178
Mean resistance			-	54	113	89
Sand upper face				Sand upper face		
Maximal resistance				198	238	215
Mean resistance		§ 2.2.11 of EAD	1	159	162	161
Mineral protection	3	n°15-03-0155-04.02.	N/50 mm	Mineral protection		
Maximal resistance				246	261	254
Mean resistance				221	237	227
Concrete				Concrete		
Maximal resistance				179	320	242
Mean resistance				162	253	207
Steel				Steel		
Maximal resistance				235	270	248
Mean resistance				170	204	184
Res	istance to UV a	geing (TR 010) during 100	00h at 60°C			•
Flexibility at low temperature	5	EN 1109	°C		-36	
Tensile properties						
Maximum tensile strength	5	NF EN ISO 527-3	MPa	2,1	2,8	2,5
Elongation	5		%	399	530	478
Resistance	e to stagnant wa	ter ageing (TR 012) durin	ig 30 days at 6	0°C		
Resistance to dynamic indentation						
burned plastic film upper face						
Metallic autoprotection	5	EN 12691 (method B)		2		
sand upper face	5	EN 12691 (method B)	m			
mineral protection						
Compatibility product / membrane : Peel resistance	e					
Concrete		§ 2.2.11 of EAD n°15-03-0155-04.02.	N/50 mm	Concrete		
Maximal resistance				170	222	197
Mean resistance	5			160	206	
Steel	5				Steel	
Maximal resistance				170	217	188
Mean resistance				130	163	144

Roof waterproofing "ALSAN FLASHING"

Roof waterproofing flashing system

Characteristics of "Procédé FLASHING"

ANNEX 1 (2/4) of ETA-08/0114



	Number of			Results			
Properties	specimen / tests	Test method	Dimension	Smallest values	Higtest values	Mean values	
	Г	New specimen			,		
External fire performance	No testing			No performance assessed			
Reaction to fire	No testing No performance assess					ssed	
Tensile properties	1	•					
Maximum tensile strength	5	EN ISO 527-3	Mpa	4,4	5,5	5,1	
Elongation	Ů	211100 027 0	%	418	463	435	
Watertightness	3	TR 003	/	•	Watertight		
Flexibilty at low temerature	5	EN 1109	°C		-36		
Resistance to plant root	6	EN 13 948	/	No roo	t penetration - Wa	atertight	
Delamination	Ī	1					
burned plastic film upper face				249	284	269	
Metallic autoprotection				369	424	401	
sand upper face	5	TR 004	kPa	338	498	408	
mineral protection		111.004	""	336	421	371	
Concrete				899	1234	1107	
Steel				599	827	752	
Resistance to dynamic indentation							
burned plastic film upper face							
Metallic autoprotection	_	EN 12691 (method B)	m	2			
sand upper face	5						
mineral protection							
Differential movement of insulation :		§ 2.2.7 of EAD	No crac	No cracks, no loosening of layers,			
- 20°C/500 cycles	1	n°15-03-0155-04.02.	/	no splits, no loss of adhesion : Watertigh			
fferential movement on vertical and horizontal side	1	§ 2.2.8 of EAD n°15-03-0155-04.02.		No cracks, no loosening of layers, no splits, no loss of adhesion : Watertight			
Compressibility test for insulation materials compre	essibility (10%	6)					
C10 % of insultation				81	91	85	
C10% of applied kit on concrete	3	§ 2.2.9 of EAD n°15-03-0155-04.02.	kPa	80	89	84	
C10% of applied kit on steel				82	95	88	
Charge until ruin on concrete				245	267	254	
Charge until ruin on steel				246	>325	>325	
Determination of the resistance of sliding	3	§ 2.2.10 of EAD n°15-03-0155-04.02.	mm	0,0	0,0	0,0	
Compatibility product / membrane : Peel resistance					•		
Burned plastic film upper face				Burne	d plastic film upp	er face	
Maximal resistance				99	121	106	
Mean resistance				62	92	77	
Metallic autoprotection				Me	tallic autoprotec	tion	
Maximal resistance			[136	187	166	
Mean resistance			[98	132	109	
Sand upper face					Sand upper face)	
Maximal resistance				108	115	113	
Mean resistance	3	§ 2.2.11 of EAD n°15-03-0155-04.02.	N/50 mm	77	85	81	
Mineral protection] 3			Mineral protection			
Maximal resistance			[202	242	212	
Mean resistance			[160	218	182	
Concrete					Concrete		
Maximal resistance				163	186	176	
Mean resistance				125	146	138	
Steel					Steel		
Maximal resistance				121	133	130	
maxima roototarroo							

Roof waterproofing "ALSAN FLASHING JARDIN"

Roof waterproofing flashing system

Characteristics of "Procédé FLASHING"

ANNEX 1 (3/4) of ETA-08/0114



	Number of				Results		
Properties	specimen / tests	Test method	Dimension	Smallest values	Higtest values	Mean value	
Resist	tance to thermal	ageing (TR 011) during 8-	4 days at 70°C				
Flexibilty at low temerature	5	EN 1109	°C		-35		
Tensile properties	•		•				
Maximum tensile strength	5	EN ISO 527-3	Mpa	4,1	4,5	4,3	
Elongation	5		%	471	495	478	
Resist	ance to thermal	ageing (TR 011) during 1	month at 80°C				
Differential movement of insulation : - 20°C/200 cycles	1	§ 2.2.8 of EAD n°15-03-0155-04.02.	/		cks, no loosening o loss of adhesio		
Compatibility product / membrane : Peel resistant	e	I .	1				
Burned plastic film upper face				Burne	d plastic film upp	er face	
Maximal resistance				155	173	167	
Mean resistance				127	145	134	
Metallic autoprotection				Me	etallic autoprotec	tion	
Maximal resistance			Ī	159	205	178	
Mean resistance				54	113	89	
Sand upper face				Sand upper face			
Maximal resistance				198	238	215	
Mean resistance	_	§ 2.2.11 of EAD		159	162	161	
Mineral protection	3	n°15-03-0155-04.02.	N/50 mm	Mineral protection			
Maximal resistance				246	261	254	
Mean resistance				221	237	227	
Concrete				Concrete			
Maximal resistance				292	325	306	
Mean resistance				195	274	234	
Steel				Steel			
Maximal resistance				118	178	144	
Mean resistance				80	113	97	
Res	sistance to UV ag	geing (TR 010) during 100	00h at 60°C				
Flexibility at low temperature	5	EN 1109	°C		-36		
Tensile properties	•	•					
Maximum tensile strength	_	NF EN ISO 527-3	MPa	3,9	4,8	4,5	
Elongation	- 5		%	471	495	478	
Resistanc	e to stagnant wa	ter ageing (TR 012) durin	g 30 days at 6	0°C	•		
esistance to dynamic indentation							
burned plastic film upper face		EN 12691 (method B)					
Metallic autoprotection	_			2			
sand upper face	5		m				
mineral protection							
Compatibility product / membrane : Peel resistance	ce		<u>'</u>				
Concrete		§ 2.2.11 of EAD n°15-03-0155-04.02.	N/50 mm		Concrete		
Maximal resistance				224	250	237	
Mean resistance	_			cohesive failure			
Steel	5				Steel		
Maximal resistance				207	228	219	
Mean resistance					cohesive failure		

Roof waterproofing "ALSAN FLASHING JARDIN"

Roof waterproofing flashing system

Characteristics of "Procédé FLASHING"

ANNEX 1 (4/4) of ETA-08/0114