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## BRITISH BOARD OF AGRÉMENT TEST REPORT 59442

### HEVADEX BVBA – BLOWERPROOF LIQUID AND BLOWERPROOF LIQUID BRUSH

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On behalf of the British Board of Agrément

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## 1 REPORT CONDITIONS

### 1.1 This Report:

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## 2 RESISTANCE TO FATIGUE

### 2.1 Method

In accordance with EOTA TR008 : 2004 *Determination of the resistance to fatigue movement*

### 2.2 Samples

BBA ref/lot	Quantity	Description
S2/59319/1	1	10 kg packs of Blowerproof Liquid (0305616)
S2/59319/2	1	5 kg packs Blowerproof Liquid Brush (2006618)
S2/59319/5 <sup>(1)</sup>	2	500 mm x 250 mm concrete blocks prepared with Blowerproof Liquid (Lot 1).
S2/59319/8 <sup>(1)</sup>	2	500 mm x 250 mm concrete blocks prepared with Blowerproof Liquid Brush (Lot 2).

(1) The samples were prepared by the client on concrete block assemblies supplied by the BBA.

### 2.3 Conditioning

Control	-	Tested as prepared.
Heat aged	-	Stored in a ventilated oven controlled at 70°C for 56 days.

### 2.4 Results

Lot	Conditioning	Number of cycles at 5°C	Observations
5	Control	500	No cracking or delamination seen, and no leakage of the Eosin dye through the product.
	Heat Aged	200	No cracking or delamination seen, and no leakage of the Eosin dye through the product.
8	Control	500	No cracking or delamination seen, and no leakage of the Eosin dye through the product.
	Heat Aged	200	No cracking or delamination seen, and no leakage of the Eosin dye through the product.

### 3 TENSILE STRENGTH

#### 3.1 Method

In accordance with BS EN ISO 527-3 : 1996 BS 2782-3 : Method 326 E : 1996 *Plastics – Determination of tensile properties – Part 3 : Test conditions for films and sheets.*

#### 3.2 Samples

BBA ref/lot	Quantity	Description
S2/59319/6	2	1 m <sup>2</sup> Blowerproof Liquid – Batch 2206616, Prod. Date: 22/06/2016
S2/59319/7	1	1 m <sup>2</sup> Blowerproof Liquid Brush – Batch 2908618, Prod. Date: 29/08/2016

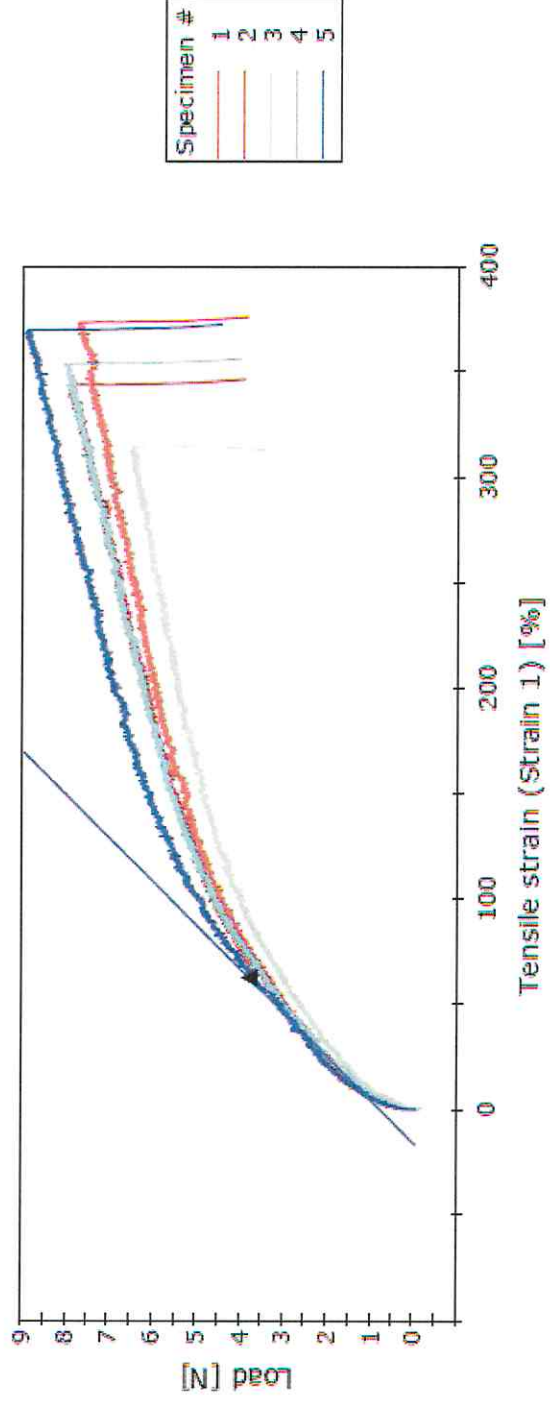
#### 3.3 Conditioning

Control	-	Tested as received.
Heat aged	-	Stored in a ventilated oven controlled at 70°C for 56 days.
UV aged	-	100 MJ·m <sup>-2</sup> at 50°C as defined in EOTA Technical Report TR-010 : May 2004 <i>Liquid Applied Roof Waterproofing Kits (LARWK) – Exposure procedure for artificial weathering.</i> The specimens were exposed to UV only (no spray)

### 3.4 Results

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
Control	6	1	0.42	7.8	2.91	369.2	373.1	Broke between the grips.
		2	0.41	8.0	3.06	342.9	343.3	Broke between the grips.
		3	0.39	6.5	2.64	309.9	313.9	Broke between the grips.
		4	0.46	8.1	2.76	352.8	352.8	Broke between the grips.
		5	0.47	8.9	2.99	367.8	369.2	Broke between the grips.
		Mean	0.43	7.8	2.87	348.5	350.5	
		SD	0.03	0.86	0.17	24.18	23.75	

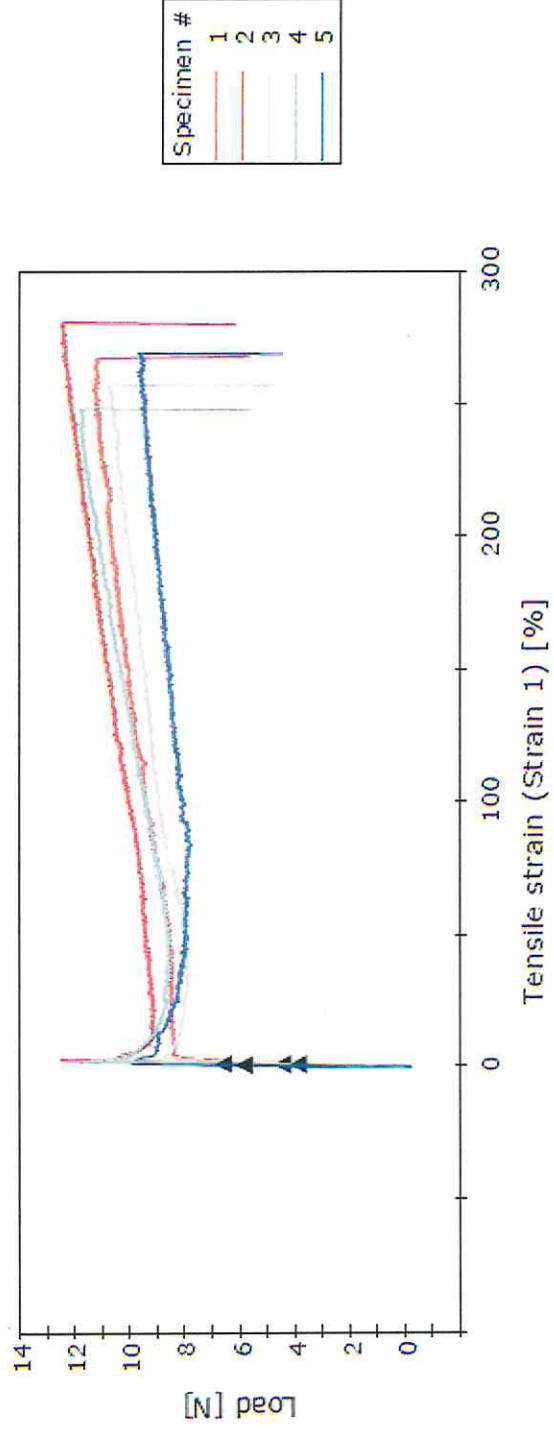
ISO 527 Tensile Test



3.4 Results (continued)

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
Control	7	1	0.82	11.3	2.18	254.7	266.4	Broke between the grips.
		2	0.88	12.5	2.24	278.5	280.0	Broke between the grips.
		3	0.79	10.8	2.16	256.8	257.0	Broke between the grips.
		4	0.83	11.8	2.25	247.3	247.7	Broke between the grips.
		5	0.72	9.9	2.17	240	268.7	Broke between the grips.
		Mean	0.81	11.3	2.20	207.9	264.0	
		SD	0.06	0.98	0.04	115.48	12.23	

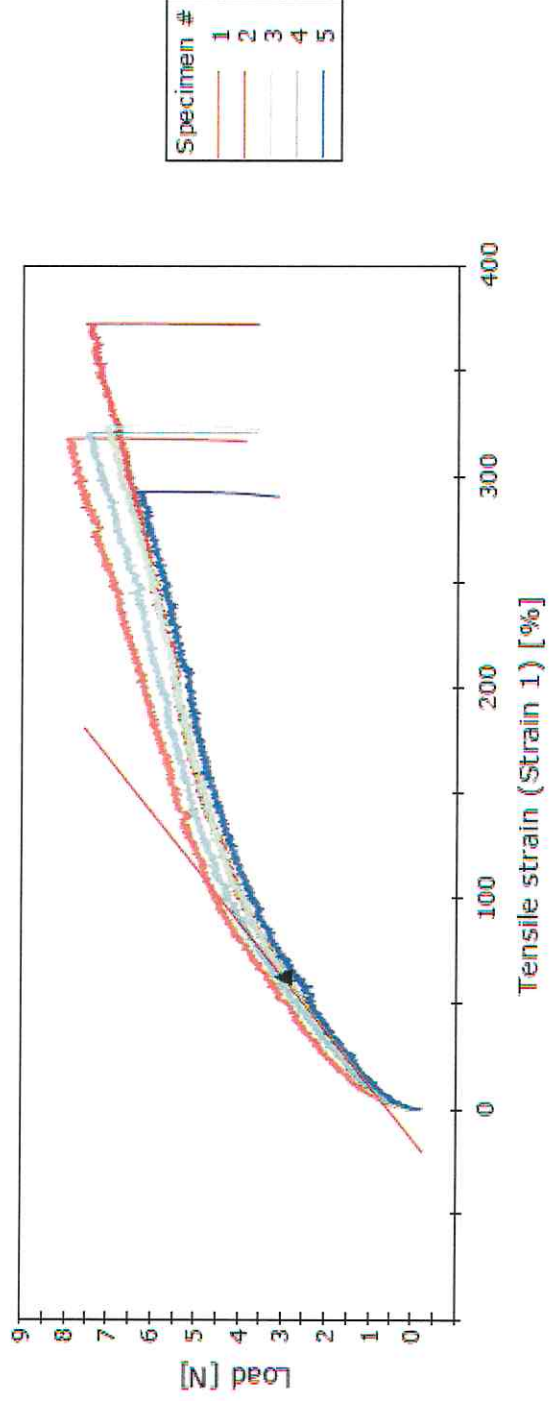
ISO 527 Tensile Test



3.4 Results (continued)

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
Heat aged	6	1	0.35	8.0	3.60	317.3	317.9	Broke between the grips.
		2	0.35	7.6	3.40	372.1	372.1	Broke between the grips.
		3	0.31	7.1	3.63	322.3	323.5	Broke between the grips.
		4	0.33	7.6	3.60	317.1	320.2	Broke between the grips.
		5	0.30	6.4	3.33	292.4	292.4	Broke between the grips.
		Mean	0.33	7.3	3.51	324.2	325.2	
		SD	0.02	0.62	0.14	29.18	28.97	

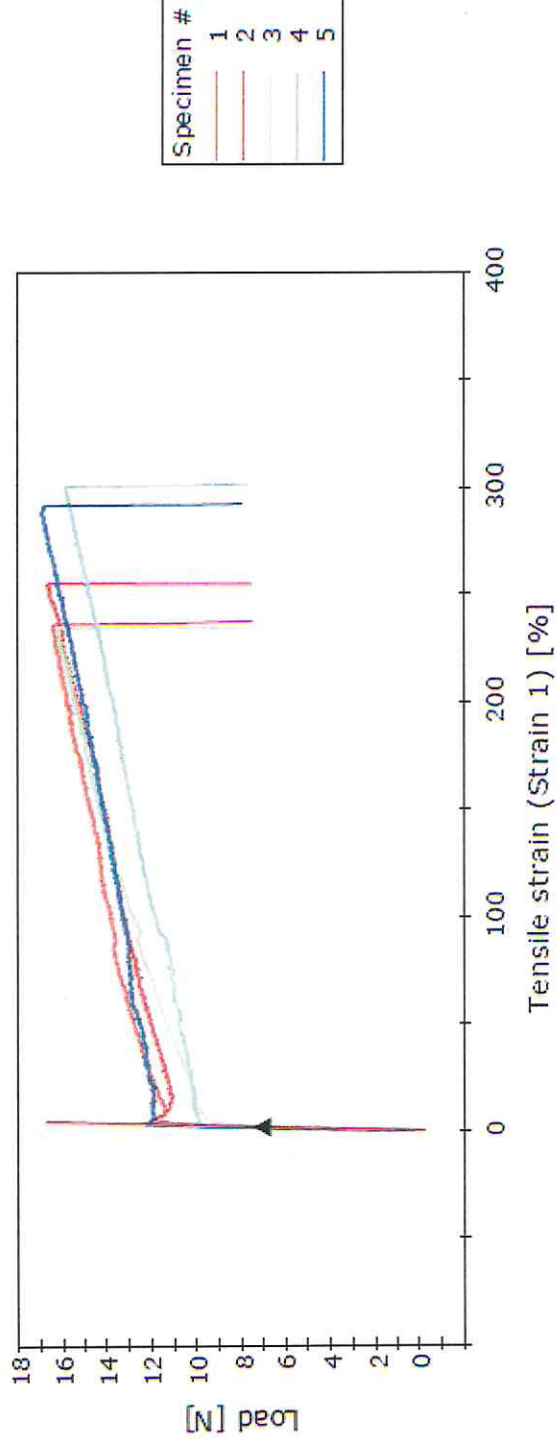
ISO 527 Tensile Test



3.4 Results (continued)

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
Heat aged	7	1	0.75	16.5	3.46	233.4	235.2	Broke between the grips.
		2	0.80	16.7	3.29	253.8	254.3	Broke between the grips.
		3	0.78	16.3	3.29	232.6	233.8	Broke between the grips.
		4	0.78	15.9	3.22	299.4	299.6	Broke between the grips.
		5	0.86	17.0	3.11	287.1	290.7	Broke between the grips.
		Mean		16.5	3.28	261.2	262.7	
		SD		0.40	0.13	30.72	30.82	

ISO 527 Tensile Test

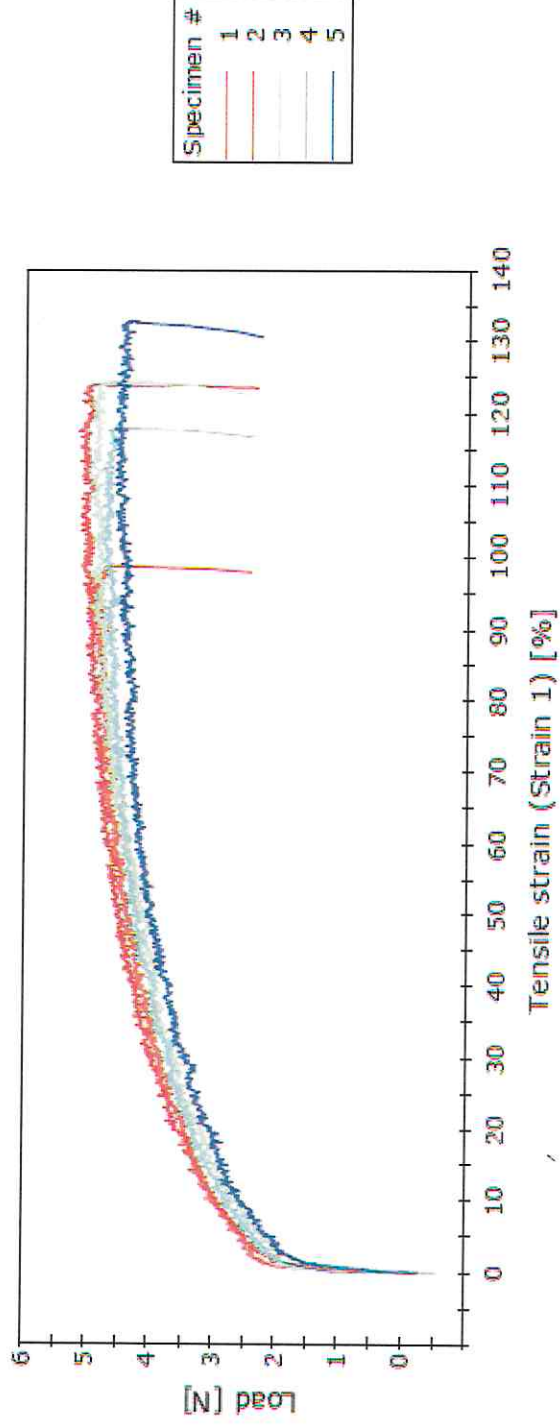




### 3.4 Results (continued)

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
UV aged	6	1	0.41	5.0	1.90	95.4	98.6	Broke between the grips.
		2	0.41	5.2	1.98	117.4	123.8	Broke between the grips.
		3	0.41	5.0	1.92	121.2	124.0	Broke between the grips.
		4	0.40	4.8	1.89	105.1	117.6	Broke between the grips.
		5	0.40	4.6	1.81	116.1	132.5	Broke between the grips.
		Mean	0.41	4.9	1.90	111.0	119.3	
		SD	0.01	0.21	0.06	10.62	12.73	

ISO 527 Tensile Test



3.4 Results (continued)

Conditioning	Lot	Specimen	Thickness (mm)	Maximum load (N)	Stress at maximum load (MPa)	Strain at maximum load (%)	Strain at break (%)	Mode of failure
UV aged	7	1	0.79	11.6	2.32	127.6	163.4	Broke between the grips.
		2	0.69	9.8	2.24	3.0	158.0	Broke between the grips.
		3	0.63	14.5	3.64	1.1	83.6	Broke between the grips.
		4	0.78	14.3	2.89	3.0	68.0	Broke between the grips.
		5	0.67	10.2	2.41	2.5	34.9	Broke between the grips.
		Mean	0.71	12.1	2.70	27.4	101.6	
		SD	0.07	2.22	0.58	56.02	56.79	

ISO 527 Tensile Test

