



REPORT ON TEAR STRENGTH OF SELF ADHESIVE WATERPROOFING MEMBRANE (FILM)

Client : Bitumat Company Limited
Address : P.O.Box 7487, Dammam ,Saudi Arabia
Contractor : NP
Consultant : NP
Project Name : NP
Sample Description : **Self-Adhesive Waterproofing Membrane (Film)**
Sample Name : **Bituseal 1500 CLX (Film)**
Source of sample : Client
Sample brought in by : Client
Type of Machine used : Universal Testing Machine
Size of Sample : 1 x 2 m
Client Ref No. : NP

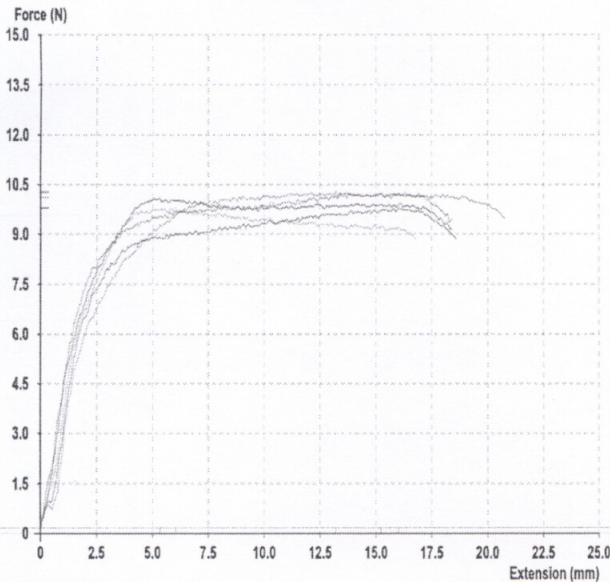
Page 1 of 3

Report No : **WPR-1704/130**
Lab Project No : **P-2156**
Lab. Ref. No : WPQ-1704/090
Date of Sampling : NP
Date sample received : 20/04/2017
Date test started : 22/04/2017
Date test completed : 22/04/2017
Report Date : 25/04/2017
Sampled by : Client
Room Temperature : 24°C
Relative humidity : 50%
Tested by : JR

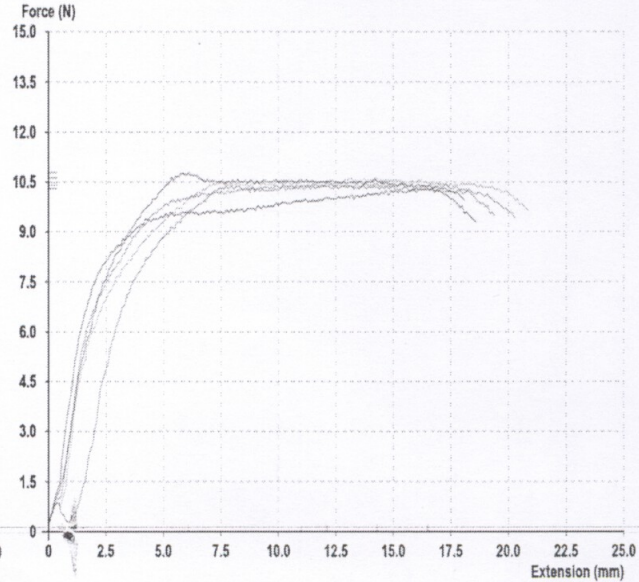
Test Data

Lab. Ref. No	Width (mm)	Thickness Longitudinal (mm)	Thickness Transversal (mm)	Tear Strength thickness (N/mm)	
				Longitudinal (N/mm)Thickness	Transversal (N/mm)Thickness
WPQ-1704/090/1	15	0.065	0.065	159	161
WPQ-1704/090/2	15	0.065	0.065	156	159
WPQ-1704/090/3	15	0.065	0.065	151	164
WPQ-1704/090/4	15	0.065	0.065	151	166
WPQ-1704/090/5	15	0.065	0.065	158	160
Average =				155	162
Standard Deviation=				3.74	2.89

Longitudinal



Transversal



Tear Strength Test Method : **ASTM D 1004- 94a**
Conditioning of specimen : **ASTM D 1004- 94a.Cls. 6**
Method variation : None
Remarks : None



Authorized Signatory


Raja Kumar
Deputy Tech. Manager

Certificate Number: SNR 30362926/4/Q



ماتيريال لاب- دبي، صندوق بريد: ١١٤٧١٧ هاتف: +٩٧١ ٤ ٣٤٠٥٦٧٨، فاكس: +٩٧١ ٤ ٣٤٠٥٦٧٧
ماتيريال لاب لخدمات الفحص ذ.م.م. - أبوظبي: صندوق بريد: ٦١٨٣١، هاتف: +٩٧١ ٢ ٥٥٠٣٠٤٠، فاكس: +٩٧١ ٢ ٥٥٠٣٠٤١

Material Lab - Dubai, P.O. Box: 114717, Tel. + 971 4 3405678, Fax: + 971 4 3405677

Material Lab Testing Services L.L.C. - Abu Dhabi: P.O. Box - 61831, Tel. + 971 2 5503040 Fax: +971 2 5503041
Email: mid@eim.ae Website: www.mlab.ae



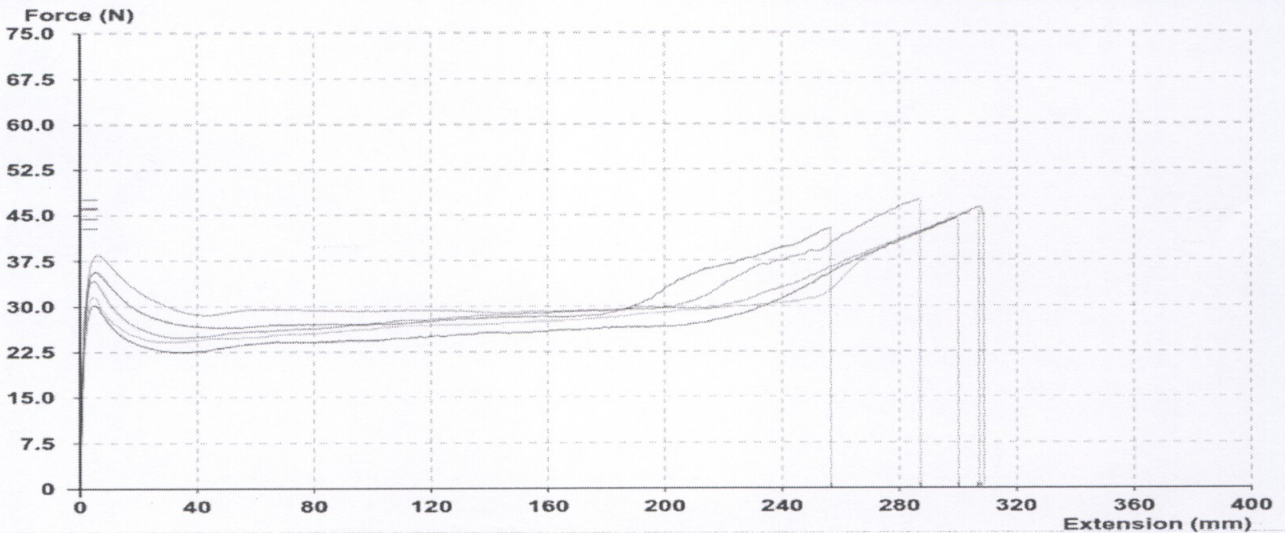
REPORT ON TENSILE STRENGTH AND ELONGATION OF SELF ADHESIVE WATERPROOFING MEMBRANE (FILM)

Page 2 of 3

Client	: Bitumat Company Limited	Report No	: WPR-1704/131/1
Address	: P.O.Box 7487, Dammam ,Saudi Arabia	Lab Project No	: P-2156
Contractor	: NP	Sample No	: WPQ-1704/090
Consultant	: NP	Sample brought in by	: Client
Project name	: NP	Date Sample Received	: 20/04/2017
Sample Description	: Self Adhesive Waterproofing Membrane (Film)	Date test started	: 22/04/2017
		Date test completed	: 22/04/2017
Sample Name	: Bituseal 1500 CLX (Film)	Report Date	: 25/04/2017
Supplier/Source	: Client	Sampled by	: Client
Size of Sample	: 1 x 2 m	Tested by	: JR
Sampling Date	: NP		
Gauge Length	: 50 mm	Specimen Type	: Straight Specimen
Speed of Testing	: 500 mm/ min.	Testing Room Temperature	: 23 ± 2 °C
Direction of test	: Longitudinal	Relative humidity	: 50%

Test Data

Specimen No.	Length of Specimen (mm)	Average Thickness (mm)	Width of Specimen (mm)	Maximum Load (N)	Tensile Strength (MPa)	Elongation at Break (%)
WPQ-1704/090/1	150	0.065	25.00	46	28.46	618
WPQ-1704/090/2	150	0.065	25.00	44	27.35	600
WPQ-1704/090/3	150	0.065	25.00	46	28.34	614
WPQ-1704/090/4	150	0.065	25.00	43	26.37	514
WPQ-1704/090/5	150	0.065	25.00	48	29.26	574
Average =					27.96	584



Test Method	: ASTM D 638-14 / ASTM D 882-97
Conditioning of specimen	: ASTM D 882 Cls. 9.1
Method variation	: None
Remarks	: This test was carried out using a computerized universal testing machine (UTM-2).



Raja Kumer
Authorized Signatory
Raja Kumer
Test Manager

Results relate only to the item tested. This report shall not be reproduced except in full, without written approval of the laboratory.

Certificate Number: SNR 30362926/4/Q



+٩٧١ ٤ ٣٤٠٥٦٧٧: فاكس، +٩٧١ ٤ ٣٤٠٥٦٧٨: هاتف: ١١٤٧١٧: صندوق بريد: دبي، صندوق بريد: ماتيريال لاب-دبي، +٩٧١ ٢ ٥٥٠٣٠٤١: فاكس، +٩٧١ ٢ ٥٥٠٣٠٤٠: هاتف، ٦١٨٣١: صندوق بريد: أبو ظبي: ماتيريال لاب لخدمات الفحص ذ.م.م. - أبو ظبي
Material Lab - Dubai, P.O. Box: 114717, Tel. + 971 4 3405678, Fax: + 971 4 3405677

Material Lab Testing Services L.L.C. - Abu Dhabi: P.O. Box - 61831, Tel. + 971 2 5503040 Fax: +971 2 5503041

Email: mld@eim.ae Website: www.mlab.ae



REPORT ON TENSILE STRENGTH AND ELONGATION OF SELF ADHESIVE WATERPROOFING MEMBRANE (FILM)

Page 3 of 3

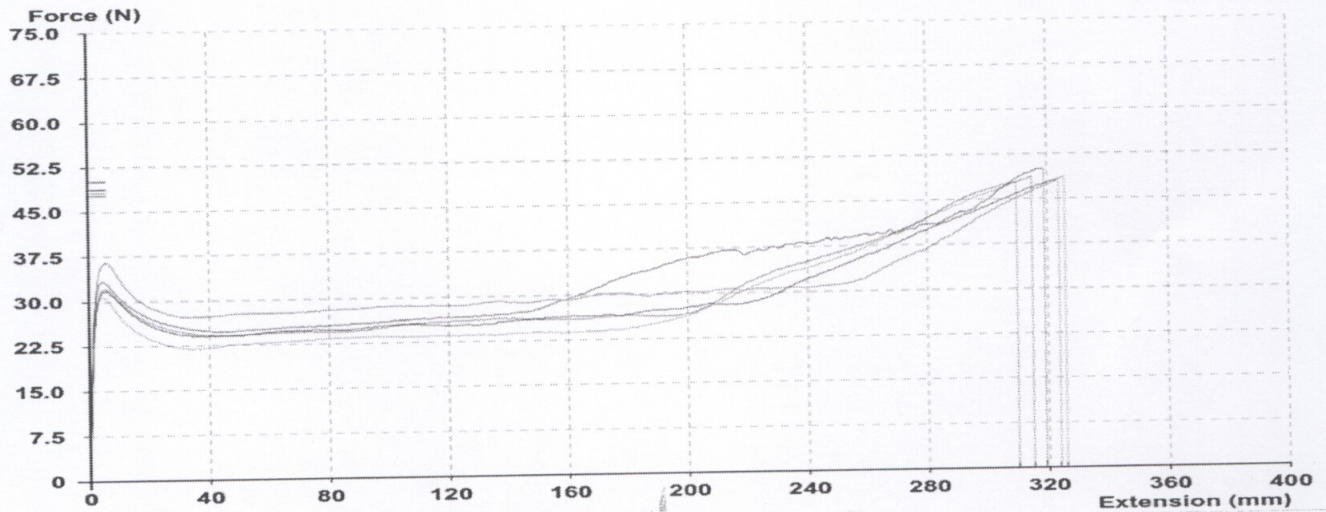
Client : Bitumat Company Limited
Address : P.O.Box 7487, Dammam ,Saudi Arabia
Contractor : NP
Consultant : NP
Project name : NP
Sample Description : **Self Adhesive Waterproofing Membrane (Film)**
Sample Name : **Bituseal 1500 CLX (Film)**
Supplier/Source : Client
Size of Sample : 1 x 2 m
Sampling Date : NP
Gauge Length : 50 mm
Speed of Testing : 500 mm/ min.
Direction of test : **Transversal**

Report No : **WPR-1704/131/2**
Lab Project No : **P-2156**
Sample No : WPQ-1704/090
Sample brought in by: Client
Date Sample Received : 20/04/2017
Date test started : 22/04/2017
Date test completed : 22/04/2017
Report Date : 25/04/2017
Sampled by : Client
Tested by : JR

Specimen Type : Straight Specimen
Testing Room Temperature : 23 ± 2 °C
Relative humidity : 50%

Test Data

Specimen No.	Length of Specimen (mm)	Average Thickness (mm)	Width of Specimen (mm)	Maximum Load (N)	Tensile Strength (MPa)	Elongation at Break (%)
WPQ-1704/090/1	150	0.065	25.00	49	29.97	652
WPQ-1704/090/2	150	0.065	25.00	48	29.66	648
WPQ-1704/090/3	150	0.065	25.00	48	29.38	620
WPQ-1704/090/4	150	0.065	25.00	50	30.83	638
WPQ-1704/090/5	150	0.065	25.00	49	30.03	630
Average =					29.97	638



Test Method : **ASTM D 638-14 / ASTM D 882-97**
Conditioning of specimen : **ASTM D 882 Cls. 9.1**
Method variation : None
Remarks : This test was carried out using a computerized universal testing machine (UTM-2).



Authorized Signatory
Raja Kurjer
Jr. Tech Manager

Results relate only to the item tested. This report shall not be reproduced except in full, without written approval of the laboratory.

Certificate Number: SNR 30362926/A/Q



ماتيريال لاب- دبي، صندوق بريد: ١١٤٧١٧ هاتف: +٩٧١ ٤ ٣٤٠٥٦٧٨، فاكس: +٩٧١ ٤ ٣٤٠٥٦٧٧
ماتيريال لاب لخدمات الفحص ذ.م.م. - أبوظبي: صندوق بريد: ٦١٨٣١، هاتف: +٩٧١ ٢ ٥٥٠٣٠٤٠، فاكس: +٩٧١ ٢ ٥٥٠٣٠٤١
Material Lab - Dubai, P.O. Box: 114717, Tel. + 971 4 3405678, Fax: + 971 4 3405677

Material Lab Testing Services L.L.C. - Abu Dhabi: P.O. Box - 61831, Tel. + 971 2 5503040 Fax: +971 2 5503041
Email: mld@eim.ae Website: www.mlab.ae