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中国认可
国际互认
检测
TESTING
CNAS L0690

TEST REPORT

No: WT2018B03C03668



Entrusted by Shenzhen Joaboa Technology Ltd.

Sample Name BAC Root-resistant self-adhesive
waterproofing membrane

Test Type Entrustment test

**National Research Center of Testing Techniques
for Building Materials**



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Sample Name	BAC Root-resistant self-adhesive waterproofing membrane	Test Type	Entrustment test
Entrusted by	Shenzhen Joaboa Technology Ltd.	Brand	BAC
Manufacturer	SUZHOU JOABOA TECHNOLOGY LTD.	Sample Description	Intact
Sample Received Date	July 6, 2018	Quantity	5 rolls
Production Date/ Batch No.	---	Model/Size	W PY II D,4.0mm 1m×10m
Test based on	The inspection basis for each inspection item is detailed in the data page		
Test Standard	GB/T 23457-2009 Pre-applied and wet installed waterproof sheets		
Test Items	Flexibility at low temperature, Flow resistance at elevated temperature, Watertightness, Tensile property, Tear strength, Asphalt penetration, Thermal stability, Artificial ageing by long term exposure to elevated temperature, The peel resistance between waterproof sheet and waterproof sheet, Holding power, The peel resistance between waterproof sheet and cement-mortar board, The peel resistance between waterproof sheet and cement-mortar board after soaking treatment, Thickness, Mass per unit area, Area, Visible defects		
Conclusion	<p>* According to GB /T 23457 – 2009, test results of all items comply with the requirements of products with class II of PY type of wet installed waterproof sheets. Test results are shown in pages 2~6. *</p> <p style="text-align: right;">Date of issued: October 10, 2018</p>		
Remarks:	(Blank)		

Approved by: Verified by: Compiled by:

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No.	Test Item	Unit of measurement	Requirements of Standard (W PY II)	Test Results	Individual Conclusion	Test based on	
1	Flexibility at low temperature	/	- 25°C, No crack	- 25°C, No crack	Pass	GB/T 23457-2009 5.15 GB/T 328.14-2007	
2	Flow resistance at elevated temperature	/	70°C, 2h, No displacement, No flow, No droplet	70°C, 2h, No displacement, No flow, No droplet	Pass	GB/T 23457-2009 5.13 GB/T 328.11-2007	
3	Watertightness	/	0.3MPa, 120min No leakage	0.3MPa, 120min No leakage	Pass	GB/T 23457-2009 5.17 GB/T 328.10-2007	
4	Tensile property	Tensile force (Longitudinal direction)	N/50mm	≥600	1120	Pass	GB/T 328.8-2007
		Tensile force (Transverse direction)	N/50mm	≥600	1045	Pass	
		Elongation at maximum tensile force (Longitudinal direction)	%	≥40	45	Pass	
		Elongation at maximum tensile force (Transverse direction)	%	≥40	51	Pass	

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No.	Test Item		Unit of measurement	Requirements of Standard (W PY II)	Test Results	Individual Conclusion	Test based on
5	Tear strength	Longitudinal direction	N	≥ 300	799	Pass	GB/T 23457-2009 5.9.2
		Transverse direction	N	≥ 300	664	Pass	
6	Asphalt penetration		piece	≤ 2	1	Pass	GB/T 23457-2009 5.19
7	Thermal stability	Visible defects	/	No bubble, No slip, No flow	No bubble, No slip, No flow	Pass	GB/T 23457-2009 5.24
		Dimensional stability (Longitudinal direction)	%	≤ 2.0	0.2	Pass	
		Dimensional stability (Transverse direction)	%	≤ 2.0	0.6	Pass	

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No.	Test Item		Unit of measurement	Requirements of Standard (W PY II)	Test Results	Individual Conclusion	Test based on
8	Artificial ageing by long term exposure to elevated temperature (70°C, 168h)	The retention rate of tensile force (Longitudinal direction)	%	≥90	98	Pass	GB/T 23457-2009 5.23、5.15 GB/T 328.8-2007 GB/T 328.14-2007
		The retention rate of tensile force (Transverse direction)	%	≥90	90.4	Pass	
		The retention rate of elongation (Longitudinal direction)	%	≥80	118	Pass	
		The retention rate of elongation (Transverse direction)	%	≥80	120	Pass	
		Flexibility at low temperature	/	-23°C No crack	-23°C No crack	Pass	
9	The peel resistance between waterproof sheet and waterproof sheet	Non-treated	N/mm	≥1.0	1.1	Pass	GB/T 23457-2009 5.18 GB/T 328.20-2007
		Heat treated	N/mm	≥1.0	1.5	Pass	

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No.	Test Item		Unit of measurement	Requirements of Standard (W PY II)	Test Results	Individual Conclusion	Test based on
10	Holding power	The upper surface	min	≥ 15	54	Pass	GB/T 23457-2009 5.20
		The bottom surface	min	≥ 15	56	Pass	
11	The peel resistance between waterproof sheet and cementmortar board	Non-treated	N/mm	≥ 2.0	2.2	Pass	GB/T 23457-2009 5.21
		Heat treated	N/mm	≥ 1.5	1.7	Pass	
12	The peel resistance between waterproof sheet and cementmortar board after soaking treatment		N/mm	≥ 1.5	1.51	Pass	GB/T 23457-2009 5.22
13	Thickness	The average value	mm	≥ 4.0	1#: 4.02 2#: 4.01 3#: 4.02 4#: 4.03 5#: 4.02	Pass	GB/T 23457-2009 5.5
		The minimum value	mm	3.7	1#: 3.97 2#: 3.96 3#: 3.96 4#: 3.90 5#: 3.95	Pass	

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No.	Test Item		Unit of measurement	Requirements of Standard (W PY II)	Test Results	Individual Conclusion	Test based on
14	Mass per unit area		kg/m ²	≥4.1	1#: 4.8 2#: 4.8 3#: 4.8 4#: 4.9 5#: 4.8	Pass	GB/T 23457-2009 5.4
15	Area	10m ²	%	≥99	1#: 101 2#: 101 3#: 100 4#: 100 5#: 100	Pass	GB/T 23457-2009 5.3
16	Visible defects		/	Should meet the standard requirements of Clause 4.2	1#~5#: Meet the standard requirements of Clause 4.2	Pass	GB/T 328.2-2007
Remarks	(Blank)						

===== THE END =====

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