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中国认可
国际互认
检测
TESTING
CNAS L0690

TEST REPORT

No: WT2018B03C03666



Entrusted by Shenzhen Joaboa Technology Ltd.

Sample Name CLF Cross Laminated Film
Macromolecule Self-adhesive
Waterproofing Membrane

Test Type Entrustment test

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



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| | | | |
|---------------------------------------|---|-------------------------------|--------------------------|
| Sample Name | CLF Cross Laminated Film Macromolecule Self-adhesive Waterproofing Membrane | Test Type | Entrustment test |
| Entrusted by | Shenzhen Joaboa Technology Ltd. | Brand | Bondsure |
| Manufacturer | WUHAN JOABOA TECHNOLOGY LTD. | Sample Description | Intact |
| Sample Received Date | July 6, 2018 | Quantity | 5 rolls |
| Production Date/ Batch No. | --- | Model/Size | W P I S, 1.5mm 1m×20m |
| 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 (70℃,168h) , 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, Total thickness, Area, Visible defects | | |
| Conclusion | * According to GB /T 23457 – 2009, test results of all items comply with the requirements of products with class I of P type of wet installed waterproof sheets. Test results are shown in pages 2~6. * | | |
| Remarks: | (Blank) | | |

Approved by:  Verified by:  Compiled by: 

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国家建筑材料测试中心

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| No. | Test Item | Unit of measurement | Requirements of Standard (W P I) | Test Results | Individual Conclusion | Test based on | |
|-----|---|--|--|--|-----------------------|--|--|
| 1 | Flexibility at low temperature | / | - 15°C, No crack | - 15°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 | ≥150 | 285 | Pass | GB/T 23457-2009 5.8.1 GB/T 328.9-2007 |
| | | Tensile force (Transverse direction) | N/50mm | ≥150 | 277 | Pass | |
| | | Elongation at maximum tensile force (Longitudinal direction) | % | ≥30 | 392 | Pass | |
| | | Elongation at maximum tensile force (Transverse direction) | % | ≥30 | 368 | Pass | |

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|-----|---------------------|--|---------------------|----------------------------------|-----------------------------|-----------------------|----------------------|
| 5 | Tear strength | Longitudinal direction | N | ≥ 12 | 48 | Pass | GB/T 529-2008 |
| | | Transverse direction | N | ≥ 12 | 52 | 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 | 0.7 | Pass | |
| | | Dimensional stability (Transverse direction) | % | ≤ 2.0 | 0.4 | Pass | |

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|-----|--|--|---------------------|----------------------------------|-------------------|-----------------------|---|
| 8 | Artificial ageing by long term exposure to elevated temperature (70°C, 168h) | The retention rate of tensile force (Longitudinal direction) | % | ≥90 | 106 | Pass | GB/T 23457-2009 5.23、5.8.1、5.15 GB/T 328.9-2007 GB/T 328.14-2007 |
| | | The retention rate of tensile force (Transverse direction) | % | ≥90 | 97 | Pass | |
| | | The retention rate of elongation (Longitudinal direction) | % | ≥80 | 104 | Pass | |
| | | The retention rate of elongation (Transverse direction) | % | ≥80 | 96 | Pass | |
| | | Flexibility at low temperature | / | -13°C No crack | -13°C No crack | Pass | |
| 9 | The peel resistance between waterproof sheet and waterproof sheet | Non-treated | N/mm | ≥1.0 | 1.6 | Pass | GB/T 23457-2009 5.18 GB/T 328.20-2007 |
| | | Heat treated | N/mm | ≥1.0 | 1.2 | Pass | |

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| No. | Test Item | | Unit of measurement | Requirements of Standard (WPI) | Test Results | Individual Conclusion | Test based on |
|-----|---|------------------|---------------------|--------------------------------|--|-----------------------|----------------------|
| 10 | Holding power | | min | ≥ 15 | >60 | Pass | GB/T 23457-2009 5.20 |
| 11 | The peel resistance between waterproof sheet and cementmortar board | Non-treated | N/mm | ≥ 2.0 | 2.6 | Pass | GB/T 23457-2009 5.21 |
| | | Heat treated | N/mm | ≥ 1.5 | 2.5 | Pass | |
| 12 | The peel resistance between waterproof sheet and cementmortar board after soaking treatment | | N/mm | ≥ 1.5 | 2.1 | Pass | GB/T 23457-2009 5.22 |
| 13 | Total thickness | | mm | ≥ 1.5 | 1#: 1.57 2#: 1.56 3#: 1.56 4#: 1.55 5#: 1.56 | Pass | GB/T 23457-2009 5.5 |
| 14 | Area | 20m ² | % | ≥ 99 | 1#: 100 2#: 101 3#: 101 4#: 100 5#: 101 | Pass | GB/T 23457-2009 5.3 |

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| No. | Test Item | Unit of measurement | Requirements of Standard (W P I) | Test Results | Individual Conclusion | Test based on |
|---------|-----------------|---------------------|---|--|-----------------------|-----------------|
| 15 | 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 =====



检验单位地址: 北京市朝阳区管庄中国建材院南楼 电话: 65728538 邮编: 100024

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