

Test Report

No. SDHL1811025739HI-01

Date: Dec.21, 2018

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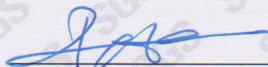
GUANGZHOU JIXIN XIANG DECORATION BUILDING MATERIALS CO., LTD.
NO. 2, YANJIANG ROAD, HUADU DISTRICT, GUANGZHOU, GUANGDONG PROVINCE

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : CEP BOARD
Sample Receiving Date : Nov.08, 2018
Test Performing Date : Nov.12, 2018 to Dec.06, 2018

For further details, please refer to the following page(s)

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.



Peter Zhao
Approved signatory

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Test Result Summary

No.	Test item	Test(s) Method	Result(s)	Conclusion	
Part 1	1	Appearance Quality	GB/T 22412-2016 Section 6.4	No visible defect	Pass
	2	Tickness	GB/T 22412-2016 Section 6.5.2	10.0mm	/
	3	Length	GB/T 22412-2016 Section 6.5.1	500.10mm	/
	4			500.17mm	/
	5	Diagonal Difference	GB/T 22412-2016 Section 6.5.3	0.2mm	Pass
	6	Edge Straightness	GB/T 22412-2016 Section 6.5.4	0.36mm	Pass
	7	Flatness	GB/T 22412-2016 Section 6.5.5	0.3mm	Pass
	8	Impact Resistance	GB/T 22412-2016 Section 6.6.6 & GB/T 1732-1993	No cracking or peeling	Pass
	9	Hydrochloric Acid Resistance of Coating	GB/T 22412-2016 Section 6.6.7	No visible change	Pass
	9	Oil resistance of coating	GB/T 22412-2016 Section 6.6.8 & Section 6.6.7	No visible change	Pass
Alkali resistance of coating		GB/T 22412-2016 Section 6.6.9 & GB/T 8076-2008	No visible change	Pass	
10	Chemical Solvent Resistance of Coating	GB/T 22412-2016 Section 6.6.11	No visual substrate	Pass	

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Part 1	11	Peel Strength of 180°(Front)	Refer to GB/T 22412-2016 Section 6.7.2 & GB/T 2790-1995	CD (Front)	Average value: 6.65 N/mm	/	
					Minimum value: 6.24 N/mm		
					CD (Reverse)		Average value: 2.84 N/mm
							Minimum value: 2.52 N/mm
					MD (Front)		Average value: 8.63 N/mm
							Minimum value: 7.76 N/mm
MD (Reverse)	Average value: 3.88 N/mm						
	Minimum value: 3.80 N/mm						
12	Hot Water Resistance	GB/T 22412-2016 Section 6.7.5	No visible change		Pass		
13	Thickness of Aluminium Panel	GB/T 22412-2016 Section 6.3	Average value	0.39mm	/		
			Minimum value	0.38mm			



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	14	Adhesion of Coating	GB/T 22412-2016 Section 6.6.5 & GB/T 9286-1998	Adhesion testing: Rating 0 (See note 2)	Pass
	15	Flexibility of Coating	GB/T 22412-2016 Section 6.6.4	Flexibility of coating: 0T	Pass
	16	Glossiness	GB/T 22412-2016 Section 6.6.3 & GB/T 9754-2007	Glossiness: 1.8	Pass
	17	Surface Pencil Hardness	GB/T 22412-2016 Section 6.6.2 & GB/T 6739-2006	4H	Pass
	18	Coating Thickness	GB/T 22412-2016 Section 6.6.1 & GB/T 4957-2003	Average value: 23.0 μm Minimum value: 17.0 μm	Pass
Part 2	1	Combustion performance	EN 13501-1:2007+A1:2009	Classification: B-s1, d0	/

For further details, please refer to the following page(s)



Test Information:

Sample description: See photos

Part 1:

No.	Test item	Test(s) Method	Test(s) Condition	Result(s)	Require of GB/T 22412	Conclusion
1	Appearance Quality	GB/T 22412-2016 Section 6.4	Size: 500×500×10.0mm	No visible defect	See Table 1	Pass
2	Tickness	GB/T 22412-2016 Section 6.5.2	Size: 500×500×10.0mm	10.0mm	/	/
3	Length	GB/T 22412-2016	Size:	500.10mm	/	/
4	Width	Section 6.5.1	500×500×10.0mm	500.17mm	/	/
5	Diagonal Difference	GB/T 22412-2016 Section 6.5.3	Size: 500×500×10.0mm	0.2mm	≤5mm	Pass
6	Edge Straightness	GB/T 22412-2016 Section 6.5.4	Size: 500×500×10.0mm	0.36mm	≤1mm/m	Pass
7	Flatness	GB/T 22412-2016 Section 6.5.5	Size: 500×500×10.0mm	0.3mm	≤5mm/m	Pass
8	Impact Resistance	GB/T 22412-2016 Section 6.6.6 & GB/T 1732-1993	Size: 75×50×10.0mm Drop diameter: 12.7mm Drop weight: 1kg Height: 20cm	No cracking or peeling	≥20kg·cm	Pass

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No.	Test item	Test(s) Method	Test(s) Condition	Result(s)	Require of GB/T 22412	Conclusion
9	Hydrochloric Acid Resistance of Coating	GB/T 22412-2016 Section 6.6.7	Size: 100×100×10.0mm Contact time: 24h Chemical reagent:	No visible change	No change	Pass
	Oil resistance of coating	GB/T 22412-2016 Section 6.6.8 & Section 6.6.7	①2%(v/v)HCl(AR) ②20# Engine oil ③Cement: calcium hydroxide; water=1:1:1	No visible change		Pass
	Alkali resistance of coating	GB/T 22412-2016 Section 6.6.9 & GB/T 8076-2008		No visible change		Pass
10	Chemical Solvent Resistance of Coating	GB/T 22412-2016 Section 6.6.11	Size: 430×100×10.0mm Solvent: Butanone Load: 1000g	No visual substrate	No visual substrate	Pass



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No.	Test item	Test(s) Method	Test(s) Condition	Result(s)		Require of GB/T 22412	Conclusion
11	Peel Strength of 180°(Front)	Refer to GB/T 22412-2016 Section 6.7.2 & GB/T 2790-1995	Specimen width:25mm Test Speed: 100mm/min	CD (Front)	Average value: 6.65 N/mm	/	/
					Minimum value: 6.24 N/mm	/	/
				CD (Reverse)	Average value: 2.84 N/mm	/	/
					Minimum value: 2.52 N/mm	/	/
				MD (Front)	Average value: 8.63 N/mm	/	/
					Minimum value: 7.76 N/mm	/	/
				MD (Reverse)	Average value: 3.88 N/mm	/	/
					Minimum value: 3.80 N/mm	/	/



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No.	Test item	Test(s) Method	Test(s) Condition	Result(s)	Require of GB/T 22412	Conclusion
12	Hot Water Resistance	GB/T 22412-2016 Section 6.7.5	Size: 200×200×10.0mm Soak conditions: (98±2)°C, 2h→natural cooling to room temperature in the distilled water	No visible change	No change	Pass
13	Thickness of Aluminium Panel	GB/T 22412-2016 Section 6.3	Measurement by digital display micrometer and eddy current method Laboratory environment: 23±2°C, 50±5%RH	Average value	0.3 90 mm	/
				Minimum value	0.3 77 mm	
14	Adhesion of Coating	GB/T 22412-2016 Section 6.6.5 & GB/T 9286-1998	Spacing: 1mm Tape: 3M® 600 Laboratory environment: 23±2°C, 50±5%RH	Adhesion testing: Rating 0 (See note 2)	Rating 0	Pass



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No.	Test item	Test(s) Method	Test(s) Condition	Result(s)	Require of GB/T 22412	Conclusion
15	Flexibility of Coating	GB/T 22412-2016 Section 6.6.4	Laboratory environment: 23±2℃, 50±5%RH T - bending	Flexibility of coating: 0T	≤3T	Pass
16	Glossiness	GB/T 22412-2016 Section 6.6.3 & GB/T 9754-2007	Laboratory environment: 23±2℃, 50±5%RH Light source: standard C light source	Glossiness: 1.8	≤10	Pass
17	Surface Pencil Hardness	GB/T 22412-2016 Section 6.6.2 & GB/T 6739-2006	Laboratory environment: 23±2℃, 50±5%RH Pencil: Mitsubishi® Load: (750±10) g	4H (See note 3)	≥HB	Pass
18	Coating Thickness	GB/T 22412-2016 Section 6.6.1 & GB/T 4957-2003	Eddy current method Laboratory environment: 23±2℃, 50±5%RH	Average value: 23.0 μm	≥16 μm	Pass
				Minimum value: 17.0 μm	≥14 μm	

Note: 1. All samples were tested after film removal

2. In the GB/T 9286, classification 0 is the best and classification 5 is the worst.

3. According to GB/T 6739-2006, 9H is the hardest, 9B is the softest.

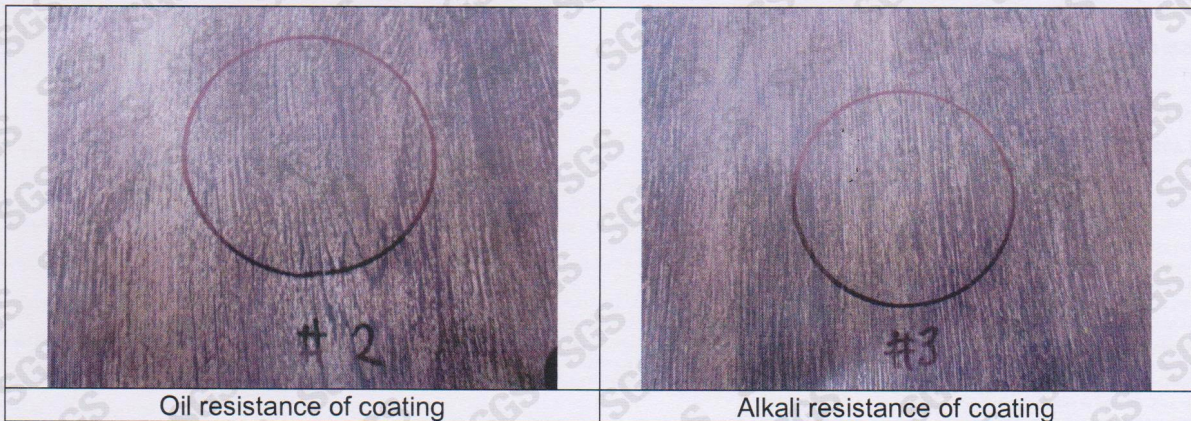
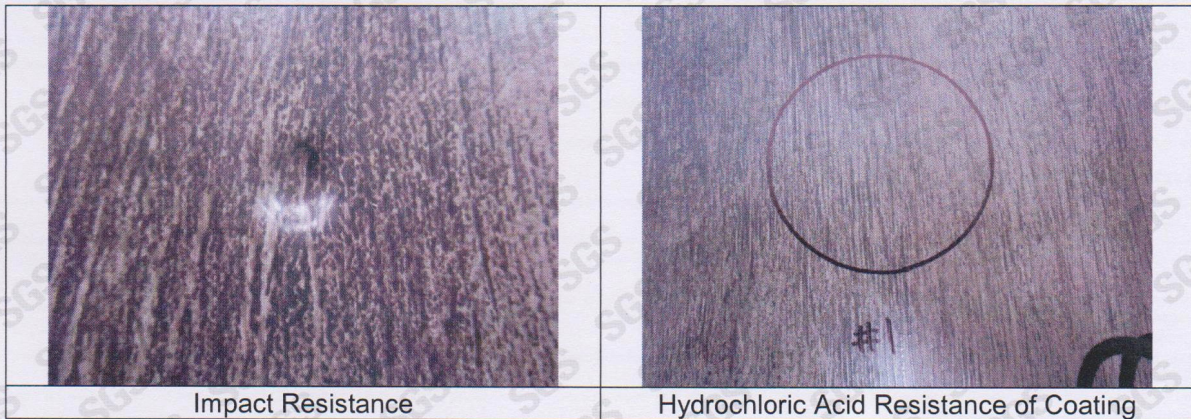
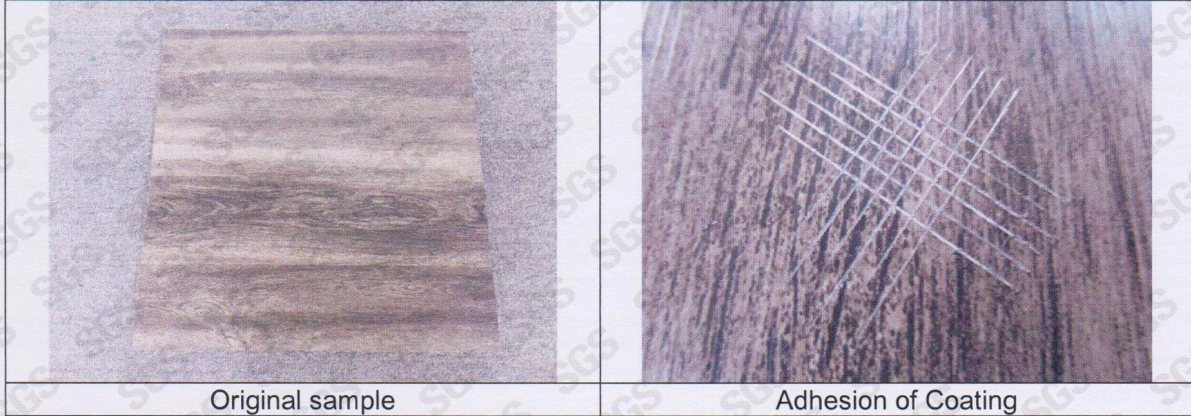
9B-8B-7B-6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-8H-9H

softer -----> harder



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Photo Appendix:



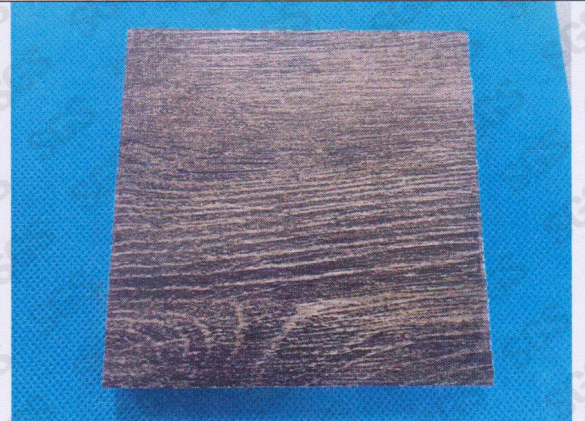
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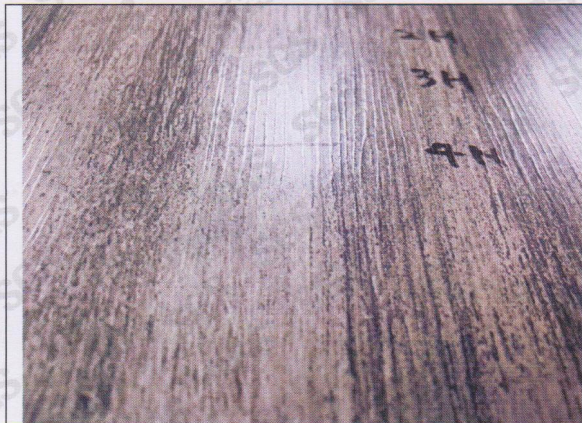
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Chemical Solvent Resistance of Coating



Hot Water Resistance



Surface Pencil Hardness



/



Part 2:

TESTS AND RESULTS

Test Conducted:

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2010+A1:2014 Reaction to fire tests for building products-Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2010+AC:2011 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN 13823:2010+A1:2014):

The specimen was tested free standing at a distance of at least 80 mm from the backing board. Both wings were clamped at the top and the bottom.

Test Results:

Test method	Parameter	Number of tests	Results
EN 13823:2010+A1:2014	FIGRA _{0.2MJ} (W/s)	3	95.7
	FIGRA _{0.4MJ} (W/s)		95.7
	THR _{600s} (MJ)		1.2
	SMOGRA (m ² /s ²)		8.9
	TSP _{600s} (m ²)		14.6
	LFS < edge of specimen		Yes
	Flaming particles or droplets		No
EN ISO 11925-2:2010+AC:2011 Exposure = 30 s	F _s ≤ 150 mm	12	Yes
	Ignition of the filter paper		No

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]

For the classes A2 and B, FIGRA_{0.2MJ}

For the classes C and D, FIGRA_{0.4MJ}

LFS-Lateral flame spread [m]

THR_{600s}-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m²/s²]

TSP_{600s}-Total smoke production within 600 s [m²]



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Classification and direct field of application:

This classification has been carried out in accordance with **EN 13501-1:2007+A1:2009**.

Classification:

Fire behaviour		Smoke production		Flaming droplets
B	—	s	1	d 0

Remark:

The classes with their corresponding fire performance are given in Table 1.
Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product.
The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

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Table 1 — Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 ^a and	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b,c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	and $\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure =30s	$F_s \leq 150\text{mm}$ within 60 s	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure=30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure=30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure =15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	No performance determined		

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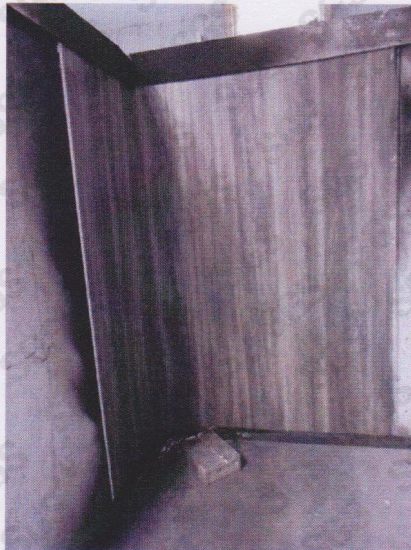
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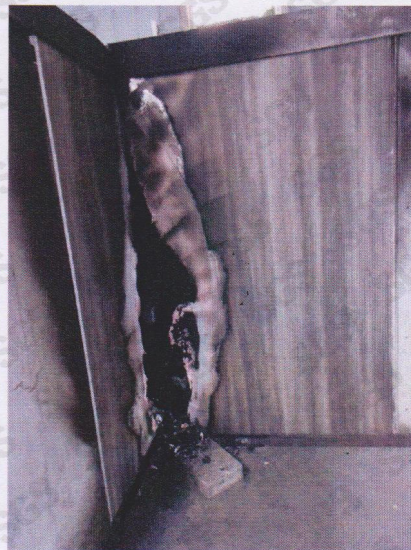
- ^a For homogeneous products and substantial components of non-homogeneous products.
 - ^b For any external non-substantial component of non-homogeneous products.
 - ^c Alternatively, any external non-substantial component having a PCS $\leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: FIGRA $\leq 20 \text{ W/s}$, and LFS < edge of specimen, and THR_{600s} $\leq 4,0 \text{ MJ}$, and s1, and d0.
 - ^d For any internal non-substantial component of non-homogeneous products.
 - ^e For the product as a whole.
 - ^f In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
- s1 = SMOGRA $\leq 30 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 50 \text{ m}^2$; s2 = SMOGRA $\leq 180 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 200 \text{ m}^2$; s3 = not s1 or s2
- ^g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
 - d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
 - d2 = not d0 or d1.
- Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
- ^h Pass = no ignition of the paper (no classification);
 - Fail = ignition of the paper (d2 classification).
 - ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

SAMPLE INFORMATION AND PICTURES

Thickness: About 10mm
 Mass per unit area: About 6.2kg/m²



Before Test (EN 13823)



After Test (EN 13823)

Remark: This test report is to supersede No. SDHL1811025739HI test report which was issued on Dec.07, 2018. And the original test reports (paper and electronic) are invalid.

End of Report



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