


Prüfbericht-Nr.: Test Report No.:	SI500771 001	Auftrags-Nr.: Order No.:	244496105	Seite 1 von 7 Page 1 of 7
Kunden-Referenz-Nr.: Client Reference No.:	JM1114- Natural Oak	Auftragsdatum: Order date:	02.03.2023	
Auftraggeber: Client/Contact:	SHANDONG INTCO RECYCLING RESOURCES CO., LTD. QINGTIAN ROAD, LINZI, ZIBO, SHANDONG 255414, P.R.CHINA Email: /, TEL: /			
Prüfgegenstand: Test item:	Acoustic panel natural oak			
Bezeichnung / Typ-Nr.: Identification / Type No.:	2600x605x21mm			
Auftrags-Inhalt: Order content:	Performance testing			
Prüfgrundlage: Test specification:	EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests Class D-s2, d0			
Sample obtaining method:	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TUV staffs <input type="checkbox"/> other (please describe: _____)			
Wareneingangsdatum: Date of receipt:	03.03.2023			
Prüfmuster-Nr.: Test sample No.:	1V0323000066			
Prüfzeitraum: Testing period:	10.03.2023~13.03.2023			
Ort der Prüfung: Place of testing:	Guangzhou			
Prüflaboratorium: Testing laboratory:	TUV Rheinland (Shanghai) Co.,Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
13.03.2023 Daniel Chen / Author Datum Name / Stellung Unterschrift Date Name / Position Signature		29.03.2023 Alex Gu / Reviewer Datum Name / Stellung Unterschrift Date Name / Position Signature		
Sonstiges / Other: Details see the follow pages.				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	Acoustic panel natural oak
2	Maße <i>Dimensions</i>	2600x605x21mm
3	Bedienelemente <i>Operating elements</i>	N/A
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	N/A
6	Sonstiges <i>Other</i>	N/A

Test sample (provide by client)

Test sample (provide by client)



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Absatz	EN 13501-1:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	<i>Measuring results - Remarks</i>	<i>Evaluation</i>

1	<p>Test conducted</p> <p>This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:</p> <ol style="list-style-type: none"> 1. EN 13823:2020 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item. 2. EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.
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2

Test results

Reaction to fire classification: Class B-s2, d0

Parameter	Test method	Results	Requirement		Verdict
FIGRA _{0.4MJ} (W/s)	EN 13823:2020	512	D	≤ 750	Pass
Fs (mm)	ISO 11925-2:2020	< 150		≤ 150	Pass
SMOGRA (m²/s²)	EN 13823:2020	17	s2	≤ 180	Pass
TSP _{600s} (m²)	EN 13823:2020	122		≤ 200	Pass
Flaming particles or droplets within 600s	EN 13823:2020	No	d0	No	Pass
Ignition of the filter paper within 60s	ISO 11925-2:2020	No		No	Pass

3

Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2018.

a) Classification

The product, “Acoustic panel natural oak ”, classification is meet the following,

Fire behaviour		Smoke production			Flaming droplets	
D	—	s	2	,	d	0

Reaction to fire classification: Class D-s2, d0

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

This classification for the submitted sample is valid for the following end use condition:

P

F

N/A

N/T

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---With all substrate classified A1 and A2
 ---With mechanically fixing with screws
 ---No joint

This classification is valid for the following product parameters:

---Characteristics are described in § II b of this test reports.

Statement: The test results relate to the behavior 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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Photo Appendix:

Before testing according to EN 13823:2020



After testing according to EN 13823:2020



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Annex A Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

class	Test methods	Classification	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 $PCS \leq 2.0 \text{ MJ/kg}$ ^{bc} 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	-
F	No performance determined		

^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 $LFS < \text{edge of specimen}$, 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.

-----The End of Report-----