

Report No.: 0154133233a 001

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Client: HEXIM
Zur Alten Werre 7, Loehne 32584, Germany

**Identification/
Model No(s):** 3D WALL FIBER PANEL

Sample Receiving date: 2015-11-16

Testing Period: 2015-11-16 - 2015-11-19

Test Specification:

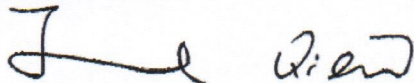
Customer's requirement:

1. Release of formaldehyde
2. Release of heavy metals and specific elements
3. Release of vinyl chloride monomer

Test result:

PASS
PASS
PASS

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2015-11-26

Joanna Qiao / Assistant Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report 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 safety mark on this or similar products.

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Material List:

Item: 3D WALL FIBER PANEL

Material No.	Material	Color	Location
M001	Synthetic material	White	Refer to photo

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1.Release of formaldehyde

Test Method: EN 12149:1997

Extracted with water then determined colorimetrically by UV-VIS spectroscopy

Test result

Test No.	Material No.	Test Parameter	Unit	Regulatory Requirement	Test Result	Conclusion
T001	M001	Formaldehyde release	mg/kg	120	n.d.	Pass

Remark:

Detection limit: 10mg/kg

The requirement is according to Clause 4.2 of EN 15102:2007

ND denotes less than detection limit

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
UV-VIS	Perkin Elmer	Lambda 35

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3. Release of vinyl chloride monomer

Test Method: EN 12149:1997
Extraction with organic solvent, determined by gas chromatography-mass selective detector (GC-MS)

Test result

Test No.	Material No.	Test Parameter	CAS No.	Unit	Detection Limit	Regulatory Requirement	Result	Conclusion
T001	M001	Vinyl Chloride Monomer	75-01-4	mg/kg	0.2	0.2	n.d.	Pass

Remark:

ND denotes less than detection limit

The requirement is according to Clause 4.3.2 of EN15102:2007

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (6890)-MS (5975)

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2.Release of heavy metals and specific elements

Test Method: EN 12149:1997

Soluble toxic element contents are determined by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).

Test result

Test No.	Material No.	[mg/kg]								Conclusion
		Sol.Sb	Sol.As	Sol.Ba	Sol.Cd	Sol.Cr	Sol.Pb	Sol.Hg	Sol.Se	
		Regulatory Requirement								
		NUL	25	500	25	60	90	20	165	
T001	M001	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass

The requirement is according to Clause 4.3.1 of EN15102:2007

Detection limit : 2.5 mg/kg for each of the 8 soluble toxic elements

Sol. : Soluble

NUL : No upper limit

* : Fail item, the analytical results were adjusted by subtracting analytical correction factor

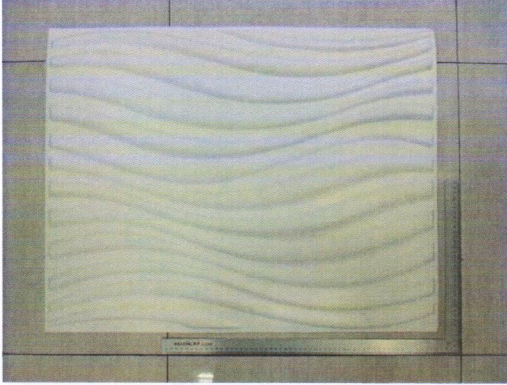
Main test instruments used for this method:

Instrument	Manufactory	Model / Type
ICP-OES	PerkinElmer	5300DV

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Sample Photo



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