

TEST REPORT

No. : SHIN1402004871PS

Date : Mar 11, 2014

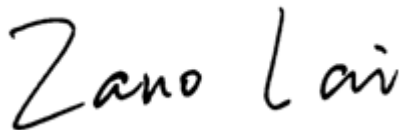
Page: 1 of 4

CUSTOMER NAME: BEC INDUSTRIAL (SHANGHAI) CO.,LTD
ADDRESS: NO.5050, LONGWU ROAD, MINHANG DISTRICT, SHANGHAI, CHINA
200241

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

Sample Name : ASBESTOS-FREE CALCIUM SILICATE
Manufacturer : BEC INDUSTRIAL (SHANGHAI) CO.,LTD
Ref. Standard : ASTM C533-13
Date of Receipt : Feb 14, 2014
Testing Start Date : Feb 14, 2014
Testing End Date : Mar 10, 2014
Test result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd.



Zano Lai
Authorized signatory

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TEST REPORT

No. : SHIN1402004871PS

Date : Mar 11, 2014

Page: 2 of 4

Test Conducted: ASTM C533-13 Standard Specification for Calcium Silicate Block and Pipe Thermal Insulation

Declared Classification: Type I

I. Density

Test item	Test method	Requirement	Test result	Conclusion
Density (dry, kg/m ³)	ASTM C303-10	≤240	224	Pass
Remark	Specimen dimensions: 600mm×300mm×50mm, 4pcs			

II. Flexural strength

Test item	Test method	Requirement	Individual value	Average value	conclusion
Flexural strength (kPa)	ASTM C203-05a(R2012) Method I, Procedure A	≥344	287	386	Pass
			540		
			398		
			319		
Remark	Specimen dimensions: 300mm×100mm×25mm, 4pcs Test span: 250mm, Test rate: 4.2mm/min				

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TEST REPORT

No. : SHIN1402004871PS

Date : Mar 11, 2014

Page: 3 of 4

III. Compressive strength, at 5% deformation

Test item	Test method	Requirement	Individual value	Average value	Conclusion
Compressive Strength, at 5% deformation (kPa)	ASTM C165-07(R2012) Procedure A	≥688	1458	1434	Pass
			1434		
			1441		
			1401		
Remark	Specimen dimensions: 150mm×150mm×25mm, 4pcs Test rate: 2.5mm/min				

IV. Linear shrinkage

Test item	Test method	Requirement	Test result	Conclusion
Linear shrinkage (649°C, 24h), (%)	ASTM C356-10	≤2	Length 0.91	Pass
			Width 0.84	
			Thickness 1.22	

V. Thermal conductivity

Test item	Test method	Requirement	Test result	Conclusion
Thermal conductivity [W/(m·K)]	ASTM C177-13	≤0.065	0.059	Pass

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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TEST REPORT

No. : SHIN1402004871PS

Date : Mar 11, 2014

Page: 4 of 4

Sample Photo:



Density



Flexural Strength



Compressive Strength

***** End of report*****

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