

TEST REPORT

No. : SHIN180702077CCM

Date : Jul. 13, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : LVT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Dimension stability
Test Method : ASTM F2199-09(2014)
Date of Receipt : Jul. 09, 2018
Testing Start Date : Jul. 09, 2018
Testing End Date : Jul. 13, 2018
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

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

Joyce Li

Joyce Li
Authorized signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.69, Block 1158, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgs.com.cn
中国·上海·浦东康桥东路1159弄69号 邮编:201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN180702077CCM

Date : Jul. 13, 2018

Page: 2 of 3

Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Dimension stability	ASTM F2199-09(2014)	See Result	/

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 /: Not Apply to the judgment.

Test item: Dimensional stability

Test method: ASTM F2199-09(2014)

Test condition:

Specimen: 18in×18in×0.086in, 3pcs

Pretreatment condition: Conditioning in air maintained at 23±1℃ and 50±5%RH for 24h

Heating temperature: 82℃

Heating time: 6h

Lab environmental condition: 23±1℃, 50±5%RH

Test result:

Test Item	Test result			
	Linear change		Average value	
	MD	AMD	MD	AMD
Linear change (%)	-0.070	-0.095	-0.057	-0.079
	-0.052	-0.075		
	-0.050	-0.066		

Note: A negative value indicates shrinkage, and a positive value indicates expansion.



SGS-CSTC Shanghai Technical Services (Shanghai) Co., Ltd.
 Testing Center Commercial Construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.69, Block 1158, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgs.com.cn
 中国·上海·浦东康桥东路1159弄69号 邮编:201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com

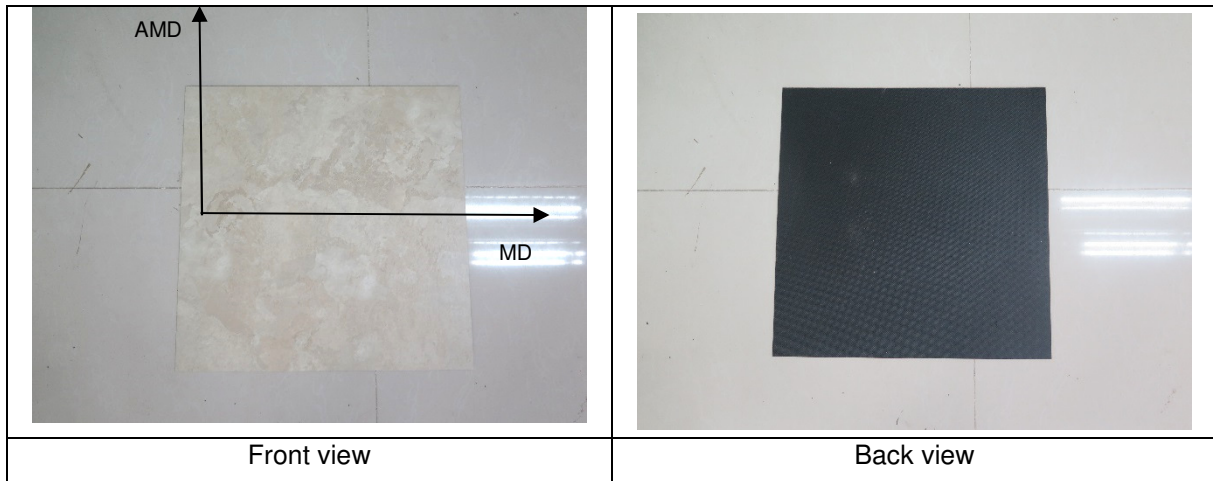
TEST REPORT

No. : SHIN180702077CCM

Date : Jul. 13, 2018

Page: 3 of 3

Sample photos:



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

In the territory of the People's Republic of China, the test report with CMA logo expresses that the test methods are within the scope of China Metrology Accreditation (CMA); Without CMA logo expresses that part/all of the test methods are not within the scope of China Metrology Accreditation (CMA), and just for client internal reference.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Inspection & Testing Services (Shanghai) Co., Ltd.
Testing Center Commercial Construction Material Laboratory

No.69, Block 1158, East Kang Qiao Road, Pudong District, Shanghai, China. 201319 t(86-21) 61196300 f(86-21) 61191853/68183920 www.sgs.com.cn
中国·上海·浦东康桥东路1159弄69号 邮编:201319 t(86-21) 61196300 f(86-21) 61191853/68183920 e sgs.china@sgs.com