



TEST REPORT



APPLICANT: LG HAUSYS, LTD. **REPORT NO**. : M270-17-02800

SAMPLE RECEIVED DATE : 2017-03-07
TEST STARTED DATE : 2017-03-07

REPORT ISSUED DATE : 2017-03-20

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DESCRIPTION: ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FLOORING.

ITEM: Z:IN FLOOR DELUXE(2T300)

TEST CONDUCTED: AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

PREPARED AND CHECKED BY

Seongkeum Jang

FOR FITI

SEONG-KEUN, JANG QUALITY MANAGER **AUTHORIZED BY**

FOR FITI

YOUNG-CHAN KIM PRESIDENT

Youf chan Kim

※ Report Verification No.: PYQD-YR2R-9KNS ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)



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01. LENGTH (KS M 3802: 2014): mm

#1
300.1

02. WIDTH (KS M 3802:2014): mm

#1
300.1

03. THICKNESS (KS M 3802: 2014): mm

#1
2.02

04. DETERMINATION OF LOSS ON HEATING (KS M 3802: 2014): %

#1
0.36

NOTE) TEST CONDITION : (100 ± 3) °C, 6 h

05. LENGTH CHANGE RATIO BY HEATING (KS M 3802: 2014): %

	#1
LENGTH	0.04
WIDTH	0.03

NOTE) TEST CONDITION : (80 ± 2) °C, 6 h

06. LENGTH CHANGE BY ABSORPTION (KS M 3802 : 2014): %

	#1
LENGTH	0.03
WIDTH	0.03

NOTE) TEST CONDITION : (20 \pm 2) $\,^{\circ}$ C, 120 h

07. DETERMINATION OF INDENTATION (KS M 3802: 2014): mm

	#1
20℃	0.18
45℃	0.27

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08. RESIDUAL INDENTATION (KS M 3802: 2014): %

#1
7.5

09. SQUARENESS (KS M 3802:2014): mm

#1
0.04

10. ABRASION RESISTANCE (ASTM D4060:14, TABER METHOD): WEIGHT LOSS, mg

#1
204.0

NOTE) ABRADANT TYPE: CS-17, APPLIED WEIGHT: 1 000 g, TEST CYCLES: 1 000 CYCLES WEIGHT LOSS AFTER 1 000 CYCLES ABRASION

11. STAIN TEST (KS M 3802: 2014): APPEARANCE

	#1
CEMENT PASTE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
5 % ACETIC ACID	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
5 % HCI	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
SOY SAUCE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING

** End of The Report **







TEST REPORT



APPLICANT: LG HAUSYS, LTD. **REPORT NO**. : M270-18-05823

SAMPLE RECEIVED DATE : 2018-05-04
TEST STARTED DATE : 2018-05-04

REPORT ISSUED DATE : 2018-05-23

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DESCRIPTION: ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FLOORING.

ITEM: Z:IN FLOOR DELUXE 3T(300)

TEST CONDUCTED: AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

PREPARED AND CHECKED BY

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FOR FITI

SEONG-KEUN JANG QUALITY MANAGER AUTHORIZED BY FOR FITI

Jun Je 400

JE-GOO JUN PRESIDENT

※ Report Verification No.: JNI5-5TW2-3V8B ※

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01. LENGTH (KS M 3802 : 2014) :	01	I FNGTH	(KS	м	3802	· 2014	١.	mr
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#1
300.1

02. WIDTH (KS M 3802: 2014): mm

#1
300.1

03. THICKNESS (KS M 3802 : 2014) : mm

#1
3.01

04. SQUARENESS (KS M 3802 : 2014) : mm

#1
0.04

05. INDENTATION (KS M 3802 : 2014) : mm

	#1
20 ℃	0.19
45 °C	0.45

06. RESIDUAL INDENTATION (KS M 3802 : 2014) : %

4.23	

07. WEIGHT LOSS ON HEATING (KS M 3802: 2014): %

#1
0.06

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08. DIMENSIONAL CHANGE TO HIGH TEMPERATURE ON HEAT (KS M 3802 : 2014) : %

	#1
LENGTH	0.03
WIDTH	0.03

09. LENGTH CHANGE BY ABSORPTION (KS M 3802: 2014): %

	#1
LENGTH	0.03
WIDTH	0.03

10. ABRASION RESISTANCE (ASTM D 4060 - 2014, TABER METHOD): mg

#1
271
321

NOTE) TEST CONDITION - ABRADANT TYPE: CS-17,

APPLIED WEIGHT: 1 000 g,

TEST CYCLE: 1 000 CYCLES

MEASURED WEIGHT LOSS AFTER 1 000 CYCLES ABRASION BY THE CLIENT'S REQUEST.

11. STAIN TEST (KS M 3802 : 2014)

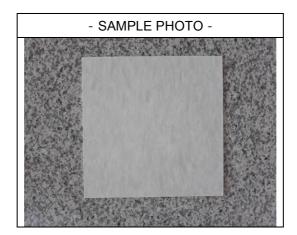
	#1				
CEMENT PASTE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING				
5 % ACETIC ACID	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING				
5 % HCI	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING				
SOY SAUCE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING				

** End of The Report **





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TEST REPORT



APPLICANT: LG HAUSYS, LTD. **REPORT NO.** : M270-18-05818

SAMPLE RECEIVED DATE: 2018-05-04TEST STARTED DATE: 2018-05-04REPORT ISSUED DATE: 2018-05-23

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DESCRIPTION: ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FLOORING.

ITEM: Z:IN FLOOR DELUXE 3T(450)

TEST CONDUCTED: AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

PREPARED AND CHECKED BY

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FOR FITI

SEONG-KEUN JANG QUALITY MANAGER AUTHORIZED BY FOR FITI

Jun Je 400
JE-GOO JUN
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※ Report Verification No.: K81B-JVNI-BAPZ ※

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01.	LENGTH	(KS	M 3802	: 2014):	mm
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#1
450.1

02. WIDTH (KS M 3802: 2014): mm

#1
450.1

03. THICKNESS (KS M 3802 : 2014) : mm

#1
2.01
3.01

04. SQUARENESS (KS M 3802 : 2014) : mm

#1
0.04

05. INDENTATION (KS M 3802 : 2014) : mm

	#1
20 ℃	0.25
45 ℃	0.37

06. RESIDUAL INDENTATION (KS M 3802 : 2014) : %

#1
2.02
2.03

07. WEIGHT LOSS ON HEATING (KS M 3802: 2014): %

#1
0.04



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08. DIMENSIONAL CHANGE TO HIGH TEMPERATURE ON HEAT (KS M 3802 : 2014) : %

	#1
LENGTH	0.02
WIDTH	0.02

09. LENGTH CHANGE BY ABSORPTION (KS M 3802: 2014): %

	#1
LENGTH	0.03
WIDTH	0.02

10. ABRASION RESISTANCE (ASTM D 4060: 2014, TABER METHOD): mg

#1
290

NOTE) TEST CONDITION - ABRADANT TYPE : CS-17,

APPLIED WEIGHT: 1 000 g, TEST CYCLE: 1 000 CYCLES

MEASURED WEIGHT LOSS AFTER 1 000 CYCLES ABRASION BY THE CLIENT'S REQUEST.

11. STAIN TEST (KS M 3802 : 2014) : APPEARANCE

	#1
CEMENT PASTE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
5 % ACETIC ACID	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
5 % HCI	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING
SOY SAUCE	NO CHANGE SUCH AS DISCOLORATION, GLOSS LOSS, SWELLING

** End of The Report **



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