



TEST REPORT

1. NO : CT21-101357E

2. Client

○ Name : HAM RAH CO., LTD.

○ Address : 4232-10 Chungseo-Ro, Cheongso-Myeon, Boryeong-City, Chungnam, Korea 355-822

3. Date of Test : 2021.09.17 ~ 2021.10.08

4. Use of Report : Quality Control

5. Test Sample : 3-Tab Shingle

6. Test Method

(1) KS F 4750:2016

7. Test Results

1) 3-Tab Shingle

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
Unit weight of the product	g/m ²	(1)	4 500	(20 ± 2) °C (50 ± 10) % R.H.	A
Asphalt penetration of the situation	-	(1)	Pass		
Tear strength-Length	N	(1)	15		
Tear strength-Width	N	(1)	11		
Flexural property-Length	-	(1)	Pass		
Flexural property-Width	-	(1)	Pass		

※ Location

A : 73, Yangcheong 3-gil, Ochang-eup, Cheongwon-Gu, Cheongju-Si, Chungbuk, Korea

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

Affirmation	Tested By	Technical Manager
	Name : WOO DAE SEUNG <i>woo dae seung</i>	Name : Shin, Hong Chul <i>Shin Hongchul</i>

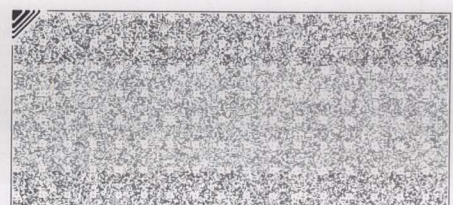
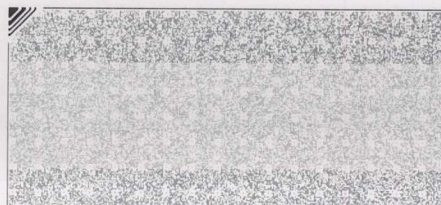
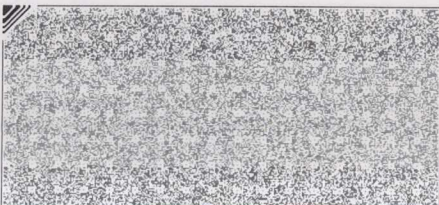
This report is not related with KOLAS and KS Q ISO/IEC 17025.

Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products. The results of using only a portion of this report cannot be guaranteed. The authenticity of this test report can be checked on KCL website(www.kcl.re.kr).

2021.10.08

Korea Conformity Laboratories President Yoon, Kap Seok *Yoon, Kap Seok*

Result Inquiry : 73, Yangcheong 3-gil, Ochang-eup, Cheongwon-Gu, Cheongju-Si, Chungbuk, Korea (82-43-210-8921)





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3. Date of Test : 2021.09.17 ~ 2021.10.08

4. Use of Report : Quality Control

5. Test Sample : Mosaic Shadow Shingle

6. Test Method

(1) KS F 4750:2016

7. Test Results

1) Mosaic Shadow Shingle

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
Unit weight of the product	g/m ²	(1)	4 653	(20 ± 2) °C (50 ± 10) % R.H.	A
Asphalt penetration of the situation	-	(1)	Pass		
Tear strength-Length	N	(1)	14		
Tear strength-Width	N	(1)	10		
Flexural property-Length	-	(1)	Pass		
Flexural property-Width	-	(1)	Pass		

※ Location

A : 73, Yangcheong 3-gil, Ochang-eup, Cheongwon-Gu, Cheongju-Si, Chungbuk, Korea

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	Name : WOO DAE SEUNG <i>woo dae seung</i>	Name : Shin, Hong Chul <i>Shin Hongchul</i>

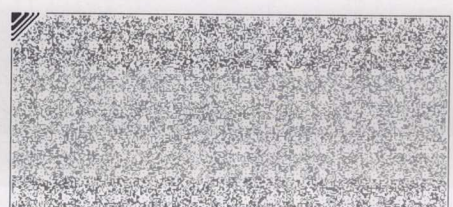
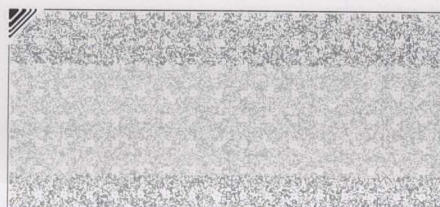
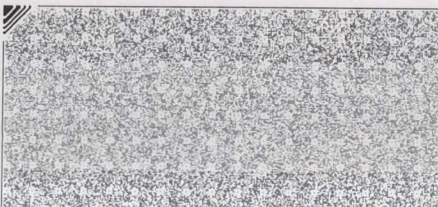
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3. Date of Test : 2021.09.17 ~ 2021.10.08

4. Use of Report : Quality Control

5. Test Sample : Wide Double Layered Shingle

6. Test Method

(1) KS F 4750:2016

7. Test Results

1) Wide Double Layered Shingle

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
Unit weight of the product	g/m ²	(1)	8 437	(20 ± 2) °C (50 ± 10) % R.H.	A
Asphalt penetration of the situation	-	(1)	Pass		
Tear strength-Length	N	(1)	27		
Tear strength-Width	N	(1)	16		
Flexural property-Length	-	(1)	Pass		
Flexural property-Width	-	(1)	Pass		

※ Tested by making a double overlapped part as a test piece

※ Location

A : 73, Yangcheong 3-gil, Ochang-eup, Cheongwon-Gu, Cheongju-Si, Chungbuk, Korea

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