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e) Surface flatness

No.	Test Result (%)					
	Centre curvature		Edge curvature		Warpage	
1	0.01	0.01	0.04	0.03	0.04	0.01
	0.01	0.01	0.04	0.05	0.03	0.01
2	0.02	0.01	0.06	0.07	0.02	0.01
	0.02	0.01	0.10	0.07	0.02	0.01
3	0.02	0.01	0.06	0.07	0.01	0.02
	0.01	0.01	0.08	0.05	0.03	0.05
4	0.02	0.01	0.09	0.10	0.05	0.03
	0.02	0.01	0.10	0.10	0.05	0.03
5	0.01	0.01	0.09	0.07	0.04	0.02
	0.01	0.01	0.08	0.07	0.04	0.02
6	0.01	0.01	0.07	0.07	0.04	0.04
	0.02	0.01	0.08	0.08	0.06	0.05
7	0.01	0.01	0.06	0.08	0.03	0.04
	0.01	0.01	0.07	0.09	0.02	0.04
8	0.02	0.01	0.07	0.11	0.06	0.04
	0.02	0.01	0.09	0.10	0.03	0.03
9	0.01	0.01	0.10	0.10	0.03	0.04
	0.02	0.02	0.10	0.10	0.04	0.04
10	0.01	0.01	0.10	0.10	0.04	0.03
	0.01	0.01	0.09	0.09	0.04	0.03
Maximum deviation	0.02		0.11		0.06	

***** To be continued*****

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f) Surface quality

The percentage of tiles examined (%)	100
Remark	Specimen nominal dimensions: 100mm×100mm×20mm, 10pcs No obvious defects on the surface of all specimens.

XI. Thermal conductivity

Test conducted: EN 12664:2001 Thermal performance of building materials and products – Determination of thermal resistance by means of guarded hot medium and low thermal resistance

1. Specimen description

Specimen description	Specimen dimension
White	300mm×300mm×20.6mm

2. Test result

Test method	Test condition		Test result
	Mean temperature (°C)	Temperature difference (°C)	Thermal conductivity [W/(m·K)]
EN 12664:2001	25.63	9.39	0.525
Remark	The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly. Instruments effective range is 0.005~0.5[W/(m·K)], the test result is for reference only.		

***** To be continued*****

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XII. Slip resistance

Test conducted: EN 14231:2003 Natural stone test methods - Determination of the slip resistance by means of the pendulum tester

Test result:

Test Item	Dry condition		Wet condition	
	Individual value	Average value	Individual value	Average value
Slip resistance	46	49	14	13
	50		14	
	48		12	
	48		12	
	50		12	
	50		12	
Remark	Specimen nominal dimensions: 200mm×150mm×20mm, 6pcs			

XIII. Surface Resistivity, Volume Resistivity

Test conducted: EN 14617-13:2005 Agglomerated stone - Test methods - Part 13: Determination of electrical resistivity

Sample Description:

- 1) Name: floor tile
- 2) Quantity: 5pcs
- 3) Shape: square
- 4) Size: 100mm×100mm
- 5) Thickness: See the result table

Sample pretreatment:

- 1) Condition: 24h/23°C/50%RH
- 2) Cleaning: Samples' surface was not cleared before test.

***** To be continued*****

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Test electrode description:

Type: TOM600ME

Surface Resistance

- 1) $D_0=30\text{mm}$, $D_2=57\text{mm}$, weight: 2.27Kg ($D_1=43.5\text{mm}$, $g=13.5\text{mm}$)
- 2) Calculated formula: $\rho_s = R_s \times P/g$

Remark: R_s - surface resistance; ρ_s - surface resistivity; $P=\pi \times D_1$

Volume Resistance

- 1) $D_1=63\text{mm}$, $D_2=63\text{mm}$, weight: 2.5Kg
- 2) Calculated formula: $\rho_v = A \times R_v/t$

Remark: ρ_v - volume resistivity; R_v - volume resistance; $A=\pi \times D^2/4=31.17\text{cm}^2$

Test condition:

- 1) Temp.: 23°C Hum.: 50%RH
- 2) Test Method: Voltmeter-Ammeter Method
- 3) Test voltage: 500V
- 4) Electrification time: 60s

Test Results:

Sample No.	Test Result				
	Thickness(cm)	R_s (Ω)	ρ_s (Ω/square)	R_v (Ω)	ρ_v ($\Omega \cdot \text{m}$)
1#	2.0	2.44×10^{12}	2.44×10^{13}	6.70×10^{12}	1.04×10^{12}
2#	2.0	1.98×10^{12}	1.98×10^{13}	4.89×10^{12}	7.62×10^{11}
3#	2.0	4.74×10^{12}	4.74×10^{13}	4.63×10^{12}	7.22×10^{11}
4#	2.0	4.25×10^{12}	4.25×10^{13}	5.79×10^{12}	9.02×10^{11}
5#	2.0	2.81×10^{12}	2.81×10^{13}	4.57×10^{12}	7.12×10^{11}
Mean	--	--	3.24×10^{13}	--	8.28×10^{11}

Attention: This test method has been shown to have a repeatability of approximately one half order of magnitude.

***** To be continued*****

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SHCCM 001190

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Equipment information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Ac/dc withstand voltage tester	Guoyi	P-207	2012-8-28	2013-8-27
Digital Calipers	/	P-260	2013-2-10	2014-2-9
Electrode	/	P-236	2011-4-20	2014-4-19

XIV. Abrasion resistance

Test conducted: EN 14617-4:2012 Agglomerated stone - Test methods - Part 4: Determination of abrasion resistance

Specimens: Agglomerated stone, 150mm×100mm×20mm, 6pcs, one face polished

Testing surface: polished

Test Result:

Specimens identification No.	1	2	3	4	5	6
The length of the groove (mm)	20.5	21.5	21.5	21.5	21.5	21.5
Mean value (mm)	21.3					

XV. Freeze and thaw resistance

Test conducted:

EN 14617-5:2012 Agglomerated stone - Test methods - Part 5: Determination of freeze and thaw resistance

EN 14617-2:2008 Agglomerated stone - Test methods - Part 2: Determination of flexural strength (bending)

Specimens: Agglomerated stone, 200mm×50mm×20mm, 6pcs, one face polished

Loading rate: (0.25±0.05)MPa/s

Test Result:

There is no visible damage after 25 freeze/thaw cycles.

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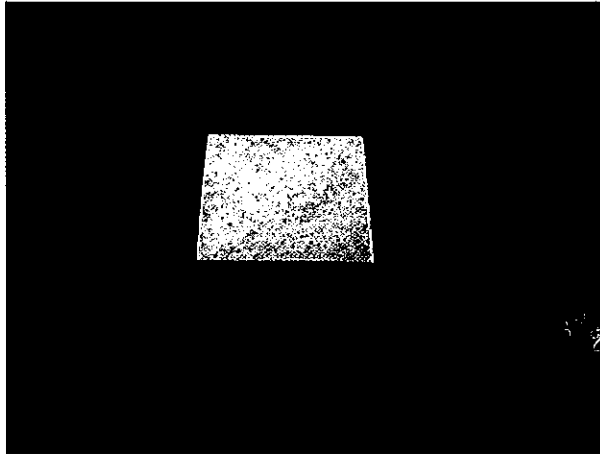
Flexural strength subjected to 25 freeze/thaw cycles:

Specimens identification No.	1	2	3	4	5	6
Flexural strength (MPa)	57.6	55.7	55.9	58.5	58.8	57.8
Mean value (MPa)	57.4					
Standard deviation (MPa)	1.3					
Lower expected value (MPa)	54.4					
KMf ₂₅	0.87					

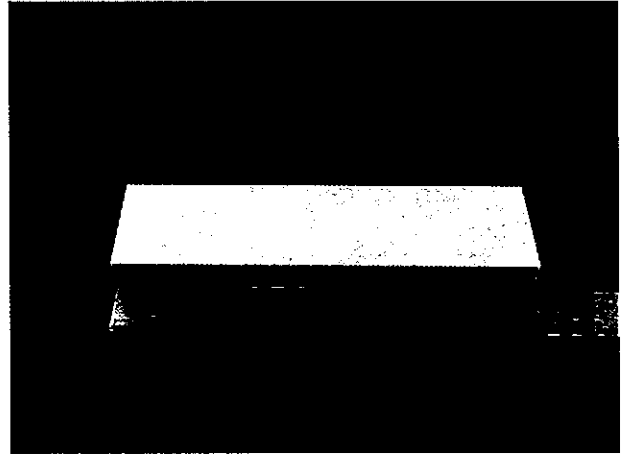
Note: Test item XIV and XV were performed by SGS internal laboratory.

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Sample photos:



Test item I and IX



Test item II and III

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SHCCM 001192

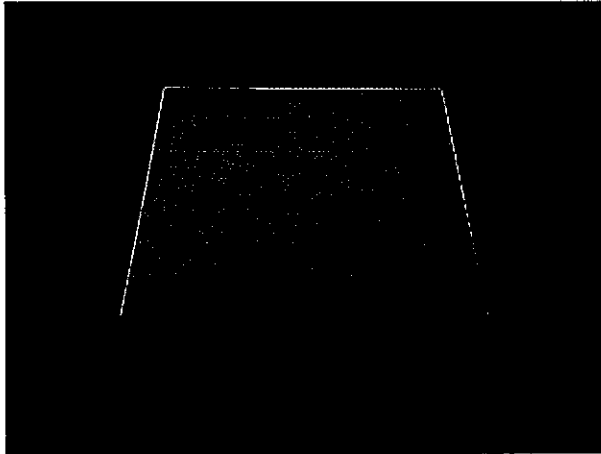
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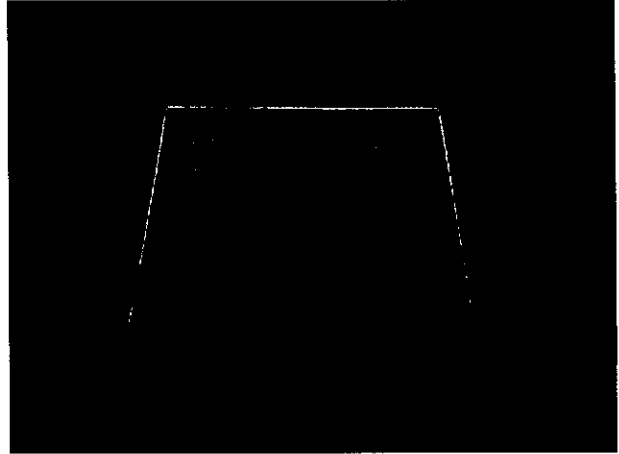
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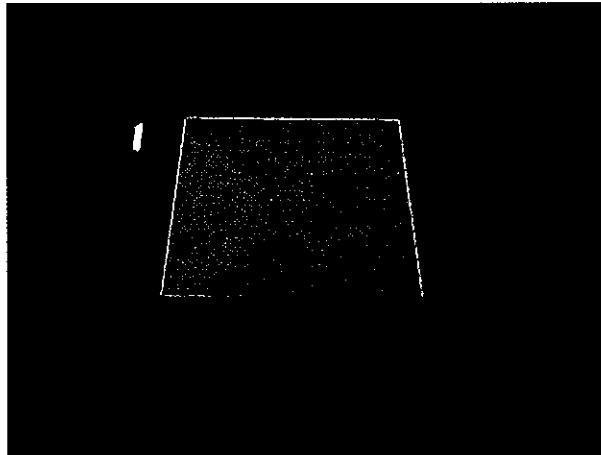
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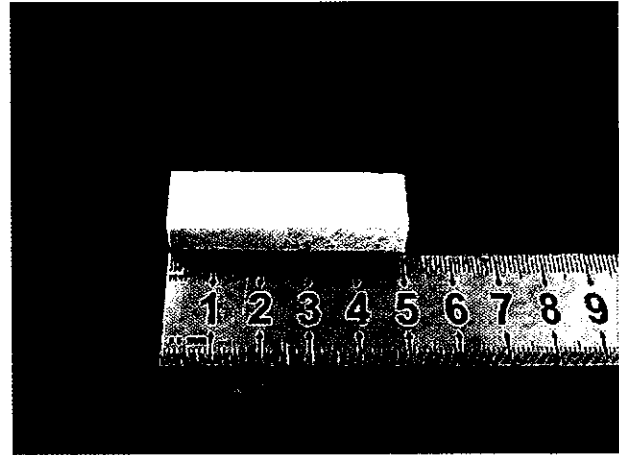
Test item IV



Test item V



Test item VI and X



Test item VII

***** To be continued*****

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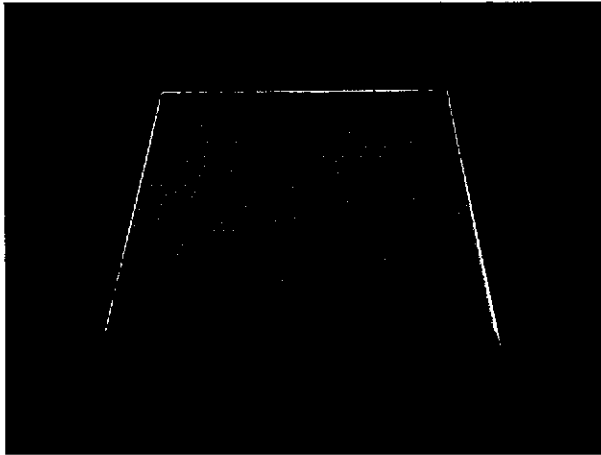
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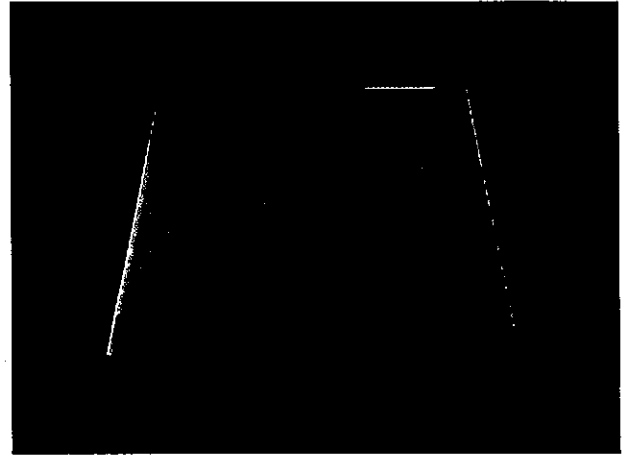
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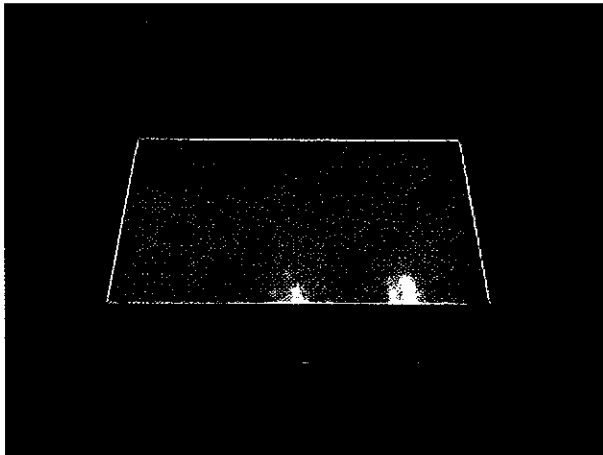
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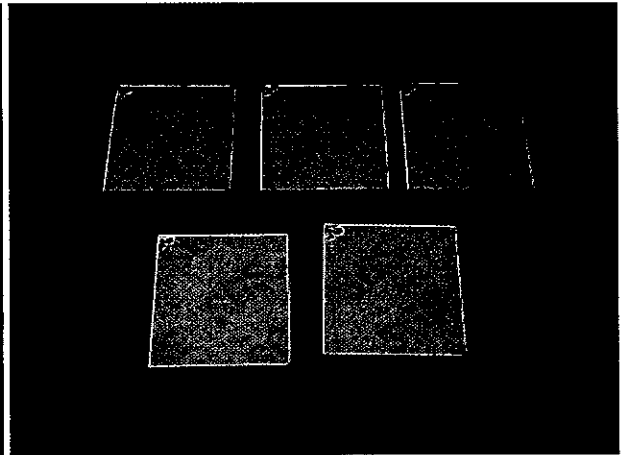
Test item VIII



Test item XI



Test item XII



Test item XIII

***** To be continued*****

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SHCCM 001194

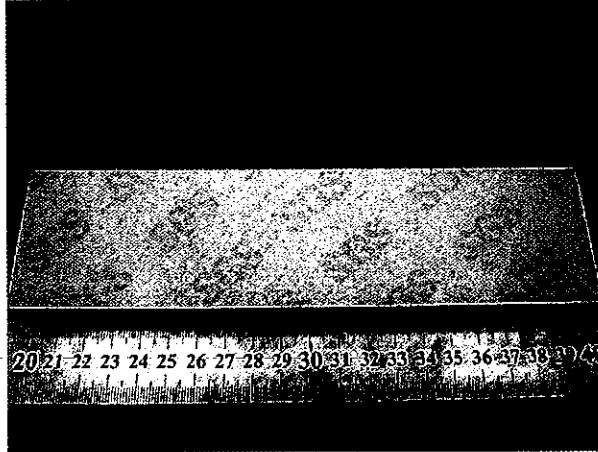
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Test item XIV-XV

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