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American Standard

شرکت تولیدی  
گچ صدف هرنگ

Five Decades Experience in Gypsum Production

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Request By: Sadaf Herang Gypsum Company

Laboratory No: 3912

### 1. Color

Test Method: Visual

Test	Result
Color	Pure white

### 2. Fineness

Test Method: ASTM C 472

Test	Sieve	Unit	Result	Plaster of Paris Specification Limits
Fineness (Particle size distribution)	0.300mm	% Passing	100	Plaster of Paris: Residue on 02 m m sieve < 12%
	0.150mm		86.6	
	0.075mm		82.2	Wall Plaster: Residue on 0.315 mm sieve = 0
	0.045mm		69.3	

Remarks: Fineness complies with the specification limits of DIN 1168-2

### 3. Setting Time

Test Method: DIN 1168 Part 2 (Vicat needle method)

Test	Result	Plaster of Paris Specification Limits
Initial setting time	12.8	8 to 25 Minutes
Final setting time	23.9	

Remarks: Initial setting time complies with the specification limits of DIN 1168-2



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#### 4. Bending Strength

Our Material Testing Services have conducted a laboratory mix using the supplied ordinary gypsum powder for bending strength as DIN 1168 Part 2 & DIN 1164 Part 7.

Three 40×40×160 mm prisms were casted and tested for bending strength. The test specimens were cured in thermostatically controlled oven at a temperature of 45±2°C.

Specimen No.	Age of Test	Bending Strength (MN/m <sup>2</sup> )	Average Bending Strength (MN/m <sup>2</sup> )	Plaster of Paris CVG 605 Specification Limits
1	7 days	5.23	5.6	≥2.5MN/m <sup>2</sup>
2		5.42		
3		6.15		

Remarks: Bending strength complies with the specification limits of DIN 1168-2

#### 5. Compressive Strength

Six 40×40×160 mm prisms were casted and tested for compressive strength. The test specimens were air cured for 7 days at normal lab conditions and then for 3 days in a thermostatically controlled oven at a temperature of 45±2°C. Test was conducted in accordance with DIN 1168 Part2.

Specimen No.	Age Test	Compressive Strength (N/mm <sup>2</sup> )	Average Compressive Strength (N/mm <sup>2</sup> )	Limits
1	7 days	14.1	13.75	≥6
2		14.5		
3		13.6		
4		13.3		
5		13.6		
6		13.4		

Remarks: Compressive strength complies with the specification limits of DIN 1168-2