

TEST RESULT SUMMARY

The sample in the trademark of "weber color slim" was submitted by the Saint-Gobain weber Co.,Ltd. The series of test and test methods were conducted on May 15, 2012 in accordance with European Norms (EN 13888: 2009) with details as follows:

Specification of cementitious grouts (CG)

Fundamental Characteristics						
Characteristics	Requirement	Test Method	Results			
Flexural strength after dry storage	≥ 2.5 N/mm ²	EN 12808-3	PASS			
Compressive strength after dry storage	≥ 15 N/mm ²	EN 12808-3	PASS			
Shrinkage	≤ 3 mm/m	EN 12808-4	PASS			
Water absorption after 30 min	≤ 5 g	EN 12808-5	PASS			
Water absorption after 240 min	≤ 10 g	EN 12808-5	PASS			

Regarding to the testing results, it was found that the properties of "weber.color slim" are conformed to European Norms (EN 13888: 2009) test methods as specified. These results certify the adequacy and representative character of test samples only.

(Assoc. Prof. Dr. Tirawat Boonyatee)

Tested by : (Assist. Prof. Dr. Boonchai Sangpetngam)

On Behalf of Head of Civil Engineering Department

Reference No. SPT-31/55



FACULTY OF ENGINEERING CHULALONGKORN UNIVERSITY

Type of test

FLEXURAL STRENGTH TEST (EN 12808-3)

Test specimen

Three (3) specimens in prism shape were cast in the laboratory.

The mix proporting of water to "weber.color slim" ratio was 33% by weight.

Client

SAINT-GOBAIN WEBER CO., LTD.

Date of test

May 15, 2012

Test method

After mixing them thoroughly, the specimen was cast in the standard molds having a size of 40x40x160 mm.

The specimens are cured for 24 hours in molds, then stripped and cured in standard condition until conducting the test.

Test results

The flexural strength of specimens at the age of 28 days are shown as follows.

(The test results are good only for those specimens tested.)

Specimen	Width of	Thickness of	Length of	Maximum Load	Flexural	
No.	Specimen, B	Specimen, D	Specimen	P	Strength	Remarks
	(cm)	(cm)	(cm)	(kgf)	(ksc)	
1	4.11	4.09	16.32	266	58.0	The flexural strength, Sf=3 P1/(2 BD ²)
2	4.01	4.00	16.05	245	57.3	where I (span length) is 10 cm.
3	4.00	4.08	16.00	232	52.3	1 kgf/cm2 = 0.0981 N/mm2
				Average	55.9	Average flexural strength = 5.48 N/mm2

Note: This results certify the adequacy and representative character of the test samples only.

(Assoc. Prof. Dr. Tirawat Boonyatee)

On Behalf of Head of Civil Engineering Department

(Assist. Prof. Dr. Boonchai Sangpetngam)



Type of test:

COMPRESSIVE STRENGTH TEST (EN 12808-3)

Test specimen:

Three (3) specimens in prism shape were cast in the laboratory.

The mix proporting of water to "weber.color slim" ratio was 33% by weight.

Client:

SAINT-GOBAIN WEBER CO., LTD.

Date of test:

May 15, 2012

Test method:

After flexural test, the halves broken specimens were keeped in standard condition until conducting the compression test.

Test results:

The compressive strength of specimens at the age of 28 days are shown as follows.

(The test results are good only for those specimens tested.)

Specimen	Date of cast	Date of test	Age of	Cross	Maximum Load	Compressive	
No.			Specimen	section area	(kgf)	Strength	Remarks
			(days)	(cm ²)		(ksc)	
1	17-Apr-2012	15-May-2012	28	16	3,950	246.9	$1 \text{ kgf/cm}^2 = 0.0981 \text{ N/mm}^2$
2	17-Apr-2012	15-May-2012	28	16	3,800	237.5	
3	17-Apr-2012	15-May-2012	28	16	3,950	246.9	Average compressive strength of
					Average	243.8	samples = 23.91 N/mm2

Note: This results certify the adequacy and representative character of the test samples only.

(Assoc. Prof. Dr. Tirawat Boonyatee)

Tested by:

(Assist. Prof. Dr. Boonchai Sangpetngam)

On Behalf of Head of Civil Engineering Departmen



Type of test: SHRINKAGE TEST (EN 12808-4)

Test specimen: Three (3) specimens in prism shape were cast in the laboratory.

The mix proporting of water to "weber.color slim" ratio was 33% by weight.

Client: SAINT-GOBAIN WEBER CO., LTD.

Date of test: May 15, 2012

Test results: The shrinkage of specimens at the age of 28 days are shown as follows.

(The test results are good only for those specimens tested.)

Specimen	Initial	Final	Drying shrinkage	
No.	Length	Length	of specimen	
	(mm)	(mm)	(mm/m)	
1	160.00	159.54	2.88	
2	160.00	159.55	2.81	
3	160.00	159.55	2.81	
		Average	2.83	

Note: This results certify the adequacy and representative character of the test samples only.

(Assoc. Prof. Dr. Tirawat Boonyatee)

(Assist. Prof. Dr. Boonchai Sangpetngam)

Tested by: Bent Say

On Behalf of Head of Civil Engineering Department



Type of test:

WATER ABSORPTION (EN 12808-5)

Test specimen:

Three (3) specimens in prism shape were cast in the laboratory.

The mix proporting of water to "weber.color slim" ratio was 33% by weight.

Client:

SAINT-GOBAIN WEBER CO., LTD.

Date of test:

May 15, 2012

Test results:

the water absorption of specimens at the age of 28 days are shown as follows.

(The test results are good only for those specimens tested.)

Specimen	Weight of dry	eight of dry Weight of Weight of Water		Water absorption	Water absorption
No.	specimen	Specimen after	Specimen after	after immersion	after immersion
	(g)	immersion of 30 min	immersion of 240 min	of 30 min	of 240 min
		(g)	(g)	(g)	(g)
1	385.45	385.71	386.27	0.26	0.82
2	386.58	386.84	387.36	0.26	0.78
3	381.60	381.80	381.90	0.20	0.30
		3	Average	0.24	0.63

Note: This results certify the adequacy and representative character of the test samples only.

(Assoc. Prof. Dr. Tirawat Boonyatee)

On Behalf of Head of Civil Engineering Department

Tested by:

(Assist. Prof. Dr. Boonchai Sangpetngam)