

AIT**Asian Institute of Technology**

Km. 42 Paholyothin Highway, Klong Luang, Pathumthani, Thailand 12120

P.O. Box 4 Klong Luang, Pathumthani 12120, Thailand. Tel. (66-2) 524-5527, 524-6427 Fax. (66-2) 524-5544.

STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout⁺⁺" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout⁺⁺" ratio was 12% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.**DATE OF TEST:** July 8, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:


Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	08/07/17	1	279	25.33	12,390	489.23	*1 kgf/cm ² = 0.0981 MPa. Average compressive strength is 47.37 MPa at 1 day(s) aged.
2	07/07/17	08/07/17	1	277	25.25	11,980	474.45	
3	07/07/17	08/07/17	1	278	25.20	12,230	485.31	
						Average	482.99	

Note : This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

CHECKED & APPROVED BY:


MR. RUNGROJ JANGJIT
 TECHNICIAN


DR. ANAWAT CHOTESUWAN
 SENIOR LABORATORY SUPERVISOR
 August 8, 2017



Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout⁺" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout⁺" ratio was 12% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: July 14, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:

Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	14/07/17	7	281	25.43	21,110	830.23	*1 kgf/cm ² = 0.0981 MPa. Average compressive strength is 81.29 MPa at 7 day(s) aged.
2	07/07/17	14/07/17	7	288	25.35	21,610	852.43	
3	07/07/17	14/07/17	7	283	25.38	20,400	803.89	
						Average	828.85	

Note : This report certifies the adequacy and representative character of the test sample(s) only.

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TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout⁺" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout⁺" ratio was 12% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: August 4, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:

Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	04/08/17	28	285	25.45	24,330	955.92	*1 kgf/cm ² = 0.0981 MPa. Average compressive strength is 93.54 MPa at 28 day(s) aged.
2	07/07/17	04/08/17	28	282	25.38	24,230	954.83	
3	07/07/17	04/08/17	28	279	25.28	24,030	950.72	
						Average	953.82	

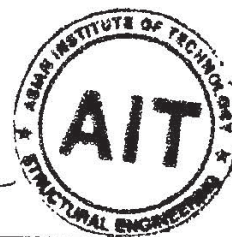
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STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout" ratio was 16% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: July 8, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:

Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	08/07/17	1	273	25.55	7,230	282.96	*1 kgf/cm ² = 0.0981 MPa.
2	07/07/17	08/07/17	1	270	25.50	6,830	267.83	Average compressive strength is 26.73 MPa at 1 day(s) aged.
3	07/07/17	08/07/17	1	266	25.10	6,700	266.93	
						Average	272.57	

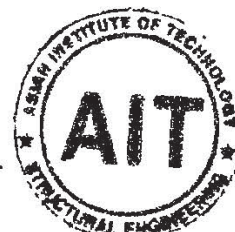
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STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout*" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout*" ratio was 16% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: July 14, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:

Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	14/07/17	7	272	25.25	13,730	543.75	*1 kgf/cm ² = 0.0981 MPa. Average compressive strength is 53.82 MPa at 7 day(s) aged.
2	07/07/17	14/07/17	7	271	25.30	14,380	568.36	
3	07/07/17	14/07/17	7	274	25.15	13,440	534.39	
						Average	548.83	

Note : This report certifies the adequacy and representative character of the test sample(s) only.

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CHECKED & APPROVED BY:


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August 8, 2017



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TYPE OF TEST: COMPRESSIVE STRENGTH TEST (ASTM C109)

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CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: August 4, 2017

TEST METHOD: After mixed thoroughly, the mixed specimen was cast in the 2" standard test cubes. The cubes are cured for 24 hours in the molds, then stripped and cured in room temperature until they reached the required test age.

TEST RESULTS:

Specimen No.	Date of Cast	Date of Test	Age of Specimen (days)	Weight of Specimen (g)	Cross Sectional Area (cm ²)	Maximum Load (kgf)	Compressive Strength (kgf/cm ²)	Remarks
1	07/07/17	04/08/17	28	274	25.35	17,910	706.48	*1 kgf/cm ² = 0.0981 MPa. Average compressive strength is 70.92 MPa at 28 day(s) aged.
2	07/07/17	04/08/17	28	275	25.28	18,440	729.56	
3	07/07/17	04/08/17	28	274	25.25	18,520	733.45	
						Average	723.16	

Note : This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

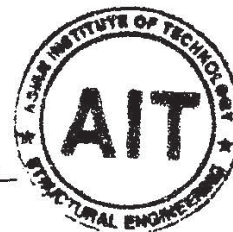
CHECKED & APPROVED BY:

Rungroj Jangjit

MR. RUNGROJ JANGJIT
TECHNICIAN

Anawat Chotesuwan

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August 15, 2017



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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 16% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: July 8, 2017

DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

TEST RESULTS : The flexural strength of specimens at the age of 1 day are shown as follows.

Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.0	40.1	160.0	2.64	7.39	The flexural strength, Sf = $3 P l / (2 b d d)$. where l (span length) is 120 mm.
2	40.1	40.0	160.0	2.88	8.08	
3	40.0	40.0	160.0	2.94	8.27	
				Average	7.91	

Note : This report certifies the adequacy and representative character of the test sample(s) only.

WITNESSED BY:

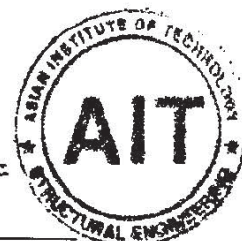
CHECKED & APPROVED BY:

Rungroj

MR. RUNGROJ JANGJIT
TECHNICIAN

Anawat

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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 12% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: August 4, 2017

DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

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

Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.3	40.6	160.0	5.24	14.20	The flexural strength, Sf = $3 P l / (2 b d d)$, where l (span length) is 120 mm.
2	39.7	40.6	160.0	5.26	14.47	
3	40.7	40.4	160.0	5.20	14.09	
				Average	14.25	

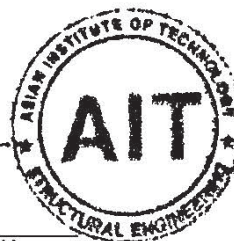
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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 12% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: July 14, 2017

DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

TEST RESULTS : The flexural strength of specimens at the age of 7 days are shown as follows.


Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.2	40.1	160.0	4.65	12.95	The flexural strength, Sf = $3 P l / (2 b d d)$. where l (span length) is 120 mm.
2	40.3	40.0	160.0	4.81	13.43	
3	40.5	40.7	160.0	4.60	12.34	
				Average	12.91	

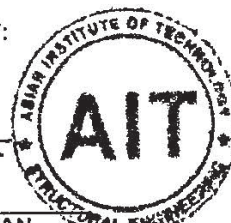
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STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 12% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: July 8, 2017

DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.


TEST RESULTS : The flexural strength of specimens at the age of 1 day are shown as follows.

Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.1	40.0	160.0	3.90	10.94	The flexural strength, Sf = $3 P l / (2 b d d)$. where l (span length) is 120 mm.
2	40.0	40.0	160.0	3.77	10.60	
3	40.1	40.1	160.0	3.90	10.89	
				Average	10.81	

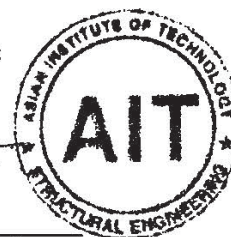
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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 16% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: July 14, 2017

DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

TEST RESULTS : The flexural strength of specimens at the age of 7 days are shown as follows.

Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.6	41.4	160.0	3.63	9.39	The flexural strength, Sf = $3 P l / (2 b d d)$. where l (span length) is 120 mm.
2	40.5	41.2	160.0	4.20	11.00	
3	40.0	40.1	160.0	3.41	9.54	
				Average	9.98	

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TYPE OF TEST: FLEXURAL STRENGTH TEST (ASTM C348)

TEST SPECIMEN: Three (3) specimens of standard prisms shape made of " Weber.tec non-shrink grout+ " were prepared in SE laboratory. The water to " Weber.tec non-shrink grout+ " ratio was 16% by weight. The tests were carried out at Saint-Gobain-Weber factory under a supervision of SE laboratory.

CLIENT: SAINT - GOBAIN WEBER CO., LTD.

DATE OF TEST: August 4, 2017 DATE OF CAST : July 7, 2017

TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

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

Specimen No.	Width of sample B (mm)	Thickness of sample D (mm)	Length of sample L (mm)	Maximum Load P (kN)	Flexural Strength Sf (N/mm ²)	Remarks
1	40.0	40.6	160.0	3.63	9.91	The flexural strength, Sf = $3 P l / (2 b d d)$, where l (span length) is 120 mm.
2	40.6	40.9	160.0	3.74	9.91	
3	40.5	40.6	160.0	3.60	9.71	
				Average	9.84	

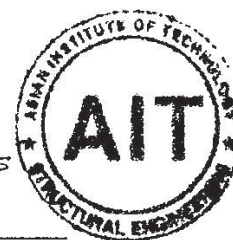
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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: SETTING TIME BY MODIFIED VICAT NEEDLE (ASTM C-807)

TEST SPECIMEN: Three (3) cubes having a nominal size of 50x50x50 mm made of "Weber.tec non-shrink grout[™]" were prepared in SE laboratory. The water to "Weber.tec non-shrink grout[™]" ratio was 16% by weight.

CLIENT: SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST: July 7, 2017

TEST METHOD: After mixed thoroughly, the paste was tested for penetration resistance using standard 2 mm vicat needle until there is no crack observed on the surface.

TEST RESULTS:

Time	Elapsed	Reading	Remark
9:00	0:00		Start Mixing
9:30	0:30	40.00	
10:45	1:45	40.00	
11:00	2:00	40.00	
11:05	2:05	36.00	
11:10	2:10	22.00	
11:15	2:15	16.00	
11:20	2:20	9.50	
11:25	2:25	4.00	
11:30	2:30	0.50	
11:35	2:35	0.00	cracking
11:40	2:40	0.00	cracking
11:45	2:45	0.00	cracking
11:50	2:50	0.00	cracking
11:55	2:55	0.00	cracking
12:00	3:00	-	no crack

The initial setting time is
2 hour 19 minute

The final setting time is
3 hour 0 minute

Note : This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:


MR. RUNGROJ JANGJIT
TECHNICIAN

CHECKED & APPROVED BY:


DR. ANAWAT CHOTESUWAN
SENIOR LABORATORY SUPERVISOR
August 15, 2017

