

เวเบอร์ เท็ค นอนซิ่ง เกร้าท์ พลัส

ซีเมนต์มอร์ตาร์ชนิดไม่หดตัว ปรับระดับได้เอง ให้กำลังอัดสูง สำหรับงานใช้เทเกร้าท์

- เหมาะสำหรับ
- ✓ งานเสาฐานเครื่องจักร
 - ✓ งานเสาฐานรองรับรางรถไฟ
 - ✓ งานเสาฐานรองคานาสพาน
 - ✓ งานซ่อมมุงโพรงในงาหอคอนกรีต
 - ✓ งานโครงสร้างคอนกรีตสำเร็จรูป
 - ✓ งานยึดฝังสลักเกลียว (Anchor Bolt)

คุณสมบัติการใช้งาน

- สามารถไหลตัวได้ดีเยี่ยม
- ไม่มีการย่ิม
- ค่ารับกำลังอัดสูง
- ไม่กัดกร่อนเหล็กเสริมคอนกรีตและโลหะอื่นๆ
- ทนต่อแรงสั่นสะเทือน และแรงกระแทกได้ดี

● **ขนาด :** ถุงละ 25 กก.

● **สี :** เทา

● **ปริมาณการใช้งาน :** ผงซีเมนต์เกร้าท์ประมาณ 2 กก. / ปริมาตรมอร์ตาร์ 1 ลิตร (สำหรับ 1 ลูกบาศก์เมตร ใช้จำนวน 70x25 กิโลกรัมและน้ำ 280 ลิตร)

● การเตรียมพื้นผิว

1. พื้นผิวคอนกรีต จะต้องแข็งแรง สะอาด ปราศจากคราบน้ำมัน คราบจารบี เศษซีเมนต์ และสิ่งสกปรกต่างๆ
2. พื้นผิวเหล็ก จะต้องปราศจากคราบสนิม น้ำมัน จารบี
3. พรหมน้ำบริเวณที่จะใช้งานให้มีความชื้นพอเหมาะ สำหรับพื้นผิวที่มีการดูดซึมน้ำสูงและระวังไม่ให้มีน้ำขัง

● วิธีการผสม

1. ตวงน้ำลงในภาชนะที่จะทำการผสม
2. ผสม เวเบอร์ เท็ค นอนซิ่ง เกร้าท์ พลัส 25 กก. กับน้ำ 3.75-4 ลิตร (น้ำ 15-16% ของน้ำหนักปูน) หรือ ปูน 4 ส่วน : น้ำ 1 ส่วน โดยปริมาตร สำหรับงานเกร้าท์
3. ผสมให้เข้าเป็นเนื้อเดียวกัน ถ้าผสมปริมาณน้อยต่อครั้งสามารถไปใช้การทวนด้วยเกรียงได้ หากใช้ปริมาณมากให้ใช้การผสมด้วยเครื่องผสม (ความเร็วรอบไม่เกิน 500 รอบต่อนาที) หลังผสมควรถังพักไว้ 3-5 นาที เพื่อให้ส่วนผสมเข้าเป็นเนื้อเดียวกันและลดฟองอากาศในส่วนผสม

● วิธีการใช้งาน

1. ตรวจสอบการติดตั้งไม้แบบ ต้องแข็งแรงแน่นหนาและอุดร่องเพื่อป้องกันกริ้วไหลลงมอร์ตาร์
2. เท เวเบอร์ เท็ค นอนซิ่ง เกร้าท์ พลัส ลงในแบบที่เตรียมไว้ โดยเทจากด้านใดด้านหนึ่งและระวังอย่าให้เกิดฟองอากาศในเนื้อมอร์ตาร์

● วิธีการใช้งาน (ต่อ)

3. กรณีใช้เครื่องจักรในการฉีดเกร้าท์ จะต้องควบคุมแรงดันในการเกร้าท์ให้สม่ำเสมอและต่อเนื้อ
4. ควรบ่มพื้นผิวทันทีเมื่อแห้งพอ และควรบ่มทิ้งไว้ 3-7 วัน
5. ควรล้างทำความสะอาดเครื่องมือต่างๆ ด้วยน้ำสะอาดทันทีที่เสร็จงาน

● อายุการใช้งานและการเก็บรักษา

1 ปีหลังจากวันผลิต โดยที่ยังอยู่ในสภาพไม่เปิดถุง และถูกเก็บไว้ในที่ร่ม แห้ง ไม่ชื้น อากาศถ่ายเทสะดวก (ถ้าใช้ไม่หมดควรปิดถุงให้แน่นสนิท)

ข้อมูลทางเทคนิค

ประเภท	ผลทดสอบ	
ความหนาแน่น	140 กรัม/ซม. ³	
อุณหภูมิระหว่างการใช้งาน	+5°C และ +40°C	
มาตรฐานการรับรอง		
การทดสอบ	ผลทดสอบค่ามาตรฐาน	
ค่ารับกำลังอัด (Compressive strength ASTM C109)	1 วัน	250 ksc
	7 วัน	500 ksc
	28 วัน	700 ksc
ค่ารับแรงดัด (Flexural strength ASTM C348)	1 วัน	7 N/mm ²
	7 วัน	9 N/mm ²
	28 วัน	9 N/mm ²
ระยะเวลาก่อตัว (ASTM C-807)	การก่อตัวระยะต้น (Initial Setting time)	2 ชั่วโมง 30 นาที
	การก่อตัวระยะปลาย (Final Setting time)	3 ชั่วโมง
อัตราการย่ิม (Bleeding)	0%	

หมายเหตุ : ผลการทดสอบเหล่านี้ได้มาจากห้องทดลองตัวอย่าง อาจแตกต่างกับผลที่ได้จากการผสมที่หน่วยงาน เนื่องจากวิธีการใช้และสภาพของหน่วยงานที่แตกต่างกัน



เวเบอร์ ตราตุ๊กแก

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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 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



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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.

TESTED BY:

CHECKED & APPROVED BY:

Rungroj Jangjit

MR. RUNGROJ JANGJIT
TECHNICIAN

Anawat Chotesuwan

DR. ANAWAT CHOTESUWAN
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August 8, 2017



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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: 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	

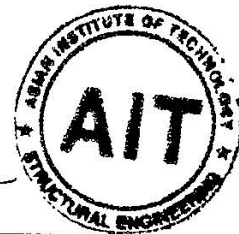
Note : This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

CHECKED & APPROVED BY:


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TECHNICIAN


DR. 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: 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	

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

TESTED BY:

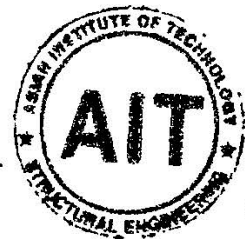
CHECKED & APPROVED BY:



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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 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.

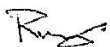
TEST RESULTS:

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.

TESTED BY:

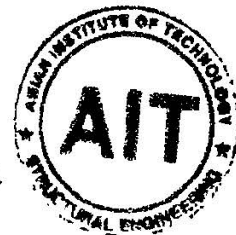
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STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY SCHOOL OF ENGINEERING AND TECHNOLOGY

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: 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:

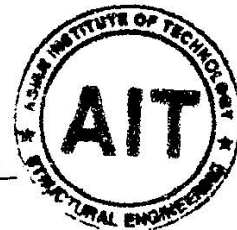
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CHECKED & APPROVED BY:

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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

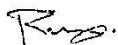
TEST METHOD: After thoroughly mixed, the specimen was cast in the standard molds having a size of 40 x 40 x 160 mm. After curing in molds for 24 hours, they were removed from molds and cured in room temperature until they reached the required test age.

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:

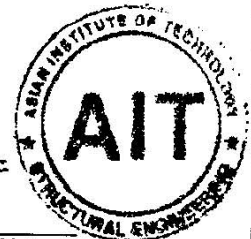


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CHECKED & APPROVED BY:



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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: 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	

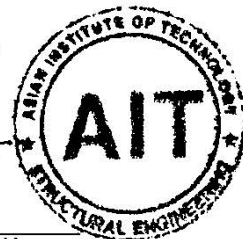
Note : This report certifies the adequacy and representative character of the test sample(s) only.

WITNESSED BY:

CHECKED & APPROVED BY:


 MR. RUNGROJ JANGJIT
 TECHNICIAN


 DR. ANAWAT CHOTESUWAN
 SENIOR LABORATORY SUPERVISOR
 August 15, 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: 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	

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

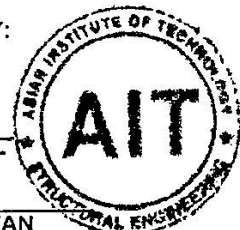
WITNESSED BY:

Rungroj

MR. RUNGROJ JANGJIT
TECHNICIAN

CHECKED & APPROVED BY:

Anawat Chotesuwan



DR. ANAWAT CHOTESUWAN
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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 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	

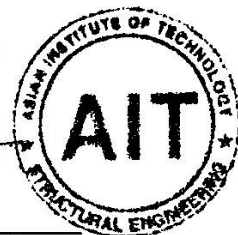
Note : This report certifies the adequacy and representative character of the test sample(s) only.

WITNESSED BY:



MR. RUNGROJ JANGJIT
TECHNICIAN

CHECKED & APPROVED BY:

DR. ANAWAT CHOTESUWAN
SENIOR LABORATORY SUPERVISOR
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 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	

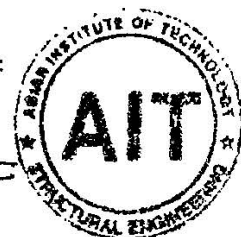
Note : This report certifies the adequacy and representative character of the test sample(s) only.

WITNESSED BY:



MR. RUNGROJ JANGJIT
TECHNICIAN

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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: 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	

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

WITNESSED BY:

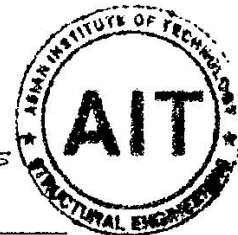


MR. RUNGROJ JANGJIT
TECHNICIAN

CHECKED & APPROVED BY:



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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: 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

