

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

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

TYPE OF TEST:

STATIC LOAD TEST OF ANCHORAGE

TEST SPECIMEN: One (1) set of prestressed concrete anchorage consisting of "Anchor Block 205-MatS45C (40x40 mm.) and Guide 205-MatFC250" and 2 pcs. of 12.7 mm. 7-wire PC Strand stressed one by one installed in the concrete block having a size of 300 (T) x 600 (W) x 1,500 (L) mm. was given by the client.

CLIENT:

J.S.V. TECHNICAL CO., LTD.

DATE OF TEST:

September 26, 2023

**TEST MACHINE:** 

The testing machine consists of the hydraulic jack of serial no. QC 66001 for pc strand having a nominal diameter of 12.7 mm. and the hydraulic pump of serial no. 366749 fitted with the "POWER TEAM" pressure gauge of serial no. 9062 having a maximum capacity of 690 bar or 10,000 psi.

#### **TEST RESULTS:**

Specimen No. and	Percentage of	Sustained Time (min.)	Prestressing Load (kN.)	Total Load (kN).	Remarks
Type of Specimen	Capacity	(111111.)	(KIV.)	(KIV).	
1 Mat S45C	26.70	1	49.12 x 2 pcs.	98.24	No crack or any damage were found on tested concrete block
2 pcs 12.7 mm.	51.79	1	95.30 x 2 pcs.	3.5 5 5 5	after sustained load for 10 min.
	76.89	1	141.48 x 2 pcs.	282.96	at the applied load of 176.11 x 2 pcs. (352.23 kN)
	95.71	10	176.11 x 2 pcs.	352.23	

Note: 1) The testing machine was calibrated by Chulalongkorn University on the date of March 27, 2023.

2) The capacity of 12.7 mm. strand is 184 kN according to TIS 420-2540.

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

**TESTED BY:** 

MR. PRATUANG RASAMEE

**TECHNICIAN** 

CHECKED & APPROVED

DR. ANAWAT CHOTESUWAN SENIOR LABORATORY SUPERVISOR

October 2, 2023



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

# STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

STATIC LOAD TEST OF ANCHORAGE

TEST SPECIMEN: One (1) set of prestressed concrete anchorage consisting of "Anchor Block 305-MatS45C (40x40 mm.) and Guide 305-MatFC250" and 3 pcs. of 12.7 mm. 7-wire PC Strand stressed one by one installed in the concrete block having a size of

300 (T) x 600 (W) x 1,500 (L) mm. was given by the client.

CLIENT:

J.S.V. TECHNICAL CO., LTD.

DATE OF TEST:

September 26, 2023

**TEST MACHINE:** 

The testing machine consists of the hydraulic jack of serial no. QC 66001 for pc strand having a nominal diameter of 12.7 mm. and the hydraulic pump of serial no. 366749 fitted with the "POWER TEAM" pressure gauge of serial no. 9062 having a maximum capacity of 690 bar or 10,000 psi.

#### **TEST RESULTS:**

Specimen No.	Percentage	Sustained	Prestressing	Total	Remarks
and	of	Time	Load	Load	
Type of Specimen	Capacity	(min.)	(kN.)	(kN).	
1 Mat S45C	26.70	1	49.12 x 3 pcs.	147.36	No crack or any damage were found on tested concrete block
3 pcs 12.7 mm.	51.79	1	95.30 x 3 pcs.	285.90	after sustained load for 10 min. at the applied load of
	76.89	1	141.48 x 3 pcs.	424.44	176.11 x 3 pcs. (528.34 kN)
	95.71	10	176.11 x 3 pcs.	528.34	

Note: 1) The testing machine was calibrated by Chulalongkorn University on the date of March 27, 2023.

2) The capacity of 12.7 mm. strand is 184 kN according to TIS 420-2540.

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

**TESTED BY:** 

MR. PRATUANG RASAMEE

**TECHNICIAN** 

CHECKED & APPROVED

SENIOR LABORATORY SUPERVISOR

October 2, 2023



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

# STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

STATIC LOAD TEST OF ANCHORAGE

TEST SPECIMEN: One (1) set of prestressed concrete anchorage consisting of "Anchor Block 405-MatS45C (40x40 mm.) and Guide 405-MatFC250" and 4 pcs. of 12.7 mm. 7-wire PC Strand stressed one by one installed in the concrete block having a size of

300 (T) x 600 (W) x 1,500 (L) mm. was given by the client.

CLIENT:

J.S.V. TECHNICAL CO., LTD.

DATE OF TEST:

September 26, 2023

**TEST MACHINE:** 

The testing machine consists of the hydraulic jack of serial no. QC 66001 for pc strand having a nominal diameter of 12.7 mm. and the hydraulic pump of serial no. 366749 fitted with the "POWER TEAM" pressure gauge of serial no. 9062 having a maximum

capacity of 690 bar or 10,000 psi.

#### **TEST RESULTS:**

	Specimen No.	Percentage	Sustained	Prestressing	Total	Remarks
П	and	of	Time	Load	Load	
H	Type of Specimen	Capacity	(min.)	(kN.)	(kN).	
	1 Mat S45C	26.70	1	49.12 x 4 pcs.		No crack or any damage were found on tested concrete block
	4 pcs 12.7 mm.	51.79	1	95.30 x 4 pcs.	381.20	after sustained load for 10 min. at the applied load of
		76.89	1	141.48 x 4 pcs.	565.92	176.11 x 4 pcs. (704.46 kN)
		95.71	10	176.11 x 4 pcs.	704.46	

Note: 1) The testing machine was calibrated by Chulalongkorn University on the date of March 27, 2023.

2) The capacity of 12.7 mm. strand is 184 kN according to TIS 420-2540.

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

TESTED BY:

MR. PRATUANG RASAMEE

**TECHNICIAN** 

CHECKED & APPROVED B

DR. ANAWAT CHOTES

SENIOR LABORATORY SUPERVISOR October 2, 2023



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

# STRUCTURAL ENGINEERING LABORATORY STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: STATIC LOAD TEST OF ANCHORAGE

TEST SPECIMEN: One (1) set of prestressed concrete anchorage consisting of "Anchor Block 505-

MatS45C (40x40 mm.) and Guide 505-MatFC250" and 5 pcs. of 12.7 mm. 7-wire PC Strand stressed one by one installed in the concrete block having a size of

300 (T) x 600 (W) x 1,500 (L) mm. was given by the client.

CLIENT: J.S.V. TECHNICAL CO., LTD.

DATE OF TEST: September 26, 2023

TEST MACHINE: The testing machine consists of the hydraulic jack of serial no. QC 66001 for pc strand

having a nominal diameter of 12.7 mm. and the hydraulic pump of serial no. 366749 fitted with the "POWER TEAM" pressure gauge of serial no. 9062 having a maximum

capacity of 690 bar or 10,000 psi.

#### **TEST RESULTS:**

Specimen No. and Type of Specimen	Percentage of Capacity	Sustained Time (min.)	Prestressing Load (kN.)	Total Load (kN).	Remarks
1	26.70	1	49.12 x 5 pcs.		No crack or any damage were found on tested concrete block
Mat S45C 5 pcs 12.7 mm.	51.79	1	95.30 x 5 pcs.		after sustained load for 10 min. at the applied load of
	76.89	1	141.48 x 5 pcs.	707.40	176.11 x 5 pcs. (880.57 kN)
	95.71	10	176.11 x 5 pcs.	880.57	

Note: 1) The testing machine was calibrated by Chulalongkorn University on the date of March 27, 2023.

2) The capacity of 12.7 mm. strand is 184 kN according to TIS 420-2540.

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

**TESTED BY:** 

MR. PRATUANG RASAMEE

**TECHNICIAN** 

CHECKED & APPROVED

DR. ANAWAT CHOTESUWAN

SENIOR LABORATORY SUPERVISOR

October 2, 2023