

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:** 

LOAD CARRYING CAPACITY VERIFICATION

(PARALLEL TO CLAMPED BEAM)

**TEST SPECIMEN:** 

One (1) Aluminium "Stanchion Post" was given by the client.

CLIENT:

TEMCO CO., LTD.

DATE OF TEST:

March 16, 2018

**TEST RESULTS:** 

Sheet No. 1 of 3

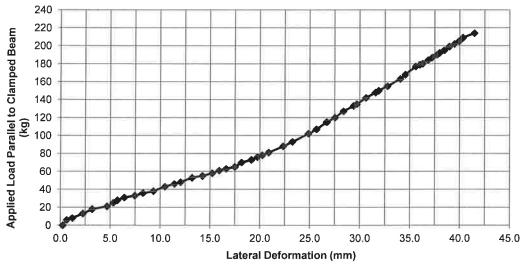


Figure 1 Relationship between applied load and lateral deformation of the specimen

Note:

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

TESTED BY:

MR. SAMWAI SORNSRIDA TECHNICIAN CHECKED & APPROVED

DR. ANAWAT CHOTESUWAN
SENIOR LABORATORY SUPERVISOR
April 3, 2018

Sheet No. 2 of 3 Doc. No. S0127A-18

Case No.	Applied Load	Lateral	Remark
	Parallel to	Deformation	
	Clamped Beam		
	(kg)	(mm)	
1	0.0	0.23	
	6.0	0.64	
	8.0	1.19	
	13.0	2.25	1
	18.0	3.19	1
	21.0	4.67	1
	25.0	5.29	
	28.0	5.72	1
	31.0	6.41 7.44	
	33.0 36.0	8.27	1
	38.0	9.30	1
	43.0	10.46	1
	46.0	11.40	
	48.0	12.03	
	53.0	13.18	
	55.0	14.22	
	58.0	15.21	
	61.0	15.92	
	63.0	16.61	
	65.0	17.47	
	70.0	18.15	1
	73.0 76.0	19.12 19.73	
	78.0 78.0	20.22	
	81.0	20.86	
	88.0	22.31	
	93.0	23.23	
	102.0	24.85	
	107.0	25.65	
	115.0	26.68	
	120.0	27.50	
	127.0	28.36	
	133.0	29.36	
	135.0	29.69	
	142.0	30.59	
	148.0 150.0	31.54 31.84	
	155.0	32.73	
	163.0	34.02	
	168.0	34.52	
	177.0	35.57	
	179.0	35.98	
	180.0	36.25	
	184.0	36.80	ATTUTE OF TEC
	187.0	37.23	1
	190.0	37.69	(3)
	192.0	37.94	(2)
	195.0	38.42	\*\ <b>-</b>
	199.0	38.93	13/
	202.0	39.44	ALCITRAL ENGINE
	205.0	39.91	TAL ENGIN
	209.0	40.29	
	214.0	41.44	Displacement gauges were removed
	413.0		Damage occurred at the tested load

Sheet No. 3 of 3 Doc. No. S0127A-18

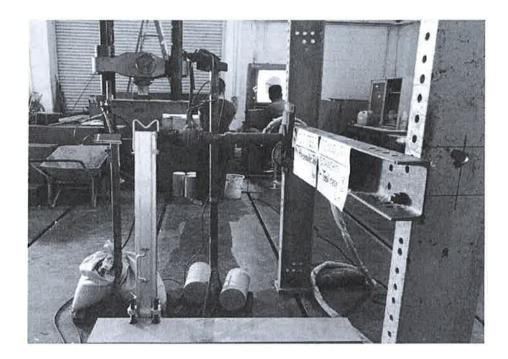


Figure 2 Lateral deformation parallel to clamped beam

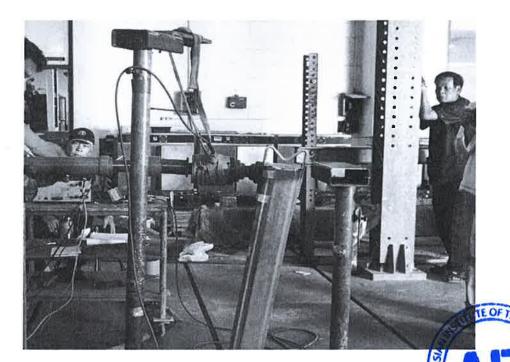


Figure 3 Damage occurred at the tested load 413 kg



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#### STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**TYPE OF TEST:** 

LOAD CARRYING CAPACITY VERIFICATION BY HYDRAULIC

(PERPENDICULAR TO CLAMPED BEAM)

TEST SPECIMEN: One (1) Aluminium "Stanchion Post" was given by the client.

**CLIENT:** 

TEMCO CO., LTD.

DATE OF TEST:

March 16, 2018

**TEST RESULTS:** 

Sheet No. 1 of 3

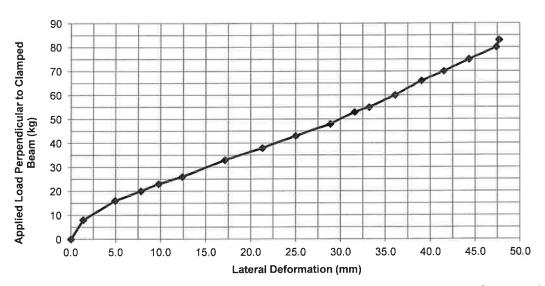


Figure 1 Relationship between applied load and lateral deformation of the specimen

Note:

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

TESTED BY:

MR. SAMWAI SORNSRIDA
TECHNICIAN

CHECKED & APPROVED BY AIT

DR. ANAWAT CHOTESUWAN SENIOR LABORATORY SUPERVISOR April 3, 2018 Sheet No. 2 of 3 Doc. No. S0127B-18

Case No.	Applied Load	Lateral	Remark
	Perpendicular to	Deformation	
	Clamped Beam		
	(kg)	(mm)	
2	0.0	0.00	
	8.0	1.36	
	16.0	4.92	
	20.0	7.79	
	23.0	9.75	
	26.0	12.37	
	33.0	17.13	
	38.0	21.29	
	43.0	24.99	
	48.0	28.86	
	53.0	31.57	
	55.0	33.19	
	60.0	36.06	
	66.0	39.00	
	70.0	41.48	
	75.0	44.30	
	80.0	47.38	
	83.0	47.67	Displacement gauges were removed
	152.0	) <del>   </del>	Damage occurred at the tested load



Sheet No. 3 of 3 Doc. No. S0127B-18



Figure 2 Lateral deformation perpendicular to clamped beam

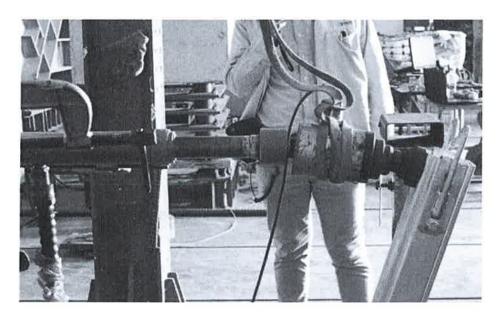


Figure 3 Damage occurred at the tested load 152 kg





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### STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**TYPE OF TEST:** 

LOAD CARRYING CAPACITY VERIFICATION BY COUNTERWEIGHT TEST

(PARALLEL TO CLAMPED BEAM)

TEST SPECIMEN: One (1) Aluminium "Stanchion Post" was given by the client.

**CLIENT:** 

TEMCO CO., LTD.

DATE OF TEST:

March 16, 2018

**TEST RESULTS:** 

Sheet No. 1 of 2

Case No.	Type of Specimen	Maximum Load (kg)	Mode of Failure
1	Stanchion Post	250	Bending of hooking point

Note:

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

TESTED BY:

MR. SAMWAI SORNSRIDA

**TECHNICIAN** 

**CHECKED & APPROVE** 

DR. ANAWAT CHOTESUWAN SENIOR LABORATORY SUPERVISOR

April 3, 2018

Sheet No. 2 of 2 Doc. No. S0127C-18

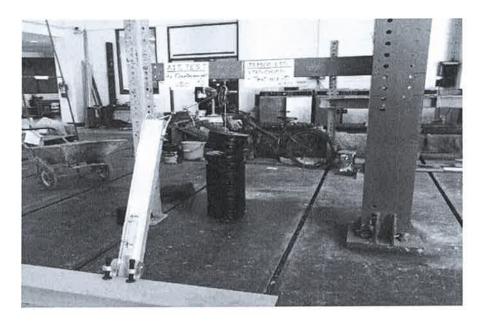


Figure 1 Lateral deformation parallel to clamped beam

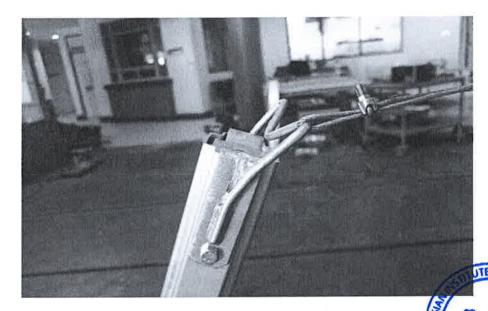


Figure 2 Damage occurred at the tested load 250 kg



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#### STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

LOAD CARRYING CAPACITY VERIFICATION BY COUNTERWEIGHT TEST

(PERPENDICULAR TO CLAMPED BEAM)

TEST SPECIMEN: One (1) Aluminium "Stanchion Post" was given by the client.

**CLIENT:** 

TEMCO CO., LTD.

**DATE OF TEST:** 

March 16, 2018

**TEST RESULTS:** 

Sheet No. 1 of 2

Case No. No.	Type of Specimen	Maximum Load (kg)	Mode of Failure
2	Stanchion Post	280	Bending of hooking point

Note:

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

TESTED BY:

MR. SAMWAI SORNSRIDA

**TECHNICIAN** 

**CHECKED & APPROVED** 

DR. ANAWAT CHOTESUWAND SENIOR LABORATORY SUPERVISOR

April 3, 2018

Sheet No. 2 of 2 Doc. No. S0127D-18

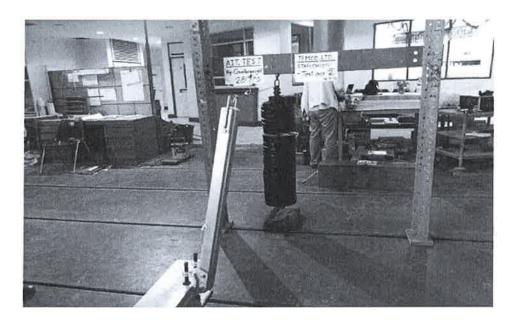


Figure 1 Lateral deformation perpendicular to clamped beam

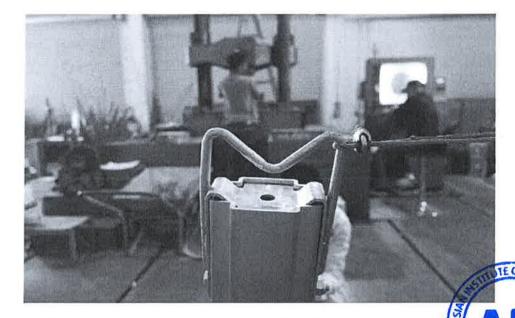


Figure 2 Damage occurred at the tested load 280 kg