



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Deputy General Manager Projects
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL **2005** (Dr. Asad Ullah Qazi)
 Reference of the request letter # HRLE/SKG/2022/066/2172

Dated: 23-09-2022
 Dated: 23-09-2022

Tension Test Report (Page -1/1)

Date of Test 23-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.308	32	32.25	1.25	1.266	37400	63400	65962	65100	111817	110400	1.40	17.5	Afco Steel
2	4.318	32	32.29	1.25	1.269	37600	63400	66314	65300	111817	110200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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Ref: CED/TFL/09/2009

Dated: 23-09-2022

Dated of Test: 23-09-2022

To

M/s IIL Construction Solution Pvt. Ltd

Subject: - **LOAD TEST OF ADJUSTABLE TELESCOPIC STEEL PROPS** (Page # 1/2)

Reference to your Letter No. Nil, dated: 09/09/2022, on the subject cited above. One Adjustable Telescopic Steel Props as received by us has been tested. The results are shown below:

- Diameter of the lower pipe = 60.40 mm
- Diameter of the upper adjustable pipe = 48.70 mm
- Length of the lower pipe = 2.20 m
- Length of the upper adjustable pipe = 2.20 m

Sr. No.	Thickness (mm)	Unsupported Length (m)	Buckling Load		Failure Load *		Lateral Deformation at Failure Load		Remarks
							Lateral direction-1	Lateral direction-2	
			kg	kN	kg	kN	mm	mm	
1	2.90	4.02	1412.30	13.85	2732.20	26.80	25.00	15.20	Buckling Failure

* Maximum load taken by the Prop

I/C Testing Laboratories
UET Lahore, Pakistan.

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Dated: 23-09-2022

Dated of Test: 23-09-2022

To

M/s IIL Construction Solution Pvt. Ltd

Subject: - LOAD TEST OF ADJUSTABLE TELESCOPIC STEEL PROPS (Page # 2/2)

Reference to your Letter No. Nil, dated: 09/09/2022, on the subject cited above. One Adjustable Telescopic Steel Props as received by us has been tested. The results are shown below:

- Diameter of the lower pipe = 60.30 mm
- Diameter of the upper adjustable pipe = 48.30 mm
- Length of the lower pipe = 2.20 m
- Length of the upper adjustable pipe = 2.20 m

Sr. No.	Thickness (mm)	Unsupported Length (m)	Buckling Load		Failure Load *		Lateral Deformation at Failure Load		Remarks
							Lateral direction-1	Lateral direction-2	
			kg	kN	kg	kN	mm	mm	
1	3.20	4.02	1742.30	17.09	3062.30	30.04	32.00	18.30	Buckling Failure

* Maximum load taken by the Prop

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UET Lahore, Pakistan.

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