



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

To,

Construction Supervisor / Deputy PM
Sunjin Engineering amp; Architecture Co. Ltd.
Technology Park Development Project.

Reference # CED/TFL **5920** (Dr. Ali Ahmed)

Dated: 29-10-2024

Reference of the request letter # PK-IT-SUN-C-23-OCT-003

Dated: 23-10-2024

Tension Test Report (Page – 1/3)

Date of Test 06-11-2024

Gauge length 2 inches

Description Steel Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	25	25.80x25.80	665.64	29100	38700	429	570	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Steel Plate 25mm Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Reference # CED/TFL **5920** (Dr. Ali Ahmed)
Reference of the request letter # PK-IT-SUN-C-17-OCT-001

Dated: 29-10-2024
Dated: 17-10-2024

Tension Test Report (Page – 2/3)

Date of Test 06-11-2024
Gauge length 2 inches
Description Steel Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	8	28.70x8.00	229.60	10400	12500	444	534	0.45	22.50	
2	10	25.70x10.00	257.00	-----	14000	-----	534	0.50	25.00	
3	12	25.70x11.90	305.83	-----	16900	-----	542	1.00	50.00	
4	16	25.75x18.80	484.10	-----	24100	-----	488	0.90	45.00	
5	20	19.00x20.00	380.00	13700	20400	354	527	0.70	35.00	
6	35	20.80x34.90	725.92	30500	45800	412	619	0.70	35.00	
Only Six Samples for Tensile and Six Samples for Bend Test										
Bend Test										
Strip Taken from Steel Plate 8mm Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate 10mm Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate 12mm Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate 16mm Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate 20mm Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate 35mm Bend Test Through 180° is Satisfactory										

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Reference # CED/TFL **5920** (Dr. Ali Ahmed)

Dated: 29-10-2024

Reference of the request letter # PK-IT-SUN-C-21-OCT-002

Dated: 21-10-2024

Tension Test Report (Page – 3/3)

Date of Test 06-11-2024

Gauge length 2 inches

Description Anchor Clip Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Anchor Clip	14.80x1.20	17.76	-----	800	-----	442	0.45	22.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Anchor Clip Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
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Reference of the request letter # PK-IT-SUN-C-21-OCT-002

Dated: 29-10-2024
Dated: 21-10-2024

Tension Test Report (Page – 3A/3)

Date of Test 06-11-20254
Gauge length 8 inches
Description Wire Mesh Tensile and bend Test

Sr. No.	Weight	Diameter/ size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (swg)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.093	8	3.89	-----	11.9	-----	600	-----	495	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test												
Bend Test												
Wire Mesh Bend Test Through 180° is Satisfactory												

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