



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

To,
 Project Manager
 Modern Building System
 Warehouse WFP Project Muzaffarabad

Reference # CED/TFL **36754** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 13-07-2021
 Dated: 13-07-2021

Tension Test Report (Page – 1/2)

Date of Test 27-07-2021
 Gauge length 2 inches
 Description Z Purlin Sheet & 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)										
1	Z Purlin Sheet	2	23.80x2.00	47.60	1600	2000	329.75	412.18	0.55	27.50	
2			24.00x2.00	48.00	1600	2000	327.00	408.75	0.50	25.00	
3	Steel Plate	12	23.80x11.50	273.70	7900	12600	283.15	451.61	0.80	40.00	
4			23.80x11.50	273.70	8300	13100	297.49	469.53	0.80	40.00	
5	Steel Plate	20	23.90x19.70	470.83	13000	21700	270.86	452.13	0.90	45.00	
6			23.90x19.70	470.83	12700	21600	264.61	450.05	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Six Samples for Tensile and Three Samples for Bend Test											
Bend Test											
Strip Taken from Z Purlin Sheet 2mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Plate 12mm Bend Test Through 180° is Satisfactory											
Strip Taken from Steel Plate 20mm Bend Test Through 180° is Satisfactory											

I/C Testing Laboratories
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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Reference # CED/TFL **36754** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 13-07-2021
Dated: 13-07-2021

Weight & Size Test Report (Page – 2/2)

Date of Test 27-07-2021
Description Z Purlin Sheet & Steel Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)							
1	Z Purlin Sheet	2	3600	67.00	34.50	15.57	2.00	
2	Steel Plate	12	5600	60.70	10.00	92.26	11.50	
3	Steel Plate	20	9740	61.00	10.10	158.09	19.70	
-		-	-	-	-	-	-	
-		-	-	-	-	-	-	
-		-	-	-	-	-	-	
-		-	-	-	-	-	-	
-		-	-	-	-	-	-	
Only Three Samples for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S S.A. Sheikh & Co.
Lahore

Reference # CED/TFL **36785** (Dr. Waseem Abbas)
Reference of the request letter # SASCO/ABMK/2

Dated: 19-07-2021

Dated: 19-07-2021

Tension Test Report (Page -1/1)

Date of Test 27-07-2021
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (inch)	Actual (mm)	Nominal	Actual							
1	8.826	1.5	37.84	-----	1124.3	45200	77400	394	675	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S CM Engineering (Pvt) Ltd
Lahore
(Project Long haul Site ID : 8215)

Reference # CED/TFL **36790** (Dr. Waseem Abbass)
Reference of the request letter # CME/Steel/Long haul/307

Dated: 26-07-2021
Dated: 26-07-2021

Tension Test Report (Page -1/1)

Date of Test 27-07-2021
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	0.371	10	9.47	0.12	0.109	3300	5000	60627	66620	91858	101000	1.30	16.3	
2	0.358	10	9.30	0.12	0.105	3200	5000	58789	67020	91858	104800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

10mm Dia Bar Bend Test Through 180° is Satisfactory

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