



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

To,  
 Resident Engineer  
 Pillar & Sons  
 Rumanza Golf & Country Club, DHA Lahore

Reference # CED/TFL **36680** (Dr. M Rizwan Riaz)  
 Reference of the request letter # P&S/OTH/GEN/00029

Dated: 02-07-2021  
 Dated: 29-06-2021

**Tension Test Report** (Page – 1/1)

Date of Test 09-07-2021  
 Gauge length 2 inches  
 Description Pipe Steel Strip Tensile and Bend Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	114	24.70x4.40	108.68	4600	6000	415.22	541.59	0.40	20.00	
2		24.70x4.40	108.68	4500	5900	406.19	532.56	0.45	22.50	
3	168	25.10x4.90	122.99	4700	6200	374.88	494.53	0.60	30.00	
4		25.10x4.90	122.99	4700	6200	374.88	494.53	0.60	30.00	
5	219	24.80x8.00	198.40	6300	9600	311.51	474.68	0.65	32.50	
6		24.80x8.00	198.40	6000	9000	296.67	445.01	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Six Samples for Tensile and Three Samples for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Pipe (114mm) Bend Test Through 180° is Satisfactory										
Strip Taken from Pipe (168mm) Bend Test Through 180° is Satisfactory										
Strip Taken from Pipe (219mm) Bend Test Through 180° is Satisfactory										

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
Director Technical / C.E.O  
Altec Engineers  
Establishment of Model Bazaar at Pakpattan & Bhakkar

Reference # CED/TFL **36705** (Dr. M Rizwan Riaz)

Dated: 07-07-2021

Reference of the request letter # CS/MB/2/PKPTN/NMB/CONS/NOC/03/15 Dated: 30-06-2021

**Tension Test Report** (Page – 1/1)

Date of Test 09-07-2021  
Gauge length 2 inches  
Description GI Purlins Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	GI Purlins	24.60x2.00	49.20	1500	1900	299.09	378.84	0.40	20.00	
2		24.60x2.00	49.20	1400	1850	279.15	368.87	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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To,  
M/S CM Engineering (Pvt) Ltd  
Lahore  
(CMPAK Project Site ID : 52391, 52976, 51227, 51229, 53190, 53220, 52559)

Reference # CED/TFL **36712** (Dr. M Rizwan Riaz)  
Reference of the request letter # CME/Steel/CMPAK/305

Dated: 08-07-2021  
Dated: 02-07-2021

**Tension Test Report** (Page -1/1)

Date of Test 09-07-2021  
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 <sup>2</sup> )		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	0.373	10	9.50	0.12	0.110	3100	5000	56952	62250	91858	100400	1.30	16.3	
2	0.368	10	9.43	0.12	0.108	3100	4900	56952	63150	90021	99900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

**Bend Test**

10mm Dia Bar Bend Test Through 180° is Satisfactory

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**STRUCTURAL ENGINEERING DIVISION**  
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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 M/S CM Engineering (Pvt) Ltd  
 Lahore  
 (CMPAK Project Site ID : 43443, 43315, 43456, 43330, 43376, 43391, 43307, 43075, 43441, 43465, 43471, 43442, 43466, 43216, 43470, 43448, 43352)

Reference # CED/TFL **36713** (Dr. M Rizwan Riaz)  
 Reference of the request letter # CME/Steel/CMPAK/306

Dated: 08-07-2021  
 Dated: 07-07-2021

**Tension Test Report** (Page -1/1)

Date of Test 09-07-2021  
 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 <sup>2</sup> )		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	0.366	10	9.40	0.12	0.108	3000	4800	55115	61480	88184	98400	1.20	15.0	
2	0.369	10	9.44	0.12	0.108	2900	4800	53278	58960	88184	97600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 ACES  
 Rumanza Golf Course, DHA Multan

Reference # CED/TFL **36715** (Dr. M Rizwan Riaz) Dated: 08-07-2021  
 Reference of the request letter # ACES-DHAM-RGCC-M&F-003 Dated: 01-07-2021

**Tension Test Report** (Page -1/1)

Date of Test 09-07-2021  
 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 <sup>2</sup> )		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	0.392	10	9.72	0.12	0.115	3700	5100	67975	70840	93696	97700	0.85	10.6	Mughal Steel
2	0.382	10	9.61	0.12	0.112	3500	4800	64301	68650	88184	94200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
 Executive Director  
 Tekton Engineering (Pvt) Ltd  
 Residential Unit at 84-A, Model Town (NADA)

Reference # CED/TFL **36716** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 08-07-2021  
 Dated: 08-07-2021

**Tension Test Report** (Page -1/1)

Date of Test 09-07-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.11	0.111	3700	4600	74200	73750	92200	91700	0.80	10.0	Amreli Steel
2	0.381	3	0.378	0.11	0.112	4000	4900	80200	78650	98200	96400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Construction of 1 Kanal Houses NGV DRGCC DHA Phase-VI) – (M/s Linker Developers (Pvt) Ltd)  
Reference # CED/TFL **36726, 727 (Dr. Qasim Khan)** Dated: 09-07-2021  
Reference of the request letter # 408/241/E/Lab/103/19 Dated: 09-07-2021

**Tension Test Report** (Page -1/1)

Date of Test 09-07-2021  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3400	5100	68200	69200	102200	103800	1.50	18.8	Moiz Steel
2	0.373	3	0.374	0.11	0.110	3500	5100	70200	70350	102200	102600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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