



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
DAR Engineer
Punjab Agriculture Food and Drug Authority's Science Enclave. Lahore

Reference # CED/TFL **36783** (Dr. M Rizwan Riaz)
Reference of the request letter # DB-78/DAR/RE/ME2021/19

Dated: 16-07-2021
Dated: 16-07-2021

Tension Test Report (Page – 1/1)

Date of Test 30-07-2021
Gauge length 2 inches
Description Welded Schuco Aluminum Sleeve Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	---	(mm)	(mm ²)	(kN)	(MPa)	(inch)		
1	Welded Schuco Aluminum Sleeve	22.90x1.50	34.35	4.75	138.28	0.20	10.00	Failure at the location other than weld
2		23.40x1.60	37.44	4.50	120.19	0.20	10.00	Failure at the location other than weld
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Only two samples for tensile test								
Bend Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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To,
M/S Prefab Services (Pvt) Ltd
Wah Cantt, Taxila

Reference # CED/TFL **36787** (Dr. M Rizwan Riaz)
Reference of the request letter # PSL/MTL/PQR/2021/019-001/20

Dated: 26-07-2021

Dated: 18-07-2021

Tension Test Report (Page – 1/1)

Date of Test 30-07-2021

Gauge length 2 inches

Description Welded SS Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
1	Welded SS Pipe	26.40x6.40	168.96	10400	603.84	1.00	50.00	Failure at the location other than weld
2		25.30x6.40	161.92	10200	617.97	1.00	50.00	Failure at the location other than weld
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-	-	-	-	-	-	-	-	-

Only two samples for tensile and four samples for bend test

Bend Test

Strip taken from Welded SS Pipe Root Bend Test Through 180° is Satisfactory

Strip taken from Welded SS Pipe Root Bend Test Through 180° is Satisfactory

Strip taken from Welded SS Pipe Face Bend Test Through 180° is Satisfactory

Strip taken from Welded SS Pipe Face Bend Test Through 180° is Satisfactory

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Manager Construction
 Orient Electronics (Pvt) Ltd
 Construction of Orient Square Hotel Tower Johar Town

Reference # CED/TFL **36801** (Dr. M Rizwan Riaz) Dated: 29-07-2021
 Reference of the request letter # OSH-SO/UET/KamranTest-Retest/290721-28 Dated: 29-07-2021

Tension Test Report (Page -1/1)

Date of Test 30-07-2021
 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 ²)		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	0.110	3600	4900	72200	71870	98200	97900	1.20	15.0	
2	0.373	3	0.374	0.11	0.110	3200	4600	64200	64260	92200	92400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36802** (Dr. M Rizwan Riaz)
Reference of the request letter # IHPL/Steel/0108

Dated: 29-07-2021
Dated: 28-07-2021

Tension Test Report (Page -1/)

Date of Test 30-07-2021
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 ²)		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	0.372	3	0.373	0.11	0.109	3400	5300	68200	68520	106200	106900	1.10	13.8	PCS Steel
2	0.380	3	0.377	0.11	0.112	3500	5300	70200	69150	106200	104800	1.00	12.5	
3	0.378	3	0.376	0.11	0.111	3600	5300	72200	71360	106200	105100	0.90	11.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Rafi Ullah (IHPL) & Ali Hasnain Khan(Jr. Project Engr.)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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 **36804** (Dr. M Rizwan Riaz) Dated: 30-07-2021
Reference of the request letter # 408/241/E/Lab/34/111 Dated: 29-07-2021

Tension Test Report (Page -1/1)

Date of Test 30-07-2021
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 ²)		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	0.363	3	0.369	0.11	0.107	3400	5600	68200	70160	112300	115600	1.30	16.3	Afco Steel
2	0.357	3	0.365	0.11	0.105	3300	5500	66200	69360	110200	115600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 PICIIP Sahiwal
 Punjab Intermediate Cities Improvement Investment Program (PICIIP),
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Lines and Allied Work
 Reference # CED/TFL **36807** (Dr. M Rizwan Riaz)
 Reference of the request letter # 3976/11/MT/01/Lot-2/158

Dated: 30-07-2021

Dated: 29-07-2021

Tension Test Report (Page -1/2)

Date of Test 30-07-2021

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 ²)		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	0.381	3	0.378	0.11	0.112	4000	5000	80200	78690	100200	98400	0.80	10.0	Amereli Steel
2	0.381	3	0.377	0.11	0.112	4100	5100	82200	80750	102200	100500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
 UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 PICIIP Sahiwal
 Punjab Intermediate Cities Improvement Investment Program (PICIIP),
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Lines and Allied Work
 Reference # CED/TFL **36807** (Dr. M Rizwan Riaz) Dated: 30-07-2021
 Reference of the request letter # 3976/11/MT/01/Lot-2/155 Dated: 29-07-2021

Tension Test Report (Page -2/2)

Date of Test 30-07-2021
 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 ²)		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	0.379	3	0.377	0.11	0.111	3400	5500	68200	67270	110200	108900	1.00	12.5	Fazal Steel
2	0.381	3	0.378	0.11	0.112	3400	5500	68200	66860	110200	108200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **36808** (Dr. M Rizwan Riaz)
 Reference of the request letter # ST/UET/20210730-A

Dated: 30-07-2021
 Dated: 30-07-2021

Tension Test Report (Page -1/1)

Date of Test 305-07-2021
 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 ²)		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	0.369	3	0.372	0.11	0.108	3700	5300	74200	75170	106200	107700	1.00	12.5	Batala Premium
2	0.368	3	0.371	0.11	0.108	3800	5200	76200	77370	104200	105900	0.90	11.3	
3	0.368	3	0.371	0.11	0.108	3400	5000	68200	69280	100200	101900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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