

Engr Abdul Basit Ali
 Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: ICPL/CCBL/LAN/01
 SOM Lab Ref: CED/SOM/416(Page-1/1)
 Test: Tension Test & Bend Test
 Sample Type: Deformed Bar

Dated: 07-03-2019
 Dated: 07-03-2019
 Test Specification: ASTM-A 615
 Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.222	6	18.98	####	283	161.70	203.00	#N/A	572	#N/A	718	27.5	200	13.8	
2	1.531	5	15.76	####	195	105.70	134.70	#N/A	542	#N/A	691	30.0	200	15.0	
3	0.985	4	12.64	####	125	75.50	93.70	#N/A	602	#N/A	747	25.0	200	12.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Jamea-Al-Muntazar (Trust)
H-Block, Model Town, Lahore

Test Performed By: Dr. /Engr. Bial A. Khokhar

Client Reference: nil

SOM Lab

Ref: 412 (Page-1/1)

Dated: 07-03-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.674	8	1.000	0.79	0.786	25.71	35.14	71770	72140	98100	98590	1.20	8.0	15.0	
2	1.494	6	0.748	0.44	0.439	15.55	20.25	77920	78100	101530	101760	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Shahid Mehmood
Sr. Manager Civil, Treet Corporation Limited, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 07-03-2019
Test: Tension Test

SOM Lab
Ref: 413(Page-1/1)
Dated: 07-03-2019
ASTM-A-615
Deformed
Bar

Gauge Length: 8 inch

Sample Type:

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.629	8	0.992	0.79	0.773	23.39	33.56	65310	66750	93680	95750	1.60	8.0	20.0	
2	2.634	8	0.993	0.79	0.774	23.29	33.20	65030	66370	92690	94600	1.40	8.0	17.5	
3	1.511	6	0.752	0.44	0.444	12.84	17.20	64380	63800	86200	85420	1.80	8.0	22.5	
4	1.598	6	0.774	0.44	0.470	15.82	19.67	79300	74240	98610	92320	1.50	8.0	18.8	
5	0.649	4	0.493	0.20	0.191	7.26	8.72	80040	83810	96110	100640	1.20	8.0	15.0	
6	0.652	4	0.494	0.20	0.192	6.57	8.33	72510	75530	91840	95670	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Imran
Resident Engineer, PSIC House, Davis Road, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: G3/0161

SOM Lab

Ref: 414(Page-1/1)

Dated: 06-03-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.620	8	0.990	0.79	0.770	24.82	34.68	69300	71100	96820	99330	1.40	8.0	17.5	
2	2.612	8	0.989	0.79	0.768	24.92	34.68	69580	71580	96820	99590	1.50	8.0	18.8	
3	1.484	6	0.745	0.44	0.436	13.35	19.29	66940	67550	96670	97560	1.50	8.0	18.8	
4	1.496	6	0.748	0.44	0.440	13.40	19.44	67190	67190	97440	97440	1.40	8.0	17.5	
5	0.684	4	0.506	0.20	0.201	6.47	8.84	71380	71030	97460	96970	1.20	8.0	15.0	
6	0.661	4	0.497	0.20	0.194	6.49	9.02	71610	73820	99480	102560	1.50	8.0	18.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Shabbir H Sandhu
 Project Manager- TYPASA-ASIAN Consulting Engineers (J.V)

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: TYPASA-PK-2268-19

SOM Lab 415(Page-
 Ref: 1/1)

Dated: 07-03-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(Mughal Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.470	6	0.742	0.44	0.432	15.14	19.03	75880	77280	95400	97160	1.20	8.0	15.0	
2	1.481	6	0.744	0.44	0.435	15.06	19.08	75470	76340	95650	96750	1.50	8.0	18.8	
3	0.650	4	0.493	0.20	0.191	7.59	9.19	83750	87690	101390	106170	1.00	8.0	12.5	
4	0.650	4	0.493	0.20	0.191	7.46	9.09	82290	86160	100270	104990	1.10	8.0	13.8	
5	0.648	4	0.492	0.20	0.190	7.46	9.09	82290	86620	100270	105550	1.00	8.0	12.5	
6	0.643	4	0.491	0.20	0.189	7.29	8.99	80370	85050	99150	104920	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr Asbdul Basit Ali
 Material Engineer, IZHAR Construction (Pvt) Ltd Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: ICPL/CCBL/LAB/01C/33

SOM Lab

Ref: 416(Page-1/1)

Dated: 07-03-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.492	6	0.747	0.44	0.438	16.48	20.69	82620	83000	103720	104200	1.10	8.0	13.8	
2	1.029	5	0.620	0.31	0.302	10.77	13.73	76660	78690	97690	100280	1.20	8.0	15.0	
3	0.650	4	0.493	0.20	0.191	7.69	9.55	84760	88750	105330	110290	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional Officer
GC University, Faisalabad

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: GCUF/EC/0257

SOM Lab

Ref: 417 (Page-1/1)

Dated: 18-02-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.494	6	0.748	0.44	0.439	15.24	20.97	76390	76560	105100	105340	1.30	8.0	16.3	
2	1.499	6	0.749	0.44	0.441	14.98	20.82	75110	74940	104340	104100	1.20	8.0	15.0	
3	0.652	4	0.494	0.20	0.192	6.19	8.31	68230	71080	91610	95430	1.00	8.0	12.5	
4	0.652	4	0.494	0.20	0.192	8.07	10.01	89030	92740	110390	114990	0.90	8.0	11.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Shafeeq
CFO, INGIGO Developers, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: Nil

SOM Lab

Ref: 420(Page-1/1)

Dated: 06-03-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.702	8	1.005	0.79	0.794	23.72	34.91	66220	65890	97470	96980	1.40	8.0	17.5	
2	2.662	8	0.998	0.79	0.782	23.62	36.41	65940	66610	101650	102690	1.50	8.0	18.8	
3	0.654	4	0.494	0.20	0.192	5.83	8.87	64300	66980	97800	101870	1.30	8.0	16.3	
4	0.654	4	0.494	0.20	0.192	5.81	8.84	64080	66750	97460	101520	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional Officer
Highway Sub Division, No. II, Gujrat

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: 217/GTII

SOM Lab

Ref: 421 (Page-1/1)

Dated: 21-02-2019

Dated: 07-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.513	6	0.753	0.44	0.445	13.12	18.14	65760	65020	90950	89930	1.40	8.0	17.5	
2	1.042	5	0.624	0.31	0.306	11.16	14.14	79410	80450	100590	101900	1.20	8.0	15.0	
3	0.651	4	0.493	0.20	0.191	6.54	7.77	72170	75570	85660	89690	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Cantonment Executive Officer
Gujranwala Cantt.Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: PW- 1078/1886

SOM Lab

Ref: 422(Page-1/1)

Dated: 04-03-2019

Dated: 07-03-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.707	8	1.007	0.79	0.796	23.87	32.49	66650	66150	90700	90010	1.50	8.0	18.8	
2	0.646	4	0.492	0.20	0.190	5.71	7.10	62950	66260	78350	82470	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Abid Sultan
Admin Manager, Variant, 25-t-Gulberg- 2, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: VA/23/112

SOM Lab Ref: 424(Page-1/1)

Dated: 07-03-2019

Dated: 07-03-2019

Test: Tension & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.620	8	0.990	0.79	0.770	26.04	32.33	72710	74600	90270	92610	1.40	8.0	17.5	
2	2.608	8	0.988	0.79	0.766	26.32	32.57	73480	75780	90920	93770	1.60	8.0	20.0	
3	1.480	6	0.744	0.44	0.435	15.46	20.44	77510	78400	102450	103620	1.30	8.0	16.3	
4	1.481	6	0.744	0.44	0.435	15.46	20.39	77510	78400	102190	103370	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk