

Mustafa Ali
 Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: ICPL/CONST- RPL/19/012

Dated: 11-02-2019

SOM Lab Ref: CED/SOM/277(Page-1/1)

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.880	25	25.08	491	494	274.20	361.70	559	556	737	733	30.0	200	15.0	
2	3.877	25	25.08	491	494	274.20	361.00	559	556	735	732	27.5	200	13.8	
3	2.432	20	19.86	314	310	149.70	196.70	477	484	626	635	40.0	200	20.0	
4	2.433	20	19.87	314	310	148.70	196.50	473	480	625	634	35.0	200	17.5	
5	0.878	12	11.94	113	112	55.00	71.50	486	492	632	640	30.0	200	15.0	
6	0.878	12	11.94	113	112	55.00	71.50	486	492	632	640	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	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

Mustafa Ali
 Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: ICPL/CONST- RPL/19/012

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SOM Lab Ref: CED/SOM/277(Page-1/1)

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.880	25	25.08	491	494	274.20	361.70	559	556	737	733	30.0	200	15.0	
2	3.877	25	25.08	491	494	274.20	361.00	559	556	735	732	27.5	200	13.8	
3	2.432	20	19.86	314	310	149.70	196.70	477	484	626	635	40.0	200	20.0	
4	2.433	20	19.87	314	310	148.70	196.50	473	480	625	634	35.0	200	17.5	
5	0.878	12	11.94	113	112	55.00	71.50	486	492	632	640	30.0	200	15.0	
6	0.878	12	11.94	113	112	55.00	71.50	486	492	632	640	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Abdul Rehman

Dy Dir MTL, Infra Dev Works of Prism -9 PKG -01, Sector - Q - (M/S DHA Const. Co.)

Client Reference: 408/241/E/Lab/376/446

SOM Lab

Ref: 273(Page-3/3)

Dated: 08-02-2019

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	0.650	4	0.493	0.20	0.191	7.10	8.79	78350	82040	96900	101460	1.20	8.0	15.0	
2	0.659	4	0.497	0.20	0.194	7.05	8.74	77790	80190	96340	99310	1.00	8.0	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Abdul Rehman

Dy Dir MTL, Infra Dev Works of Sector - E, (Extn) DHA Phase IX - (M/S Inland Const. Co.)

Client Reference: 408/241/E/Lab/012/444

SOM Lab

Ref: 273(Page-1/3)

Dated: 08-02-2019

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	2.606	8	0.988	0.79	0.766	26.40	35.83	73710	76020	100030	103160	1.30	8.0	16.3	
2	2.603	8	0.987	0.79	0.765	24.64	34.53	68790	71030	96390	99540	1.10	8.0	13.8	
3	1.471	6	0.742	0.44	0.432	13.93	19.88	69850	71140	99640	101480	1.20	8.0	15.0	
4	1.488	6	0.746	0.44	0.437	14.12	20.05	70770	71250	100500	101190	1.30	8.0	16.3	
5	1.047	5	0.626	0.31	0.308	10.55	13.66	75060	75550	97180	97810	1.10	8.0	13.8	
6	1.021	5	0.618	0.31	0.300	11.44	14.19	81370	84080	100950	104320	1.10	8.0	13.8	
7	0.668	4	0.500	0.20	0.196	7.44	9.50	82060	83730	104770	106900	1.20	8.0	15.0	
8	0.653	4	0.494	0.20	0.192	6.68	8.79	73630	76700	96900	100930	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Ajaz Ahmad Gondal

Test Performed By:

Dr. /Engr.

S Asad Ali
Gillani

Acting Chief Resident Engineer, Trimu Panjnad Barrages Consultants(TPB Consultants)

Client Reference: TPBC/CRE/1576

SOM Lab Ref: 274(Page-1/1)

Dated: 09-02-2019

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Fazal Steel
Islamabad)

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	2.509	8	0.969	0.79	0.737	30.30	35.44	84580	90660	98950	106060	1.10	8.0	13.8	
2	2.530	8	0.973	0.79	0.744	27.03	33.03	75470	80140	92210	97910	1.00	8.0	12.5	
3	2.558	8	0.979	0.79	0.752	29.77	34.17	83100	87300	95390	100210	1.10	8.0	13.8	
4	2.565	8	0.980	0.79	0.754	29.87	32.74	83380	87360	91410	95770	1.00	8.0	12.5	
5	1.442	6	0.735	0.44	0.424	15.60	20.15	78180	81130	101020	104830	1.20	8.0	15.0	
6	1.445	6	0.736	0.44	0.425	14.98	20.08	75110	77760	100660	104210	1.20	8.0	15.0	
7	0.656	4	0.496	0.20	0.193	6.12	9.25	67450	69890	101960	105650	1.00	8.0	12.5	
8	0.655	4	0.494	0.20	0.192	5.96	9.14	65760	68500	100830	105030	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Aftab Ahmed
Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Client Reference: 410/4/Business Hub/Ph-VIII/M&F

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 275(Page-1/3)

Dated: 11-02-2019

ASTM-A-615

Deformed Bar (FF Steel)

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	0.656	4	0.496	0.20	0.193	6.70	8.92	73850	76530	98360	101930	1.10	8.0	13.8	
2	0.660	4	0.497	0.20	0.194	6.60	8.92	72730	74980	98360	101400	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Aftab Ahmed
Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By: Dr. /Engr. S Asad Ali Gillani

Client Reference: 410/6/Business Hub/Ph-VIII/M&F

SOM Lab
Ref: 275(Page-2/3)

Dated: 11-02-2019

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	1.482	6	0.745	0.44	0.436	13.86	19.42	69490	70130	97340	98230	1.30	8.0	16.3	
2	1.486	6	0.746	0.44	0.437	13.73	19.34	68830	69300	96930	97590	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

Aftab Ahmed

Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr. S Asad Ali G

Client Reference: 410/8/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 275(Page-3/3)

Dated: 11-02-2019

Dated: 11-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation
		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	2.658	8	0.997	0.79	0.781	23.47	35.52	65510	66270	99180	100320	1.50	8.0	18.8
2	2.654	8	0.997	0.79	0.780	23.45	35.55	65460	66290	99230	100510	1.60	8.0	20.0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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

Engr. Zafar Iqbal
Project Manager, Liberty Condominiums, Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: LC/T/2/12

SOM Lab

Ref: 278(Page-1/2)

Dated: 11-02-2019

Dated: 11-02-2019

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	2.590	8	0.984	0.79	0.761	24.36	32.90	68020	70610	91840	95330	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Engr. Zafar Iqbal
Project Manager, Liberty Condominiums, Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: LC/T/2/11

SOM Lab

Ref: 278(Page-2/2)

Dated: 11-02-2019

Dated: 11-02-2019

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	0.669	4	0.501	0.20	0.197	5.96	8.46	65760	66760	93300	94720	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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

Engr Shoukat Ali Rana
Project Manager, Orbit Housing, Lahore

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

Client Reference: Nil

SOM Lab

Ref: 279(Page-1/1)

Dated: 11-02-2019

Dated: 11-02-2019

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	2.592	8	0.985	0.79	0.762	24.33	31.88	67930	70430	88990	92260	1.40	8.0	17.5	
2	2.550	8	0.977	0.79	0.749	24.21	31.62	67590	71290	88280	93110	1.60	8.0	20.0	
3	1.642	6	0.784	0.44	0.483	16.99	21.38	85180	77590	107150	97610	1.40	8.0	17.5	
4	1.629	6	0.781	0.44	0.479	16.89	21.94	84670	77770	109960	101000	1.40	8.0	17.5	
5	0.646	4	0.492	0.20	0.190	7.10	8.58	78350	82470	94650	99630	1.00	8.0	12.5	
6	0.643	4	0.491	0.20	0.189	6.75	8.10	74420	78750	89370	94570	1.00	8.0	12.5	
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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

Deputy Director (QCD)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: QCD/ 119-20

SOM Lab 280 (Page-
Ref: 1/1)

Dated: 09-02-2019

Dated: 11-02-2019

Test: Tension Test & 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	0.602	4	0.475	0.20	0.177	4.28	6.34	47210	53350	69920	79010	1.60	8.0	20.0	
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BEND TEST:

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

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