

Abdullah Umer Associates
Engineers & Contractors, Faisalabad

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

Client Reference: nil
SOM Lab Ref: CED/SOM/167(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: nil
Dated: 21-01-2019
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	3.848	24	24.98	380	490	254.00	332.70	668	519	875	679	35.0	200	17.5	
2	3.849	24	24.98	380	490	241.20	350.00	635	492	921	714	35.0	200	17.5	
3	2.418	20	19.80	314	308	153.20	208.00	488	498	662	676	30.0	200	15.0	
4	2.437	20	19.88	314	310	157.70	211.20	502	509	672	681	30.0	200	15.0	
5	1.579	16	16.00	201	201	106.70	142.70	531	531	710	710	32.5	200	16.3	
6	1.572	16	15.97	201	200	107.50	143.00	535	537	711	715	30.0	200	15.0	
7	0.868	12	11.86	113	111	62.50	79.70	553	566	705	721	25.0	200	12.5	
8	0.870	12	11.88	113	111	60.70	78.70	537	548	696	711	27.5	200	13.8	
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BEND TEST:

24mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Twelve Samples Received and Tested</p>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

DCRE/ RE-I,
 Zeeruk International (Pvt) Ltd. Lahore Sialkot Motorway Project

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

Client Reference: LSMP/RE-I/2018/622
 SOM Lab Ref: CED/SOM/169 (Page-1/1)
 Test: Tension Test & Bend Test
 Sample Type: Deformed Bar(Mughal Steel)

Dated: 21-01-2019
 Dated: 21-01-2019
 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	3.878	25	25.08	491	494	316.20	376.70	644	641	767	763	35.0	200	17.5	
2	3.879	25	25.08	491	494	313.50	374.70	639	635	763	759	30.0	200	15.0	
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BEND TEST:

25mm	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

Deputy Director (Q.C.D)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: QCD/ 60

SOM Lab 165 (Page-
Ref: 3/3)

Dated: 15-01-2019

Dated: 21-01-2019

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	0.646	4	0.492	0.20	0.190	4.43	6.27	48900	51470	69130	72770	1.30	8.0	16.3	
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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

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

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

Client Reference: VA/23/97

SOM Lab 166(Page-
Ref: 1/1)

Dated: 21-01-2019

Dated: 21-01-2019

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	2.593	8	0.985	0.79	0.762	27.42	36.03	76550	79370	100600	104300	1.30	8.0	16.3	
2	2.594	8	0.985	0.79	0.762	27.06	35.88	75560	78330	100170	103850	1.20	8.0	15.0	
3	1.490	6	0.747	0.44	0.438	15.41	19.98	77260	77610	100150	100600	1.40	8.0	17.5	
4	1.502	6	0.749	0.44	0.441	15.26	19.80	76490	76320	99230	99000	1.50	8.0	18.8	
5	0.668	4	0.500	0.20	0.196	6.63	8.33	73070	74560	91840	93710	1.10	8.0	13.8	
6	0.674	4	0.502	0.20	0.198	7.24	8.58	79810	80620	94650	95610	1.30	8.0	16.3	
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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

District Officer (I)
District Council Hafizabad

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

Client Reference: 710/ZE (HFD) /2018

SOM Lab

Ref: 168Page-1/1)

Dated: 01-01-2019

Dated: 21-01-2019

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	1.432	6	0.732	0.44	0.421	14.39	18.35	72150	75400	91970	96120	1.30	8.0	16.3	
2	1.435	6	0.733	0.44	0.422	14.63	18.42	73320	76450	92330	96270	1.20	8.0	15.0	
3	0.655	4	0.494	0.20	0.192	6.85	8.74	75540	78690	96340	100350	1.40	8.0	17.5	
4	0.658	4	0.496	0.20	0.193	6.93	8.79	76440	79210	96900	100410	1.20	8.0	15.0	
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BEND TEST:

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

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