

Shahzeb Hameed
Ittehad Chemicals Ltd., Lahore

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

Client Reference: ICL/SCM/2020/Aug/005

SOM Lab

Ref: 2788(Page-1/1)

Dated: 28.07-2020

Dated: 28-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	1.502	6	0.749	0.44	0.441	12.86	18.86	64480	64340	94530	94310	1.30	8.0	16.3	
2	1.490	6	0.747	0.44	0.438	12.44	18.71	62340	62620	93760	94190	1.20	8.0	15.0	
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BEND TEST:

# 6	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.

S. Asad Ali
Gillani

Dy Dir MTL, Infra Development Works, DHA Ph -IX Prism, (Pkg-II, III & IV) - (M/S NLC)

Client Reference: 408/241/E/Lab/953/3373

SOM Lab

Ref: 2789(Page-1/1)

Dated: 27-07-2020

Dated: 28-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (S. J. 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	0.666	4	0.500	0.20	0.196	6.07	8.61	66890	68250	94990	96930	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	5.98	8.58	65990	67330	94650	96580	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/20200728

SOM Lab

Ref: 2791(Page-1/1)

Dated: 28.07-2020

Dated: 28-07-2020

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	2.567	8	0.980	0.79	0.754	23.11	30.43	64520	67600	84950	89000	1.20	8.0	15.0	
2	2.514	8	0.970	0.79	0.739	22.10	29.82	61700	65960	83240	88990	1.30	8.0	16.3	
3	2.526	8	0.972	0.79	0.742	23.09	30.19	64460	68630	84290	89750	1.20	8.0	15.0	
4	1.462	6	0.740	0.44	0.430	15.41	19.93	77260	79050	99890	102210	1.00	8.0	12.5	
5	1.450	6	0.736	0.44	0.426	16.18	20.36	81090	83750	102040	105390	1.10	8.0	13.8	
6	1.457	6	0.738	0.44	0.428	12.81	18.42	64230	66030	92330	94920	1.10	8.0	13.8	
7	0.653	4	0.494	0.20	0.192	6.42	8.72	70820	73770	96110	100120	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	6.90	8.56	76100	77260	94420	95860	1.00	8.0	12.5	
9	0.662	4	0.498	0.20	0.195	7.03	8.87	77560	79550	97800	100300	1.00	8.0	12.5	
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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	
# 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

Municipal Officer (I&S)
Municipal Corporation Ferozewala

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

Client Reference: MC/F/20/325

SOM Lab

Ref: 2796 (Page-1/1)

Dated: 06-06-2020

Dated: 28-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	0.559	4	0.457	0.20	0.164	5.25	6.37	57890	70600	70260	85680	1.10	8.0	13.8	
2	0.568	4	0.461	0.20	0.167	4.00	5.98	44070	52770	65990	79020	1.30	8.0	16.3	
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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

Z. H. Kazmi
Principal Architect, For Z. H. Kazmi & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 2797(Page-1/1)

Dated: 28-07-2020

Dated: 29-07-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge 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	2.621	8	0.990	0.79	0.770	28.44	34.37	79400	81460	95960	98450	1.00	8.0	12.5	
2	1.658	6	0.787	0.44	0.487	16.64	21.15	83390	75340	106020	95790	1.00	8.0	12.5	
3	0.667	4	0.500	0.20	0.196	6.14	8.92	67670	69050	98360	100370	1.10	8.0	13.8	
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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	
# 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

Z. H. Kazmi
Principal Architect, For Z. H. Kazmi & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 2797(Page-1/1)

Dated: 28-07-2020

Dated: 29-07-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge 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	2.621	8	0.990	0.79	0.770	28.44	34.37	79400	81460	95960	98450	1.00	8.0	12.5	
2	1.658	6	0.787	0.44	0.487	16.64	21.15	83390	75340	106020	95790	1.00	8.0	12.5	
3	0.667	4	0.500	0.20	0.196	6.14	8.92	67670	69050	98360	100370	1.10	8.0	13.8	
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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	
# 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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ST/UET/20200730
Dated: 30.07-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 2800(Page-1/1)
Dated: 30-07-2020
Test Specification: ASTM-A-615
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	0.664	4	0.498	0.20	0.195	6.49	8.12	71610	73440	89590	91890	0.90	8.0	11.3	
2	0.658	4	0.496	0.20	0.193	6.65	8.43	73290	75950	92960	96340	1.00	8.0	12.5	
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BEND TEST:

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

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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ST/UET/20200730
Dated: 30.07-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 2800(Page-2/2)
Dated: 30-07-2020
Test Specification: ASTM-A-615
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	2.527	8	0.973	0.79	0.743	22.17	30.33	61900	65810	84660	90020	1.30	8.0	16.3	
2	2.533	8	0.973	0.79	0.744	23.26	30.50	64940	68960	85150	90410	1.20	8.0	15.0	
3	2.576	8	0.982	0.79	0.757	23.70	31.06	66170	69050	86710	90490	1.20	8.0	15.0	
4	2.580	8	0.982	0.79	0.758	23.36	30.96	65230	67980	86430	90080	1.10	8.0	13.8	
5	2.621	8	0.990	0.79	0.770	24.41	31.98	68160	69930	89270	91590	1.20	8.0	15.0	
6	2.524	8	0.972	0.79	0.742	22.17	29.89	61900	65900	83440	88840	1.30	8.0	16.3	
7	1.492	6	0.747	0.44	0.438	11.82	17.66	59270	59540	88500	88900	1.20	8.0	15.0	
8	1.476	6	0.743	0.44	0.434	11.98	17.60	60040	60870	88240	89460	1.10	8.0	13.8	
9	1.469	6	0.742	0.44	0.432	12.30	18.09	61670	62820	90690	92370	1.30	8.0	16.3	
10	1.441	6	0.734	0.44	0.423	13.93	20.08	69850	72660	100660	104700	1.20	8.0	15.0	

BEND TEST:

--	No Bend test performed	Note:- Only Ten 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. Nauman Khurram

Dy Dir MTL, Infra Development Works, DHA Ph -IX Prism (Pkg-II, III & IV) - (M/S NLC)

Client Reference: 408/241/E/Lab/955/3422

SOM Lab

Ref: 2801(Page-1/1)

Dated: 29-08-2020

Dated: 30-07-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (S. J. 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	1.494	6	0.748	0.44	0.439	14.02	19.83	70260	70420	99380	99610	1.10	8.0	13.8	
2	1.472	6	0.743	0.44	0.433	14.60	19.59	73170	74350	98210	99790	0.90	8.0	11.3	
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BEND TEST:

# 6	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

