

Shahid Mahmood
Sr. Manager Civil, Treet Corporation Ltd. Lahore

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

Client Reference: nil
Dated: 07-01-2019
Test: Tension Test

SOM Lab
Ref: 90(Page-1/1)
Dated: 07-01-2019

Test Specification: 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	2.763	8	1.017	0.79	0.812	28.64	38.18	79970	77800	106580	103690	1.00	8.0	12.5	
2	0.644	4	0.491	0.20	0.189	6.98	8.61	77000	81480	94990	100510	1.10	8.0	13.8	
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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

Shahzad Mirza

Test Performed By:

Dr. /Engr.

M rizwan Riaz

Resident Engineer, NESPAK (Pvt) Ltd. Development of Kartarpur Corridor.

Client Reference: 3444/DKC/St. Test/SM/02

SOM Lab

Ref:

91 (Page-1/1)

Dated: 03-01-2019

Dated:

07-01-2019

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	2.664	8	0.998	0.79	0.783	31.24	38.60	87230	88000	107770	108730	1.30	8.0	16.3	B-2962
2	2.702	8	1.005	0.79	0.794	28.49	34.93	79540	79140	97530	97040	1.20	8.0	15.0	B-2930
3	1.592	6	0.772	0.44	0.468	18.14	21.99	90950	85510	110210	103620	1.20	8.0	15.0	nil
4	1.593	6	0.772	0.44	0.468	18.11	21.92	90800	85370	109850	103280	1.30	8.0	16.3	nil
5	1.044	5	0.625	0.31	0.307	11.28	14.17	80280	81070	100810	101790	1.20	8.0	15.0	D-4677
6	1.034	5	0.622	0.31	0.304	11.23	14.32	79920	81500	101890	103910	1.20	8.0	15.0	C-3292
7	0.581	4	0.467	0.20	0.171	6.39	8.18	70480	82430	90150	105440	1.10	8.0	13.8	D-4646
8	0.593	4	0.471	0.20	0.174	6.52	8.26	71940	82690	91050	104660	1.00	8.0	12.5	C-3260
9	0.599	4	0.473	0.20	0.176	5.96	7.61	65760	74730	83970	95420	1.00	8.0	12.5	C-3256
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BEND TEST:

# 8(S. 1,2)	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Eighteen Samples Received and Tested</p>
# 6(S. 3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(S. 5,6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(S. 7,8)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4 (S. 9)	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

Batala Steel
Lahore

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

Client Reference: nil

SOM Lab

Ref: 92(Page-1/1)

Dated: 08-01-2019

Dated: 08-01-2019

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	2.609	8	0.988	0.79	0.767	23.36	31.67	65230	67180	88420	91070	1.70	8.0	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Muhammad Umer Farooq

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

Civil Supervisor, Civil Supervisor, Ambition Apparel, 20-km Ferozepur Road Glaxo Town, Lahore

Client Reference: nil

SOM Lab

Ref: 91 (Page-1/1)

Dated: 08-01-2019

Dated: 08-01-2019

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	2.615	8	0.989	0.79	0.768	25.76	36.49	71920	73980	101880	104800	1.20	8.0	15.0	
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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

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

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

Client Reference: VA/23/93

SOM Lab

Ref: 94(Page-1/1)

Dated: 07-01-2019

Dated: 08-01-2019

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	1.489	6	0.747	0.44	0.438	14.83	19.62	74350	74680	98360	98810	1.40	8.0	17.5	
2	1.497	6	0.748	0.44	0.440	15.70	19.98	78690	78690	100150	100150	1.50	8.0	18.8	
3	0.659	4	0.497	0.20	0.194	6.52	8.77	71940	74170	96670	99660	1.10	8.0	13.8	
4	0.652	4	0.494	0.20	0.192	6.52	8.82	71940	74940	97230	101290	1.10	8.0	13.8	
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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

Farhan Sajid
Resident Engineer, MASCON Associates, Lahore

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

Client Reference: MASC-RE/PG/18/5031

SOM Lab

Ref: 95 (Page-1/1)

Dated: 08-01-2019

Dated: 08-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Mughal 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	2.695	8	1.004	0.79	0.792	28.34	37.26	79120	78920	104010	103750	1.50	8.0	18.8	
2	2.662	8	0.998	0.79	0.782	28.54	37.26	79680	80500	104010	105080	1.30	8.0	16.3	
3	1.444	6	0.735	0.44	0.424	14.12	17.02	70770	73440	85330	88550	1.40	8.0	17.5	
4	1.440	6	0.734	0.44	0.423	13.07	16.11	65510	68140	80730	83980	1.20	8.0	15.0	
5	0.649	4	0.493	0.20	0.191	6.27	8.10	69130	72390	89370	93580	1.00	8.0	12.5	
6	0.652	4	0.494	0.20	0.192	6.22	8.12	68570	71430	89590	93320	1.10	8.0	13.8	
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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

Medical Superintendent,
Nishtar Hospital Multan

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

Client Reference: 71946/NH

SOM Lab

Ref: 96(Page-1/1)

Dated: 26-12-2018

Dated: 08-01-2019

Test: Tension 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	1.660	6	0.788	0.44	0.488	16.18	20.66	81090	73110	103570	93380	1.50	8.0	18.8	
2	1.657	6	0.787	0.44	0.487	16.16	22.19	80990	73170	111230	100500	1.50	8.0	18.8	
3	0.671	4	0.501	0.20	0.197	6.75	8.92	74420	75550	98360	99860	1.20	8.0	15.0	
4	0.677	4	0.503	0.20	0.199	6.93	8.97	76440	76820	98920	99420	1.00	8.0	12.5	
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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

Ch Abdul Ghafoor
Resident Engineer, (PEPAC) W. W. C. Kasur

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

Client Reference: RE/PEPAC/wwck/p-h/70

SOM Lab

Ref: 97(Page-1/1)

Dated: 07-01-2019

Dated: 08-01-2019

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	1.021	5	0.618	0.31	0.300	9.50	13.51	67590	69850	96090	99300	1.10	8.0	13.8	
2	1.027	5	0.620	0.31	0.302	9.94	13.46	70710	72580	95730	98270	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 5	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