

Syed Khurram Abbas

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

Managing Partner Rohaan Construction.(Const Of Buldg at Descon Oxychem Ltd 15-Km.Lahore)

1914 (Page-

Client Reference: RECON/132/Misc-005

SOM Lab Ref: 1/1)

Dated: 10-03-2023

Dated: 13-03-2023

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 200 mm

Sample Type: MS Def 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.216	20	18.95	314	282	150.70	186.70	480	535	595	663	32.5	200	16.3	
2	0.994	12	12.70	113	127	70.20	86.20	621	555	763	681	32.5	200	16.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
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](http://www.uet-civil.edu.pk)

**Test Performed by:** Dr. S. Asad Ali Gillani

Office of The Executive Engineer  
Highways Division Gujrat.

(Construction of Bridge & Approach Road Over Rainy Nullah Near Village Dhau Sarhalion  
Chohan Barilla Road L=1KM in Distt Gujrat)

**Reference No.:** Nil

**Dated:** 08-03-2023

**SOM Lab Ref:** CED/SOM/1915(Page-1/1)

**Dated:** 13-03-2023

**Test:** Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

**Sample Type:** Elastomeric Bearing Pad (Size 12 x 8 x 3/4 inches)

**TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm <sup>2</sup> )	Elongation at Break(%)
1	7.2 x 2.6	0.78	41.66	423.87	680.0
2	7.8 x 2.6	0.82	40.43	412.30	700.0

**TEAR STRENGTH (AS PER ASTM-D-624)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	13.8 x 2.6	0.29	111.53
2	13.8 x 2.6	0.32	123.07

**- COMPRESSION SET TEST (AS PER ASTM-D-395)**

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.94	2.0

**- HARDNESS TEST (AS PER ASTM-D-2240)**

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	60.6 av

**Test Performed by: Dr. S. Asad Ali Gillani**

Office of The Executive Engineer  
Highways Division Gujrat.

(Construction of Bridge & Approach Road Over Rainy Nullah Near Village Rangpur on Jalalpur  
Sobtian Kotla Road in Distt Gujrat)

**Reference No.:** Nil  
**SOM Lab Ref:** CED/SOM/1916(Page-1/1)

**Dated:** 08-03-2023  
**Dated:** 13-03-2023

**Test:** Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

**Sample Type:** Elastomeric Bearing Pad (Size 16 x12x1-3/4 inches)

**TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm <sup>2</sup> )	Elongation at Break(%)
1	8.3 x 2.8	0.78	33.56	342.24	640.0
2	8.3 x 2.8	0.75	32.27	329.0	600.0

**TEAR STRENGTH (AS PER ASTM-D-624)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	11.8 x 2.7	0.17	62.96
2	11.8 x 2.7	0.20	74.07

**- COMPRESSION SET TEST (AS PER ASTM-D-395)**

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.10	2.98	3.87

**- HARDNESS TEST (AS PER ASTM-D-2240 )**

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	61.0 av

Alif Holdigs  
High rise Buildings in different Cities of Pakistan.

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

Client Reference: Nil

SOM Lab

Ref: 1911 (Page-1/1)

Dated: 13-03-2023

Dated: 13-03-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.673	8	1.000	0.79	0.786	25.08	33.15	70010	70370	92550	93020	1.50	8.0	18.8	
2	2.632	8	0.992	0.79	0.773	24.54	35.63	68500	70010	99460	101650	1.40	8.0	17.5	
3	1.458	6	0.738	0.44	0.428	14.58	18.73	73070	75120	93860	96490	1.50	8.0	18.8	
4	1.467	6	0.741	0.44	0.431	14.68	18.98	73580	75120	95140	97130	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.78	8.63	74750	75890	95210	96660	1.00	8.0	12.5	
6	0.671	4	0.501	0.20	0.197	6.85	8.79	75540	76690	96900	98370	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Raja Muhammad Aqeel  
 Astt Dir. Building Section DHA Gujranwala. (Const Of Villas Block-E)

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

**Client Reference:** 111/3/AD Bldgs/Gen/36

**SOM Lab**

**Ref:** 1912 (Page-1/1)

**Dated:** 13-03-2023

**Dated:** 13-03-2023

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Rafiq Supreme 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.649	4	0.493	0.20	0.191	6.03	9.19	66550	69680	101390	106170	1.20	8.0	15.0	
2	0.651	4	0.493	0.20	0.191	6.09	9.17	67110	70270	101170	105940	1.00	8.0	12.5	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1913 (Page-1/5)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Malik 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.44	10.19	71040	72130	112410	114120	1.00	8.0	12.5	H # 37
2	0.669	4	0.501	0.20	0.197	6.27	9.70	69130	70190	107010	108640	1.00	8.0	12.5	H # 37
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1913 (Page-2/5)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Malik 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.42	10.01	70820	71900	110390	112070	1.00	8.0	12.5	H # 38
2	0.660	4	0.497	0.20	0.194	6.32	9.68	69700	71850	106790	110090	1.00	8.0	12.5	H # 38
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1913 (Page-3/5)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Malik 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.07	9.09	66890	67900	100270	101800	1.10	8.0	13.8	H # 39
2	0.672	4	0.501	0.20	0.197	5.93	9.17	65420	66420	101170	102710	0.90	8.0	11.3	H # 39
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1913 (Page-4/5)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Malik 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.675	4	0.502	0.20	0.198	5.83	8.84	64300	64950	97460	98440	1.20	8.0	15.0	H # 40
2	0.660	4	0.497	0.20	0.194	5.58	8.63	61490	63390	95210	98160	1.30	8.0	16.3	H # 40
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Malik Steel  
Malik Steel Sales Depot Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1913 (Page-5/5)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Malik 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	5.78	8.51	63740	64710	93860	95290	1.20	8.0	15.0	H # 41
2	0.667	4	0.500	0.20	0.196	5.68	8.38	62610	63890	92400	94290	1.10	8.0	13.8	H # 41
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engineer Muhammad Irfan  
Asst Dir Infra. DHA Gujranwala.(Sector L)

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

Client Reference: 111/15/AD/RS/Sec L/189

SOM Lab

Ref: 1917 (Page-1/1)

Dated: 11-03-2023

Dated: 13-03-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	13.76	19.08	68980	69610	95650	96530	1.30	8.0	16.3	
2	1.477	6	0.743	0.44	0.434	13.30	18.01	66680	67600	90290	91530	1.20	8.0	15.0	
3	0.671	4	0.501	0.20	0.197	6.34	8.48	69920	70990	93530	94950	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	6.57	8.72	72510	73240	96110	97080	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Ashraf Ali,RE

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

AZEA Sargodha Residency.(Sargodha Fiasalabad Bypass To Jhal Chakian Via Lhr Rd Bypass)

Client Reference: RE/AZEA/SGD/191

SOM Lab

Ref: 1918 (Page-1/1)

Dated: 02-02-2023

Dated: 13-03-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.681	8	1.002	0.79	0.788	22.94	32.72	64030	64200	91350	91580	1.50	8.0	18.8	
2	2.685	8	1.002	0.79	0.789	22.43	32.42	62610	62690	90500	90610	1.40	8.0	17.5	
3	1.164	5	0.660	0.31	0.342	12.39	15.51	88120	79870	110380	100050	1.30	8.0	16.3	
4	1.161	5	0.659	0.31	0.341	9.58	12.59	68170	61980	89570	81420	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.60	8.94	72730	73840	98580	100080	1.30	8.0	16.3	
6	0.672	4	0.501	0.20	0.197	5.83	8.12	64300	65280	89590	90960	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine 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](http://www.uet-civil.edu.pk)

Sub Divisional officer,

**Test Performed By:** Dr. /Engr. Wasim Abbas

HSD Kotmomin.(Const of Road From Momin to Salim Interchange along With Motorway M-2)

**Client Reference:** 120/K

**SOM Lab**

**Ref:** 1919 (Page-1/1)

**Dated:** 17-02-2023

**Dated:** 13-03-2023

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.717	8	1.008	0.79	0.798	24.31	35.49	67870	67190	99090	98100	1.30	8.0	16.3	
2	2.716	8	1.008	0.79	0.798	24.38	35.60	68070	67390	99380	98380	1.40	8.0	17.5	
3	1.514	6	0.753	0.44	0.445	14.70	19.37	73680	72850	97080	95990	1.40	8.0	17.5	
4	1.511	6	0.752	0.44	0.444	14.29	19.08	71640	70990	95650	94790	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	6.73	8.92	74190	75320	98360	99860	1.30	8.0	16.3	
6	0.673	4	0.502	0.20	0.198	6.75	9.07	74420	75170	100050	101060	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Khalil Ahmad Khoso

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

RE Metroplan-Asian Jv,MCH,Layyah(Estb Of 200 Bedded Mother & Child Hospital(MCH),Layyah)

Client Reference: Metroplan-Asian Jv-MCH-Layyah-RE-158

SOM Lab

Ref: 1920 (Page-1/1)

Dated: 23-10-2022

Dated: 13-03-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.512	6	0.752	0.44	0.444	13.00	19.16	65150	64560	96060	95190	1.30	8.0	16.3	
2	1.510	6	0.752	0.44	0.444	13.25	19.29	66430	65830	96670	95800	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	7.05	9.14	77790	78970	100830	102370	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	6.98	9.09	77000	78170	100270	101800	1.00	8.0	12.5	
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**BEND TEST:**

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

Asif Iqbal

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

Dir Project Ghurkki Trust & Teaching Hospital Lahore.(Const Of Ghurkki Medical and dental College)

Client Reference: Nil

SOM Lab

Ref: 1921 (Page-1/1)

Dated: 09-03-2023

Dated: 13-03-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.618	8	0.990	0.79	0.769	25.81	35.98	72060	74030	100460	103200	1.30	8.0	16.3	
2	1.513	6	0.753	0.44	0.445	17.33	21.02	86860	85890	105360	104170	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.80	9.34	74980	76120	102970	104540	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

