

Test Performed by: .S. Asad Ali Gillani

Riaz Ahmad
GM Nation Technocommercial Services Pvt.Ltd.
Lahore.

Client Reference No.: NTS/DC-Hardness/DC/24
SOM Lab Ref: CED/SOM/3648 (Page 1/1)

Dated: 23-04-2024

Dated: 13-02-2024

Sample Type: Carbon Steel, MS, MS Plate

Test Type: Hardness Test

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Carbon Steel Dia 44mm	HR – 43.33– C
2	MS Dia 3.85mm	HR – 23.5– C

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	MS Plate 1.6mm	HR – 87.66– B

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

Sub Divisional Officer

Khairwala Drainage Sub Div-II Faisalabad.(Const/Rehb Of Government Offices & Residence at Fsd)

Test Performed By: Dr. /Engr. Wasim Abbas

SOM Lab

Client Reference: 223/2-E

Ref: 3640 (Page-1/1)

Dated: 06-02-2024

Dated: 13-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Premium Markhor)

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	1.497	6	0.748	0.44	0.440	15.39	20.29	77160	77160	101680	101680	1.10	8.0	13.8	
2	1.483	6	0.745	0.44	0.436	15.41	20.29	77260	77970	101680	102610	1.20	8.0	15.0	
3	0.662	4	0.498	0.20	0.195	6.95	9.14	76660	78630	100830	103420	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	7.36	9.48	81160	83240	104540	107220	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

M-Ashraf Javaid

Test Performed By: Dr. /Engr. Wasim Abbas

Project Incharge Ijaz Cotton Pvt Ltd.(Ijaz Cotton at 34KM Nabi Baksh Deropur Road Lahore)

Client Reference: MST./COULMN

SOM Lab

Ref: 3641 (Page-1/1)

Dated: 13-02-2024

Dated: 13-02-2024

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	2.666	8	0.998	0.79	0.783	24.52	33.76	68440	69060	94250	95100	1.50	8.0	18.8	
2	2.660	8	0.998	0.79	0.782	24.38	33.54	68070	68770	93630	94590	1.50	8.0	18.8	
3	0.670	4	0.501	0.20	0.197	6.24	8.72	68800	69840	96110	97570	1.30	8.0	16.3	
4	0.682	4	0.505	0.20	0.200	6.32	8.92	69700	69700	98360	98360	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	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

Irfan Masood
Hunza Steel Pvt. Ltd Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3642 (Page-1/1)

Dated: 13-02-2024

Dated: 13-02-2024

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	2.681	8	1.002	0.79	0.788	25.76	35.07	71920	72100	97900	98140	1.60	8.0	20.0	
2	1.478	6	0.743	0.44	0.434	13.76	18.81	68980	69930	94270	95570	1.50	8.0	18.8	
3	0.667	4	0.500	0.20	0.196	6.14	8.99	67670	69050	99150	101170	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Yasir Ahmad
GM-Works FF Steel Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 3643 (Page-1/1)

Dated: 07-02-2024

Dated: 13-02-2024

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	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	1.487	6	0.746	0.44	0.437	14.50	19.54	72660	73160	97950	98620	1.50	8.0	18.8	1
2	1.495	6	0.748	0.44	0.439	14.29	19.39	71640	71800	97180	97410	1.30	8.0	16.3	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Naeem Akhtar

Test Performed By:

Dr. /Engr.

Wasim Abbas

Usman Ibrahim Construction.(Const Of Green International University)

Client Reference: Nil

SOM Lab

Ref:

3644 (Page-1/1)

Dated: 13-02-2024

Dated:

13-02-2024

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	2.674	8	1.000	0.79	0.786	25.28	35.12	70580	70940	98040	98540	1.40	8.0	17.5	
2	2.652	8	0.996	0.79	0.779	25.30	35.07	70630	71630	97900	99280	1.60	8.0	20.0	
3	1.480	6	0.744	0.44	0.435	14.28	18.55	71590	72410	92990	94060	1.40	8.0	17.5	
4	1.483	6	0.745	0.44	0.436	14.12	18.47	70770	71420	92590	93430	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	

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

Engineer Muhammad Irshad
Dy Dir Dev. DHA Gujranwala.(Famil Park,Villas Space)

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

Client Reference: 111/3/AD/Dev/ESAC-05/19

SOM Lab

Ref: 3645 (Page-1/1)

Dated: 02-02-2024

Dated: 13-02-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Markhor 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	0.660	4	0.497	0.20	0.194	5.22	7.67	57560	59340	84530	87150	1.30	8.0	16.3	
2	0.661	4	0.497	0.20	0.194	5.47	7.82	60370	62230	86220	88890	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Mehar Ali Qurashi,RE

Test Performed By: Dr. /Engr. Wasim Abbas

AL HAMRA TOWN Lahore.(Const Of 100,000 Galloons Over Head Water Tank at Al Hamra Town)

Client Reference: ALHM/OHW/1224

SOM Lab

Ref: 3647(Page-1/1)

Dated: 12-02-2024

Dated: 13-02-2024

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	1.522	6	0.754	0.44	0.447	14.44	19.59	72400	71270	98210	96670	1.50	8.0	18.8	
2	0.672	4	0.501	0.20	0.197	6.29	8.82	69360	70410	97230	98720	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Engr. Atif Bashir, MCQ

Test Performed By: Dr. /Engr. Wasim Abbas

EastGate Industries (Pvt) Ltd. Lahore. (Const. Of New Office Building at EGA-2 Gajumatta, Lahore)

Client Reference: Nil

SOM Lab

Ref: 3649 (Page-1/1)

Dated: 13-02-2024

Dated: 13-02-2024

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	2.631	8	0.992	0.79	0.773	23.60	34.93	65880	67330	97530	99670	1.50	8.0	18.8	
2	1.483	6	0.745	0.44	0.436	13.66	18.06	68470	69100	90540	91370	1.40	8.0	17.5	
3	1.021	5	0.618	0.31	0.300	10.86	14.55	77240	79810	103490	106940	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.29	8.72	69360	70410	96110	97570	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Eight Samples Received and Tested</p>
# 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

Luqman Maqsood,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Shahzad Ayub Associates New Metro City Sri Alamgir.(Ghousia Engineering)

Client Reference: SAA-St-Rep-016

SOM Lab

Ref: 3650(Page-1/1)

Dated: 12-02-2024

Dated: 13-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	1.493	6	0.748	0.44	0.439	14.58	18.71	73070	73230	93760	93970	1.30	8.0	16.3	
2	1.504	6	0.750	0.44	0.442	14.80	18.86	74190	73860	94530	94100	1.20	8.0	15.0	
3	0.667	4	0.500	0.20	0.196	7.03	8.69	77560	79150	95770	97730	1.00	8.0	12.5	
4	0.666	4	0.500	0.20	0.196	7.03	8.66	77560	79150	95550	97500	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Luqman Maqsood,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Shahzad Ayub Associates New Metro City Sri Alamgir.(Ghousia Engineering)

Client Reference: SAA-St-Rep-015

SOM Lab

Ref: 3651(Page-1/1)

Dated: 12-02-2024

Dated: 13-02-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (F.F

Gauge Length: 8 inch

Sample Type:

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	2.640	8	0.994	0.79	0.776	24.08	34.20	67220	68430	95480	97200	1.50	8.0	18.8	
2	2.584	8	0.983	0.79	0.759	25.61	34.91	71490	74410	97470	101450	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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