

Test Performed by: S. Asad Ali Gillani

Armughan Khan

Dy.Dir(QCD) WASA,LDA,Lhr.(Manufactring of R.C.C Manhole Covers WASA L.D.A Lahore)
(M/S Shezone Pipe Industies)

Client Reference No.: QCD/963-64

Dated: 01-07-2024

SOM Lab Ref: CED/SOM/4366 (Page 1/1)

Dated: 01-07-2024

Test Type: Tensile Test, Bend Test & Unit Weight Test

Specification: ASTM A-36

Sample Type: MS Angle (2x2x1/4")

Gauge Length: 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	24.0 x 7.40	177.60	62.30	94.70	350.79	533.22	0.60	30.00
2	20.0 x 7.40	148.00	52.50	78.50	354.73	530.41	0.60	30.00
3	MS Angle (2x2x1/4") strip sample, Bend through 180 degrees satisfactorily without any crack							

Weight and Size Test

Sr. No.	Sample Type	Weight (g)	Length (cm)	Length (L1)	Length (L2)	Weight per Unit Area (Kg/m)	Thickness (mm)
1	MS Angle (2x2x1/4")	3096	60.0	51.2	49.30	5.16	7.40

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

Waqas Ahmed Ghumman,PM
High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

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

Client Reference: QC/HQ/CIVIL/220
SOM Lab Ref: CED/SOM/4367 (Page-1/1)

Dated: 01-07-2024
Dated: 01-07-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.949	25	25.31	452	503	242.50	324.50	536	483	717	646	37.5	200	18.8	
2	3.929	25	25.24	452	501	251.50	334.00	556	503	738	668	32.5	200	16.3	
3	1.603	16	16.13	201	204	105.50	137.50	525	517	684	674	25.0	200	12.5	
4	1.559	16	15.90	201	199	101.00	131.70	502	509	655	664	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	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

Tahawar Owais
PM DSG Energy. (Const Of Office Building at 29-M QIE,Lahore)

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

Client Reference: Nil

Dated: 01-07-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4362 (Page-1/1)

Dated: 01-07-2024

ASTM-A-615

Deformed Bar (Hunza 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	1.495	6	0.748	0.44	0.439	14.78	18.73	74090	74260	93860	94080	1.50	8.0	18.8	
2	1.503	6	0.750	0.44	0.442	14.68	18.76	73580	73250	94020	93590	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Assistant Manager (Civil)

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

Civil Works Sub-Div No.2 GEPCO, Gujranwala.(New GEPCO Office Building Shahana Lok Sub Div)

Client Reference: 105-108

SOM Lab

Ref: 4363 (Page-1/1)

Dated: 14-06-2024

Dated: 01-07-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Mughal Suprem)

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	0.671	4	0.501	0.20	0.197	6.88	8.72	75880	77030	96110	97570	1.10	8.0	13.8	
2	0.671	4	0.501	0.20	0.197	6.85	8.77	75540	76690	96670	98140	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Sub-Divisional Officer (Civil)

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

Civil Works Sub-Div No.3 GEPCO, Gujranwala.(Pavment of Kacha Yard Field Store Office)

Client Reference: 108-11

SOM Lab

Ref: 4364 (Page-1/1)

Dated: 24-06-2024

Dated: 01-07-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mehboob 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	0.672	4	0.501	0.20	0.197	9.40	10.27	103640	105220	113200	114920	1.00	8.0	12.5	
2	0.671	4	0.501	0.20	0.197	9.35	10.37	103080	104650	114320	116060	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Armughan Khan

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

Dy.Dir(QCD) WASA,LDA,Lhr.(Manufacturing of R.C.C Manhole Covers WASA L.D.A Lahore)

Client Reference: QCD/961-62

SOM Lab

Ref: 4365 (Page-1/1)

Dated: 01-07-2024

Dated: 01-07-2024

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	0.668	4	0.500	0.20	0.196	6.88	8.74	75880	77430	96340	98300	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Arfan Asif

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

ER NESPAK Lhr.(Const Of Green Building for EMC,EPD and Allied` New Entities Estb Under PGDP)

Client Reference: 4731/MAA/03/51

SOM Lab

Ref: 4368 (P-1/1)

Dated: 01-07-2024

Dated: 01-07-2024

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	2.667	8	0.999	0.79	0.784	26.20	37.16	73140	73700	103730	104520	1.00	8.0	12.5	
2	2.664	8	0.998	0.79	0.783	26.07	37.10	72770	73420	103590	104510	1.10	8.0	13.8	
3	1.480	6	0.744	0.44	0.435	13.25	18.88	66430	67190	94630	95720	1.00	8.0	12.5	
4	1.495	6	0.748	0.44	0.439	13.37	18.91	67040	67190	94780	95000	1.00	8.0	12.5	
5	1.030	5	0.621	0.31	0.303	11.21	14.09	79780	81620	100230	102540	1.00	8.0	12.5	
6	1.022	5	0.618	0.31	0.300	10.81	14.02	76880	79440	99720	103040	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
# 5	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