

Dost Builders
Muzaffargarh.(Sunrays Textile Mills Muzaffar Gharh)

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

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Client Reference: T-01-STML-S

SOM Lab Ref:

Dated: 12-01-2023

Dated:

12-01-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS Def Bar (Naveena 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.728	25	24.59	491	475	229.50	304.50	467	484	620	642	37.5	200	18.8	
2	3.727	25	24.59	491	475	230.50	304.50	469	486	620	642	37.5	200	18.8	
3	1.588	16	16.05	201	202	110.50	140.50	550	547	699	695	30.0	200	15.0	
4	1.592	16	16.07	201	203	111.50	140.70	555	550	700	694	27.5	200	13.8	
5	0.992	12	12.69	113	126	57.00	69.50	504	451	615	550	27.5	200	13.8	
6	0.989	12	12.66	113	126	56.70	69.70	502	451	617	554	25.0	200	12.5	
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BEND TEST:

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

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

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

Client Reference: 111/15/AD/RS/Pkg-2B/1129

SOM Lab

Ref: 1568 (Page-1/1)

Dated: 05-01-2023

Dated: 12-01-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Plain Steel Rungs

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	16.41	24.01	45820	46650	67020	68230	2.50	8.0	31.3	
2	2.729	8	1.011	0.79	0.802	16.26	24.11	45390	44710	67310	66300	2.30	8.0	28.8	
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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

Muhammad Rajab

Test Performed By:

Dr. /Engr. Asad Ali Gillani

ME Kachhi Canal Rem.Works Consults-(KC-06B(3R)Const. Of Main Canal And Distribution System)

Client Reference: KCB(QA/QC)KC-6B(3R)/UET/12

SOM Lab

Ref: 1569 (Page-1/1)

Dated: 09-01-2023

Dated: 12-01-2023

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	2.659	8	0.997	0.79	0.781	25.54	35.58	71290	72110	99320	100460	1.40	8.0	17.5	
2	2.652	8	0.996	0.79	0.779	25.48	35.49	71150	72150	99090	100490	1.20	8.0	15.0	
3	1.446	6	0.736	0.44	0.425	13.46	18.60	67450	69830	93250	96540	1.30	8.0	16.3	
4	1.456	6	0.738	0.44	0.428	13.68	18.73	68570	70490	93860	96490	1.40	8.0	17.5	
5	1.035	5	0.622	0.31	0.304	9.89	13.20	70350	71740	93920	95770	1.30	8.0	16.3	
6	1.022	5	0.618	0.31	0.300	9.53	13.07	67810	70070	92970	96070	1.40	8.0	17.5	
7	0.668	4	0.500	0.20	0.196	6.01	8.21	66320	67680	90490	92340	1.30	8.0	16.3	
8	0.666	4	0.500	0.20	0.196	6.01	8.31	66320	67680	91610	93480	1.40	8.0	17.5	
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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	
# 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

Engr Pervaiz Ahmad,RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

New Vision Engg Consult.Lhr.(Const Of RCC Over H/Water Tank at M-Block Q-E-Azam Industrial Estate)

Client Reference: NVEC/RE/2023/QIE/OHWT/

SOM Lab Ref: 1571 (Page-1/1)

Dated: 11-01-2023

Dated: 12-01-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.510	6	0.752	0.44	0.444	15.70	19.42	78690	77980	97340	96460	1.20	8.0	15.0	
2	1.540	6	0.759	0.44	0.453	14.68	20.10	73580	71470	100760	97870	1.10	8.0	13.8	
3	1.057	5	0.629	0.31	0.311	10.06	13.78	71580	71350	98050	97740	1.40	8.0	17.5	
4	1.056	5	0.628	0.31	0.310	10.57	14.09	75210	75210	100230	100230	1.50	8.0	18.8	
5	0.673	4	0.502	0.20	0.198	6.88	9.19	75880	76640	101390	102420	1.30	8.0	16.3	
6	0.671	4	0.501	0.20	0.197	6.85	9.23	75540	76690	101730	103280	1.20	8.0	15.0	
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BEND TEST:

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

ICON Developers

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Lahore.(Const of Monno Boarding House Building Of Aitchison College)

Client Reference: Nil

SOM Lab

Ref: 1573 (Page-1/1)

Dated: 12-01-2023

Dated: 12-01-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.655	8	0.997	0.79	0.780	25.28	32.42	70580	71480	90500	91660	1.30	8.0	16.3	
2	2.650	8	0.996	0.79	0.779	25.35	32.54	70780	71780	90840	92120	1.20	8.0	15.0	
3	1.461	6	0.739	0.44	0.429	17.30	20.97	86710	88930	105100	107800	1.00	8.0	12.5	
4	1.447	6	0.736	0.44	0.425	16.82	20.25	84310	87280	101530	105110	1.00	8.0	12.5	
5	0.671	4	0.501	0.20	0.197	6.32	8.33	69700	70760	91840	93240	1.20	8.0	15.0	
6	0.661	4	0.497	0.20	0.194	6.03	8.18	66550	68610	90150	92940	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

Ilyas Majeed Sheikh

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Chairman Eagle Developers.(Project Of Galleria Dream Garden,Lahore)

Client Reference: Nil

SOM Lab

Ref:

1574 (Page-1/1)

Dated: 12-01-2023

Dated:

12-01-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.609	8	0.988	0.79	0.767	24.52	35.22	68440	70500	98320	101270	1.40	8.0	17.5	
2	1.527	6	0.756	0.44	0.449	13.48	20.18	67550	66200	101170	99140	1.30	8.0	16.3	
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BEND TEST:

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

Usman Malik
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1575 (Page-1/1)

Dated: 12-01-2023

Dated: 12-01-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.411	6	0.727	0.44	0.415	9.99	16.38	50080	53090	82110	87060	1.40	8.0	17.5	
2	1.336	6	0.707	0.44	0.393	9.60	15.55	48130	53890	77920	87240	1.50	8.0	18.8	
3	0.662	4	0.498	0.20	0.195	4.28	6.68	47210	48430	73630	75520	1.50	8.0	18.8	
4	0.672	4	0.501	0.20	0.197	4.51	6.95	49690	50440	76660	77830	1.40	8.0	17.5	
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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

Test Performed By: Dr. Asad Ali Gillani

Maj Adnan Khalid @
 Dy Dir MTL,
 DHA Lahore.(Const Of Infra Dev Works of Sec-KK(NBPOCHS), DHA Ph-IV(M/S Reliable)

Client Reference: 408/241/Estb/Lab/05/177

Dated: 10-01-2023

SOM Laboratory Reference: CED/SOM/11572(Page-1/2)

Dated: 12-01-2023

Test: Stiffness Test, Tensile Test, & Hoop Tensile Strength

Sample Type: Fiber Glass Blind Pipe (10" Diameter)

Stiffness Test (Parallel Plate Loading Test as per ASTM-D-2412)

(Fiber Glass Pipe 10")

Total Length = 314 mm, External Diameter = 262 mm, Wall Thickness = 7.40 mm

Percentage Reduction in Diameter of Sample	Compression Load, P (kN)	Stiffness (Corrected)			Remarks
		Pipe Stiffness (kN/m ²)	Stiffness Factor (N-m)	Specific Tangential initial Stiffness (N/m ²)	
5%	11.0	2892	889	58856	No Crack Observed

Tensile Test

Sample Type	Size of Sample (mm)	Ultimate Load (kN)	Ultimate Stress (MPa)
Fiber Glass Pipe (10")	16.0 x 7.4	34.70	293.07
Fiber Glass Pipe (10")	16.3 x 7.4	33.50	277.73

Hoop Tensile Test (ASTM-D-2290-04)

Sample Size (mm)				Hoop Tensile Load (kN)	Hoop Stress (MPa)
b ₁	t ₁	b ₂	t ₂		
8.4	7.4	8.5	7.4	37.7	301.45
8.8	7.4	8.6	7.4	38.0	295.12

