

Muhammad Tahir Nazeer

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Dy Manager Civil, Nishat Denim. (Const of Denim Plant Unit-67 Bhikki-Sheikhupura)

1416 (Page-

1/1)

Client Reference: NML/Denim/009

SOM Lab Ref:

Dated: 15-12-2022

Dated:

16-12-2022

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS Def Bar (Ittefaq 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	2.418	20	19.80	314	308	166.50	215.70	530	541	687	701	27.5	200	13.8	
2	2.419	20	19.81	314	308	171.50	220.50	546	557	702	716	27.5	200	13.8	
3	1.585	16	16.04	201	202	111.70	141.50	556	554	704	701	32.5	200	16.3	
4	1.585	16	16.04	201	202	105.70	137.00	526	524	682	679	30.0	200	15.0	
5	0.985	12	12.64	113	126	50.70	74.50	449	404	659	594	35.0	200	17.5	
6	0.998	12	12.72	113	127	49.20	73.00	435	387	646	575	35.0	200	17.5	
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BEND TEST:

20mm	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

Hafiz Ozair Ahmad, Dy Dir(QCD)

Test Performed By: Dr. /Engr. Irfan Ul Hassan

WASA, LDA, Lhr. (Const of Carpet Rd Sewg, PCC, Water Supply & Drain Multan Rd to Marghzar Pulli)

Client Reference: QCD/2511-12

SOM Lab

Ref: 1414 (Page-1/1)

Dated: 14-12-2022

Dated: 16-12-2022

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	1.330	6	0.706	0.44	0.391	10.11	14.93	50690	57040	74860	84240	1.10	8.0	13.8	
2	0.673	4	0.502	0.20	0.198	6.19	7.39	68230	68920	81500	82320	1.30	8.0	16.3	
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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. Naveed Sadiq
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

SOM Lab

Ref: 1415 (Page-1/1)

Dated: 16-12-2022

Dated: 16-12-2022

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	2.711	8	1.007	0.79	0.797	23.85	38.33	66590	66010	107000	106060	1.50	8.0	18.8	
2	2.697	8	1.005	0.79	0.793	23.82	38.12	66510	66260	106430	106030	1.40	8.0	17.5	
3	1.523	6	0.755	0.44	0.448	13.46	19.83	67450	66240	99380	97610	1.30	8.0	16.3	
4	1.520	6	0.754	0.44	0.447	13.37	19.85	67040	65990	99480	97930	1.50	8.0	18.8	
5	0.665	4	0.498	0.20	0.195	6.49	9.07	71610	73440	100050	102610	1.30	8.0	16.3	
6	0.663	4	0.498	0.20	0.195	6.49	9.07	71610	73440	100050	102610	1.20	8.0	15.0	
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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

Muhammad Shafi

Test Performed By: Dr. /Engr. Irfan UI Hassan

Dy. Manager PIEDMC Chunian.(Const And Maintenance Works In Chunian Aqua Business Park)

Client Reference: PIE/CABP/QAQC/MSL/14

SOM Lab

Ref: 1417 (Page-1/1)

Dated: 14-12-2022

Dated: 16-12-2022

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	0.673	4	0.502	0.20	0.198	6.22	8.33	68570	69260	91840	92770	1.20	8.0	15.0	
2	0.677	4	0.503	0.20	0.199	6.17	8.21	68010	68350	90490	90950	1.20	8.0	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Muhammad Irshad
Asst Dir Dev.DHA Gujranwala. (Executive Block)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: 111/15/PM/RS/Exec B/50
Dated: 16-12-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 1418 (Page-1/1)
Dated: 16-12-2022
ASTM-A-615
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.675	4	0.502	0.20	0.198	6.29	8.28	69360	70060	91280	92200	1.30	8.0	16.3	
2	0.672	4	0.501	0.20	0.197	6.24	8.25	68800	69840	90940	92330	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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.Muhammad Zahid Abbas

Test Performed By:

Dr. /Engr. Irfan Ul Hassan

CM Zameen Quadrangle.(Const. Of Zameen Quadrangle at Plot No.49,Gulberg-V Lahore)

Client Reference: ZD/ZQ/GSW/042

SOM Lab

Ref: 1419 (Page-1/1)

Dated: 14-12-2022

Dated: 16-12-2022

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.470	6	0.742	0.44	0.432	14.37	19.34	72050	73380	96930	98720	1.10	8.0	13.8	
2	1.558	6	0.764	0.44	0.458	15.19	20.64	76130	73140	103470	99400	1.30	8.0	16.3	
3	0.667	4	0.500	0.20	0.196	6.07	8.65	66890	68250	95440	97380	1.00	8.0	12.5	
4	0.671	4	0.501	0.20	0.197	6.07	8.74	66890	67900	96340	97800	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

Assistant Engineer

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

Local Govt & Community Dev Civil SD, Swl.(Const Of Shehr-e Khamoshan Model Graveyard, Sahiwal)

Client Reference: AE/LG&CD/SWL/129

SOM Lab

Ref: 1420 (Page-1/1)

Dated: 08-12-2022

Dated: 16-12-2022

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	1.489	6	0.747	0.44	0.438	17.13	20.64	85840	86230	103470	103940	1.20	8.0	15.0	
2	1.498	6	0.748	0.44	0.440	17.35	20.97	86970	86970	105100	105100	1.10	8.0	13.8	
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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

LT.COL © Khalid mahmood Zia

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

RE ACE Arts(Const Works Of Residence Apartments/Building at New Campus Of GC Uni Lhr at KSK)

Client Reference: RE/GCU(KSK)/T-1020/12

SOM Lab

Ref: 1421 (Page-1/1)

Dated: 08-12-2022

Dated: 16-12-2022

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.664	8	0.998	0.79	0.783	25.96	34.45	72480	73130	96190	97050	1.40	8.0	17.5	
2	2.662	8	0.998	0.79	0.782	26.17	34.71	73050	73800	96900	97890	1.50	8.0	18.8	
3	0.675	4	0.502	0.20	0.198	7.59	9.96	83750	84590	109820	110930	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	7.46	9.81	82290	83540	108140	109780	1.10	8.0	13.8	
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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

Muhammad Waris Jan
Asst Manager (QA/QC) EKL Lahore.(PAEC,DG Khan P-6190)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
SOM Lab Ref: CED/SOM/1406(Page-1/1)

Dated: 07-12-2022
Dated: 15-12-2022

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	0.866	13	11.84	133	110	55.50	76.00	418	505	573	691	25.0	200	12.5	
2	0.886	13	11.99	133	113	58.70	77.70	442	521	585	689	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

13mm	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

M Ahmad

Test Performed By:

Dr. /Engr.

Nauman Khurram

Kashmir Art & Steel Muzaffarabad.(Neelam-Jhelum Hydro Power Project)

Client Reference: Nil

Dated: 14-12-2022

SOM Lab Ref: CED/SOM/1407(Page-1/1)

Dated: 15-12-2022

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	3.975	25	25.38	491	506	269.20	344.50	548	533	702	681	32.5	200	16.3	B-2664
2	3.974	25	25.39	491	506	268.30	343.50	547	531	700	679	37.5	200	18.8	B-2664
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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

Awais Mushtaq

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

XEN GE (Air) Lahore.(Rehb Of 101 Building Phase-X at PAF Base Lahore)

Client Reference: 6744/14/E-6

SOM Lab

Ref:

1409 (Page-1/1)

Dated: 17-11-2022

Dated:

15-12-2022

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	27.95	36.60	78030	79750	102170	104410	1.40	8.0	17.5	
2	2.643	8	0.995	0.79	0.777	28.49	35.98	79540	80870	100460	102140	1.30	8.0	16.3	
3	1.549	6	0.761	0.44	0.455	14.68	18.88	73580	71150	94630	91510	1.30	8.0	16.3	
4	1.541	6	0.759	0.44	0.453	14.63	18.91	73320	71220	94780	92060	1.50	8.0	18.8	
5	0.671	4	0.501	0.20	0.197	6.19	8.63	68230	69270	95210	96660	1.30	8.0	16.3	
6	0.676	4	0.503	0.20	0.199	5.78	8.66	63740	64060	95550	96030	1.30	8.0	16.3	
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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

Zahid Mughal
C/O M/S Amanah Noor Residence Wapda Town, Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1410 (Page-1/1)

Dated: 15-12-2022

Dated: 15-12-2022

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	2.593	8	0.985	0.79	0.762	31.80	41.87	88790	92050	116880	121170	1.00	8.0	12.5	
2	1.486	6	0.746	0.44	0.437	13.12	18.78	65760	66210	94120	94760	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

Manohar Lal

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

RE Nespak,Gujrat.(Const Of Service More Flyover To Connect with Industrial Area-II Gujrat)

Client Reference: 103/GF/ML/Lab/25

SOM Lab

Ref: 1411 (Page-1/1)

Dated: 14-12-2022

Dated: 15-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Sheikho 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	14.80	19.01	74190	74360	95290	95510	1.70	8.0	21.3	
2	1.496	6	0.748	0.44	0.440	14.95	18.91	74960	74960	94780	94780	1.80	8.0	22.5	
3	0.669	4	0.501	0.20	0.197	6.03	8.36	66550	67560	92180	93580	1.70	8.0	21.3	
4	0.670	4	0.501	0.20	0.197	6.44	8.94	71040	72130	98580	100080	1.50	8.0	18.8	
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BEND TEST:

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

Sheikh Maqbool Hassan

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE NESPAK Lahore.(Dualization Of Sargodha Khushab Mianwali Road)

Client Reference: RE/4376-E/MH/4d/176

SOM Lab

Ref:

1412(Page-1/1)

Dated: 08-12-2022

Dated:

15-12-2022

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	1.504	6	0.750	0.44	0.442	13.37	18.67	67040	66740	93610	93180	1.60	8.0	20.0	Kamran
2	1.506	6	0.751	0.44	0.443	13.25	18.64	66430	65980	93450	92820	1.50	8.0	18.8	Kamran
3	1.042	5	0.624	0.31	0.306	8.66	12.86	61650	62450	91520	92720	1.40	8.0	17.5	Ravi
4	1.042	5	0.624	0.31	0.306	8.56	12.84	60920	61720	91380	92570	1.30	8.0	16.3	Ravi
5	0.672	4	0.501	0.20	0.197	5.50	8.26	60700	61630	91050	92440	1.20	8.0	15.0	Ravi
6	0.680	4	0.505	0.20	0.200	5.45	8.26	60140	60140	91050	91050	1.10	8.0	13.8	Ravi
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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

Muhammad Irshad
Asst Dir Dev.DHA Gujranwala. (Sector G)

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

Client Reference: 111/15/PM/RS/Pkg- 2B/1063

SOM Lab

Ref: 1413 (Page-1/1)

Dated: 14-12-2022

Dated: 15-12-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Union 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	1.517	6	0.754	0.44	0.446	13.88	18.35	69590	68660	91970	90740	1.30	8.0	16.3	
2	1.514	6	0.753	0.44	0.445	13.51	18.35	67700	66940	91970	90940	1.60	8.0	20.0	
3	0.675	4	0.502	0.20	0.198	6.17	8.02	68010	68700	88470	89360	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	6.12	7.67	67450	68130	84530	85390	1.20	8.0	15.0	
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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