

Aamir Shahzad
Alvi

Test Performed By: Dr. /Engr. Waseem Abbas

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

Client Reference: QC/HQ/CIVIL/102

Dated : 24-05-2023

SOM Lab Ref: CED/SOM/2273(Page-1/2)

Dated : 30-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	2.231	20	19.02	314	284	166.70	200.70	531	587	639	707	27.5	200	13.8	
2	2.192	20	18.86	314	279	147.50	188.70	470	529	601	676	32.5	200	16.3	
3	0.874	12	11.91	113	111	47.20	69.20	417	424	612	622	30.0	200	15.0	
4	0.864	12	11.84	113	110	46.70	70.50	413	425	623	641	30.0	200	15.0	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Aamir Shahzad
Alvi

Test Performed By: Dr. /Engr. Waseem Abbas

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

Client Reference: QC/HQ/CIVIL/101

Dated : 23-05-2023

SOM Lab Ref: CED/SOM/2273(Page-2/2)

Dated : 30-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	3.919	25	25.21	491	499	233.60	330.00	476	469	672	662	35.0	200	17.5	
2	3.912	25	25.19	491	498	236.70	329.00	482	475	670	661	32.5	200	16.3	
3	1.544	16	15.83	201	197	109.70	143.20	546	558	712	728	30.0	200	15.0	
4	1.567	16	15.94	201	200	112.40	145.70	559	564	725	730	30.0	200	15.0	
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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

Engr.Sarfaz
Ahmad

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

Head Of Operations BEMSOL Pvt.Ltd.(StarchPack Greenfield Project At Kasur)

Client Reference: BPL/202206091

Dated : 30-05-2023

SOM Lab Ref: CED/SOM/2280(Page-1/1)

Dated : 30-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	3.941	25	25.28	491	502	297.00	364.20	605	592	742	726	32.5	200	16.3	
2	3.935	25	25.27	491	501	288.20	359.20	587	575	732	717	35.0	200	17.5	
3	2.213	20	18.94	314	282	142.00	186.50	452	504	594	662	35.0	200	17.5	
4	2.211	20	18.94	314	282	141.70	186.00	451	504	592	661	30.0	200	15.0	
5	0.973	12	12.56	113	124	69.00	83.00	610	557	734	670	27.5	200	13.8	
6	0.970	12	12.54	113	124	70.00	84.20	619	567	744	682	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
20mm	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

Metroplan Asian Jv,
Lahore.(Hazrat Hameed-Ud-Din Haahim Surgical Complex.SZMC/Hospital,R.Y.Khan)

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

Client Reference: RE/HHH-SC/AsCE/UET/022

Dated: 28-05-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2272 (Page-1/1)

Dated: 30-05-2023

ASTM-A-615

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.68	8.28	73630	74750	91280	92670	1.20	8.0	15.0	
2	0.674	4	0.502	0.20	0.198	6.70	8.84	73850	74600	97460	98440	1.20	8.0	15.0	
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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 Javed, RE

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

Mascon Associates Jv HA Consulting .(Medical Store Depot, Gurumangat Road Lahore)

Client Reference: HA-MAS/RE/MSD/01

SOM Lab

Ref: 2274 (Page-1/1)

Dated: 15-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 h

Sample Type:

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	2.671	8	1.000	0.79	0.785	24.77	35.39	69160	69600	98810	99440	1.20	8.0	15.0	
2	2.670	8	1.000	0.79	0.785	19.32	28.80	53930	54270	80400	80910	1.10	8.0	13.8	
3	1.508	6	0.751	0.44	0.443	13.40	18.55	67190	66740	92990	92360	1.20	8.0	15.0	
4	1.510	6	0.752	0.44	0.444	13.00	18.30	65150	64560	91720	90890	1.10	8.0	13.8	
5	0.672	4	0.501	0.20	0.197	5.96	8.15	65760	66760	89930	91300	1.00	8.0	12.5	
6	0.670	4	0.501	0.20	0.197	5.96	8.15	65760	66760	89930	91300	1.00	8.0	12.5	
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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

Engr. Muhammad Mohsin
Site Engr. S.Mehboob & Company Lahore.

Test Performed By: Dr. /Engr. Waseem Abbas

Client Reference: 2243-SMC/CarreFour/Lhr/DHA07/04

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2275 (Page-1/2)

Dated: 30-05-2023

ASTM-A-615

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.635	8	0.993	0.79	0.774	23.52	33.15	65650	67010	92550	94460	1.40	8.0	17.5	
2	2.634	8	0.993	0.79	0.774	23.67	33.51	66080	67450	93540	95480	1.50	8.0	18.8	
3	2.663	8	0.998	0.79	0.783	24.54	34.00	68500	69110	94910	95760	1.40	8.0	17.5	
4	1.470	6	0.742	0.44	0.432	14.85	19.95	74450	75830	99990	101850	1.30	8.0	16.3	
5	1.470	6	0.742	0.44	0.432	14.19	19.49	71130	72440	97690	99500	1.30	8.0	16.3	
6	1.472	6	0.743	0.44	0.433	13.48	18.67	67550	68640	93610	95120	1.20	8.0	15.0	
7	0.664	4	0.498	0.20	0.195	6.34	8.66	69920	71710	95550	98000	1.10	8.0	13.8	
8	0.676	4	0.503	0.20	0.199	6.34	8.82	69920	70270	97230	97720	1.00	8.0	12.5	
9	0.659	4	0.497	0.20	0.194	6.42	8.66	70820	73010	95550	98500	1.20	8.0	15.0	
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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	
# 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. Muhammad Mohsin
Site Engr. S.Mehboob & Company Lahore.

Test Performed By: Dr. /Engr. Waseem Abbas

Client Reference: 2244-SMC/CarreFour/Lhr/DHA11/03

SOM Lab

Ref: 2275 (Page-2/2)

Dated: 30-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.680	4	0.505	0.200	0.200	6.14	8.43	67670	67670	92960	92960	1.10	8.0	13.8	
2	0.684	4	0.506	0.200	0.201	6.09	8.46	67110	66780	93300	92840	1.40	8.0	17.5	
3	0.683	4	0.506	0.200	0.201	6.03	8.43	66550	66220	92960	92500	1.00	8.0	12.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested

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

Assistant Project Director

Test Performed By: Dr. /Engr. Waseem Abbas

PMU-SBP National Hockey Stadium Lhr.(Estb Of Rural Sports Facilities at Saidpur Distt Kasur)

Client Reference: APD/PMU/SBP/LHR/23/558

SOM Lab

Ref: 2276 (Page-1/1)

Dated: 22-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	0.661	4	0.497	0.20	0.194	6.88	9.30	75880	78220	102520	105690	1.10	8.0	13.8	
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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

Ali Raza, Project Incharge

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

City Builders Lahore.(The Library Complex,Kinnaid College For Women Lahore)

Client Reference: CB/TEST/01

SOM Lab

Ref: 2277 (Page-1/1)

Dated: 29-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 h

Sample Type:

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	2.494	8	0.966	0.79	0.733	26.71	33.25	74560	80360	92830	10050	1.20	8.00	15.00	
2	2.503	8	0.968	0.79	0.736	26.50	33.23	73990	79420	92770	99580	1.30	8.00	16.03	
3	1.471	6	0.742	0.44	0.432	14.34	18.27	71890	73220	91560	93260	1.30	8.00	16.03	
4	1.475	6	0.743	0.44	0.433	14.27	18.22	71540	72690	91310	92780	1.30	8.00	16.03	
5	0.676	4	0.503	0.20	0.199	7.10	8.97	78350	78740	98920	99420	1.00	8.00	12.05	
6	0.673	4	0.502	0.20	0.198	7.14	8.94	78690	79480	98580	99580	1.00	8.00	12.05	
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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	
# 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. Muddasir Tahir

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

PM Halmore Lahore.(Const. Of Halmore Apartments at Plot No/11 Gulberg-III Lhr)

Client Reference: HPPL/UET/23/05/010

SOM Lab

Ref: 2278 (Page-1/1)

Dated: 30-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Deformed Bar (SJ

Gauge Length: 8 h

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	2.671	8	1.000	0.79	0.785	26.35	33.91	73570	74030	94680	95280	1.20	8.00	15.00	
2	2.651	8	0.996	0.79	0.779	24.23	32.52	67650	68600	90780	92060	1.30	8.00	16.30	
3	1.428	6	0.731	0.44	0.420	14.73	18.40	73830	77350	92230	96620	1.20	8.00	15.00	
4	1.428	6	0.731	0.44	0.420	14.70	18.30	73680	77190	91720	96080	1.30	8.00	16.30	
5	0.672	4	0.501	0.20	0.197	7.08	8.33	78130	79320	91840	93240	1.20	8.00	15.00	
6	0.667	4	0.500	0.20	0.196	6.93	8.23	76440	78000	90720	92570	1.20	8.00	15.00	
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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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/49

SOM Lab

Ref: 2279 (Page-1a/1)

Dated: 24-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.618	8	0.990	0.79	0.769	25.79	35.58	72000	73970	99320	102030	1.30	8.0	16.3	A-727
2	2.617	8	0.990	0.79	0.769	26.91	34.17	75130	77180	95390	98000	1.40	8.0	17.5	A-727
3	2.629	8	0.992	0.79	0.773	25.35	32.26	70780	72330	90070	92050	1.40	8.0	17.5	A-730
4	2.601	8	0.986	0.79	0.764	28.13	36.11	78550	81220	100800	104230	1.30	8.0	16.3	B-3777
5	2.674	8	1.000	0.79	0.786	26.47	34.07	73910	74280	95110	95590	1.40	8.0	17.5	B-3777
6	2.649	8	0.995	0.79	0.778	28.03	35.93	78260	79470	100320	101860	1.30	8.0	16.3	B-3792
7	1.497	6	0.748	0.44	0.440	14.88	19.39	74600	74600	97180	97180	1.20	8.0	15.0	A-211
8	1.482	6	0.745	0.44	0.436	14.50	18.93	72660	73330	94880	95760	1.20	8.0	15.0	A-211
9	1.492	6	0.747	0.44	0.438	14.55	19.08	72910	73250	95650	96090	1.30	8.0	16.3	B-7951
10	1.495	6	0.748	0.44	0.439	15.41	19.64	77260	77430	98460	98690	1.10	8.0	13.8	B-7951

BEND TEST:

Sr # (1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Sixteen Samples Received and Tested
Sr # (3)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr # (4-5)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr # (6)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr # (7-10)	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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/49

SOM Lab

Ref: 2279 (Page-1b/1)

Dated: 24-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.629	8	0.992	0.79	0.773	26.88	34.51	75050	76700	96330	98450	1.60	8.0	20.0	B-3685
2	2.606	8	0.988	0.79	0.766	26.68	34.10	74480	76810	95190	98180	1.30	8.0	16.3	B-3685
3	1.487	6	0.746	0.44	0.437	16.46	21.22	82520	83090	106380	107110	1.30	8.0	16.3	B-3910
4	1.487	6	0.746	0.44	0.437	15.95	21.12	79970	80510	105870	106600	1.30	8.0	16.3	B-3910
5	1.180	6	0.665	0.44	0.347	14.75	19.27	73940	93750	96570	122450	1.10	8.0	13.8	D-8020
6	1.493	6	0.748	0.44	0.439	15.36	19.69	77000	77180	98720	98940	1.30	8.0	16.3	D-8020
7	1.031	5	0.621	0.31	0.303	10.52	13.81	74840	76570	98270	100540	1.20	8.0	15.0	A-538
8	1.036	5	0.622	0.31	0.304	10.70	13.91	76150	77650	98990	100950	1.10	8.0	13.8	A-538
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
# 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

Syed Mubashar Hassan

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

RE NESPAK.(Dualization Of Rd From Salam To Sargodha Via Bhalwal Ajnala Rd L 47.00Km)

Client Reference: 4376/SMH/23/3794

SOM Lab

Ref: 2281 (Page-1/1)

Dated: 30-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.688	8	1.003	0.799	0.790	25.71	34.32	71770	71770	95820	95820	1.50	8.0	18.8	
2	2.674	8	1.000	0.799	0.786	25.50	34.17	71200	71570	95390	95880	1.40	8.0	17.5	
3	1.536	6	0.758	0.444	0.451	13.63	18.88	68320	66650	94630	92320	1.40	8.0	17.5	
4	1.546	6	0.760	0.444	0.454	13.51	18.81	67700	65620	94270	91360	1.40	8.0	17.5	
5	1.032	5	0.621	0.311	0.303	10.09	13.35	71800	73460	95000	97200	1.40	8.0	17.5	
6	1.030	5	0.621	0.311	0.303	9.91	13.20	70490	72120	93920	96090	1.30	8.0	16.3	
7	0.680	4	0.505	0.200	0.200	7.00	8.79	77230	77230	96900	96900	1.10	8.0	13.8	
8	0.671	4	0.501	0.200	0.197	7.19	9.02	79250	80460	99480	101000	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Qasiser Nadeem

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

A/XEN E&M GE (Air) Rafiqui.(Const Of Admin Block in Medical SQN at PAF Base Rafiqui)

Client Reference: 66901/17/E-6

SOM Lab

Ref: 2282 (Page-1/1)

Dated: 26-05-2023

Dated: 30-05-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.528	6	0.756	0.444	0.449	13.05	21.02	65400	64090	105360	103250	1.30	8.0	16.3	
2	1.530	6	0.757	0.444	0.450	13.05	21.05	65400	63950	105510	103170	1.20	8.0	15.0	
3	1.040	5	0.624	0.311	0.306	9.40	15.06	66870	67740	107120	108520	1.00	8.0	12.5	
4	1.041	5	0.624	0.311	0.306	9.48	15.06	67450	68330	107120	108520	1.10	8.0	13.8	
5	0.652	4	0.494	0.200	0.192	6.47	10.01	71380	74360	110390	114990	1.00	8.0	12.5	
6	0.658	4	0.496	0.200	0.193	6.57	10.06	72510	75140	110950	114970	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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