Engineer In Charge **Test Performed By:** **Dr. /Engr.** S Asad Ali Gillani

Panjab Model Bazar, Pakpatan, Management Company,

Client Reference: CSI/MB/2/PAKPTN/NMB/CONS/NA **Dated:** 28-04-2021

SOM Lab Ref: CED/SOM/4267 (Page-1/1) **Dated:** 28-04-2021

Test: Tension Test **Test Specification:** ASTM-F-1554

Sample Type: J - BOLT **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	2.419	20	19.80	314	308	158.00	232.00	503	513	738	754	17.5	200	8.8	
2	2.450	20	19.93	314	312	155.70	227.00	496	499	723	728	12.5	200	6.3	
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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 Khalid Zaman **Test Performed By:** **Dr. /Engr.** S Asad Ali Gillani

Resident Engineer, Engineering Consultancy Services Punjab (Pvt) Ltd. Lahore

Client Reference: ECSP/PAPA/CZ-CJ-32 **Dated:** 22-04-2021

SOM Lab Ref: CED/SOM/4270 (Page-1/1) **Dated:** 28-04-2021

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	3.912	25	25.18	491	498	240.70	367.50	490	484	749	738	30.0	200	15.0	
2	3.930	25	25.25	491	501	240.20	368.50	489	480	751	736	27.5	200	13.8	
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BEND TEST:

25mm	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

Talha Khalid Khan
A/XEN E & M, GE (AIR) Rafiqui

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

Client Reference: 6371/65/E-6
Dated: 27-04-2021

SOM Lab Ref: 4260(Page-1/1)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
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	1.514	6	0.753	0.44	0.445	16.08	19.34	80580	79670	96930	95840	1.40	8.0	17.5	
2	1.503	6	0.750	0.44	0.442	16.00	19.47	80220	79860	97590	97150	1.50	8.0	18.8	
3	0.586	4	0.468	0.20	0.172	6.88	7.87	75880	88230	86780	100910	1.10	8.0	13.8	
4	0.596	4	0.472	0.20	0.175	7.03	7.97	77560	88640	87910	100460	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Khalid Mahmood **Test Performed By:** **Dr. /Engr.** M Irfan Ul Hassan

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Client Reference: 4161/RE/SFMKB/DGK/316 **SOM Lab Ref:** 4261(Page-1/1)

Dated: 25-04-2021 **Dated:** 28-04-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **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	2.662	8	0.998	0.79	0.782	25.99	34.83	72570	73310	97240	98240	1.40	8.0	17.5	
2	2.661	8	0.998	0.79	0.782	26.30	34.96	73420	74170	97610	98610	1.40	8.0	17.5	
3	1.499	6	0.749	0.44	0.441	13.20	19.39	66170	66020	97180	96960	1.30	8.0	16.3	
4	1.506	6	0.751	0.44	0.443	13.35	19.57	66940	66480	98100	97440	1.50	8.0	18.8	
5	0.676	4	0.503	0.20	0.199	6.42	8.51	70820	71180	93860	94330	1.20	8.0	15.0	
6	0.677	4	0.503	0.20	0.199	6.63	8.58	73070	73440	94650	95130	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Dy Dir MTL, Const. of Screening Chamber, Sector - Q, Ph -VII (Rahbar Sector) (M/S DHA - C)

Client Reference: 408/241/E/Lab/66/01/BW **SOM Lab Ref:** 4262(Page-2/2)

Dated: 27-04-2021 **Dated:** 28-04-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Saeed Kasur 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	7.95	11.26	87680	88570	124210	125470	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	8.00	11.23	88240	89590	123870	125760	0.90	8.0	11.3	
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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

Maj Adnan khalid®

Test Performed By: **Dr. /Engr.** Nauman Khurram

Dy Dir MTL, Const. of Screening Chamber, Sector - Q, Ph -VII (Rahbar Sector) (M/S DHA - C)

Client Reference: 408/241/E/Lab/66/01/Q

Dated: 27-04-2021

SOM Lab Ref: 4262(Page-1/2)

Dated: 28-04-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Saeed Kasur 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	0.676	4	0.503	0.20	0.199	7.97	11.26	87910	88350	124210	124840	1.00	8.0	12.5	
2	0.680	4	0.505	0.20	0.200	7.90	11.16	87120	87120	123090	123090	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

Sub Divisional Officer,(Buildings)
Sub Division Ferozwala

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: 1014/F
Dated: 19-04-2021

SOM Lab Ref: 4263(Page-2/2)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	26.47	34.78	73910	74280	97100	97590	1.40	8.0	17.5	
2	2.676	8	1.000	0.79	0.786	26.52	34.83	74050	74430	97240	97740	1.30	8.0	16.3	
3	0.669	4	0.501	0.20	0.197	6.70	9.14	73850	74980	100830	102370	1.40	8.0	17.5	
4	0.670	4	0.501	0.20	0.197	6.68	9.12	73630	74750	100610	102140	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Sub Divisional Officer,(Buildings)
Sub Division Ferozwala

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: 1012/F
Dated: 19-04-2021

SOM Lab Ref: 4263(Page-1/2)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	1.525	6	0.755	0.44	0.448	14.19	18.93	71130	69860	94880	93190	1.40	8.0	17.5	
2	1.515	6	0.753	0.44	0.445	14.17	18.93	71020	70230	94880	93820	1.40	8.0	17.5	
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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

Assistant Director -II **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Building Research Station, C & W, Department, Govt. of Punjab, Lahore

Client Reference: 154-R/1069 **SOM Lab Ref:** 4264(Page-1/1)

Dated: 27-04-2021 **Dated:** 28-04-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **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	2.637	8	0.993	0.79	0.775	26.47	34.37	73910	75340	95960	97820	1.10	8.0	13.8	
2	1.499	6	0.749	0.44	0.441	15.51	21.38	77770	77590	107150	106900	1.00	8.0	12.5	
3	0.678	4	0.503	0.20	0.199	6.80	8.94	74980	75360	98580	99080	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210428-32
Dated: 28-04-2021

SOM Lab Ref: 4265(Page-1/1)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar(Moiz 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	2.686	8	1.002	0.79	0.789	26.30	35.70	73420	73520	99660	99790	1.40	8.0	17.5	
2	2.678	8	1.001	0.79	0.787	27.01	35.49	75420	75700	99090	99470	1.50	8.0	18.8	
3	2.570	8	0.980	0.79	0.755	25.28	35.22	70580	73850	98320	102880	1.60	8.0	20.0	
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BEND TEST:

# 8	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210428
Dated: 28-04-2021

SOM Lab Ref: 4266(Page-1/1)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar(Moiz 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	2.687	8	1.003	0.79	0.790	23.96	35.42	66880	66880	98890	98890	1.90	8.0	23.8	
2	2.675	8	1.000	0.79	0.786	23.75	35.60	66310	66650	99380	99880	1.60	8.0	20.0	
3	2.676	8	1.000	0.79	0.786	23.87	35.37	66650	66990	98750	99250	1.50	8.0	18.8	
4	0.666	4	0.500	0.20	0.196	6.42	8.72	70820	72270	96110	98070	1.30	8.0	16.3	
5	0.665	4	0.498	0.20	0.195	6.63	8.79	73070	74940	96900	99380	1.40	8.0	17.5	
6	0.674	4	0.502	0.20	0.198	6.73	8.79	74190	74940	96900	97880	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Eight Samples Received and Tested

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

Engineer In Charge **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Panjab Model Bazar, Pakpatan, Management Company,

Client Reference: CSI/MB/2/PAKPTN/NMB/CONS/NA **SOM Lab Ref:** 4267(Page-1/1)

Dated: 28-04-2021 **Dated:** 28-04-2021

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	2.539	8	0.975	0.79	0.746	26.37	34.25	73620	77960	95620	101260	1.20	8.0	15.0	
2	2.532	8	0.973	0.79	0.744	26.27	34.15	73340	77870	95340	101230	1.10	8.0	13.8	
3	1.477	6	0.743	0.44	0.434	18.86	23.01	94530	95830	115320	116920	1.00	8.0	12.5	
4	1.488	6	0.746	0.44	0.437	18.65	22.96	93510	94150	115070	115860	1.10	8.0	13.8	
5	0.660	4	0.497	0.20	0.194	7.14	9.28	78690	81120	102290	105460	1.00	8.0	12.5	
6	0.661	4	0.497	0.20	0.194	7.00	9.19	77230	79620	101390	104530	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 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

Amanat Ali
Dy Director (Engineering), RDA, Govt. Of Punjab,

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: RDA/DD/214/RWP
Dated: 20-04-2021

SOM Lab Ref: 4268 (Page-1/1)
Dated: 28-04-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	0.663	4	0.498	0.20	0.195	5.63	7.82	62050	63640	86220	88430	1.20	8.0	15.0	
2	0.660	4	0.497	0.20	0.194	5.68	7.85	62610	64550	86560	89230	1.20	8.0	15.0	
3	0.670	4	0.501	0.20	0.197	5.81	7.82	64080	65050	86220	87530	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only Four Samples Received and Tested

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

Ass. Project Director **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

PMU-SBP (North), Rawalpindi (Const. of Tehsil Sports Cpmlex Pind Dadan Khan

Client Reference: APD/PMU/SBP/RWP/21/1075 **SOM Lab Ref:** 4269(Page-1/1)

Dated: 17-04-2021 **Dated:** 28-04-2021

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	2.539	8	0.975	0.79	0.746	26.37	34.25	73620	77960	95620	101260	1.20	8.0	15.0	
2	2.532	8	0.973	0.79	0.744	26.27	34.15	73340	77870	95340	101230	1.10	8.0	13.8	
3	1.477	6	0.743	0.44	0.434	18.86	23.01	94530	95830	115320	116920	1.00	8.0	12.5	
4	1.488	6	0.746	0.44	0.437	18.65	22.96	93510	94150	115070	115860	1.10	8.0	13.8	
5	0.660	4	0.497	0.20	0.194	7.14	9.28	78690	81120	102290	105460	1.00	8.0	12.5	
6	0.661	4	0.497	0.20	0.194	7.00	9.19	77230	79620	101390	104530	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Mr Arshad Baig Sb **Test Performed By:** **Dr. /Engr.** M. Yousaf

Charman, Baig Construction Co. (Const. of Madrisa Islami Markaz Raiwind)

Client Reference: nil **SOM Lab Ref:** 4271(Page-1/1)

Dated: 28-04-2021 **Dated:** 28-04-2021

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	0.669	4	0.501	0.20	0.197	5.91	8.97	65200	66190	98920	100430	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