

Engr. Zaheer Ud Din Babar
 Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: HRLE/SKG/2022/040

Dated: 05-07-2022

SOM Lab Ref: CED/SOM/610(Page-1/3)

Dated: 05-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar (AFCCO Steel)

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	3.434	25	23.59	491	437	198.00	311.20	403	454	634	713	45.0	200	22.5	
2	3.700	25	24.50	491	471	180.20	281.20	367	383	573	597	50.0	200	25.0	
3	3.730	25	24.60	491	475	207.00	334.70	422	436	682	705	42.5	200	21.3	
4	3.405	25	23.50	491	434	211.20	324.20	430	487	660	748	42.5	200	21.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
25mm	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. Zaheer Ud Din Babar
 Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: HRLE/SKG/2022/042

Dated: 05-07-2022

SOM Lab Ref: CED/SOM/610(Page-2/3)

Dated: 05-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: MS Deformed Bar (AFCO Steel)

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	4.877	28	28.12	616	621	296.80	450.00	482	478	731	725	37.5	200	18.8	
2	4.727	28	27.69	616	602	290.60	439.00	472	483	713	729	35.0	200	17.5	
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BEND TEST:

28mm	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. Zaheer Ud Din Babar
 Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: HRLE/SKG/2022/041

Dated: 05-07-2022

SOM Lab Ref: CED/SOM/610(Page-3/3)

Dated: 05-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: MS Deformed Bar (AFCO Steel)

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	3.079	22	22.34	380	392	167.50	260.50	441	428	685	665	35.0	200	17.5	
2	3.045	22	22.22	380	388	163.50	257.70	430	422	678	665	25.0	200	12.5	
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BEND TEST:

22mm	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. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

Wasim Abbas

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2022/022

SOM Lab

609 (Page-

Ref:

1/2)

Dated: 05-07-2022

Dated:

05-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Agha 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	1.498	6	0.748	0.44	0.440	14.78	18.25	74090	74090	91460	91460	1.30	8.0	16.3	
2	1.468	6	0.741	0.44	0.431	13.30	18.14	66680	68070	90950	92850	1.30	8.0	16.3	
3	1.478	6	0.743	0.44	0.434	13.40	18.55	67190	68120	92990	94280	1.20	8.0	15.0	
4	1.497	6	0.748	0.44	0.440	15.34	20.00	76900	76900	100250	100250	1.40	8.0	17.5	
5	1.488	6	0.746	0.44	0.437	15.26	19.57	76490	77020	98100	98780	1.20	8.0	15.0	
6	1.519	6	0.754	0.44	0.446	13.51	18.86	67700	66790	94530	93260	1.40	8.0	17.5	
7	0.650	4	0.493	0.20	0.191	6.70	8.79	73850	77330	96900	101460	1.00	8.0	12.5	
8	0.695	4	0.510	0.20	0.204	7.39	9.19	81500	79900	101390	99410	1.10	8.0	13.8	
9	0.692	4	0.508	0.20	0.203	7.10	9.04	78350	77190	99710	98230	1.20	8.0	15.0	
10	0.690	4	0.508	0.20	0.203	7.08	9.02	78130	76970	99480	98010	1.00	8.0	12.5	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 6	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	
# 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. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

Wasim Abbas

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2022/023

SOM Lab

609 (Page-

Ref:

2/2)

Dated: 05-07-2022

Dated:

05-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco 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	1.454	6	0.737	0.44	0.427	21.38	23.41	107150	110410	117370	120940	1.00	8.0	12.5	
2	1.434	6	0.732	0.44	0.421	20.82	23.21	104340	109050	116340	121590	1.00	8.0	12.5	
3	1.446	6	0.736	0.44	0.425	21.41	23.85	107300	111090	119560	123780	0.90	8.0	11.3	
4	1.440	6	0.734	0.44	0.423	20.74	23.01	103980	108160	115320	119960	0.90	8.0	11.3	
5	1.447	6	0.736	0.44	0.425	21.20	23.34	106280	110030	117010	121140	0.80	8.0	10.0	
6	1.446	6	0.736	0.44	0.425	21.15	23.24	106020	109760	116500	120610	0.90	8.0	11.3	
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BEND TEST:

# 6	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	
# 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

Syed Abul Jabbar
GM Engg. Cotton Web Ltd.Lahore.(New Office Building)

Test Performed By: Dr. /Engr. Rizwan Riaz

Client Reference: Nil

SOM Lab Ref: 611 (Page-1/1)

Dated: 05-07-2022

Dated: 05-07-2022

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	2.641	8	0.994	0.79	0.776	22.88	32.74	63890	65040	91410	93060	1.60	8.0	20.0	
2	2.726	8	1.010	0.79	0.801	22.43	32.39	62610	61750	90410	89170	1.30	8.0	16.3	
3	0.663	4	0.498	0.20	0.195	6.90	8.46	76100	78050	93300	95690	1.40	8.0	17.5	
4	0.670	4	0.501	0.20	0.197	6.98	8.56	77000	78170	94420	95860	1.20	8.0	15.0	
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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

Engr. Naveed Sadiq
RE Orbit Developers, Lahore. (The Springs Atrium, Gulberg Lahore)

Test Performed By: Dr. /Engr. Rizwan Riaz

Client Reference: Nil

Dated: 05-07-2022

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

Dated:

ASTM-A-615

Deformed Bar

612 (Page-1/1)

05-07-2022

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	1.493	6	0.748	0.44	0.439	14.85	19.57	74450	74620	98100	98330	1.30	8.0	16.3	
2	1.469	6	0.742	0.44	0.432	13.86	19.78	69490	70780	99130	100960	1.50	8.0	18.8	
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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

Engr.Zahid Nisar Hashmi

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

Head MP.Shaukat Khanum Memorial Trust.(Const.Of Multi-Storied Parking Garage SKMCH&RC,Lhr)

Client Reference: SKM/PG/UET/07/012

SOM Lab 613 (Page-1/1)
Ref: 1/1)

Dated: 05-07-2022

Dated: 05-07-2022

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	2.698	8	1.005	0.79	0.793	22.68	32.62	63320	63080	91070	90720	1.40	8.0	17.5	
2	2.604	8	0.987	0.79	0.765	22.73	32.77	63460	65540	91490	94480	1.30	8.0	16.3	
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BEND TEST:

# 8	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

IDAP Govt. Of Punjab

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

Engr's Representative PFSA Project,(Const.Of Training Lab At Punjab Forensic Science Agency,Lhr)

Client Reference: TE(PFSA)/IDAP/SO/2022/14531

SOM Lab 614 (Page-

Ref: 1/1)

Dated: 04-06-2022

Dated: 05-07-2022

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	2.641	8	0.994	0.79	0.776	25.76	34.35	71920	73210	95900	97630	1.20	8.0	15.0	
2	2.643	8	0.995	0.79	0.777	25.79	34.48	72000	73210	96250	97860	1.40	8.0	17.5	
3	1.511	6	0.752	0.44	0.444	13.30	18.78	66680	66080	94120	93270	1.30	8.0	16.3	
4	1.506	6	0.751	0.44	0.443	13.20	18.91	66170	65720	94780	94140	1.30	8.0	16.3	
5	0.674	4	0.502	0.20	0.198	6.65	9.19	73290	74030	101390	102420	1.10	8.0	13.8	
6	0.678	4	0.503	0.20	0.199	6.65	9.35	73290	73660	103080	103600	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

Ahmed Ejaz

Test Performed By:

Dr. /Engr.

Wasim Abbas

Quantity Surveyor Linker Developers (Pvt) Ltd.(Const Of ETP at US Apparel -1 R)

Client Reference: Nil

SOM Lab

615 (Page-

Ref:

1/1)

Dated: 02-07-2022

Dated:

05-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco 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	2.640	8	0.994	0.79	0.776	27.62	35.34	77120	78510	98660	100440	1.30	8.0	16.3	.
2	1.676	6	0.792	0.44	0.493	19.98	22.88	100150	89380	114710	102380	1.00	8.0	12.5	
3	0.612	4	0.479	0.20	0.180	6.52	7.80	71940	79940	85990	95550	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
# 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 Asif Bajwa

Test Performed By: Dr. /Engr. Wasim Abbas

ARE NESPAK .(Dualization Of Rd From Grw to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/ML/Lab/32

SOM Lab 616 (Page-1/1)
Ref:

Dated: 04-07-2022

Dated: 05-07-2022

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	1.052	5	0.627	0.31	0.309	9.70	13.43	69040	69270	95510	95820	1.50	8.0	18.8	
2	1.059	5	0.629	0.31	0.311	10.72	13.88	76300	76050	98780	98460	1.40	8.0	17.5	
3	0.682	4	0.505	0.20	0.200	7.00	8.94	77230	77230	98580	98580	1.30	8.0	16.3	
4	0.678	4	0.503	0.20	0.199	7.14	8.99	78690	79080	99150	99640	1.30	8.0	16.3	
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BEND TEST:

# 5	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

Ammar Ali

Test Performed By: Dr. /Engr. Wasim Abbas

PO Al-Reheem Developers.(12 M Commercial Plaza Al Raheem Garden Housing Scheme Ph-5 Lhr)

Client Reference: Nil

SOM Lab 617 (Page-1/1)

Dated: 05-07-2022

Dated: 05-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

ASTM-A-615

Deformed Bar (Koh-E-Noor 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	2.546	8	0.976	0.79	0.748	22.05	29.53	61560	65010	82440	87070	1.70	8.0	21.3	
2	2.547	8	0.977	0.79	0.749	22.09	29.71	61670	65050	82960	87500	1.60	8.0	20.0	
3	1.503	6	0.750	0.44	0.442	17.02	21.27	85330	84940	106640	106150	1.70	8.0	21.3	
4	1.514	6	0.753	0.44	0.445	17.30	21.76	86710	85740	109090	107860	1.00	8.0	12.5	
5	0.656	4	0.496	0.20	0.193	6.57	8.41	72510	75140	92740	96100	1.00	8.0	12.5	
6	0.652	4	0.494	0.20	0.192	6.98	8.74	77000	80210	96340	100350	0.90	8.0	11.3	
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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

Ammar Ali

Test Performed By:

Dr. /Engr.

Wasim Abbas

PO Al-Reheem Developers.(Masjid-E-Ruqayyah Royal Enclave,Lahore)

Client Reference: Nil

SOM Lab

618 (Page-

Ref:

1/1)

Dated: 05-07-2022

Dated:

05-07-2022

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	2.690	8	1.004	0.79	0.791	26.50	35.63	73990	73900	99460	99340	1.50	8.0	18.8	
2	2.696	8	1.004	0.79	0.792	26.57	35.73	74190	74000	99750	99490	1.50	8.0	18.8	
3	1.480	6	0.744	0.44	0.435	14.63	18.76	73320	74170	94020	95100	1.60	8.0	20.0	
4	1.479	6	0.744	0.44	0.435	14.39	18.65	72150	72980	93510	94580	1.40	8.0	17.5	
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BEND TEST:

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

Sub Divisional officer,

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

BSD-II D.G Khan.(Estb Of Emergency and OPD Block Teaching Hospital D.G.Khan Group No.1)

Client Reference: 2275 A.D.P No.711 For Year 2021-
22

SOM Lab Ref: 619 (Page-1/1)

Dated: 16-06-2022

Dated: 05-07-2022

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	2.676	8	1.000	0.79	0.786	25.45	35.19	71060	71420	98240	98740	1.40	8.0	17.5	
2	2.670	8	1.000	0.79	0.785	23.72	32.52	66220	66650	90780	91360	1.30	8.0	16.3	
3	1.503	6	0.750	0.44	0.442	14.48	20.80	72560	72230	104230	103760	1.20	8.0	15.0	
4	1.505	6	0.750	0.44	0.442	12.81	19.13	64230	63940	95910	95470	1.20	8.0	15.0	
5	0.671	4	0.501	0.20	0.197	5.93	8.61	65420	66420	94990	96430	1.30	8.0	16.3	
6	0.670	4	0.501	0.20	0.197	6.01	8.53	66320	67330	94090	95520	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

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