

Engr. Zaheer Ud Din Babar

Test Performed By:

Dr. /Engr.

Wasim Abbas

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/024

Dated: 18-05-2022

SOM Lab Ref: CED/SOM/332(Page-1/2)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	3.698	25	24.49	491	471	171.00	250.50	348	364	510	532	52.5	200	26.3	
2	3.659	25	24.36	491	466	210.00	338.70	428	451	690	727	32.5	200	16.3	
3	3.875	25	25.07	491	494	245.50	307.70	500	498	627	624	32.5	200	16.3	
4	3.775	25	24.75	491	481	211.10	345.50	430	439	704	719	35.0	200	17.5	
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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

Test Performed By:

Dr. /Engr.

Wasim Abbas

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/022

Dated: 18-05-2022

SOM Lab Ref: CED/SOM/332(Page-2/2)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	1.539	16	15.80	201	196	0.00	199.50	0	0	992	1018	15.0	200	7.5	
2	1.639	16	16.31	201	209	96.70	152.20	481	464	757	729	27.5	200	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

16mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP-ASE(K-3))

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 1077/02/2022

Dated: 28-02-2022

SOM Lab Ref: CED/SOM/327 (Page-1a/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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	3.823	25	24.90	491	487	240.50	312.20	490	494	636	642	37.5	200	18.8	
2	3.818	25	24.88	491	486	244.00	313.20	497	502	638	645	40.0	200	20.0	
3	3.821	25	24.90	491	487	239.00	310.00	487	491	632	637	37.5	200	18.8	
4	3.817	25	24.88	491	486	240.50	312.50	490	495	637	643	32.5	200	16.3	
5	2.463	20	19.99	314	314	160.50	202.70	511	512	645	647	25.0	200	12.5	
6	2.474	20	20.03	314	315	161.20	204.50	513	512	651	649	30.0	200	15.0	
7	2.459	20	19.97	314	313	159.20	204.00	507	509	649	652	35.0	200	17.5	
8	2.455	20	19.96	314	313	160.00	205.50	509	512	654	658	32.5	200	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP-ASE(K-3))

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

Client Reference: 1077/02/2022

Dated: 28-02-2022

SOM Lab Ref: CED/SOM/327 (Page-1b/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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	0.614	10	9.97	79	78	42.70	49.20	544	548	626	631	22.5	200	11.3	
2	0.619	10	10.02	79	79	50.00	59.50	637	634	758	755	22.5	200	11.3	
3	0.632	10	10.13	79	81	46.70	54.70	595	580	696	680	25.0	200	12.5	
4	0.615	10	9.99	79	78	41.70	49.50	531	533	630	632	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

10mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
10mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP-ASE K-3

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

Client Reference: 1078/03/2022

Dated: 15-03-2022

SOM Lab Ref: CED/SOM/327 (Page-2/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	3.878	25	25.08	491	494	195.70	295.00	399	397	601	598	37.5	200	18.8	
2	3.948	25	25.31	491	503	195.70	296.00	399	390	603	589	40.0	200	20.0	
3	3.927	25	25.24	491	500	196.00	299.00	399	392	609	598	42.5	200	21.3	
4	3.934	25	25.26	491	501	196.00	297.00	399	392	605	593	42.5	200	21.3	
5	2.402	20	19.74	314	306	155.50	201.20	495	509	640	658	32.5	200	16.3	
6	2.418	20	19.80	314	308	152.00	200.00	484	494	637	650	30.0	200	15.0	
7	2.409	20	19.77	314	307	150.00	197.00	477	489	627	643	27.5	200	13.8	
8	2.473	20	20.03	314	315	154.50	196.00	492	491	624	623	30.0	200	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP-Kaftcon K-3)

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

Client Reference: 1079/03/2022

Dated: 29-03-2022

SOM Lab Ref: CED/SOM/327 (Page-3a/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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	4.046	25	25.61	491	515	270.00	335.00	550	525	682	651	37.5	200	18.8	
2	4.026	25	25.55	491	513	260.70	232.70	531	509	474	454	42.5	200	21.3	
3	3.992	25	25.45	491	509	251.70	326.20	513	495	665	642	35.0	200	17.5	
4	4.016	25	25.52	491	512	262.70	339.70	535	514	692	665	40.0	200	20.0	
5	2.358	20	19.56	314	300	150.50	205.70	479	502	655	685	27.5	200	13.8	
6	2.503	20	20.15	314	319	156.50	209.20	498	491	666	657	32.5	200	16.3	
7	2.446	20	19.92	314	312	170.50	212.50	543	548	676	682	35.0	200	17.5	
8	2.404	20	19.75	314	306	158.00	203.70	503	516	648	666	32.5	200	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP-Kaftcon K-3)

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

Client Reference: 1079/03/2022

Dated: 29-03-2022

SOM Lab Ref: CED/SOM/327 (Page-3b/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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	1.565	16	15.92	201	199	102.20	134.00	508	514	666	674	25.0	200	12.5	
2	1.556	16	15.89	201	198	111.00	135.20	552	560	672	682	25.0	200	12.5	
3	1.563	16	15.92	201	199	109.70	135.00	546	552	671	679	30.0	200	15.0	
4	1.544	16	15.82	201	197	88.20	120.20	439	449	598	612	32.5	200	16.3	
5	0.897	12	12.06	113	114	58.70	76.20	519	514	674	668	25.0	200	12.5	
6	0.909	12	12.14	113	116	62.00	78.20	548	536	691	676	27.5	200	13.8	
7	0.901	12	12.09	113	115	60.00	77.00	531	523	681	671	27.5	200	13.8	
8	0.901	12	12.09	113	115	61.00	76.20	539	532	674	665	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Engr. Ejaz Ul Haq (Civil / 44053)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Style Textile (Pvt.)Ltd,Lahore.(Style SAP-Kaftcon K-3

Client Reference: 1079/03/2022

Dated: 29-03-2022

SOM Lab Ref: CED/SOM/327 (Page-3c/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Mughal 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	0.610	10	9.97	79	78	39.00	52.20	497	500	665	670	27.5	200	13.8	
2	0.606	10	9.91	79	77	38.70	52.00	493	502	662	675	30.0	200	15.0	
3	0.608	10	9.93	79	77	40.00	52.00	509	517	662	672	25.0	200	12.5	
4	0.604	10	9.90	79	77	38.70	51.50	493	504	656	670	25.0	200	12.5	
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BEND TEST:

10mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
10mm	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. Ejaz Ul Haq (Civil / 44053)
Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1081/04/2022
SOM Lab Ref: CED/SOM/327 (Page-4a/5)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Mughal Steel) C1

Dated: 25-04-2022
Dated: 18-05-2022
Test Specification: ASTM-A 615
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	2.404	20	19.74	314	306	173.00	215.20	551	566	685	704	32.5	200	16.3	
2	2.408	20	19.76	314	307	171.00	212.70	544	558	677	694	32.5	200	16.3	
3	2.505	20	20.16	314	319	148.50	190.20	473	466	605	597	32.5	200	16.3	
4	2.349	20	19.52	314	299	170.00	208.00	541	569	662	695	30.0	200	15.0	
5	1.569	16	15.95	201	200	90.70	129.00	451	454	642	646	35.0	200	17.5	
6	1.621	16	16.22	201	207	94.50	135.00	470	458	671	654	32.5	200	16.3	
7	1.633	16	16.28	201	208	94.00	135.00	468	452	671	649	30.0	200	15.0	
8	1.573	16	15.97	201	200	92.00	132.00	458	460	657	659	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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. Ejaz Ul Haq (Civil / 44053)
Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1081/04/2022
SOM Lab Ref: CED/SOM/327 (Page-4b/5)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Mughal Steel) C1

Dated: 25-04-2022
Dated: 18-05-2022
Test Specification: ASTM-A 615
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	0.890	12	12.00	113	113	60.00	76.50	531	531	676	677	27.5	200	13.8	
2	0.889	12	12.01	113	113	57.70	75.50	510	510	668	667	27.5	200	13.8	
3	0.888	12	12.00	113	113	57.00	75.50	504	504	668	668	22.5	200	11.3	
4	0.884	12	11.97	113	113	57.20	75.20	506	509	665	668	25.0	200	12.5	
5	0.620	10	10.03	79	79	40.20	49.20	512	509	626	623	30.0	200	15.0	
6	0.613	10	9.97	79	78	41.20	50.70	525	528	646	650	27.5	200	13.8	
7	0.628	10	10.09	79	80	42.30	51.90	539	529	661	649	25.0	200	12.5	
8	0.619	10	10.02	79	79	41.70	52.00	531	530	662	660	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
12mm	Sample bend through 180 degrees Satisfactorily without any crack	
10mm	Sample bend through 180 degrees Satisfactorily without any crack	
10mm	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. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1081/04/2022
SOM Lab Ref: CED/SOM/327 (Page-4c/5)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Mughal Steel) ETP3

Dated: 25-04-2022
Dated: 18-05-2022
Test Specification: ASTM-A 615
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	0.893	12	12.05	113	114	59.20	75.00	523	520	663	658	30.0	200	15.0	
2	0.909	12	12.14	113	116	62.20	77.20	550	538	683	668	32.5	200	16.3	
3	0.897	12	12.06	113	114	61.00	76.00	539	534	672	665	30.0	200	15.0	
4	0.890	12	12.01	113	113	59.00	76.70	522	521	678	677	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

12mm	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

Engr. Ejaz Ul Haq (Civil / 44053)
 Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1081/04/2022

Dated: 25-04-2022

SOM Lab Ref: CED/SOM/327 (Page-4d/5)

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal Steel) ETP3

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	2.578	20	20.44	314	328	165.70	215.70	527	506	687	658	32.5	200	16.3	
2	2.587	20	20.48	314	330	166.00	217.00	528	504	691	659	30.0	200	15.0	
3	2.580	20	20.46	314	329	164.90	215.00	525	502	684	655	30.0	200	15.0	
4	2.598	20	20.53	314	331	166.70	217.00	531	504	691	656	32.5	200	16.3	
5	1.546	16	15.84	201	197	98.20	127.00	488	499	632	645	30.0	200	15.0	
6	1.552	16	15.87	201	198	99.70	128.00	496	505	637	648	35.0	200	17.5	
7	1.560	16	15.91	201	199	99.50	127.50	495	501	634	642	32.5	200	16.3	
8	1.598	16	16.10	201	204	104.70	132.00	521	515	657	649	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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. Ejaz Ul Haq (Civil / 44053)
Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1080/04/2022
SOM Lab Ref: CED/SOM/327 (Page-5a/5)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Naveena Steel)

Dated: 12-04-2022
Dated: 18-05-2022
Test Specification: ASTM-A 615
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	0.620	10	10.03	79	79	49.70	57.50	633	630	732	728	15.0	200	7.5	
2	0.610	10	9.95	79	78	47.20	57.20	601	608	728	737	17.5	200	8.8	
3	0.606	10	9.92	79	77	49.70	57.50	633	644	732	745	15.0	200	7.5	
4	0.610	10	9.95	79	78	50.00	58.00	637	644	738	747	17.5	200	8.8	
5	0.610	10	9.95	79	78	41.00	52.50	522	528	668	676	25.0	200	12.5	
6	0.610	10	9.95	79	78	41.20	51.20	525	530	652	659	22.5	200	11.3	
7	0.610	10	9.95	79	78	40.00	49.50	509	515	630	638	17.5	200	8.8	
8	0.606	10	9.91	79	77	37.70	48.70	480	489	620	631	17.5	200	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

10mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
10mm	Sample bend through 180 degrees Satisfactorily without any crack	
10mm	Sample bend through 180 degrees Satisfactorily without any crack	
10mm	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. Ejaz Ul Haq (Civil / 44053)
Style Textile (Pvt.)Ltd,Lahore.(Style SAP)

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

Client Reference: 1080/04/2022
SOM Lab Ref: CED/SOM/327 (Page-5b/5)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Naveena Steel)

Dated: 12-04-2022
Dated: 18-05-2022
Test Specification: ASTM-A 615
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	0.592	10	9.77	79	75	41.70	52.60	531	556	670	702	25.0	200	12.5	
2	0.594	10	9.82	79	76	40.00	51.00	509	529	649	674	25.0	200	12.5	
3	0.618	10	10.01	79	79	40.70	52.00	518	518	662	661	25.0	200	12.5	
4	0.614	10	9.98	79	78	38.70	49.50	493	495	630	634	25.0	200	12.5	
5	0.616	10	10.00	79	78	39.00	49.70	497	497	633	634	25.0	200	12.5	
6	0.614	10	9.98	79	78	45.20	56.00	576	578	713	716	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

10mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
10mm	Sample bend through 180 degrees Satisfactorily without any crack	
10mm	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

Q-Links Property Const.
Project Manager Q-Links Construction Pvt Ltd Lahore.

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

Client Reference: QCL-UET-2022-05-LTR-006

SOM Lab

Ref: 325 (Page-1/1)

Dated: 16-05-2022

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (SJ

Gauge Length: 8 inch

Sample Type:

Gujjar)

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	2.807	8	1.025	0.79	0.825	28.87	37.38	80590	77180	104360	99930	1.30	8.0	16.3	
2	1.554	6	0.763	0.44	0.457	15.16	19.88	75980	73150	99640	95930	1.40	8.0	17.5	
3	0.688	4	0.507	0.20	0.202	7.51	9.09	82850	82030	100270	99280	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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: 326 (Page-1/1)

Dated: 18-05-2022

Dated: 18-05-2022

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	2.610	8	0.988	0.79	0.767	21.92	31.29	61190	63020	87370	89990	1.20	8.0	15.0	
2	1.506	6	0.751	0.44	0.443	13.71	18.42	68730	68260	92330	91700	1.20	8.0	15.0	
3	0.648	4	0.492	0.20	0.190	5.93	8.46	65420	68870	93300	98210	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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	
# 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

Guarantee Engineers Pvt.Ltd.
PM Shifa Development Svices Faisalabad.

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

Client Reference: SNHF/SDS/ST/01

SOM Lab

Ref: 328 (Page-1/1)

Dated: 18-05-2022

Dated: 18-05-2022

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	1.480	6	0.744	0.44	0.435	13.15	19.27	65910	66670	96570	97680	1.40	8.0	17.5	
2	1.471	6	0.742	0.44	0.432	13.20	19.52	66170	67400	97850	99660	1.40	8.0	17.5	
3	0.691	4	0.508	0.20	0.203	6.14	8.63	67670	66670	95210	93800	1.20	8.0	15.0	
4	0.684	4	0.506	0.20	0.201	6.07	8.56	66890	66550	94420	93960	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

Engr. Zahid Abbas

Test Performed By: Dr. /Engr. Bilal Khokhar

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

Client Reference: ZD/ZQ/GSW/020

SOM Lab

Ref: 329 (Page-1/3)

Dated: 17-05-2022

Dated: 18-05-2022

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	0.655	4	0.494	0.20	0.192	5.66	8.07	62390	64990	89030	92740	1.20	8.0	15.0	
2	0.652	4	0.494	0.20	0.192	5.59	8.00	61600	64170	88240	91920	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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. Zahid Abbas

Test Performed By: Dr. /Engr. Bilal Khokhar

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

Client Reference: ZD/ZQ/GSW/021

SOM Lab

Ref: 329 (Page-2/3)

Dated: 17-05-2022

Dated: 18-05-2022

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	0.655	4	0.494	0.20	0.192	5.56	8.02	61270	63820	88470	92150	1.10	8.0	13.8	
2	0.656	4	0.496	0.20	0.193	6.09	8.31	67110	69540	91610	94940	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. Zahid Abbas

Test Performed By: Dr. /Engr. Bilal Khokhar

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

Client Reference: ZD/ZQ/GSW/022

SOM Lab

Ref: 329 (Page-3/3)

Dated: 18-05-2022

Dated: 18-05-2022

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	1.482	6	0.745	0.44	0.436	13.10	18.88	65660	66260	94630	95500	1.30	8.0	16.3	
2	1.484	6	0.745	0.44	0.436	12.76	18.52	63970	64560	92840	93690	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

Engr. Hassan Mehmood

Test Performed By: Dr. /Engr. Bilal Khokhar

RE G3 Engg Consult.(Const.of DHA Newlife Residency Appartments at 273/1Q Block Ph-II DHA.Lhr)

Client Reference: G3/DHA-NLD/RE/067

SOM Lab

Ref: 330 (Page-1/1)

Dated: 18-05-2022

Dated: 18-05-2022

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	2.715	8	1.008	0.79	0.798	24.11	33.44	67310	66630	93340	92410	1.60	8.0	20.0	
2	2.732	8	1.011	0.79	0.803	24.87	34.35	69440	68320	95900	94350	1.10	8.0	13.8	
3	1.501	6	0.749	0.44	0.441	14.33	19.80	71840	71680	99230	99000	1.30	8.0	16.3	
4	1.494	6	0.748	0.44	0.439	14.29	19.85	71640	71800	99480	99710	1.30	8.0	16.3	
5	0.595	4	0.472	0.20	0.175	5.42	7.75	59800	68350	85430	97640	1.10	8.0	13.8	
6	0.599	4	0.473	0.20	0.176	5.76	7.80	63510	72170	85990	97720	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Akhtar Brigadier ®
 PD New Metro City Housing Scheme, Sara-I-Alamgir

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

Client Reference: PD/NMC/22/101

SOM Lab

Ref: 331 (Page-1/2)

Dated: 17-05-2022

Dated: 18-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (ST 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	1.500	6	0.749	0.44	0.441	14.02	19.29	70260	70100	96670	96450	1.40	8.0	17.5	
2	0.673	4	0.502	0.20	0.198	6.68	9.40	73630	74370	103640	104690	1.00	8.0	12.5	
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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

Muhammad Akhtar Brigadier ®
 PD New Metro City Housing Scheme, Sara-I-Alamgir

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

Client Reference: PD/NMC/22/102
 Dated: 17-05-2022
 Test: Tension Test & Bend Test
 Gauge Length: 8 inch

SOM Lab
 Ref: 331 (Page-2/2)
 Dated: 18-05-2022
 Test Specification: ASTM-A-615
 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	1.557	6	0.764	0.44	0.458	14.58	20.20	73070	70200	101270	97290	1.00	8.0	12.5	
2	0.608	4	0.477	0.20	0.179	5.93	7.65	65420	73100	84310	94200	1.00	8.0	12.5	
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