

Sheikhoo Steel

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Chief Tech Officer, Sheikhoo Sugar Mills, Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

Dated: 13-12-2022

SOM Lab Ref: CED/SOM/1399(Page-1a/1)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo 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	3.888	25	25.11	491	495	235.00	334.70	479	475	682	677	32.5	200	16.3	748
2	3.878	25	25.08	491	494	227.50	331.00	463	461	674	671	35.0	200	17.5	745
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

Client Reference: 1084/05/2022

Dated: 24-05-2022

SOM Lab Ref: CED/SOM/1405 (Page-1a/7)

Dated: 14-12-2022

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	0.546	10	9.44	79	70	36.60	47.20	466	523	601	675	25.0	200	12.5	
2	0.550	10	9.45	79	70	34.70	45.70	442	496	582	653	25.0	200	12.5	
3	0.548	10	9.43	79	70	36.50	45.70	465	523	582	655	25.0	200	12.5	
4	0.558	10	9.51	79	71	41.00	48.20	522	578	614	679	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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, Kraftcon)

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

Client Reference: 1084/05/2022

Dated: 24-05-2022

SOM Lab Ref: CED/SOM/1405 (Page-1b/7)

Dated: 14-12-2022

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	3.828	25	24.93	491	488	224.20	300.20	457	460	612	616	35.0	200	17.5	
2	3.860	25	25.02	491	492	235.00	308.50	479	478	628	628	32.5	200	16.3	
3	3.867	25	25.04	491	493	229.50	304.50	468	466	620	619	32.5	200	16.3	
4	3.828	25	24.92	491	488	230.50	305.50	470	473	622	627	35.0	200	17.5	
5	2.416	20	19.80	314	308	167.50	218.20	533	545	695	710	32.5	200	16.3	
6	2.412	20	19.78	314	307	170.20	219.00	542	554	697	713	32.5	200	16.3	
7	2.416	20	19.80	314	308	173.50	218.70	552	564	696	711	35.0	200	17.5	
8	2.426	20	19.84	314	309	169.00	217.00	538	547	691	703	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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)

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

Client Reference: 1091/08/2022

Dated: 25-08-2022

SOM Lab Ref: CED/SOM/1405 (Page-2a/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal Steel)K3

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	1.002	12	12.77	113	128	63.00	76.70	557	493	678	600	25.0	200	12.5	
2	1.000	12	12.74	113	127	60.50	74.70	535	475	660	587	25.0	200	12.5	
3	0.998	12	12.72	113	127	59.50	73.70	526	469	652	580	25.0	200	12.5	
4	1.002	12	12.75	113	128	61.20	77.00	541	480	681	604	25.0	200	12.5	
5	0.640	10	10.19	79	82	43.70	54.00	556	537	688	663	22.5	200	11.3	
6	0.622	10	10.04	79	79	43.80	54.70	558	553	696	691	25.0	200	12.5	
7	0.622	10	10.04	79	79	45.00	55.20	573	568	703	697	25.0	200	12.5	
8	0.628	10	10.09	79	80	46.70	56.20	595	584	716	703	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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, ASE)

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

Client Reference: 1091/08/2022
SOM Lab Ref: CED/SOM/1405 (Page-2b/7)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Mughal Steel)K3

Dated: 25-08-2022
Dated: 14-12-2022
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	2.418	20	19.80	314	308	172.70	215.70	550	561	687	701	32.5	200	16.3	
2	2.424	20	19.83	314	309	176.20	217.70	561	571	693	706	30.0	200	15.0	
3	2.436	20	19.88	314	310	174.20	218.00	554	562	694	703	32.5	200	16.3	
4	2.412	20	19.78	314	307	162.50	208.50	517	529	664	679	35.0	200	17.5	
5	1.529	16	15.75	201	195	109.50	133.70	545	563	665	687	32.5	200	16.3	
6	1.515	16	15.68	201	193	108.50	132.50	540	563	659	687	35.0	200	17.5	
7	1.529	16	15.75	201	195	112.70	136.00	561	579	676	699	32.5	200	16.3	
8	1.549	16	15.85	201	197	113.00	137.50	562	573	684	697	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, Kraftcon)

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

Client Reference: 1092/08/2022

Dated: 25-08-2022

SOM Lab Ref: CED/SOM/1405 (Page-3a/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Afco Steel)C1

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	1.585	16	16.04	201	202	138.50	160.60	689	686	799	796	27.5	200	13.8	
2	1.583	16	16.02	201	202	134.00	160.00	666	665	796	794	30.0	200	15.0	
3	1.005	12	12.77	113	128	60.20	76.70	532	471	678	600	25.0	200	12.5	
4	0.998	12	12.72	113	127	62.70	77.00	554	494	681	606	32.5	200	16.3	
5	0.995	12	12.71	113	127	61.70	76.70	546	487	678	605	30.0	200	15.0	
6	0.998	12	12.72	113	127	59.70	75.00	528	470	663	591	32.5	200	16.3	
7	0.634	10	10.14	79	81	48.20	60.00	614	597	764	743	27.5	200	13.8	
8	0.644	10	10.22	79	82	45.70	57.70	582	558	735	704	30.0	200	15.0	
9	0.634	10	10.14	79	81	45.50	58.00	579	564	738	719	25.0	200	12.5	
10	0.630	10	10.11	79	80	46.20	57.00	588	576	726	711	27.5	200	13.8	

BEND TEST:

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

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

Client Reference: 1092/08/2022

Dated: 25-08-2022

SOM Lab Ref: CED/SOM/1405 (Page-3b/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Afco Steel)C1

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	3.857	25	25.00	491	491	275.70	361.20	562	562	736	736	32.5	200	16.3	
2	3.859	25	25.02	491	492	276.00	360.20	562	562	734	733	32.5	200	16.3	
3	3.835	25	24.94	491	489	255.70	350.00	521	524	713	717	35.0	200	17.5	
4	3.940	25	25.28	491	502	306.50	383.50	624	611	781	765	32.5	200	16.3	
5	2.416	20	19.80	314	308	165.50	202.50	527	538	645	658	35.0	200	17.5	
6	2.406	20	19.75	314	306	166.70	205.70	531	544	655	672	37.5	200	18.8	
7	2.418	20	19.80	314	308	161.50	200.00	514	525	637	650	35.0	200	17.5	
8	2.410	20	19.77	314	307	167.00	207.20	532	544	660	675	35.0	200	17.5	
9	1.594	16	16.08	201	203	140.00	161.70	696	690	804	797	35.0	200	17.5	
10	1.600	16	16.11	201	204	141.20	160.70	702	693	799	789	30.0	200	15.0	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen 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	
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, Kraftcon)

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

Client Reference: 1093/09/2022

Dated: 08-09-2022

SOM Lab Ref: CED/SOM/1405 (Page-4a/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Afco Steel)C1

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	3.865	25	25.03	491	492	234.00	312.00	477	476	636	635	35.0	200	17.5	
2	3.859	25	25.02	491	492	265.00	375.50	540	540	765	764	32.5	200	16.3	
3	3.877	25	25.08	491	494	269.50	378.20	549	546	770	766	37.5	200	18.8	
4	3.853	25	25.00	491	491	223.70	301.50	456	456	614	615	35.0	200	17.5	
5	2.430	20	19.85	314	310	173.20	219.50	551	560	699	710	30.0	200	15.0	
6	2.436	20	19.88	314	310	167.50	216.50	533	540	689	698	35.0	200	17.5	
7	2.428	20	19.84	314	309	167.20	206.20	532	541	656	667	35.0	200	17.5	
8	2.424	20	19.83	314	309	165.20	205.00	526	535	653	664	37.5	200	18.8	
9	1.602	16	16.12	201	204	124.70	149.70	620	612	745	734	35.0	200	17.5	
10	1.602	16	16.12	201	204	139.50	162.00	694	684	806	794	30.0	200	15.0	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen 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	
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, Kraftcon)

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

Client Reference: 1093/09/2022

Dated: 08-09-2022

SOM Lab Ref: CED/SOM/1405 (Page-4b/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Afco Steel)C1

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	1.600	16	16.12	201	204	119.70	149.50	595	587	744	733	35.0	200	17.5	
2	1.612	16	16.17	201	205	124.00	154.20	617	604	767	752	37.5	200	18.8	
3	0.993	12	12.69	113	127	60.50	73.20	535	479	647	579	35.0	200	17.5	
4	1.002	12	12.75	113	128	62.20	75.70	550	488	669	593	37.5	200	18.8	
5	0.995	12	12.71	113	127	61.20	75.50	541	483	668	596	32.5	200	16.3	
6	1.005	12	12.77	113	128	66.20	77.50	585	518	685	606	30.0	200	15.0	
7	0.732	10	10.89	79	93	36.00	47.00	458	387	598	505	35.0	200	17.5	
8	0.703	10	10.67	79	89	37.00	48.00	471	414	611	537	32.5	200	16.3	
9	0.642	10	10.20	79	82	47.50	59.00	605	581	751	722	35.0	200	17.5	
10	0.638	10	10.17	79	81	46.20	59.00	588	569	751	726	35.0	200	17.5	

BEND TEST:

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

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

Client Reference: 1094/09/2022

Dated: 08-09-2022

SOM Lab Ref: CED/SOM/1405 (Page-5a/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Agha Steel)K3

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	1.009	12	12.82	113	129	58.50	73.20	517	454	647	568	30.0	200	15.0	
2	1.007	12	12.78	113	128	58.00	73.50	513	453	650	573	30.0	200	15.0	
3	1.021	12	12.87	113	130	58.20	73.50	515	448	650	565	32.5	200	16.3	
4	1.005	12	12.77	113	128	58.70	73.20	519	459	647	572	27.5	200	13.8	
5	0.728	10	10.87	79	93	46.70	57.70	595	504	735	623	32.5	200	16.3	
6	0.732	10	10.89	79	93	46.70	57.50	595	501	732	617	27.5	200	13.8	
7	0.737	10	10.94	79	94	43.20	55.00	550	461	700	586	30.0	200	15.0	
8	0.779	10	11.24	79	99	45.50	58.70	579	459	747	592	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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, ASE)

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

Client Reference: 1094/09/2022
SOM Lab Ref: CED/SOM/1405 (Page-5b/7)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Agha Steel)K3

Dated: 08-09-2022
Dated: 14-12-2022
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	3.839	25	24.95	491	489	237.00	315.70	483	485	643	646	30.0	200	15.0	
2	3.930	25	25.25	491	501	251.00	332.70	511	502	678	665	30.0	200	15.0	
3	3.715	25	24.55	491	473	236.70	316.70	482	501	645	670	32.5	200	16.3	
4	3.846	25	24.98	491	490	240.30	321.00	490	491	654	656	30.0	200	15.0	
5	1.646	16	16.34	201	210	113.50	140.00	565	542	696	668	35.0	200	17.5	
6	1.588	16	16.05	201	202	114.50	141.70	569	567	705	701	32.5	200	16.3	
7	1.548	16	15.85	201	197	114.50	142.50	569	581	709	723	32.5	200	16.3	
8	1.588	16	16.05	201	202	121.50	147.20	604	601	732	728	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
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, Kraftcon)

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

Client Reference: 1087/06/2022

Dated: 07-06-2022

SOM Lab Ref: CED/SOM/1405 (Page-6a/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Agha Steel)C1

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	3.925	25	25.23	491	500	237.80	322.70	484	476	657	646	35.0	200	17.5	
2	4.012	25	25.51	491	511	265.00	330.70	540	519	674	648	37.5	200	18.8	
3	4.014	25	25.52	491	511	255.00	326.50	519	499	665	639	35.0	200	17.5	
4	3.988	25	25.43	491	508	267.00	331.00	544	526	674	652	32.5	200	16.3	
5	2.429	20	19.85	314	309	164.70	216.00	524	533	688	698	32.5	200	16.3	
6	2.427	20	19.84	314	309	162.00	214.50	516	524	683	694	30.0	200	15.0	
7	2.417	20	19.80	314	308	163.50	213.00	520	531	678	692	35.0	200	17.5	
8	2.435	20	19.87	314	310	161.00	212.00	512	520	675	684	32.5	200	16.3	
9	1.540	16	15.80	201	196	110.00	138.70	547	561	690	708	35.0	200	17.5	
10	1.582	16	16.02	201	202	120.70	147.20	600	599	732	731	32.5	200	16.3	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen 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	
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, Kraftcon)

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

Client Reference: 1087/06/2022

Dated: 07-06-2022

SOM Lab Ref: CED/SOM/1405 (Page-6b/7)

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Agha Steel)C1

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	1.531	16	15.76	201	195	114.70	147.00	570	589	731	754	32.5	200	16.3	
2	1.539	16	15.80	201	196	115.00	139.50	572	587	694	712	32.5	200	16.3	
3	1.002	12	12.75	113	128	58.70	73.20	519	460	647	574	35.0	200	17.5	
4	0.998	12	12.72	113	127	58.50	73.20	517	461	647	576	32.5	200	16.3	
5	0.993	12	12.69	113	127	66.50	78.70	588	526	696	622	30.0	200	15.0	
6	0.987	12	12.65	113	126	66.00	78.20	584	526	691	623	35.0	200	17.5	
7	0.671	10	10.43	79	85	48.70	57.20	620	570	728	670	30.0	200	15.0	
8	0.682	10	10.52	79	87	47.00	57.50	598	541	732	662	27.5	200	13.8	
9	0.764	10	11.13	79	97	43.70	53.70	556	449	684	552	32.5	200	16.3	
10	0.759	10	11.09	79	97	45.00	55.00	573	466	700	570	30.0	200	15.0	

BEND TEST:

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

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

Client Reference: 1089/06/2022
SOM Lab Ref: CED/SOM/1405 (Page-7a/7)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: 21-06-2022
Dated: 14-12-2022
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	1.561	16	15.92	201	199	109.50	132.00	545	551	657	664	32.5	200	16.3	Naveena Steel
2	1.564	16	15.93	201	199	107.50	131.70	535	540	655	661	30.0	200	15.0	Naveena Steel
3	1.563	16	15.92	201	199	109.50	132.00	545	551	657	664	32.5	200	16.3	Naveena Steel
4	1.578	16	16.00	201	201	107.90	131.70	537	537	655	656	32.5	200	16.3	Naveena Steel
5	0.998	12	12.72	113	127	59.70	75.70	528	470	669	596	32.5	200	16.3	Mughal Steel
6	1.005	12	12.77	113	128	60.20	75.70	532	471	669	592	35.0	200	17.5	Mughal Steel
7	1.014	12	12.82	113	129	58.70	75.20	519	455	665	583	32.5	200	16.3	Mughal Steel
8	1.014	12	12.82	113	129	59.00	75.50	522	457	668	585	30.0	200	15.0	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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)
 Style Textile (Pvt.) Ltd, Lahore. (Style SAP, ASE)

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

Client Reference: 1089/06/2022
SOM Lab Ref: CED/SOM/1405 (Page-7b/7)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: 21-06-2022
Dated: 14-12-2022
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	3.858	25	25.00	491	491	276.70	342.50	564	564	698	698	37.5	200	18.8	Afco Steel
2	3.851	25	24.99	491	491	274.70	341.20	560	560	695	696	37.5	200	18.8	Afco Steel
3	3.864	25	25.03	491	492	275.00	341.70	560	559	696	695	35.0	200	17.5	Afco Steel
4	3.872	25	25.06	491	493	277.00	343.00	564	562	699	696	32.5	200	16.3	Afco Steel
5	2.482	20	20.06	314	316	172.00	218.00	547	544	694	690	35.0	200	17.5	Mughal Steel
6	2.512	20	20.18	314	320	179.00	227.50	570	560	724	712	37.5	200	18.8	Mughal Steel
7	2.455	20	19.95	314	313	175.00	221.00	557	560	703	707	35.0	200	17.5	Mughal Steel
8	2.436	20	19.88	314	310	171.50	218.50	546	553	696	705	37.5	200	18.8	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Aftab

Test Performed By:

Dr. /Engr.

Nauman Khurram

Project Coordinator Banu Mukhtar Contracting(Pvt.) Ltd.(Masjid Ibrahim Gajju Matta)

Client Reference: BML/MAIB/001

SOM Lab

Ref:

1400 (Page-1/1)

Dated: 14-12-2022

Dated:

14-12-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.663	8	0.998	0.79	0.783	27.42	34.20	76550	77240	95480	96330	1.50	8.0	18.8	
2	2.659	8	0.997	0.79	0.781	25.30	33.05	70630	71450	92260	93330	1.60	8.0	20.0	
3	1.492	6	0.747	0.44	0.438	16.02	20.29	80320	80690	101680	102140	1.20	8.0	15.0	
4	1.492	6	0.747	0.44	0.438	16.11	20.31	80730	81100	101780	102250	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 No.6,Lhr.(Office Complex For Directorate General Punjab Probation and Parole Service)

Client Reference: 160/Sd-6th

SOM Lab

Ref: 1401(Page-1/1)

Dated: 18-11-2022

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.672	8	1.000	0.79	0.785	23.06	32.33	64370	64780	90270	90850	1.50	8.0	18.8	
2	2.671	8	1.000	0.79	0.785	23.16	32.38	64660	65070	90380	90960	1.60	8.0	20.0	
3	1.510	6	0.752	0.44	0.444	16.43	20.00	82370	81620	100250	99350	1.30	8.0	16.3	
4	1.507	6	0.751	0.44	0.443	16.28	20.05	81600	81050	100500	99820	1.20	8.0	15.0	
5	0.676	4	0.503	0.20	0.199	6.24	8.31	68800	69140	91610	92080	1.00	8.0	12.5	
6	0.678	4	0.503	0.20	0.199	6.34	8.23	69920	70270	90720	91170	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Awais, Nespak RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

(Const Superv Of Infrastruaction Dev Works Of GEPCO Employees Housing Foundation Gujranwala)

Client Reference: P4265/22/MA/154

SOM Lab

Ref: 1402(Page-1/1)

Dated: 13-12-2022

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	2.697	8	1.005	0.79	0.793	28.19	36.19	78690	78390	101030	100640	1.30	8.0	16.3	
2	2.706	8	1.006	0.79	0.795	28.34	36.26	79120	78620	101230	100590	1.50	8.0	18.8	
3	1.543	6	0.759	0.44	0.453	15.75	19.47	78940	76680	97590	94790	1.20	8.0	15.0	
4	1.535	6	0.758	0.44	0.451	15.55	19.47	77920	76020	97590	95210	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	6.65	8.26	73290	74030	91050	91970	1.20	8.0	15.0	
6	0.672	4	0.501	0.20	0.197	6.42	8.21	70820	71900	90490	91870	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Shifa Developments Services.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Senior Project Manager, Shifa National Hospital, Lahore Skp Road,Faisalabad)

Client Reference: SNHF/SDS/ST/13

SOM Lab

Ref:

1403 (Page-1b/1)

Dated: 14-12-2022

Dated:

14-12-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pak Iron)

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	0.674	4	0.502	0.20	0.198	6.54	8.66	72170	72900	95550	96510	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	6.60	8.69	72730	73840	95770	97230	1.10	8.0	13.8	
3	0.675	4	0.502	0.20	0.198	6.57	8.69	72510	73240	95770	96740	1.00	8.0	12.5	
4	0.672	4	0.501	0.20	0.197	7.00	9.12	77230	78400	100610	102140	1.00	8.0	12.5	
5	0.671	4	0.501	0.20	0.197	6.73	8.89	74190	75320	98020	99510	1.00	8.0	12.5	
6	0.673	4	0.502	0.20	0.198	6.52	8.63	71940	72670	95210	96170	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Shifa Developments Services.

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Senior Project Manager, Shifa National Hospital, Lahore Skp Road, Faisalabad)

Client Reference: SNHF/SDS/ST/13

SOM Lab

Ref: 1403 (Page-1a/1)

Dated: 14-12-2022

Dated: 14-12-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pak Iron)

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	14.70	19.39	73680	72370	97180	95450	1.10	8.0	13.8	
2	1.542	6	0.759	0.44	0.453	15.24	20.05	76390	74200	100500	97620	1.40	8.0	17.5	
3	1.541	6	0.759	0.44	0.453	15.26	20.20	76490	74300	101270	98370	1.20	8.0	15.0	
4	1.524	6	0.755	0.44	0.448	13.88	19.32	69590	68350	96830	95100	1.50	8.0	18.8	
5	1.539	6	0.759	0.44	0.452	13.97	19.52	70000	68140	97850	95250	1.30	8.0	16.3	
6	1.523	6	0.755	0.44	0.448	14.07	19.49	70510	69250	97690	95950	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Test Performed by: Dr. S. Asad Ali Gillani

Nisar Ali
RE (RRWP-II) PEAS Consulting Pvt. Ltd.
(Rawat –Rawalpindi Widening Project-Phase-II Conversion of 02-Lane Lai and swan Bridge to 04-Lane Bridges)

Reference No.: PEAS/NHA/RE/2022/328
SOM Lab Ref: CED/SOM/1397(Page-1/1)

Dated: 12-12-2022
Dated: 14-12-2022

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Elastomeric Bearing Pad

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	7.0 x 1.8	0.45	35.71	364.17	430.0
2	7.0 x 1.8	0.50	39.68	404.64	460.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	10.5 x 1.8	0.25	138.88
2	10.5 x 1.8	0.22	122.22

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.40	2.26	5.83

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	62.66

Test Performed by: Dr. S. Asad Ali Gillani

Nisar Ali
RE (RRWP-II) PEAS Consulting Pvt. Ltd.
(Rawat –Rawalpindi Widening Project-Phase-II Conversion of 02-Lane Lai and swan Bridges to 04-Lane Bridges)

Reference No.: PEAS/NHA/RE/2022/329

Dated: 12-12-2022

SOM Lab Ref: CED/SOM/1398(Page-1/1)

Dated: 14-12-2022

Test: Tensile Test, Elongation at Break, Hardness Test & Comp. Set Test

Sample Type: Expansion Joint (Rubber)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	5.0 x 3.0	0.40	26.66	271.92	480.0
2	5.0 x 3.0	0.38	25.33	258.32	460.0

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.20	3.05	4.68

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	45.33

Test Performed by: Dr. Asad Ali Gillani

Engr. Zaheer Ud Din Babar,
Dy.General Manager Projects,
Habib Rafiq Engineering (Pvt.)Ltd,Lahore
(Constructions Of sky Gardens Tower,Lahore)

Client Reference No.: HRLE/SKG/2022/097

Dated: 14-12-2022

SOM Lab Ref: CED/SOM/1404 (Page 1/2)

Dated: 14-12-2022

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler

Tension Test Results

Sr. No.	Bar Size	Area	Ultimate Load	Ultimate stress	Remarks
	(mm)	(mm ²)	kN	(Mpa)	
1	16	201	103.0	512	Steel Bar rapture at threaded portion

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

Test Performed by: Dr. Asad Ali Gillani

Engr. Zaheer Ud Din Babar,
Dy.General Manager Projects,
Habib Rafiq Engineering (Pvt.)Ltd,Lahore
(Constructions Of sky Gardens Tower,Lahore)

Client Reference No.: HRLE/SKG/2022/098

Dated: 14-12-2022

SOM Lab Ref: CED/SOM/1404 (Page 2/2)

Dated: 14-12-2022

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler

Tension Test Results

Sr. No.	Bar Size	Area	Ultimate Load	Ultimate stress	Remarks
	(mm)	(mm ²)	kN	(Mpa)	
1	22	380	210.20	553	Thread Failure

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

