

DELTONS Construction Co.  
Karachi.(Masood Spinning Unit3, Phool Nager.)

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

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/773(Page-1/1)

**Dated:** 19-08-2022

**Dated:** 22-08-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar ( Agha 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.941	25	25.28	491	502	240.50	332.50	490	480	677	663	35.0	200	17.5	
2	3.922	25	25.22	491	500	241.20	332.00	491	483	676	665	32.5	200	16.3	
3	2.524	20	20.24	314	322	155.00	204.00	493	482	649	635	35.0	200	17.5	
4	2.507	20	20.17	314	319	155.20	205.00	494	486	653	642	37.5	200	18.8	
5	1.568	16	15.95	201	200	100.00	125.00	497	501	622	626	32.5	200	16.3	
6	1.575	16	15.98	201	201	99.00	125.50	492	494	624	626	30.0	200	15.0	
7	0.862	12	11.83	113	110	60.50	76.50	535	551	676	697	25.0	200	12.5	
8	0.860	12	11.81	113	110	61.00	76.70	539	557	678	701	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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	
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](http://www.uet-civil.edu.pk)

Usman Ibrahim Construction  
Lahore.(Const Of HIGH-Q Mall at 3-A Gulberg II,Lahore)

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

**Client Reference:** QC/HQ/CIVIL/015  
**SOM Lab Ref:** CED/SOM/775(Page-1/1)  
**Test:** Tension Test & Bend Test  
**Sample Type:** MS Deformed Bar

**Dated:** 22-08-2022  
**Dated:** 22-08-2022  
**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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.760	28	27.78	616	606	311.20	437.00	505	514	710	722	32.5	200	16.3	
2	4.432	28	26.81	616	565	311.00	437.70	505	551	711	776	35.0	200	17.5	
3	3.959	25	25.34	491	504	220.60	320.50	449	438	653	636	32.5	200	16.3	
4	3.889	25	25.11	491	495	220.50	316.50	449	446	645	639	32.5	200	16.3	
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**BEND TEST:**

28mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Mian Muhammad Saleem

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

PM RFL Project, Banu Mukhtar Contracting(Pvt.) Ltd.(Roomi Fabric Ltd,QBP Sheikhpura)

**Client Reference:** Nil

**Dated:** 22-08-2022

**SOM Lab Ref:** CED/SOM/776(Page-1/1)

**Dated:** 22-08-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS Deformed Bar (Moiz 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.033	25	25.58	491	514	231.50	339.70	472	451	692	661	42.5	200	21.3	
2	4.043	25	25.61	491	515	232.20	340.70	473	451	694	662	45.0	200	22.5	
3	2.471	20	20.02	314	315	145.50	208.50	463	463	664	663	40.0	200	20.0	
4	2.466	20	20.00	314	314	145.70	209.70	464	464	667	668	42.5	200	21.3	
5	1.593	16	16.08	201	203	101.00	133.20	502	498	662	657	37.5	200	18.8	
6	1.611	16	16.17	201	205	102.50	137.00	510	500	681	668	37.5	200	18.8	
7	0.898	12	12.07	113	114	53.00	78.20	469	464	691	684	32.5	200	16.3	
8	0.902	12	12.09	113	115	53.50	78.50	473	466	694	684	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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	
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](http://www.uet-civil.edu.pk)

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr. Asad Ali Gillani**

BSD No.1 Rahim Yar Khan.(Const Of Re-const. Of Office And Residence Of Distt. Administration)

**Client Reference:** 146/RYK

**SOM Lab**

**Ref:** 771 (Page-1/1)

**Dated:** 18-08-2022

**Dated:** 22-08-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.685	8	1.002	0.79	0.789	24.89	34.02	69500	69580	94970	95090	1.70	8.0	21.3	
2	1.493	6	0.748	0.44	0.439	14.34	20.20	71890	72060	101270	101500	1.50	8.0	18.8	
3	0.668	4	0.500	0.20	0.196	6.29	8.46	69360	70770	93300	95200	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Sub Divisional officer,  
 BSD Rojhan.(Const Of PS Sabzani Distt. Rajanpur)

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

**Client Reference:** 216/RJ

**SOM Lab**

**Ref:** 772 (Page-1/1)

**Dated:** 15-08-2022

**Dated:** 22-08-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.492	6	0.747	0.44	0.438	14.42	20.08	72300	72630	100660	101120	1.10	8.0	13.8	
2	0.683	4	0.506	0.20	0.201	6.34	8.33	69920	69570	91840	91380	1.00	8.0	12.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Muhammad Imran Hafeez  
Sr. Engineer (Civil), WASO PAEC, BINO Bahawalpur

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

Client Reference: WASO-BINO-21-002

SOM Lab

Ref: 774 (Page-1/1)

Dated: 20-05-2022

Dated: 22-08-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.642	8	0.994	0.79	0.776	18.47	31.77	51570	52500	88700	90310	1.60	8.0	20.0	
2	2.627	8	0.991	0.79	0.772	22.58	34.05	63040	64510	95050	97270	1.60	8.0	20.0	
3	1.590	6	0.771	0.44	0.467	17.89	22.45	89670	84490	112510	106010	1.00	8.0	12.5	
4	1.564	6	0.765	0.44	0.460	15.52	19.75	77820	74440	98970	94670	1.30	8.0	16.3	
5	0.671	4	0.501	0.20	0.197	5.88	8.84	64860	65850	97460	98940	1.40	8.0	17.5	
6	0.682	4	0.505	0.20	0.200	5.88	8.87	64860	64860	97800	97800	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Associated Consulting Engineers  
 RE, ACE.(Estb Of Uni Of Applied Engg And Emerging Tech.  
 Sambrial,Sialkot)

**Test Performed**

**By:**

Dr. /Engr. Asad Ali Gillani

**SOM Lab**

**Ref:**

CED/SOM/778,779

**Client Reference:** UAEET/ACE/2022/03

**Dated:** 19-08-2022

**Dated:**

22-08-2022

**Test:** Tension & Bend Test

**Test Specification:** ASTM-A-615 (AF Steel)

**Guage Length:** 8 inch

**Sample Type:** Deformed 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.674	4	0.502	0.20	0.198	6.85	8.69	75540	76300	95770	96740	1.00	8.0	12.5	
2	0.671	4	0.501	0.20	0.197	6.80	8.77	74980	76120	96670	98140	1.00	8.0	12.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)