

DELTONS Construction Co.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Karachi.(Project: Sapphire Fibers,Dying Unit (Mill Building Extension),Raiwind)

Client Reference: Nil

Dated: 19-07-2022

SOM Lab Ref: CED/SOM/637(Page-1/1)

Dated: 19-07-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type:

MS Deformed Bar

Gauge Length:

200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.727	25	24.59	491	475	199.00	308.00	405	419	627	649	40.0	200	20.0	
2	3.699	25	24.49	491	471	197.00	309.20	401	419	630	657	40.0	200	20.0	
3	2.493	20	20.11	314	318	226.00	256.20	719	712	816	807	37.5	200	18.8	
4	2.473	20	20.03	314	315	228.70	260.20	728	727	828	827	30.0	200	15.0	
5	1.557	16	15.89	201	198	94.20	127.00	469	475	632	641	30.0	200	15.0	
6	1.575	16	15.98	201	201	93.00	123.70	463	464	615	617	30.0	200	15.0	
7	0.899	12	12.07	113	114	65.20	75.70	576	570	669	662	25.0	200	12.5	
8	0.897	12	12.06	113	114	65.50	76.50	579	574	676	670	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Twelve Samples Received and Tested</p>
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

Professional Const.Services
Lahore.(McDonald`s Restaurant At 1-K Gulberg,Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: PCS/22/Eng-68-B
Dated: 19-07-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 638 (Page-1/4)
Dated: 19-07-2022
Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	7.59	9.02	83750	85890	99480	102030	1.00	8.0	12.5	
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BEND TEST:

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

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

Professional Const.Services
Lahore.(McDonald`s Restaurant At 1-K Gulberg,Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: PCS/22/Eng-68-C
Dated: 19-07-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 638 (Page-2/4)
Dated: 19-07-2022
Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.051	5	0.627	0.31	0.309	10.04	12.74	71440	71670	90650	90950	1.40	8.0	17.5	
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BEND TEST:

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

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

Professional Const.Services
Lahore.(McDonald`s Restaurant At 1-K Gulberg,Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: PCS/22/Eng-68-D
Dated: 19-07-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 638 (Page-3/4)
Dated: 19-07-2022
Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.471	6	0.742	0.44	0.432	15.44	18.71	77410	78840	93760	95500	1.10	8.0	13.8	
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BEND TEST:

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

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

Professional Const.Services
Lahore.(McDonald`s Restaurant At 1-K Gulberg,Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: PCS/22/Eng-68-E
Dated: 19-07-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 638 (Page-4/4)
Dated: 19-07-2022
Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.519	8	0.971	0.79	0.740	25.45	34.27	71060	75860	95680	102140	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Usman
Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 639 (Page-1/1)

Dated: 19-07-2022

Dated: 19-07-2022

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	0.548	4	0.453	0.20	0.161	4.84	6.17	53400	66330	68010	84480	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Umair Maqsood

Test Performed By: Dr. /Engr. Wasim Abbas

SDO,BSD,Assembly,Lhr.(Strengthening Of Emergency Services In All Distt Of Punjab)

Client Reference: 482

SOM Lab

Ref: 640 (Page-1/1)

Dated: 04-07-2022

Dated: 19-07-2022

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	2.618	8	0.990	0.79	0.769	22.07	29.26	61610	63300	81680	83910	1.60	8.0	20.0	
2	2.638	8	0.993	0.79	0.775	21.76	29.26	60760	61940	81680	83260	1.40	8.0	17.5	
3	1.482	6	0.745	0.44	0.436	16.16	19.95	80990	81730	99990	100910	1.10	8.0	13.8	
4	1.504	6	0.750	0.44	0.442	16.53	20.15	82880	82500	101020	100560	1.40	8.0	17.5	
5	0.639	4	0.489	0.20	0.188	5.83	7.65	64300	68400	84310	89690	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	6.34	8.51	69920	71710	93860	96270	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

Rana Associates
Lahore.(Plot No 160P Gulberg II Near Mini Market Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 641 (Page-1/1)

Dated: 19-07-2022

Dated: 19-07-2022

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	2.639	8	0.994	0.79	0.776	24.69	34.00	68930	70170	94910	96620	1.20	8.0	15.0	
2	2.659	8	0.997	0.79	0.781	25.40	34.37	70920	71740	95960	97070	1.50	8.0	18.8	
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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

Yasir Ahmad
GM-Works FF Steel Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 642 (Page-1/1)

Dated: 18-07-2022

Dated: 19-07-2022

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	1.036	5	0.622	0.31	0.304	9.76	13.30	69410	70780	94640	96510	1.20	8.0	15.0	LHR 1
2	1.037	5	0.623	0.31	0.305	9.81	13.53	69770	70910	96240	97820	1.20	8.0	15.0	LHR 2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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