

Umair Khaleeq
A M Purchase, Zephyr Textile Ltd. Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: nil
SOM Lab Ref: CED/SOM/70(Page-1/1)

Dated: 02-01-2019
Dated: 02-01-2019

Test: Tension & Bend Test
Sample Type: Deformed Steel Bar

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	2.246	18	19.08	254	286	155.00	206.20	609	542	810	721	25.0	200	12.5	
2	0.992	12	12.69	113	126	67.70	93.70	599	536	828	742	25.0	200	12.5	
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BEND TEST:

18mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Four Samples Received and Tested</p>
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

Deputy Director (QCD)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: QCD/ 2066-67
Dated: 31-12-2018
Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

SOM Lab
Ref: 61 (Page-1/3)
Dated: 02-01-2018

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	0.564	4	0.460	0.20	0.166	5.78	7.34	63740	76790	80940	97510	1.20	8.0	15.0	
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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

Deputy Director (QCD)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: QCD/ 2068-69
Dated: 31-12-2018
Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

SOM Lab
Ref: 61 (Page-2/3)
Dated: 02-01-2019

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	0.570	4	0.462	0.20	0.168	5.73	7.36	63180	75210	81160	96620	1.30	8.0	16.3	
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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

Deputy Director (QCD)
WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: QCD/ 2070-71
Dated: 31-12-2018
Test: Tension Test & Bend Test
Guage Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

SOM Lab
Ref: 61 (Page-3/3)
Dated: 02-01-2019

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	0.566	4	0.460	0.20	0.166	5.66	7.34	62390	75170	80940	97510	1.30	8.0	16.3	
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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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-1/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.666	4	0.500	0.20	0.196	6.47	8.74	71380	72840	96340	98300	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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-2/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.493	6	0.748	0.44	0.439	15.26	20.61	76490	76670	103310	103550	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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-3/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.634	8	0.993	0.79	0.774	27.42	36.03	76550	78140	100600	102680	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-4/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	4.99	7.54	55080	56500	83180	85320	1.50	8.0	18.8	
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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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-5/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.493	6	0.748	0.44	0.439	11.54	18.04	57840	57970	90440	90650	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Muhammad Mubasher
 QA/QC Manager, Madina Steel Casting Mills, Gujranwala

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: ni

SOM Lab

Ref: 64(Page-6/6)

Dated: nil

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.660	8	0.998	0.79	0.782	19.06	30.19	53220	53760	84290	85160	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Agha Hassan Ali
SQNLDR, GE (AIR) Rafiqui

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: 6182/08/E-6
Dated: 28-12-2018
Test: Tension Test
Guage Length: 8 inch

SOM Lab
Ref: 52 (Page-1/1)
Dated: 31-12-2018
ASTM-A-615
Deformed Bar

Test Specification:
Sample Type:

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	2.660	8	0.998	0.79	0.782	19.06	12.69	53220	53760	35430	35800	1.80	8.0	22.5	
2	2.634	8	0.993	0.79	0.774	5.91	7.26	16510	16850	20270	20690	1.40	8.0	17.5	
3	1.493	6	0.748	0.44	0.439	14.88	20.90	74600	74770	104750	104980	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	14.58	20.59	73070	73230	103210	103450	1.20	8.0	15.0	
5	0.662	4	0.498	0.20	0.195	10.75	14.73	118590	121630	162430	166590	1.10	8.0	13.8	
6	0.680	4	0.505	0.20	0.200	10.57	14.53	116570	116570	160180	160180	1.10	8.0	13.8	
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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

Sub Divisional Officer
Buildings Sub Division, Sohawa

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: 244/SOH

SOM Lab

Ref: 67(page-1/1)

Dated: 05--11-2018

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.611	8	0.988	0.79	0.767	25.99	35.60	72570	74750	99380	102360	1.30	8.0	16.3	
2	1.526	6	0.755	0.44	0.448	16.51	20.85	82780	81300	104490	102620	1.10	8.0	13.8	
3	0.632	4	0.487	0.20	0.186	6.70	8.56	73850	79410	94420	101530	1.10	8.0	13.8	
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BEND TEST:

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

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

Abid Sultan
Admin Manager, Variant, 25-t-Gulberg- 2, Lahore

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: VA/23/84

SOM Lab

Ref: 68(Page-1/1)

Dated: 02-01-2019

Dated: 02-01-2019

Test: Tension & Bend Test

Test Specification:

ASTM-A-615

Guage 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	1.484	6	0.745	0.44	0.436	15.60	20.20	78180	78890	101270	102200	1.40	8.0	17.5	
2	1.491	6	0.747	0.44	0.438	15.46	20.13	77510	77870	100910	101370	1.30	8.0	16.3	
3	0.652	4	0.494	0.20	0.192	6.52	8.84	71940	74940	97460	101520	1.10	8.0	13.8	
4	0.653	4	0.494	0.20	0.192	6.47	8.77	71380	74360	96670	100700	1.20	8.0	15.0	
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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

Sub Divisional Officer
Buildings Sub Division, Sohawa

Test Performed By: Dr. /Engr. Amna Rajpoot

Client Reference: 244/SOH

SOM Lab

Ref: 67(page-1/1)

Dated: 05--11-2018

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.611	8	0.988	0.79	0.767	25.99	35.60	72570	74750	99380	102360	1.30	8.0	16.3	
2	1.526	6	0.755	0.44	0.448	16.51	20.85	82780	81300	104490	102620	1.10	8.0	13.8	
3	0.632	4	0.487	0.20	0.186	6.70	8.56	73850	79410	94420	101530	1.10	8.0	13.8	
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BEND TEST:

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

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Amna Rajput

Dy Dir MTL, Const. of Defence Community Club at Sector - K DHA PH-VI -, (M/S MAAKSONS)

Client Reference: 408/241/E/Lab/389/1443

SOM Lab

Ref: 71(Page-1/2)

Dated: 02-01-2019

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Kamran

Gauge Length: 8 inch

Sample Type:

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	2.572	8	0.981	0.79	0.756	24.06	34.81	67160	70180	97190	101560	1.40	8.0	17.5	
2	2.593	8	0.985	0.79	0.762	24.36	34.53	68020	70520	96390	99930	1.30	8.0	16.3	
3	1.485	6	0.745	0.44	0.436	13.25	19.83	66430	67040	99380	100290	1.10	8.0	13.8	
4	1.495	6	0.748	0.44	0.439	13.22	19.75	66270	66420	98970	99200	1.20	8.0	15.0	
5	0.663	4	0.498	0.20	0.195	6.29	8.61	69360	71140	94990	97420	1.40	8.0	17.5	
6	0.661	4	0.497	0.20	0.194	6.17	8.74	68010	70110	96340	99310	1.50	8.0	18.8	
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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

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Amna Rajput

Dy Dir MTL, Const. of Defence Community Club at Sector - K,DHA PH-VI -, (M/S MAAKSONS)

Client Reference: 408/241/E/Lab/388/1449

SOM Lab

Ref: 71(Page-2/2)

Dated: 02-01-2019

Dated: 02-01-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.577	8	0.982	0.79	0.757	26.50	36.62	73990	77220	102220	106680	1.20	8.0	15.0	
2	2.586	8	0.984	0.79	0.760	26.40	36.46	73710	76620	101800	105810	1.20	8.0	15.0	
3	1.466	6	0.741	0.44	0.431	14.88	20.69	74600	76160	103720	105890	1.20	8.0	15.0	
4	1.477	6	0.743	0.44	0.434	15.26	20.39	76490	77550	102190	103600	1.10	8.0	13.8	
5	0.658	4	0.496	0.20	0.193	6.57	8.46	72510	75140	93300	96680	1.00	8.0	12.5	
6	0.656	4	0.496	0.20	0.193	6.60	8.53	72730	75370	94090	97500	1.00	8.0	12.5	
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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