

Maj Nadeem Ur Rehman ®

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer ACES (Pvt.) Ltd Package 3 DHA Multan

Client Reference: RE/Pkg-3/Test/02

Dated: 24-11-2021

SOM Lab Ref: CED/SOM/5372(Page-1/1)

Dated: 26-11-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	0.974	12	12.57	113	124	69.20	86.50	612	559	765	698	30.0	200	15.0	
2	0.993	12	12.69	113	127	70.70	87.70	625	559	775	693	25.0	200	12.5	
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BEND TEST:

12mm	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

Mirza Salman Baig
Lahore

Test Performed By: Dr. /Engr. Asad Gillani

Client Reference: Nil

SOM Lab

Ref: 5366(Page-1/1)

Dated: 26-11-2021

Dated: 26-11-2021

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	1.514	6	0.753	0.44	0.445	11.67	18.40	58510	57850	92230	91190	1.50	8.0	18.8	
2	1.514	6	0.753	0.44	0.445	11.88	18.32	59530	58860	91820	90790	1.40	8.0	17.5	
3	0.674	4	0.502	0.20	0.198	5.66	8.74	62390	63020	96340	97310	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	5.73	8.77	63180	63810	96670	97650	1.10	8.0	13.8	
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BEND TEST:

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

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

Malik Steel
Main PECO Road Badami Bagh Lahore.

Test Performed By: Dr. /Engr. Asad Gillani

Client Reference: Nil

SOM Lab

Ref: 5368(Page-1/1)

Dated: 26-11-2021

Dated: 26-11-2021

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	1.430	6	0.731	0.44	0.420	10.52	16.36	52730	55240	82010	85910	1.50	8.0	18.8	
2	0.569	4	0.461	0.20	0.167	5.12	7.36	56430	67580	81160	97200	1.40	8.0	17.5	
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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

Engr. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

Asad Gillani

PM Union Developers.(Construction Union Luxury Apartments, Etihad Town Lahore.)

Client Reference: UA/SO/2021/06

SOM Lab

Ref:

5369(Page-1/1)

Dated: 25-11-2021

Dated:

26-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	2.587	8	0.984	0.79	0.760	26.40	34.96	73710	76620	97610	101460	1.10	8.0	13.8	
2	2.592	8	0.985	0.79	0.762	26.71	34.76	74560	77300	97040	100610	1.20	8.0	15.0	
3	2.579	8	0.982	0.79	0.758	26.30	34.27	73420	76520	95680	99720	1.30	8.0	16.3	
4	2.591	8	0.984	0.79	0.761	26.30	34.05	73420	76220	95050	98670	1.20	8.0	15.0	
5	0.594	4	0.472	0.20	0.175	6.52	7.67	71940	82220	84530	96610	0.90	8.0	11.3	
6	0.584	4	0.468	0.20	0.172	6.32	7.56	69700	81040	83410	96990	0.80	8.0	10.0	
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BEND TEST:

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

Kashif Riaz

Test Performed By: Dr. /Engr. Asad Gillani

PM Kashif Riaz&Associates Fsd.(Const Of Infra Structure Work Akhuwat Uni Mustfabad Kasur)

Client Reference: 01/Lab/01

SOM Lab

Ref: 5370(Page-1/1)

Dated: 25-11-2021

Dated: 26-11-2021

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	2.696	8	1.004	0.79	0.792	27.14	34.73	75760	75570	96960	96710	1.10	8.0	13.8	
2	2.690	8	1.004	0.79	0.791	27.22	34.81	75980	75890	97190	97060	1.00	8.0	12.5	
3	2.696	8	1.004	0.79	0.792	28.44	35.47	79400	79200	99030	98780	1.20	8.0	15.0	
4	1.460	6	0.739	0.44	0.429	16.23	19.85	81340	83430	99480	102030	1.40	8.0	17.5	
5	1.480	6	0.744	0.44	0.435	16.21	19.98	81240	82180	100150	101300	1.10	8.0	13.8	
6	1.485	6	0.745	0.44	0.436	17.40	20.95	87220	88020	105000	105960	1.00	8.0	12.5	
7	0.676	4	0.503	0.20	0.199	7.16	8.66	78910	79310	95550	96030	1.20	8.0	15.0	
8	0.666	4	0.500	0.20	0.196	7.41	9.02	81720	83390	99480	101510	1.20	8.0	15.0	
9	0.678	4	0.503	0.20	0.199	7.44	9.04	82060	82470	99710	100210	1.00	8.0	12.5	
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BEND TEST:

8 Sample bend through 180 degrees Satisfactorily without any crack

6 Sample bend through 180 degrees Satisfactorily without any crack

4 Sample bend through 180 degrees Satisfactorily without any crack

Note:-Only Twelve Samples
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

Abdul Rashid Buzdar

Test Performed By: Dr. /Engr. Asad Ghalani

PM BWRDSP Consultants Quetta(Const.Of Ahmadzai(PIS &FIS)Subproject Zhob River Basin)

Client Reference: 4078/061/ARB/01/NCB-08/495

SOM Lab

Ref: 5371(Page-1/1)

Dated: 18-11-2021

Dated: 26-11-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Agha 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	2.588	8	0.984	0.79	0.761	24.48	33.44	68330	70930	93340	96900	1.50	8.0	18.8	
2	2.520	8	0.971	0.79	0.741	21.89	31.26	61100	65140	87280	93050	1.30	8.0	16.3	
3	1.660	6	0.788	0.44	0.488	16.16	20.87	80990	73020	104590	94310	1.00	8.0	12.5	
4	1.638	6	0.783	0.44	0.481	16.11	20.76	80730	73850	104080	95210	1.20	8.0	15.0	
5	0.658	4	0.496	0.20	0.193	6.80	8.56	74980	77700	94420	97850	1.20	8.0	15.0	
6	0.654	4	0.494	0.20	0.192	6.65	8.56	73290	76350	94420	98360	1.20	8.0	15.0	
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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

Q-Links Construction

Test Performed By: Dr. /Engr. Asad Gillani

PM Q-Links Property Construction Pvt Ltd,(Const. Of Broadway Heights-3 Bahria Orchard Lahore)

Client Reference: QLC-BO-BH2-2021-098

SOM Lab

Ref: 5373(Page-1/1)

Dated: 26-11-2021

Dated: 26-11-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF 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	0.658	4	0.496	0.20	0.193	7.31	9.40	80600	83520	103640	107400	0.90	8.0	11.3	
2	0.668	4	0.500	0.20	0.196	6.88	8.82	75880	77430	97230	99220	0.90	8.0	11.3	
3	0.649	4	0.493	0.20	0.191	7.34	9.28	80940	84750	102290	107110	1.00	8.0	12.5	
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BEND TEST:

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

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

Test Performed by: Dr. Asad Gillani

Engr. Zaheer Ud Din Babar,
Dy.General Manager Projects,
Habib Rafiq Engineering (Pvt.)Ltd,Lahore

Client Reference No.: HRLE/SKG/2021/038

Dated: 24-11-2021

SOM Lab Ref: 5367

Dated: 24-11-2021

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	(psi)	
1	25	491	234.7	69328	Thread Failure
2	16	201	125.5	90503	Steel sample Breaks at This Load

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