

Ahmed Usman Shah

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Albakio International Lahore(Superoir University Campus Sargodha)

Client Reference: Nil

Dated:

Nil

SOM Lab Ref: CED/SOM/2268(Page-1/1)

Dated:

19-02-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: M S 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	3.957	25	25.33	491	504	248.00	310.00	505	493	632	616	42.5	200	21.3	
2	2.263	21	19.16	346	288	141.00	179.70	407	490	519	624	40.0	200	20.0	
3	0.988	14	12.66	154	126	67.20	89.20	437	535	579	709	27.5	200	13.8	
4	0.562	11	9.54	95	72	43.20	51.50	455	604	542	720	22.5	200	11.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
21mm	Sample bend through 180 degrees Satisfactorily without any crack	
14mm	Sample bend through 180 degrees Satisfactorily without any crack	
11mm	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

Altat Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M.E. A.S. Enterprises, Engineers (PROJECT: STYLE TEXTILE Mill Manga)

Client Reference: USD/ASE/01

Dated: 19-02-2020

SOM Lab Ref: CED/SOM/2269(Page-1/1)

Dated: 19-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	2.400	20	19.74	314	306	185.20	233.70	590	606	744	764	32.5	200	16.3	
2	2.551	20	20.34	314	325	204.70	246.00	652	630	783	758	27.5	200	13.8	
3	1.572	16	15.97	201	200	116.70	142.00	580	583	706	710	27.5	200	13.8	
4	1.565	16	15.93	201	199	130.70	155.70	650	656	774	781	30.0	200	15.0	
5	1.539	12	15.80	113	196	66.20	87.20	585	338	771	445	25.0	200	12.5	
6	0.947	12	12.40	113	121	66.00	87.00	584	547	769	721	27.5	200	13.8	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
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

Altat Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M.E. A.S. Enterprises, Engineers (PROJECT: STYLE TEXTILE Raiwand Road)

Client Reference: USD/ASE/17

Dated: 19-02-2020

SOM Lab Ref: CED/SOM/2270(Page-1/1)

Dated: 19-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	0.878	12	11.94	113	112	59.70	78.50	528	534	694	701	25.0	200	12.5	
2	0.875	12	11.91	113	111	59.00	79.00	522	530	699	709	27.5	200	13.8	
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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

Khalid Memood

Assistant Engineer / Workshops, Pakistan Railways Moghalpura, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: WS/W/66 (2019-2020)

Dated: 14-02-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2263(Page-2/3)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.694	4	0.510	0.20	0.204	6.47	9.99	71380	69980	110160	108000	1.10	8.0	13.8	
2	0.686	4	0.507	0.20	0.202	6.49	9.99	71610	70900	110160	109070	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Khalid Memood

Assistant Engineer / Workshops, Pakistan Railways Moghalpura, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: WS/W/64 (2019-2020)

Dated: 14-02-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2263(Page-3/3)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.692	4	0.508	0.20	0.203	6.73	10.11	74190	73100	111510	109860	1.00	8.0	12.5	
2	0.689	4	0.507	0.20	0.202	6.54	10.01	72170	71450	110390	109290	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

Khalid Memood

Assistant Engineer / Workshops, Pakistan Railways Moghalpura, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
GillaniClient Reference: WS/W/65 (2019-2020)

Dated: 14-02-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2263(Page-1/3)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.692	4	0.508	0.20	0.203	6.60	10.04	72730	71660	110720	109090	1.20	8.0	15.0	
2	0.687	4	0.507	0.20	0.202	6.60	10.04	72730	72010	110720	109630	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

Muneeb Shahzad Butt
G. M. Project A. J. Corporation, Lahore

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

Client Reference: AJC/BEL/2203/20

Dated: 18-02-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2264 (Page-1/1)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.505	6	0.750	0.44	0.442	17.07	21.10	85590	85200	105770	105290	1.50	8.0	18.8	
2	1.512	6	0.752	0.44	0.444	16.84	20.90	84410	83650	104750	103800	1.60	8.0	20.0	
3	1.083	5	0.636	0.31	0.318	11.77	13.40	83760	81660	95370	92970	1.00	8.0	12.5	
4	1.084	5	0.637	0.31	0.319	11.54	14.02	82100	79780	99720	96910	1.40	8.0	17.5	
5	0.662	4	0.498	0.20	0.195	7.16	8.77	78910	80940	96670	99150	1.20	8.0	15.0	
6	0.661	4	0.497	0.20	0.194	7.08	8.72	78130	80540	96110	99080	1.10	8.0	13.8	
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BEND TEST:

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

CEO, Lateef Rafique Construction, Lahore (Project: 5 Marla House Construction , DGL, Phase-2)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

Dated: nil

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2265(Page-1/1)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	6.78	8.74	74750	77070	96340	99310	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

Tahir Mehmood
Chief Engineer, New Lahore City,

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: NLC/CE/Infra/020

Dated: 18-02-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2266(Page-1/2)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.566	8	0.980	0.79	0.754	31.60	39.37	88220	92430	109910	115150	0.90	8.0	11.3	
2	2.620	8	0.990	0.79	0.770	23.62	33.44	65940	67650	93340	95770	1.30	8.0	16.3	
3	1.411	6	0.727	0.44	0.415	17.02	20.20	85330	90470	101270	107370	1.00	8.0	12.5	
4	1.432	6	0.732	0.44	0.421	16.72	20.39	83800	87580	102190	106800	1.00	8.0	12.5	
5	0.660	4	0.497	0.20	0.194	7.51	9.07	82850	85410	100050	103140	1.20	8.0	15.0	
6	0.657	4	0.496	0.20	0.193	7.44	8.89	82060	85040	98020	101580	1.10	8.0	13.8	
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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

M. Asfaq Ch & Sons (Pvt) Ltd
Engineers & Contractor, Lahore

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

Client Reference: Nil

Dated: 19-02-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2267 (Page-1/1)

Dated: 19-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.473	6	0.743	0.44	0.433	15.14	21.15	75880	77100	106020	107740	1.00	8.0	12.5	
2	1.475	6	0.743	0.44	0.433	15.01	21.02	75210	76430	105360	107060	1.00	8.0	12.5	
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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