

Allied Bank  
 Manager ABL-UMLP-199&200.(Const Of ABL Upper Mall Lahore)

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

Client Reference: ABL-UML-AMC-QAQC-26

Dated : 12-09-2023

SOM Lab Ref: CED/SOM/2844(Page-1/1)

Dated : 12-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Afco Steel)

Gauge Length: 200 m

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	m	%	
1	3.838	25	24.95	491	489	259.00	329.70	528	530	672	675	32.5	200	16.3	
2	3.749	25	24.66	491	478	259.20	326.70	528	543	666	685	35.0	200	17.5	
3	3.749	25	24.66	491	478	272.00	334.70	554	570	682	701	32.5	200	16.3	
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**BEND TEST:**

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

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

Waqas Ali  
Variant Gulberg 2, Lahore.

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

Client Reference: VA/29/103

SOM Lab

Ref: 2843 (Page-1/1)

Dated: 12-09-2023

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.497	6	0.748	0.44	0.440	14.93	19.18	74860	74860	96160	96160	1.10	8.0	13.8	
2	1.512	6	0.752	0.44	0.444	14.73	19.34	73830	73170	96930	96060	1.30	8.0	16.3	
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Witnessed By: M. Khurram (Site Supervisor)

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

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

Amir Hussain  
Director (Civil) Mineral Development Project Islamabad.

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

Client Reference: MPD-C&S-Gen(1)/2023/

SOM Lab

Ref: 2845 (Page-1/1)

Dated: 28-08-2023

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.650	8	0.996	0.79	0.779	26.71	35.19	74560	75610	98240	99630	1.50	8.00	18.8	
2	2.646	8	0.995	0.79	0.778	26.12	34.96	72910	74040	97610	99120	1.50	8.00	18.8	
3	0.668	4	0.500	0.20	0.196	6.09	8.51	67110	68480	93860	95780	1.40	8.00	17.5	
4	0.667	4	0.500	0.20	0.196	6.12	8.51	67450	68820	93860	95780	1.40	8.00	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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 Asif

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

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberg-III,Lahore)

Client Reference: IMP/PM/66/04/87

SOM Lab

Ref: 2846 (Page-1/2)

Dated: 12-09-2023

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	0.666	4	0.500	0.20	0.196	7.49	9.60	82620	84310	105890	108050	1.20	8.00	15.00	
2	0.664	4	0.498	0.20	0.195	6.88	9.53	75880	77820	105100	107800	1.20	8.00	15.00	
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Witnessed By: M. Husnain Imran (Imperium Developers)

**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Three Samples Received and Tested</b>

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

Muhammad Asif

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

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberg-III,Lahore)

Client Reference: IMP/PM/66/04/88

SOM Lab

Ref: 2846 (Page-2/2)

Dated: 12-09-2023

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.708	8	1.007	0.799	0.796	25.33	36.03	70720	70190	100600	99840	1.40	8.0	17.5	
2	2.682	8	1.002	0.799	0.788	24.67	36.62	68870	69050	102220	102480	1.50	8.0	18.8	
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Witnessed By: M. Husnain Imran (Imperium Developers)

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

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

Ali Raza  
Site Incharge City Builders Lahore.

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

Client Reference: CB/KCW-W/05

SOM Lab

Ref: 2847 (Page-1/1)

Dated: 12-09-2023

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.654	8	0.997	0.79	0.780	27.37	34.81	76410	77390	97190	98430	1.50	8.0	18.8	
2	2.656	8	0.997	0.79	0.781	27.17	34.86	75840	76720	97330	98450	1.40	8.0	17.5	
3	1.491	6	0.747	0.44	0.438	14.09	18.17	70620	70940	91050	91470	1.30	8.0	16.3	
4	1.510	6	0.752	0.44	0.444	15.55	19.44	77920	77220	97440	96560	1.40	8.0	17.5	
5	0.670	4	0.501	0.20	0.197	6.42	8.31	70820	71900	91610	93010	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	6.49	8.38	71610	72700	92400	93810	1.30	8.0	16.3	
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**BEND TEST:**

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

Shahzad Ayub Associates  
RE Mandi Bahuddin.

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

Client Reference: Nil

Dated: 11-09-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2848 (Page-1/1)

Dated: 12-09-2023

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	1.486	6	0.746	0.44	0.437	14.05	18.04	70410	70890	90440	91060	1.10	8.0	13.8	
2	1.486	6	0.746	0.44	0.437	14.07	18.09	70510	71000	90690	91320	1.30	8.0	16.3	
3	0.664	4	0.498	0.20	0.195	7.14	8.92	78690	80710	98360	100880	1.10	8.0	13.8	
4	0.665	4	0.498	0.20	0.195	7.21	8.94	79470	81510	98580	101110	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>  <b>Only Six Samples Received and Tested</b>
# 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)