

Engr. Ahmad Husnain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Asst. Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST- OC/21/0104

Dated: 22-10-2021

SOM Lab Ref: CED/SOM/5186(Page-1/2)

Dated: 22-10-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	2.225	20	18.98	314	283	160.00	189.70	509	566	604	671	30.0	200	15.0	
2	2.230	20	19.02	314	284	157.50	183.00	501	555	583	645	32.5	200	16.3	
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BEND TEST:

20mm	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

Engr. Ahmad Husnain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Asst. Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST- OC/21/0103

Dated: 22-10-2021

SOM Lab Ref: CED/SOM/5186(Page-2/2)

Dated: 22-10-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	0.969	12	12.51	113	123	65.70	84.20	581	535	744	685	25.0	200	12.5	
2	0.992	12	12.68	113	126	80.50	93.50	712	638	827	741	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

Nadeem Mushtaq
Senior Civil Engineer, National Management Foundation, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: NMF/GM/F-61

Dated: 21-10-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 5180(Page-1/1)

Dated: 21-10-2021

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	2.740	8	1.012	0.79	0.805	31.09	35.19	86800	85180	98240	96410	1.20	8.0	15.0	
2	2.745	8	1.014	0.79	0.807	30.48	34.83	85090	83300	97240	95190	1.20	8.0	15.0	
3	1.450	6	0.736	0.44	0.426	16.38	19.83	82110	84810	99380	102650	1.30	8.0	16.3	
4	1.568	6	0.766	0.44	0.461	16.62	19.24	83290	79490	96420	92030	1.30	8.0	16.3	
5	1.034	5	0.622	0.31	0.304	10.57	13.46	75210	76690	95730	97620	1.30	8.0	16.3	
6	1.070	5	0.632	0.31	0.314	10.45	13.20	74340	73390	93920	92720	1.20	8.0	15.0	
7	0.662	4	0.498	0.20	0.195	6.90	8.43	76100	78050	92960	95350	1.20	8.0	15.0	
8	0.638	4	0.488	0.20	0.187	6.90	8.74	76100	81390	96340	103030	1.20	8.0	15.0	
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BEND TEST:

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

Naveed Ahmad
Material Engineer, DHA Bahawalpur

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

Client Reference: 170/QC/MTL

SOM Lab

Ref: 5184(Page-1/1)

Dated: 22-10-2021

Dated: 22-10-2021

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	1.483	6	0.745	0.44	0.436	13.83	21.10	69340	69970	105770	106740	1.40	8.0	17.5	
2	0.665	4	0.498	0.20	0.195	5.78	8.61	63740	65370	94990	97420	1.20	8.0	15.0	
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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

Muhammad Shabbir
Construction Manager, Opal Deever Developers Pvt. Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: ZD/ZO/L/036

Dated: 22-10-2021

SOM Lab

Ref: 5185(Page-1/1)

Dated: 22-10-2021

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	2.677	8	1.001	0.79	0.787	26.22	35.95	73200	73470	100370	100750	1.40	8.0	17.5	
2	2.711	8	1.007	0.79	0.797	24.72	35.52	69010	68410	99180	98310	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

Naveed Ahmad
Material Engineer, DHA Bahawalpur

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

Client Reference: 170/QC/MTL

SOM Lab

Ref: 5187(Page-1/1)

Dated: 22-10-2021

Dated: 22-10-2021

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	1.469	6	0.742	0.44	0.432	13.51	19.37	67700	68960	97080	98880	1.20	8.0	15.0	
2	0.664	4	0.498	0.20	0.195	6.09	8.69	67110	68830	95770	98230	1.30	8.0	16.3	
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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