

Saleem Tahir
 PM ICPL (OMBRé' Holding Pvt Ltd Raiwind,Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OMBRe'/Mughal/Steel/008

Dated: 04-08-2022

SOM Lab Ref: CED/SOM/715 (Page-1/1)

Dated: 04-08-2022

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	2.446	20	19.93	314	312	177.00	217.70	563	568	693	698	30.0	200	15.0	
2	2.444	20	19.91	314	311	177.50	220.20	565	571	701	708	32.5	200	16.3	
3	1.501	16	15.60	201	191	110.50	136.20	550	578	677	713	25.0	200	12.5	
4	1.533	16	15.77	201	195	110.00	135.70	547	564	675	695	25.0	200	12.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	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. Tayyab Rasool

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

PM Renaissance Internation,(Const Of Culvert at Lahore Motorway City Project,Skp Road,Lahore)

Client Reference: QC/22/030

SOM Lab

Ref: 714 (Page-1/1)

Dated: 01-08-2022

Dated: 04-08-2022

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	1.504	6	0.750	0.44	0.442	15.14	18.60	75880	75530	93250	92830	1.20	8.0	15.0	
2	1.508	6	0.751	0.44	0.443	16.00	19.37	80220	79680	97080	96420	0.90	8.0	11.3	
3	0.663	4	0.498	0.20	0.195	8.26	9.50	91050	93390	104770	107450	1.00	8.0	12.5	
4	0.662	4	0.498	0.20	0.195	8.12	9.40	89590	91890	103640	106300	1.00	8.0	12.5	
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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