Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** **S Asad Ali Gillani**

Dy Dir MTL, Const of Mosque , Sector -T, DHA Ph-VIII - (M/S Siddique Sons)

Client Reference: **408/241/E/Lab/626/40** **SOM Lab Ref:** **1031(Page-1/1)**

Dated: **29-06-2019** **Dated:** **01-07-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615 Deformed Bar (FF Steel)**

Gauge Length: **8 inch** **Sample Type:**

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	2.664	8	0.998	0.79	0.783	25.38	33.61	70860	71500	93830	94670	1.60	8.0	20.0	
2	2.667	8	0.999	0.79	0.784	25.28	33.48	70580	71120	93460	94170	1.40	8.0	17.5	
3	1.556	6	0.763	0.44	0.457	14.07	19.80	70510	67890	99230	95540	1.30	8.0	16.3	
4	1.527	6	0.756	0.44	0.449	15.70	20.23	78690	77110	101420	99390	1.40	8.0	17.5	
5	0.650	4	0.493	0.20	0.191	6.32	7.72	69700	72980	85100	89100	1.20	8.0	15.0	
6	0.658	4	0.496	0.20	0.193	6.93	8.99	76440	79210	99150	102740	1.20	8.0	15.0	
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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 Nine Samples Received and Tested

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

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

Project Engineer, I Con Developers, DHA, Lahore

Client Reference: **nil** **SOM Lab Ref:** **1032(Page-1/1)**

Dated: **28-06-2019** **Dated:** **01-07-2019**

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	1.494	6	0.748	0.44	0.439	18.81	22.48	94270	94490	112660	112920	1.00	8.0	12.5	
2	1.478	6	0.743	0.44	0.434	17.74	22.12	88910	90140	110880	112410	1.00	8.0	12.5	1
3	0.669	4	0.501	0.20	0.197	5.02	7.13	55310	56150	78580	79770	1.40	8.0	17.5	
4	0.654	4	0.494	0.20	0.192	5.02	7.10	55310	57610	78350	81620	1.50	8.0	18.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Test Performed By: Dr. S. Asad Ali Gillani

Javed Ali
Deputy Director (Maint)
National Highway Authority
Wazirabad (N-5)

Client Reference: Gen/ DD(Maint) WZD/NHA/2019/1286 **Dated: 28-06-2019**
SOM Laboratory Reference: CED/SOM/1033(Page-1/1) **Dated: 01-07-2019**
Test: Compressive Strength Tests
Sample Type: Cat Eyes
Test Specification: ASTM-D4280

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Flexure Load(Kg)	Compressive Load (Kg)
1	Cat Eyes Plastic Type (3-M)	74.5 x 45.0	101.5 x 88.5	15.5	31.82^{o}	1121.30	11233.43

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