

Zahid Aziz

Test Performed By:

Dr. /Engr.

M Yousaf

Sr. DGM (Projects) Lucky Cement Ltd. Pezu, District Lakki Marwat

Client Reference: Nil

Dated: 08-02-2019

SOM Lab Ref: CED/SOM/284(Page-1/1)

Dated: 12-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(AFCO & Abbasi 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	3.676	25	24.41	491	468	257.50	323.70	525	551	659	692	35.0	200	17.5	Abbasi
2	3.691	25	24.47	491	470	255.90	321.90	521	545	656	685	32.5	200	16.3	Abbasi
3	2.512	20	20.19	314	320	166.50	207.70	530	521	661	649	27.5	200	13.8	Abbasi
4	2.482	20	20.06	314	316	165.90	207.30	528	525	660	656	27.5	200	13.8	Abbasi
5	1.602	16	16.12	201	204	86.00	138.20	428	422	687	678	30.0	200	15.0	Afco
6	1.595	16	16.08	201	203	84.90	137.20	422	418	682	676	27.5	200	13.8	Afco
7	0.974	12	12.57	113	124	58.20	90.20	515	470	798	727	30.0	200	15.0	Afco
8	0.982	12	12.62	113	125	58.10	90.00	514	465	796	720	30.0	200	15.0	Afco
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Muneeb Shahzad Butt

Test Performed By: Dr. /Engr. Abdur Rehman

Head of Civil Department , A. J. Corporation (Const. of Bulk Oil Depot at Mehmood Kot)

Client Reference: AJC/BEL/2203/1

SOM Lab

Ref: 283(Page-1/1)

Dated: 11-02-2019

Dated: 12-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.626	8	0.991	0.79	0.772	22.32	38.23	62330	63780	106720	109210	1.30	8.0	16.3	
2	2.627	8	0.991	0.79	0.772	21.99	36.29	61390	62820	101310	103670	1.20	8.0	15.0	
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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

Engr Shoukat Ali Rana
Project Manager, Orbit Housing, Lahore

Test Performed By: Dr. /Engr. Ubaid A Mughal

Client Reference: Nil

SOM Lab

Ref: 285(Page-1/1)

Dated: 12-02-2019

Dated: 12-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.627	4	0.484	0.20	0.184	6.37	7.77	70260	76370	85660	93110	1.00	8.0	12.5	
2	0.630	4	0.485	0.20	0.185	6.44	7.82	71040	76800	86220	93210	1.10	8.0	13.8	
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BEND TEST:

# 4	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: CONC - 20190212

SOM Lab

Ref: 286(Page-1/1)

Dated: 12-02-2019

Dated: 12-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Model 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	2.715	8	1.008	0.79	0.798	26.12	36.85	72910	72180	102880	101850	1.10	8.0	13.8	
2	2.644	8	0.995	0.79	0.777	25.05	35.07	69920	71090	97900	99530	1.50	8.0	18.8	
3	1.509	6	0.751	0.44	0.443	15.67	19.57	78530	78000	98100	97440	1.20	8.0	15.0	
4	1.499	6	0.749	0.44	0.441	13.63	18.73	68320	68160	93860	93650	1.40	8.0	17.5	
5	0.676	4	0.503	0.20	0.199	6.88	8.45	75880	76260	93190	93660	1.10	8.0	13.8	
6	0.652	4	0.494	0.20	0.192	6.09	8.07	67110	69910	89030	92740	1.00	8.0	12.5	
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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