

Flying Cement Company

Test Performed By:

Dr. /Engr.

S.Asad Ali Gillani

Manager Administration Lhr.(Const. of Flying Cement Company Plant Line-2,7700 TPD Khushab)

Client Reference: Nil

Dated: 24-01-2022

SOM Lab Ref: CED/SOM/5777(Page-1/1)

Dated: 24-01-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	2.493	20	20.12	314	318	167.20	218.50	532	526	696	688	35.0	200	17.5	
2	2.319	20	19.39	314	295	130.70	179.50	416	443	571	608	30.0	200	15.0	
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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

Major Tanveer Ahmad ®

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE-2 ACES,DHA Multan.(Civil Infrastructure Development Works DHA Multan)

Client Reference: ACES-DHAM-NLC-140

Dated: 27-01-2021

SOM Lab Ref: CED/SOM/5771(Page-1/1)

Dated: 28-01-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	0.883	12	11.94	113	112	60.50	72.00	535	541	637	643	25.0	200	12.5	
2	0.881	12	11.95	113	112	59.50	72.20	526	531	638	644	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

Sub Divisional officer,

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

HSD Taunsa(Const Of Pile Foundation Bridge At Jarh Leghari Over River Creek Teh.Taunsa)

Client Reference: 1191/T

SOM Lab

5769 (Page-

Ref:

1/2)

Dated: 27-11-2021

Dated:

28-01-2022

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	3.408	9	1.130	1.00	1.002	32.06	44.16	70710	70570	97390	97200	1.30	8.0	16.3	
2	3.422	9	1.132	1.00	1.006	32.13	44.14	70860	70440	97350	96770	1.40	8.0	17.5	
3	2.657	8	0.997	0.79	0.781	24.67	35.29	68870	69660	98520	99660	1.60	8.0	20.0	
4	2.639	8	0.994	0.79	0.776	24.69	35.19	68930	70170	98240	100010	1.60	8.0	20.0	
5	1.502	6	0.749	0.44	0.441	13.58	20.10	68060	67910	100760	100530	1.40	8.0	17.5	
6	1.505	6	0.750	0.44	0.442	13.78	20.44	69080	68770	102450	101980	1.50	8.0	18.8	
7	0.670	4	0.501	0.20	0.197	6.37	8.96	70260	71330	98810	100310	1.10	8.0	13.8	
8	0.668	4	0.500	0.20	0.196	6.37	8.94	70260	71690	98580	100600	1.20	8.0	15.0	
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BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional officer,

Test Performed By:

Dr. /Engr. Asad Ali Gillani

HSD Taunsa(Const Of Pile Foundation Bridge At Sanghar Nullah Basti Mundrani Teh.Taunsa)

Client Reference: 1278/T

SOM Lab 5769 (Page-

Ref: 2/2)

Dated: 27-11-2021

Dated: 28-01-2022

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	2.680	8	1.002	0.79	0.788	23.54	35.34	65710	65880	98660	98920	1.60	8.0	20.0	
2	2.684	8	1.002	0.79	0.789	23.52	35.36	65650	65740	98720	98850	1.50	8.0	18.8	
3	1.499	6	0.749	0.44	0.441	13.53	20.13	67810	67650	100910	100680	1.40	8.0	17.5	
4	1.497	6	0.748	0.44	0.440	13.51	20.11	67700	67700	100810	100810	1.50	8.0	18.8	
5	1.061	5	0.630	0.31	0.312	9.58	14.04	68170	67740	99860	99220	1.30	8.0	16.3	
6	0.737	5	0.526	0.31	0.217	9.65	14.14	68680	98110	100590	143700	1.40	8.0	17.5	
7	0.666	4	0.500	0.20	0.196	6.44	9.04	71040	72490	99710	101740	1.30	8.0	16.3	
8	0.670	4	0.501	0.20	0.197	6.49	8.97	71610	72700	98920	100430	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

Abdul Ghafar

Test Performed By:

Dr. /Engr. Rizwan Azam

PM Liberty Builders.(Const. Of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Rd,Lahore)

Client Reference: ST/UET/20220128

SOM Lab 5770 (Page-

Ref: 1/1)

Dated: 28-01-2022

Dated: 28-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Batala Premium)

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	0.662	4	0.498	0.20	0.195	6.63	9.12	73070	74940	100610	103190	1.10	8.0	13.8	
2	0.649	4	0.493	0.20	0.191	6.49	9.04	71610	74980	99710	104410	1.10	8.0	13.8	
3	0.663	4	0.498	0.20	0.195	6.39	8.99	70480	72290	99150	101690	1.20	8.0	15.0	
4	0.658	4	0.496	0.20	0.193	6.37	9.07	70260	72810	100050	103670	1.20	8.0	15.0	
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Witnessed By: Bilal Ashraf (Civil Site Supervisor)

BEND TEST:

--	No Bend test performed	Note:- Only Four Samples Received and Tested

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

Engr. Naveed Sadiq
RE Orbit Housing (The Spring Apartments Homes)

Test Performed By: Dr. /Engr. Asad Ali

Client Reference: Nil

SOM Lab Ref: 5773 (Page-1/1)

Dated: 28-01-2022

Dated: 28-01-2022

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	2.668	8	0.999	0.79	0.784	23.82	34.10	66510	67020	95190	95920	1.40	8.0	17.5	
2	2.646	8	0.995	0.79	0.778	24.18	34.51	67500	68550	96330	97820	1.20	8.0	15.0	
3	1.541	6	0.759	0.44	0.453	14.78	20.82	74090	71960	104340	101340	1.10	8.0	13.8	
4	1.530	6	0.757	0.44	0.450	14.90	20.66	74700	73040	103570	101270	1.30	8.0	16.3	
5	0.662	4	0.498	0.20	0.195	6.60	8.99	72730	74600	99150	101690	1.10	8.0	13.8	
6	0.641	4	0.489	0.20	0.188	6.60	9.09	72730	77370	100270	106670	1.10	8.0	13.8	
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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

Ajaz Dogar
Sonehri Developers Sahiwal.(Central Mall Sahiwal)

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

Client Reference: Nil

SOM Lab 5774 (Page-

Ref: 1/1)

Dated: 28-01-2022

Dated: 28-01-2022

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	2.650	8	0.996	0.79	0.779	26.71	40.47	74560	75610	112980	114570	1.10	8.0	13.8	
2	2.649	8	0.995	0.79	0.778	27.42	40.59	76550	77730	113320	115070	1.10	8.0	13.8	
3	1.506	6	0.751	0.44	0.443	13.93	20.10	69850	69380	100760	100080	1.50	8.0	18.8	
4	1.508	6	0.751	0.44	0.443	13.99	20.20	70100	69630	101270	100590	1.50	8.0	18.8	
5	0.666	4	0.500	0.20	0.196	6.85	8.89	75540	77080	98020	100020	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	6.85	8.89	75540	77080	98020	100020	1.30	8.0	16.3	
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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

Manohar Lal

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

RE Nespak,Hafizabad(Dualization of Rd From Grw to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/ML/Lab/02

SOM Lab

5775 (Page-

Ref:

1/1)

Dated: 27-01-2022

Dated:

28-01-2022

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	2.606	8	0.988	0.79	0.766	25.99	34.61	72570	74840	96620	99640	1.40	8.0	17.5	
2	2.597	8	0.986	0.79	0.763	25.74	34.30	71860	74400	95760	99150	1.60	8.0	20.0	
3	1.484	6	0.745	0.44	0.436	14.93	20.54	74860	75540	102960	103900	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	14.78	20.56	74090	74770	103060	104000	1.00	8.0	12.5	
5	0.675	4	0.502	0.20	0.198	6.32	8.41	69700	70400	92740	93680	1.50	8.0	18.8	
6	0.665	4	0.498	0.20	0.195	5.71	7.92	62950	64570	87340	89580	1.60	8.0	20.0	
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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

Premier Developer & Builders

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager .(Lyallpur Galleria-II Near Four Season Colony Samundri Rd,FSD)

Client Reference: LG-II/006

SOM Lab

5776 (Page-

Ref:

1/1)

Dated: 26-01-2022

Dated:

28-01-2022

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	1.496	6	0.748	0.44	0.440	14.80	22.04	74190	74190	110470	110470	1.00	8.0	12.5	
2	0.662	4	0.498	0.20	0.195	6.85	9.38	75540	77480	103420	106070	1.10	8.0	13.8	
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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 Four Samples
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Usman Khalid

Test Performed By:

Dr. /Engr. Asad Ali Gillani

P & CE Izhar Const. Pvt.Ltd.(Const. Of Ocean Ceramic Tile Project At M-3 Industrial Area FSD)

Client Reference: ICPL/CONST-OCT/22/006

SOM Lab 5778 (Page-

Ref: 1/1)

Dated: 28-01-2022

Dated: 28-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	1.521	6	0.754	0.44	0.447	15.19	18.91	76130	74940	94780	93300	1.00	8.0	12.5	
2	1.527	6	0.756	0.44	0.449	15.44	19.06	77410	75860	95550	93630	1.20	8.0	15.0	
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BEND TEST:

# 6	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

Test Performed By: S. Asad Ali Gillani

Muhammad Adnan Alam
Resident Engineer,
ACES Site office RGC DHA Multan.
(Ring Road Rumanza Golf Course,DHA Multan)

Client Reference: ACES-DHAM-GGRR-

Dated: 26-01-2022

SOM Laboratory Reference: CED/SOM/5772(Page-1/1)

Dated: 28-01-2022

Test: Compressive Strength Tests

Sample Type: CAT – EYES (Brand -3M)

Test Specification: ASTM-D4280

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Compression Load (Kg)
1	Yellow Cat-Eyes	70.7 x 44.3	88.75 x 71.7	15.2	30.16°	13465
2	Yellow Cat-Eyes	70.5 x 43.5	88.70 x 72.1	15.1	29.33°	13600

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

Test Performed By: Dr. Wasim Abbas

Rashid Kamran

RE (Road Works) Nespak, Lahore.

(Project: Const. of Flyover And At-Grade Improvement At Shahkaam Chowk Lahore)

Client Reference: 4047/13/05/RK/59

Dated: 26-01-2022

SOM Lab Ref: CED/SOM/5779(Page-1/1)

Dated: 28-01-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchorage Steel J-Bolt

Gauge Length: 200 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	Original Diameter	Calculated Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	25	25.93	528	208.2	314.2	395	596	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	
								Note:-			
								Only One Sample			
								Received and Tested			

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Anchorage Steel J-Bolt	HR – 86.16 – B

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

