

Lucky Cement Limited

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Manager (Civil), PEZU.(800 TPD Line-2 At Lucky Cement Ltd,PEZU)

Client Reference: LCL/Civil/Line-2/2022/04/517

Dated: 03-08-2022

SOM Lab Ref: CED/SOM/716(Page-1/1)

Dated: 05-08-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Naveena 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	2.439	20	19.90	314	311	151.50	197.50	482	488	629	636	32.5	200	16.3	TMF-731
2	2.496	20	20.12	314	318	172.50	214.70	549	543	683	676	32.5	200	16.3	TMF-731
3	2.441	20	19.90	314	311	152.70	200.70	486	492	639	646	32.5	200	16.3	TLY-128
4	2.458	20	19.97	314	313	155.50	202.00	495	497	643	646	37.5	200	18.8	TLY-128
5	2.408	20	19.76	314	307	154.50	202.70	492	504	645	661	35.0	200	17.5	TLY-850
6	2.421	20	19.82	314	308	151.70	199.70	483	492	636	648	32.5	200	16.3	TLY-850
7	1.552	16	15.87	201	198	113.70	137.50	565	576	684	696	30.0	200	15.0	E-1160
8	1.558	16	15.90	201	198	113.20	136.70	563	571	680	689	32.5	200	16.3	E-1160
9	1.551	16	15.86	201	198	113.20	138.20	563	573	687	700	35.0	200	17.5	TKL-294
10	1.549	16	15.85	201	197	114.00	136.50	567	578	679	692	32.5	200	16.3	TKL-294

BEND TEST:

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

Abdul Ali Raza
 Manager (Projects) Rupafil Limited. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 717 (Page-1/1)

Dated: 05-08-2022

Dated: 05-08-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	2.619	8	0.990	0.79	0.770	24.49	31.24	68360	70130	87230	89490	1.50	8.0	18.8	
2	2.610	8	0.988	0.79	0.767	25.05	31.40	69920	72020	87650	90280	1.40	8.0	17.5	
3	1.674	6	0.791	0.44	0.492	17.33	21.33	86860	77680	106890	95590	1.10	8.0	13.8	
4	1.656	6	0.787	0.44	0.487	17.96	22.09	90030	81340	110720	100040	1.30	8.0	16.3	
5	0.597	4	0.472	0.20	0.175	5.73	7.41	63180	72200	81720	93400	1.30	8.0	16.3	
6	0.596	4	0.472	0.20	0.175	5.78	7.36	63740	72840	81160	92750	1.20	8.0	15.0	
7	0.422	3	0.397	0.11	0.124	4.05	5.32	81140	71980	106690	94640	1.10	8.0	13.8	
8	0.425	3	0.399	0.11	0.125	4.30	5.42	86250	75900	108730	95680	1.00	8.0	12.5	
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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	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	
# 3	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. Muhammad Iqbal
 Proprietor, AR-RAFAY Builders Sialkot.

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

Client Reference: AR-RAFAY Builders LC
Dated: 04-04-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 718 (Page-1/1)
Dated: 05-08-2022
Test Specification: ASTM-A-615
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	1.533	6	0.758	0.44	0.451	17.99	22.14	90180	87980	110980	108270	1.20	8.0	15.0	
2	0.588	4	0.469	0.20	0.173	5.50	7.19	60700	70180	79250	91620	1.00	8.0	12.5	
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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 Zahid Mehmood

Test Performed By:

Dr. /Engr. Nauman Khurram

RE ESAC Sector A Civ Work, DHA Multan.(Civil Infrastructure Dev Works Pkg-2 Sec-A DHA Multan)

Client Reference: ESAC/SEC A (Exten) Civ Work/051

SOM Lab

Ref: 719 (Page-1/1)

Dated: 03-08-2022

Dated: 04-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Agha 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	0.589	4	0.469	0.20	0.173	6.42	7.72	70820	81870	85100	98380	1.10	8.0	13.8	
2	0.593	4	0.471	0.20	0.174	6.49	7.85	71610	82310	86560	99490	1.00	8.0	12.5	
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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

Waqas Ali
Variant Gulberg 2, Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: VA/29/31

SOM Lab

Ref: 720 (Page-1/1)

Dated: 05-08-2022

Dated: 05-08-2022

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	2.561	8	0.979	0.79	0.753	29.77	36.67	83100	87180	102360	107390	1.10	8.0	13.8	
2	2.598	8	0.986	0.79	0.763	28.95	35.24	80820	83680	98380	101860	1.20	8.0	15.0	
3	1.456	6	0.738	0.44	0.428	13.25	17.60	66430	68290	88240	90720	1.50	8.0	18.8	
4	1.495	6	0.748	0.44	0.439	13.68	18.30	68570	68730	91720	91930	1.40	8.0	17.5	
5	0.686	4	0.507	0.20	0.202	6.49	8.53	71610	70900	94090	93160	1.20	8.0	15.0	
6	0.658	4	0.496	0.20	0.193	6.09	8.02	67110	69540	88470	91680	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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0207
Dated: 04-08-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 721 (Page-1/3)
Dated: 05-08-2022
Test Specification: ASTM-A-615
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	0.655	4	0.494	0.20	0.192	6.73	9.04	74190	77280	99710	103860	1.20	8.0	15.0	
2	0.657	4	0.496	0.20	0.193	6.42	8.43	70820	73390	92960	96340	1.20	8.0	15.0	
3	0.652	4	0.494	0.20	0.192	6.49	8.63	71610	74590	95210	99180	1.20	8.0	15.0	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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 Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0208
Dated: 04-08-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 721 (Page-2/3)
Dated: 05-08-2022
Test Specification: ASTM-A-615
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	1.534	6	0.758	0.44	0.451	14.37	20.10	72050	70290	100760	98300	1.30	8.0	16.3	
2	1.533	6	0.758	0.44	0.451	13.91	18.65	69750	68050	93510	91220	1.50	8.0	18.8	
3	1.533	6	0.758	0.44	0.451	14.02	18.73	70260	68540	93860	91570	1.40	8.0	17.5	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 6	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 Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0205
Dated: 04-08-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 721 (Page-3/3)
Dated: 05-08-2022
Test Specification: ASTM-A-615
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	2.632	8	0.992	0.79	0.773	23.60	35.44	65880	67330	98950	101130	1.40	8.0	17.5	
2	2.610	8	0.988	0.79	0.767	23.85	35.75	66590	68590	99800	102800	1.20	8.0	15.0	
3	2.600	8	0.986	0.79	0.764	25.28	35.88	70580	72980	100170	103580	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

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

Muddasir Ali
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 722 (Page-1/1)

Dated: 05-08-2022

Dated: 05-08-2022

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	2.684	8	1.002	0.79	0.789	24.64	33.66	68790	68870	93970	94090	1.60	8.0	20.0	
2	1.464	6	0.740	0.44	0.430	13.81	18.73	69240	70850	93860	96050	1.20	8.0	15.0	
3	1.018	5	0.617	0.31	0.299	11.01	14.19	78330	81210	100950	104670	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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