

Test Performed by: S. Asad Ali Gillani

ZES
Zain Engineering Solution
Lahore.
(Project: RAMADA)

Client Reference No.: Nil

Dated: 16-12-2024

SOM Lab Ref: CED/SOM/390 (Page 1/1)

Dated: 17-12-2024

Test Type: Tensile Test

Sample Type: Anchor Bolt (M16x250mm)

Test Specification: ASTM – F-606

Tensile Test Results

S No.	Sample Type	Sample Diameter before Test (mm)	Tested Diameter of Rod/Bolt (mm)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	Anchor Bolt M16	16.0	11.0	58.0	69.5	610.33	731.34	3.33

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

Farid Masood
General Manager (Technical) Gharibwal Cement Ltd.Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: GCL/Purchase/UET/TEST/012

Dated: 17-12-2024

SOM Lab Ref: CED/SOM/389 (Page-1/1)

Dated: 17-12-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: 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	2.410	20	19.77	314	307	134.00	212.20	427	437	675	692	37.5	200	18.8	H # 555
2	2.418	20	19.80	314	308	134.20	213.00	427	436	678	692	37.5	200	18.8	H # 555
3	2.411	20	19.78	314	307	142.70	231.50	454	465	737	754	32.5	200	16.3	H # 16
4	2.423	20	19.83	314	309	143.70	232.20	457	466	739	753	32.5	200	16.3	H # 16
5	1.544	16	15.82	201	197	89.00	140.50	443	453	699	715	32.5	200	16.3	H # 556
6	1.552	16	15.87	201	198	91.50	141.50	455	463	704	716	27.5	200	13.8	H # 556
7	0.917	12	12.19	113	117	67.50	81.00	597	579	716	694	25.0	200	12.5	H # 31
8	0.922	12	12.23	113	117	66.50	80.70	588	566	714	687	25.0	200	12.5	H # 31
9	0.883	12	11.96	113	112	53.50	81.00	473	476	716	721	25.0	200	12.5	H # 40
10	0.883	12	11.96	113	112	53.20	81.50	470	474	721	725	27.5	200	13.8	H # 40

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	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Ijaz Ahmad, SE

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

Lucky Core Industries.(Const Of Veterinary Pharmaceutical Building at 30KM Lahore Sheikhpura)

Client Reference: Nil

SOM Lab

Ref: 388 (Page-1/1)

Dated: 17-12-2024

Dated: 17-12-2024

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	1.464	6	0.740	0.44	0.430	17.43	21.78	87370	89410	109190	111730	1.10	8.0	13.8	
2	1.467	6	0.741	0.44	0.431	17.64	21.87	88400	90240	109600	111890	1.10	8.0	13.8	
3	0.661	4	0.497	0.20	0.194	7.72	10.06	85100	87730	110950	114380	1.10	8.0	13.8	
4	0.661	4	0.497	0.20	0.194	7.65	10.01	84310	86920	110390	113800	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Allied Bank

Test Performed By: Dr. /Engr. Nauman Khurram

Head Const. Site ABL-UML P-199&200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-AMC-QAQC-101

SOM Lab

Ref: 391 (Page-1/1)

Dated: 17-12-2024

Dated: 17-12-2024

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	29.17	37.07	81450	82600	103500	104960	1.20	8.0	15.0	
2	2.655	8	0.997	0.79	0.780	26.73	35.83	74620	75580	100030	101310	1.50	8.0	18.8	
3	1.525	6	0.755	0.44	0.448	15.87	20.92	79560	78140	104850	102980	1.30	8.0	16.3	
4	1.482	6	0.745	0.44	0.436	14.63	19.54	73320	74000	97950	98850	1.40	8.0	17.5	
5	1.043	5	0.625	0.31	0.307	10.57	13.99	75210	75940	99500	100470	1.30	8.0	16.3	
6	1.042	5	0.624	0.31	0.306	10.67	13.68	75930	76920	97330	98600	1.20	8.0	15.0	
7	0.666	4	0.500	0.20	0.196	6.73	8.97	74190	75710	98920	100940	1.00	8.0	12.5	
8	0.664	4	0.498	0.20	0.195	6.70	8.87	73850	75750	97800	100300	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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