

Test Performed by: Dr Wasim Abbas

Muhammad Farooq  
General Manager Admin & Finance  
Cosmic Construction Intl. Pvt. Ltd.  
Rawalpindi.

Client Reference No.: Nil

Dated: 09-10-2024

SOM Lab Ref: CED/SOM/4949-4950 (Page 1/1)

Dated: 09-10-2024

Test Type: Tensile Test

Sample Type: Anchor Bolt

### Tensile Test Results

Sample No.	Sample Type	Diameter of Anchor Bolt (mm)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	Anchor Bolt	12.30	35.5	49.2	298.77	414.07	22.5

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed by: S. Asad Ali Gillani

Muhammad Arfan Asif  
Engineer's Representative  
Nespak Jv Turpkak  
Lahore.

(Const Of Green Building For EMC, EPD and Allied ` New Entities Established under PGDP Lahore)

Client Reference No.: 4731/MAA/04/106

Dated: 07-10-2024

SOM Lab Ref: CED/SOM/4958 (Page 1/1)

Dated: 09-10-2024

Test Type: Tensile Test

Sample Type: GI Sheet

Gauge Length: 2 inches

### Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm <sup>2</sup> )	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	24.4 x 0.80	19.52	5.60	7.50	286.89	384.22	0.55	27.50
2	20.1 x 0.60	12.06	3.50	4.60	290.22	381.43	0.55	27.50

### Thickness Test

Sr. No.	Sample Type	Thickness (mm)
1	GI Sheet	0.8
2	GI Sheet	0.6

Note: Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Farid Masood  
GM-Technical Gharibwal Cement Ltd.Lahore

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

Client Reference: GCL/Purchase/UET/TEST/003

Dated: 09-10-2024

SOM Lab Ref: CED/SOM/4953 (Page-1/1)

Dated: 09-10-2024

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.911	12	12.15	113	116	65.00	79.20	575	561	700	683	30.0	200	15.0	
2	0.911	12	12.16	113	116	63.50	77.70	561	547	687	670	30.0	200	15.0	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Engr. Muhammad Ejaz Khan,RE

**Test Performed By:**

Dr. /Engr.

Nauman Khurram

Pkg-IV Indus Associate Consultant (JV).(Dualization of Zhob-Kuchalak Sec of N-50 Nasai to Khanozai)

**Client Reference:** RE/Pkg-IV/N-50/IAC/2024/594

**Dated:** 08-10-2024

**SOM Lab Ref:** CED/SOM/4957 (Page-1/1)

**Dated:** 09-10-2024

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A 615

**Sample Type:** Deformed Bar (Sheikhoo 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.442	20	19.90	314	311	155.00	212.00	493	499	675	682	40.0	200	20.0	
2	2.453	20	19.95	314	312	154.50	212.20	492	495	675	680	35.0	200	17.5	
3	1.568	16	15.95	201	200	97.20	131.20	483	487	653	657	32.5	200	16.3	
4	1.568	16	15.95	201	200	98.00	132.50	487	491	659	664	30.0	200	15.0	
5	0.978	12.7	12.59	127	125	61.50	84.20	485	494	665	676	25.0	200	12.5	
6	0.980	12.7	12.61	127	125	61.20	84.00	483	491	663	674	27.5	200	13.8	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12.7mm	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](http://www.uet-civil.edu.pk)

Li Wentao

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

CCECC-HCS JV.(Expansion of Terminal Building and Allied Facilities at AllAP, Lahore)

Client Reference: CCECCHCSJVIIAP2024-280

SOM Lab

Ref:

4951 (Page-1/1)

Dated: 08-10-2024

Dated:

09-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Makhor Industries)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.046	5	0.625	0.31	0.307	10.30	14.27	73250	73960	101530	102520	1.10	8.0	13.8	
2	1.044	5	0.625	0.31	0.307	9.65	13.78	68680	69350	98050	99010	1.20	8.0	15.0	
3	0.668	4	0.500	0.20	0.196	6.78	8.63	74750	76280	95210	97150	1.10	8.0	13.8	
4	0.665	4	0.498	0.20	0.195	6.29	8.18	69360	71140	90150	92460	1.00	8.0	12.5	
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Witnessed By: Jamil Akhtar, Nespak

**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<p><b>Note:-</b></p> <p>Only Six Samples Received and Tested</p>
# 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](http://www.uet-civil.edu.pk)

Li Wentao

Test Performed By: Dr. /Engr. Nauman Khurram

CCECC-HCS JV.(Expansion of Terminal Building and Allied Facilities at AllAP, Lahore)

Client Reference: CCECCHCSJVIIAP2024-269

SOM Lab

Ref: 4952 (Page-1/1)

Dated: 03-10-2024

Dated: 27-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Makhor Industries)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.499	6	0.749	0.44	0.441	12.81	20.80	64230	64080	104230	104000	1.40	8.0	17.5	
2	1.494	6	0.748	0.44	0.439	12.64	20.66	63360	63500	103570	103810	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Nasir Mahmood, CM  
Elite Engineering (Pvt) Ltd.(Project: Sitara 3 JAYS Tower)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: EEPL/08/EL-11

SOM Lab

Ref: 4954 (Page-1/1)

Dated: 09-10-2024

Dated: 09-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.671	4	0.501	0.20	0.197	7.39	9.33	81500	82740	102860	104420	1.00	8.0	12.5	
2	0.666	4	0.500	0.20	0.196	7.16	9.09	78910	80520	100270	102320	1.10	8.0	13.8	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional Officer,

**Test Performed By:** Dr. /Engr. Nauman Khurram

Maintenance Sub Div No.II Lhr.(One Multistory Building For Residences For S/Colony at Chauburgi)

**Client Reference:** 342sd/GOR-III,Lhr

**SOM Lab**

**Ref:** 4955 (Page-1/1)

**Dated:** 09-10-2024

**Dated:** 09-10-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	22.07	32.95	61610	63210	91980	94370	1.60	8.0	20.0	
2	2.627	8	0.991	0.79	0.772	22.09	33.10	61670	63110	92400	94560	1.50	8.0	18.8	
3	1.507	6	0.751	0.44	0.443	15.06	18.88	75470	74960	94630	93990	1.30	8.0	16.3	
4	1.400	6	0.723	0.44	0.411	16.46	19.90	82520	88340	99740	106780	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	6.37	8.94	70260	70970	98580	99580	1.30	8.0	16.3	
6	0.668	4	0.500	0.20	0.196	6.42	8.89	70820	72270	98020	100020	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Beacon Impex Pvt Ltd.

Test Performed By: Dr. /Engr. Nauman Khurram

Faisalabad.(Const Of Storage Godowns,Dye House Extension & Yarn Dyeing at Beacon Impex)

Client Reference: B.I/Civil/24-124

SOM Lab

Ref: 4956 (Page-1/1)

Dated: 09-10-2024

Dated: 09-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kisan 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.592	8	0.985	0.79	0.762	19.37	30.53	54070	56060	85230	88360	1.30	8.0	16.3	
2	2.499	8	0.967	0.79	0.734	19.69	30.33	54980	59180	84660	91120	1.20	8.0	15.0	
3	1.522	6	0.754	0.44	0.447	13.15	18.25	65910	64880	91460	90030	1.40	8.0	17.5	
4	1.498	6	0.748	0.44	0.440	14.28	19.29	71590	71590	96670	96670	1.50	8.0	18.8	
5	0.676	4	0.503	0.20	0.199	6.83	9.07	75320	75690	100050	100550	1.50	8.0	18.8	
6	0.673	4	0.502	0.20	0.198	6.75	8.97	74420	75170	98920	99920	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Yasir Ahmad  
GM-Works FF Steel Lahore.

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

Client Reference: Nil  
Dated: 04-10-2024

SOM Lab  
Ref: 4959 (Page-1/1)  
Dated: 09-10-2024

Test: Tension Test & Bend Test  
Gauge Length: 8 inch

Test Specification: ASTM-A-615  
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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.482	6	0.745	0.44	0.436	15.14	19.42	75880	76570	97340	98230	1.30	8.0	16.3	1
2	1.476	6	0.743	0.44	0.434	15.09	19.34	75620	76670	96930	98270	1.20	8.0	15.0	2
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

