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

SAB Constructions. (Shell & Core Works for Colgate Factory,Sundar Estate,Lahore)

Client Reference: SAB/CP/SCW/ST/003 **Dated:** 05-06-2024

SOM Lab Ref: CED/SOM/4278 (Page-1/1) **Dated:** 05-06-2024

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	3.815	25	24.88	491	486	259.70	334.20	529	535	681	688	37.5	200	18.8	
2	2.527	20	20.25	314	322	165.70	217.00	527	515	691	675	32.5	200	16.3	
3	1.552	16	15.87	201	198	111.00	135.70	552	562	675	687	32.5	200	16.3	
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BEND TEST:

25mm	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

Note:-

Only Six Samples Received and Tested

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

Malik Muteen Awan, PE **Test Performed By:** **Dr. /Engr.** Nauman Khurram
MA Engineering Services.(ENGRO ENFRASHARE B2S TOWERS)

Client Reference: MA/UET/LHR/021 **Dated:** 10-05-2024
SOM Lab Ref: CED/SOM/4279 (Page-1/1) **Dated:** 05-06-2024
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	2.250	20	19.12	314	287	151.00	200.70	481	527	639	700	27.5	200	13.8	
2	1.516	16	15.68	201	193	100.50	130.20	500	521	648	675	25.0	200	12.5	
3	0.970	12	12.54	113	124	74.00	90.70	654	599	802	735	25.0	200	12.5	
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BEND TEST:

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:-

Only Six Samples Received and Tested

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

Project Director **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Pelican Builders & Property Consultants (Pvt) Ltd.(Pelican Mall)

SOM Lab

Client Reference: PB/DHAB22/MALL/201 **Ref:** 4273 (Page-1/1)

Dated: 04-06-2024 **Dated:** 05-06-2024

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	2.621	8	0.990	0.79	0.770	22.43	31.96	62610	64240	89220	91530	1.30	8.0	16.3	
2	2.619	8	0.990	0.79	0.770	23.60	33.38	65880	67590	93200	95620	1.30	8.0	16.3	
3	0.648	4	0.492	0.20	0.190	5.45	8.23	60140	63310	90720	95490	1.20	8.0	15.0	
4	0.660	4	0.497	0.20	0.194	5.83	8.87	64300	66290	97800	100820	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

S Nouman Ul Hassan Bukhari **Test Performed By:** **Dr. /Engr.** Nauman Khurrram

APE Building Section DHA Gujranwala.(Const Of 5 Marla Villas, Block D)

Client Reference: 111/3/AD Bldg/Lab/1314 **SOM Lab Ref:** 4274 (Page-1/1)

Dated: 05-06-2024 **Dated:** 05-06-2024

Test: Tension Test Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	1.481	6	0.744	0.44	0.435	14.85	20.82	74450	75300	104340	105540	1.10	8.0	13.8	
2	1.482	6	0.745	0.44	0.436	14.80	20.97	74190	74870	105100	106070	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

Yousaf Adnan, QAM **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Nai Gaj Dam Project For Techno-Consult Intl.(Pvt) Ltd.(Const Supervision of Nai Gaj Dam Project)

Client Reference: QAM/NGD/102/299
Dated: 03-06-2024

SOM Lab Ref: 4275 (Page-1/1)
Dated: 05-06-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 (#6,F-220524-03)
Gauge Length: 8 inch **Sample Type:** Deformed Bar (#4,F-220524-16)

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	1.510	6	0.752	0.44	0.444	15.57	20.03	78020	77320	100400	99500	1.30	8.0	16.3	
2	1.478	6	0.743	0.44	0.434	15.75	19.93	78940	80030	99890	101270	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	6.90	8.48	76100	78050	93530	95920	1.20	8.0	15.0	
4	0.670	4	0.501	0.20	0.197	6.78	8.46	74750	75890	93300	94720	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 Six Samples Received and Tested

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

Engr. Naveed Sadiq **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE Orbit Developers.Lahore.(The Springs Atrium,Gulberg III Lahore)

Client Reference: Nil **SOM Lab Ref:** 4276 (Page-1/1)

Dated: 05-06-2024 **Dated:** 05-06-2024

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	2.641	8	0.994	0.79	0.776	25.48	35.83	71150	72430	100030	101840	1.30	8.0	16.3	
2	2.635	8	0.993	0.79	0.774	25.18	35.68	70290	71750	99600	101660	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

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

Ittefaq Building Solution (Pvt)Ltd.(ABL Plote # 185 T Sector DHA Phase VII)

Client Reference: IBS/ABL/DHA VII-ST001 **SOM Lab Ref:** 4277 (Page-1/1)

Dated: 04-06-2024 **Dated:** 05-06-2024

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	2.561	8	0.979	0.79	0.753	25.28	33.18	70580	74050	92630	97180	1.50	8.0	18.8	
2	2.558	8	0.979	0.79	0.752	25.30	33.25	70630	74200	92830	97520	1.40	8.0	17.5	
3	1.483	6	0.745	0.44	0.436	13.86	18.30	69490	70130	91720	92560	1.30	8.0	16.3	
4	1.468	6	0.741	0.44	0.431	13.93	18.32	69850	71310	91820	93740	1.40	8.0	17.5	
5	1.030	5	0.621	0.31	0.303	10.67	12.74	75930	77690	90650	92750	1.30	8.0	16.3	
6	1.027	5	0.620	0.31	0.302	10.65	12.79	75790	77790	91020	93430	1.30	8.0	16.3	
7	0.657	4	0.496	0.20	0.193	6.07	7.80	66890	69310	85990	89110	1.20	8.0	15.0	
8	0.649	4	0.493	0.20	0.191	6.03	7.85	66550	69680	86560	90630	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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:-

Only Twelve Samples Received and Tested

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

AMCORP Engineering **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Karachi.(Const Of ABL Upper Mall Lahore Plot No 199,200)

SOM Lab
Client Reference: ABL-UML-AMC-QAQC-82 **Ref:** 4280 (Page-1/1)
Dated: 05-06-2024 **Dated:** 05-06-2024

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	2.586	8	0.984	0.79	0.760	24.62	34.00	68730	71440	94910	98650	1.50	8.0	18.8	
2	2.592	8	0.985	0.79	0.762	26.07	34.51	72770	75440	96330	99870	1.40	8.0	17.5	
3	1.588	6	0.771	0.44	0.467	16.06	21.12	80480	75820	105870	99750	1.20	8.0	15.0	
4	1.600	6	0.774	0.44	0.470	16.46	21.48	82520	77250	107660	100790	1.30	8.0	16.3	
5	1.215	5	0.674	0.31	0.357	12.20	15.67	86810	75380	111470	96790	1.20	8.0	15.0	
6	1.157	5	0.658	0.31	0.340	11.49	14.93	81730	74520	106250	96870	1.40	8.0	17.5	
7	0.655	4	0.494	0.20	0.192	6.19	8.07	68230	71080	89030	92740	1.30	8.0	16.3	
8	0.691	4	0.508	0.20	0.203	6.47	8.41	71380	70330	92740	91370	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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:-

Only Twelve Samples Received and Tested

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