

Major Nadeem ur Rehman Khakwani(Retd) **Test Performed By:** Dr. /Engr. S. Asad Ali Gillani
 Resident Engineer, ACES (Pvt) Ltd. Site Office - DHA, Mattital Road, Multan

Client Reference: RE/Sec-I/Test/08

Dated: 08-07-2021

SOM Lab Ref: CED/SOM/4642 (Page-1/1)

Dated: 09-07-2021

Test: Tension & 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	2.224	19	18.98	284	283	130.00	186.20	459	460	657	658	32.5	200	16.3	
2	2.223	19	18.99	284	283	131.50	189.50	464	465	668	670	25.0	200	12.5	
3	1.002	12	12.75	113	128	67.20	86.20	594	527	762	676	30.0	200	15.0	
4	1.002	12	12.75	113	128	66.70	87.70	590	523	775	688	32.5	200	16.3	
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BEND TEST:

19mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

Bestow Interiors

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Project Manager, Green View Appartments DHA Phase V, Lahore

Client Reference: GVAL/01

SOM Lab

Ref:

4638(Page-1/1)

Dated: 09-07-2021

Dated:

09-07-2021

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	2.634	8	0.993	0.79	0.774	29.43	36.56	82160	83860	102080	104190	1.40	8.0	17.5	
2	2.623	8	0.991	0.79	0.771	30.45	37.64	85010	87100	105070	107660	1.40	8.0	17.5	
3	1.482	6	0.745	0.44	0.436	14.39	19.18	72150	72810	96160	97040	1.20	8.0	15.0	
4	1.473	6	0.743	0.44	0.433	16.23	20.34	81340	82660	101940	103580	1.30	8.0	16.3	
5	0.656	4	0.496	0.20	0.193	6.19	8.38	68230	70710	92400	95750	1.30	8.0	16.3	
6	0.661	4	0.497	0.20	0.194	6.17	8.53	68010	70110	94090	97000	1.20	8.0	15.0	
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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

Major Nadeem ur Rehman
Khakwani(Retd)

Resident Engineer, ACES (Pvt) Ltd. Site Office - DHA, Mattital Road, Multan

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: RE/Sec-I/Test/08

Dated: 08-07-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4642(Page-1/1)

Dated: 09-07-2021

ASTM-A-615

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	0.143	6	0.231	0.44	0.042	1.24	1.57	6240	65310	7870	82430	0.50	8.0	6.3	
2	0.131	6	0.220	0.44	0.038	1.47	1.70	7390	85490	8540	98800	0.50	8.0	6.3	
3	0.092	5	0.185	0.31	0.027	1.03	1.20	7330	84100	8560	98250	0.40	8.0	5.0	
4	0.096	5	0.189	0.31	0.028	1.29	1.43	9210	101970	10160	112410	0.40	8.0	5.0	
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BEND TEST:

# 6	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

Mirza Rafaqat Ali
SDO B&R(P) AGE (Army) - BWN

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

Client Reference: 6000/01/E-6

SOM Lab 4643(Page-1/1)
Ref:

Dated: 07-07-2021

Dated: 09-07-2021

Test: Tension Test

Test Specification: ASTM-A-615

Guage 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	1.060	5	0.630	0.31	0.312	10.98	13.20	78110	77610	93920	93320	1.30	8.0	16.3	
2	0.577	4	0.465	0.20	0.170	6.47	7.75	71380	83980	85430	100510	1.00	8.0	12.5	
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BEND TEST:

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

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

Mirza Rafaqat Ali
SDO B&R(P) AGE (Army) - BWN

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

Client Reference: 6000/01/B&R
Dated: 03-02-2021
Test: Tension Test & Bend Test
Guage Length: 8 inch

SOM Lab 4644(Page-1/1)
Ref: 1/1
Dated: 09-07-2021
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	2.586	8	0.984	0.79	0.760	26.07	34.53	72770	75640	96390	100190	1.50	8.0	18.8	
2	1.461	6	0.739	0.44	0.429	16.69	20.44	83640	85790	102450	105070	1.10	8.0	13.8	
3	1.060	5	0.630	0.31	0.312	10.72	13.86	76300	75810	98630	98000	1.20	8.0	15.0	
4	0.594	4	0.472	0.20	0.175	6.63	8.21	73070	83510	90490	103420	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Eight Samples Received and Tested</p>
# 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

Umer Zaheer
 Manager North N-I, (KLP Building Lahore), Allied Bank Lahore

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

Client Reference: HO/ENGG. Cell/AI/2021/351

SOM Lab

Ref: 4645(Page-1/1)

Dated: 07-05-2021

Dated: 09-07-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Ittefaq Steel)

ASTM-A-615

Deformed Bar (Ittefaq 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	1.044	5	0.625	0.31	0.307	10.99	13.66	78180	78940	97180	98130	0.90	8.0	11.3	
2	1.034	5	0.622	0.31	0.304	11.26	14.06	80140	81720	100010	101980	0.90	8.0	11.3	
3	0.673	4	0.502	0.20	0.198	5.71	8.92	62950	63590	98360	99350	1.40	8.0	17.5	
4	0.663	4	0.498	0.20	0.195	5.58	8.87	61490	63070	97800	100300	1.30	8.0	16.3	
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BEND TEST:

# 5	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

Maj Adnan khalid@

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL, Const of 1 Kanal, Houses NGV at DRGCC DHA Ph- VI, (M/S Linker Developers (Pvt) Ltd.)

Client Reference: 408/241/E/Lab/103/19

SOM Lab

Ref: 4646(Page-1/1)

Dated: 09-07-2021

Dated: 09-07-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (MOIZ 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	2.659	8	0.997	0.79	0.781	24.41	35.24	68160	68940	98380	99510	1.20	8.0	15.0	
2	2.665	8	0.998	0.79	0.783	24.49	35.34	68360	68970	98660	99550	1.30	8.0	16.3	
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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

Hafiz Muhammad Irfan
Project Engineer, Carrefour at Hyper Box Gujranwala

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

Client Reference: 3038-BOX/010/2021

SOM Lab 4647(Page-1/2)

Dated: 09-07-2021

Dated: 09-07-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type: Deformed Bar(Ittefaq 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	2.740	8	1.012	0.79	0.805	26.30	36.60	73420	72060	102170	100260	1.30	8.0	16.3	
2	2.629	8	0.992	0.79	0.773	27.73	36.77	77410	79110	102650	104910	1.20	8.0	15.0	
3	0.679	4	0.505	0.20	0.200	5.76	8.51	63510	63510	93860	93860	1.30	8.0	16.3	
4	0.669	4	0.501	0.20	0.197	6.09	9.35	67110	68130	103080	104650	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Hafiz Muhammad Irfan
Project Engineer, Carrefour at Hyper Box Gujranwala

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

Client Reference: 3038-BOX/011/2021

SOM Lab 4647(Page-2/2)
Ref:

Dated: 09-07-2021

Dated: 09-07-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type: Deformed Bar(Ittefaq 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	0.665	4	0.498	0.20	0.195	5.78	8.53	63740	65370	94090	96500	1.50	8.0	18.8	
2	0.672	4	0.501	0.20	0.197	6.12	9.09	67450	68470	100270	101800	1.30	8.0	16.3	
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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

Muhammad Abdullah Khan
Resident Engineer, ES Consultants (Pvt) Ltd.

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

Client Reference: 773/ESC/GM-DSCEA/4397

SOM Lab

Ref: 4648(Page-1/1)

Dated: 09-07-2021

Dated: 09-07-2021

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	2.687	8	1.003	0.79	0.790	24.36	38.18	68020	68020	106580	106580	1.50	8.0	18.8	
2	2.696	8	1.004	0.79	0.792	24.31	38.12	67870	67700	106430	106160	1.40	8.0	17.5	
3	1.605	6	0.775	0.44	0.472	14.48	21.51	72560	67640	107810	100500	1.50	8.0	18.8	
4	1.593	6	0.772	0.44	0.468	14.39	21.58	72150	67830	108170	101700	1.40	8.0	17.5	
5	0.721	4	0.520	0.20	0.212	6.22	9.96	68570	64690	109820	103610	1.10	8.0	13.8	
6	0.710	4	0.516	0.20	0.209	6.27	10.06	69130	66160	110950	106170	1.10	8.0	13.8	
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BEND TEST:

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

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