

Sajid Khawaja

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Senior Manager Civil, OTL, Lahore(Project Orient Square Hotel Tower Johar Town)

Client Reference: ORIENT/AFCO/Hotel Tower/Steel/032**Dated:** 16-01-2020**SOM Lab Ref:** CED/SOM/2056 (Page-1/1)**Dated:** 16-01-2020**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	4.923	28	28.26	616	627	282.20	447.20	458	451	726	714	35.0	200	17.5	
2	4.940	28	28.31	616	629	282.50	447.70	459	449	727	712	35.0	200	17.5	
3	3.767	25	24.72	491	480	212.00	339.50	432	442	692	708	25.0	200	12.5	
4	3.779	25	24.76	491	481	214.00	343.50	436	445	700	714	25.0	200	12.5	
5	2.904	22	21.70	380	370	165.50	257.70	435	448	678	697	32.5	200	16.3	
6	2.963	22	21.92	380	377	172.20	264.00	453	457	694	700	35.0	200	17.5	
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BEND TEST:

28mm' Sample bend through 180 degrees Satisfactorily without any crack

25mm Sample bend through 180 degrees Satisfactorily without any crack

22mm Sample bend through 180 degrees Satisfactorily without any crack

Note:-Only Nine Samples
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sohail Ahmed
Sr. Project Manager, Izhar Construction (Pvt) Ltd. Lahore

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

Client Reference: ICPL/DHA/Dolmen/05

Dated: 24-01-2020

SOM Lab Ref: CED/SOM/2113 (Page-2/2)

Dated: 27-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Amreli 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	2.959	22	21.91	380	377	207.50	257.00	546	551	676	682	32.5	200	16.3	
2	2.942	22	21.85	380	375	198.70	252.50	523	531	664	674	32.5	200	16.3	
3	2.974	22	21.96	380	379	219.50	266.70	577	580	702	705	30.0	200	15.0	
4	2.961	22	21.91	380	377	206.00	257.00	542	547	676	682	35.0	200	17.5	
5	1.595	16	16.09	201	203	110.00	135.20	547	542	672	666	32.5	200	16.3	
6	1.593	16	16.07	201	203	106.50	132.20	530	525	658	652	30.0	200	15.0	
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BEND TEST:

22mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
22mm	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

Sohail Ahmed
Sr. Project Manager, Izhar Construction (Pvt) Ltd. Lahore

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

Client Reference: ICPL/DHA/Dolmen/06

Dated: 25-01-2020

SOM Lab Ref: CED/SOM/2113 (Page-1/2)

Dated: 27-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Amreli 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	3.816	25	24.88	491	486	260.00	339.50	530	535	692	699	30.0	200	15.0	
2	3.807	25	24.85	491	485	265.00	345.50	540	547	704	713	32.5	200	16.3	
3	3.854	25	25.00	491	491	266.20	343.00	542	543	699	699	35.0	200	17.5	
4	3.893	25	25.13	491	496	285.20	360.50	581	576	734	727	30.0	200	15.0	
5	0.876	12	11.92	113	112	63.70	76.70	563	571	678	688	25.0	200	12.5	
6	0.881	12	11.96	113	112	63.00	77.20	557	562	683	688	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
25mm	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

Sajid Khawaja

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Senior Manager Civil, OTL, Lahore(Project Orient Square Hotel Tower Johar Town)

Client Reference: ORIENT/AFCO/Hotel Tower/Steel/036**Dated:** 27-01-2020**SOM Lab Ref:** CED/SOM/2117 (Page-1/1)**Dated:** 27-01-2020**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	3.771	25	24.72	491	480	211.00	332.50	430	440	677	693	35.0	200	17.5	
2	3.761	25	24.70	491	479	212.00	338.00	432	443	689	706	30.0	200	15.0	
3	3.013	22	22.11	380	384	154.00	245.00	405	402	645	639	37.5	200	18.8	
4	3.030	22	22.17	380	386	159.70	249.20	420	414	656	646	37.5	200	18.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
25mm	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

Lt. Col Muhammad Usman

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

ADH (Works) IV, Lahore (Army Offrs Housing Complex, Sector F, Askari -X - Lahore)

Client Reference: 607/Gen/Proj/ADH-IV

SOM Lab

Ref: 2055(Page-2/3)

Dated: 15-01-2020

Dated: 16-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Ambreli 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	1.486	6	0.746	0.44	0.437	16.72	19.88	83800	84370	99640	100320	1.00	8.0	12.5	
2	1.485	6	0.745	0.44	0.436	16.56	19.67	83030	83790	98610	99520	1.30	8.0	16.3	
3	0.660	4	0.497	0.20	0.194	6.75	8.07	74420	76720	89030	91780	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	7.19	8.41	79250	80460	92740	94150	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

Lt. Col Muhammad Usman

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

ADH (Works) IV, Lahore (Army Offrs Housing Complex, Sector F, Askari -X - Lahore)

Client Reference: 607/Gen/Proj/ADH-IV

SOM Lab

Ref: 2055(Page-3/3)

Dated: 15-01-2020

Dated: 16-01-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	2.609	8	0.988	0.79	0.767	27.29	34.78	76180	78470	97100	100010	1.10	8.0	13.8	
2	2.610	8	0.988	0.79	0.767	27.08	34.32	75610	77880	95820	98690	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Lt. Col Muhammad Usman

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

ADH (Works) IV, Lahore (Army Offrs Housing Complex, Sector F, Askari -X - Lahore)

Client Reference: 607/Gen/Proj/ADH-IV

SOM Lab

Ref: 2055(Page-1/3)

Dated: 15-01-2020

Dated: 16-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge 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	2.576	8	0.982	0.79	0.757	28.95	35.93	80820	84350	100320	104690	1.30	8.0	16.3	
2	2.599	8	0.986	0.79	0.764	27.54	35.02	76900	79510	97750	101080	1.00	8.0	12.5	
3	1.489	6	0.747	0.44	0.438	15.14	18.76	75880	76220	94020	94450	0.90	8.0	11.3	
4	1.490	6	0.747	0.44	0.438	17.13	20.54	85840	86230	102960	103430	1.10	8.0	13.8	
5	0.665	4	0.498	0.20	0.195	5.93	8.99	65420	67100	99150	101690	1.30	8.0	16.3	
6	0.657	4	0.496	0.20	0.193	5.91	8.82	65200	67560	97230	100760	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

Brig. Saeed Ahmed Malik

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

SI (M), (R), Resident Engineer, NESPAK(Lahore Development Projects, TEPA / LDA)

Client Reference: 4084/BSAM/104/8

SOM Lab

Ref: 2057 (Page-1/1)

Dated: 14-01-2020

Dated: 16-01-2020

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	1.543	6	0.759	0.44	0.453	15.41	20.54	77260	75040	102960	100000	1.20	8.0	15.0	
2	1.536	6	0.758	0.44	0.451	15.21	20.34	76240	74380	101940	99450	1.40	8.0	17.5	
3	0.672	4	0.501	0.20	0.197	6.83	8.46	75320	76460	93300	94720	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	6.95	8.53	76660	77440	94090	95040	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

Kamran Javed

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Project Coordinator, Birudo Engineers, Lahore(Project: Dawood Heights, Ch Aziz-ud-Din Road, Faisalabad)

Client Reference: BE/2020/019

SOM Lab Ref: 2060 (Page-1/1)

Dated: 14-01-2020

Dated: 16-01-2020

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	1.487	6	0.746	0.44	0.437	14.17	18.98	71020	71510	95140	95790	1.30	8.0	16.3	
2	1.480	6	0.744	0.44	0.435	14.29	19.24	71640	72460	96420	97530	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

M Qasim Farooq(Project Manager)

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

SIA Engineers & Contractors Site ID: NA-2020-01, FFD360,IKL004,FFD364,LDS002, LLH057, MYZR58,R-Site 327,R 2020 0198, FFD432

Client Reference: SIA/Steel/e.co/B2S/003

SOM Lab

Ref: 2059 (Page-1/1)

Dated: 13-12-2019

Dated: 16-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Guage Length: 200 mm

Sample Type: M S 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.851	25	25.00	491	491	263.00	323.50	536	536	659	659	30.0	200	15.0	
2	3.964	25	25.36	491	505	295.00	364.20	601	585	742	722	25.0	200	12.5	
3	2.202	20	18.90	314	280	152.70	196.20	486	545	625	700	27.5	200	13.8	
4	2.208	20	18.93	314	281	158.20	202.00	504	563	643	719	27.5	200	13.8	
5	1.542	16	15.82	201	196	100.70	128.70	501	513	640	656	25.0	200	12.5	
6	1.570	16	15.96	201	200	120.70	144.00	600	604	716	720	25.0	200	12.5	
7	0.986	12	12.64	113	126	59.00	88.50	522	470	783	705	30.0	200	15.0	
8	0.986	12	12.64	113	126	58.20	87.70	515	464	776	699	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve 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	

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

Test Performed by: Dr. S. Asad Ali Gillani

Syed Samiuddin Ahmad
Senior Resident Engineer,
ProMag (Pvt) Ltd. Site Off DHA, Mattital Road Multan

Client Reference No.: CRE/Sec- D/402

Dated: 03-01-2020

SOM Lab Ref: CED/SOM/2058(Page-1/1)

Dated: 16-01-2020

Test: Tensile Test & Elongation at break, Hardness Test

Sample Type: Rubber Gasket Joints 66", Diameter (Long Man)

-Tensile Strength & Elongation Test (ASTM-D-412)

S. No.	Sample Type	Sample Size (mm)	Tensile Load (kN)	Tensile Strength Kgs/cm ²	% Elongation
1	Rubber Ring (66")	11.2	1.8	186.24	470.0

Hardness Test (ASTM-D-2240)

S. No	Sample Size	Sample Type	Hardness (A- Shore)
1	66"	Rubber Gasket (Rubber Ring)	58.5

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

