

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/69

Dated: 20-02-2023

SOM Lab Ref: CED/SOM/2059(Page-1/2)

Dated: 10-04-2023

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	2.464	20	20.00	314	314	158.50	212.20	505	505	675	676	32.5	200	16.3	
2	2.458	20	19.97	314	313	144.00	210.50	458	460	670	673	32.5	200	16.3	
3	1.480	16	15.50	201	189	103.50	135.50	515	549	674	719	30.0	200	15.0	
4	1.497	16	15.58	201	191	103.70	136.70	516	544	680	717	25.0	200	12.5	
5	0.994	12	12.70	113	127	57.20	70.00	506	452	619	553	32.5	200	16.3	
6	1.000	12	12.74	113	127	59.20	71.20	523	465	630	559	25.0	200	12.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
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

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/86

Dated: 25-03-2023

SOM Lab Ref: CED/SOM/2059(Page-2/2)

Dated: 10-04-2023

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	3.848	25	24.98	491	490	229.50	300.00	468	469	611	613	42.5	200	21.3	
2	3.843	25	24.97	491	490	238.00	310.70	485	487	633	635	42.5	200	21.3	
3	1.506	16	15.63	201	192	92.20	139.00	459	481	691	725	35.0	200	17.5	
4	1.514	16	15.67	201	193	93.20	139.70	464	484	695	725	30.0	200	15.0	
5	0.993	12	12.69	113	126	55.20	80.20	488	437	709	635	30.0	200	15.0	
6	0.994	12	12.70	113	127	56.20	80.70	497	444	714	638	32.5	200	16.3	
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BEND TEST:

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

Engr.M.Usman Meer

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Sinaco Engineers.(Const of Nation Foods Galaxy Project at FIEDMC Sahianwala,Faisalabad)

Client Reference: 00157-2023

SOM Lab

Ref: 2060 (Page-1/1)

Dated: 07-04-2023

Dated: 10-04-2023

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	2.659	8	0.997	0.79	0.781	26.32	34.51	73480	74330	96330	97440	1.50	8.0	18.8	
2	2.659	8	0.997	0.79	0.781	26.71	35.09	74560	75420	97950	99080	1.40	8.0	17.5	
3	1.491	6	0.747	0.44	0.438	14.80	19.37	74190	74530	97080	97520	1.30	8.0	16.3	
4	1.486	6	0.746	0.44	0.437	14.80	19.37	74190	74700	97080	97750	1.20	8.0	15.0	
5	0.670	4	0.501	0.20	0.197	6.09	9.30	67110	68130	102520	104080	1.30	8.0	16.3	
6	0.670	4	0.501	0.20	0.197	6.01	9.28	66320	67330	102290	103850	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

Engr. Haseeb Afzal
Project Manager HMB Developers Pvt Ltd.(Commercial Tower, FTC Lahore)

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

Client Reference: HMBDPL/S.O/03/23/33(LHR)

SOM Lab

Ref: 2061 (Page-1/4)

Dated: 07-04-2023

Dated: 10-04-2023

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	2.654	8	0.997	0.79	0.780	24.18	32.69	67500	68370	91270	92440	1.40	8.0	17.5	B # 853
2	2.659	8	0.997	0.79	0.781	26.12	33.10	72910	73750	92400	93470	1.50	8.0	18.8	B # 853
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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

Engr. Haseeb Afzal

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Project Manager HMB Developers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/03/23/31(LHR)

SOM Lab

Ref: 2061 (Page-2/4)

Dated: 07-04-2023

Dated: 10-04-2023

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	1.484	6	0.745	0.44	0.436	14.53	18.60	72810	73480	93250	94110	1.20	8.0	15.0	861-862
2	1.487	6	0.746	0.44	0.437	15.14	19.39	75880	76400	97180	97850	1.40	8.0	17.5	861-862
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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

Engr. Haseeb Afzal

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Project Manager HMB Developers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/03/23/30(LHR)

SOM Lab

Ref: 2061 (Page-3/4)

Dated: 07-04-2023

Dated: 10-04-2023

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	1.501	6	0.749	0.44	0.441	13.22	17.94	66270	66120	89930	89720	1.50	8.0	18.8	B # 278
2	1.503	6	0.750	0.44	0.442	14.68	19.06	73580	73250	95550	95120	1.50	8.0	18.8	B # 278
3	0.665	4	0.498	0.20	0.195	6.09	8.53	67110	68830	94090	96500	1.30	8.0	16.3	B # 278
4	0.663	4	0.498	0.20	0.195	6.12	8.56	67450	69180	94420	96850	1.30	8.0	16.3	B # 278
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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

Engr. Haseeb Afzal

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Project Manager HMB Devlopers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/03/23/32(LHR)

SOM Lab

Ref: 2061 (Page-4/4)

Dated: 07-04-2023

Dated: 10-04-2023

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	2.653	8	0.997	0.79	0.780	25.43	33.49	71000	71920	93490	94680	1.40	8.0	17.5	279
2	2.647	8	0.995	0.79	0.778	26.66	33.66	74420	75570	93970	95420	1.50	8.0	18.8	279
3	0.670	4	0.501	0.20	0.197	6.78	8.92	74750	75890	98360	99860	1.20	8.0	15.0	856-859
4	0.662	4	0.498	0.20	0.195	6.07	8.38	66890	68600	92400	94770	1.30	8.0	16.3	856-859
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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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/161

SOM Lab

Ref:

2062 (Page-1/2)

Dated: 07-04-2023

Dated:

10-04-2023

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	0.669	4	0.501	0.20	0.197	7.00	9.73	77230	78400	107350	108990	1.10	8.0	13.8	
2	0.672	4	0.501	0.20	0.197	7.10	9.68	78350	79540	106790	108420	1.00	8.0	12.5	
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Witnessed By: M. Husnain, Site Engineer (Imperium Developers)

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 Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/162

SOM Lab

Ref:

2062 (Page-2/2)

Dated: 07-04-2023

Dated:

10-04-2023

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	2.681	8	1.002	0.79	0.788	26.57	34.78	74190	74380	97100	97350	1.50	8.0	18.8	
2	2.634	8	0.993	0.79	0.774	25.28	34.02	70580	72040	94970	96930	1.30	8.0	16.3	
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Witnessed By: M. Husnain, Site Engineer (Imperium Developers)

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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/157

SOM Lab

Ref:

2063 (Page-1/1)

Dated: 05-04-2023

Dated:

10-04-2023

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	2.616	8	0.990	0.79	0.769	26.57	36.54	74190	76220	102020	104810	1.50	8.0	18.8	
2	2.628	8	0.991	0.79	0.772	26.22	36.65	73200	74900	102310	104690	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: M. Husnain, Site Engineer (Imperium Developers)

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