

Abdul Rehman
 Manager Marketing, Fazal Steel (Pvt) Ltd. Islamabad

Test Performed By: Dr. /Engr. Numan Khurram

Client Reference: nil
 SOM Lab Ref: CED/SOM/444(Page-1/1)

Dated: 11-03-2019
 Dated: 11-03-2019

Test: Tension Test
 Sample Type: Deformed Bar

Test Specification: ASTM-A 615
 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	0.874	12	11.89	113	111	64.70	87.70	572	583	775	791	27.5	200	13.8	
2	0.875	12	11.91	113	111	54.20	81.00	479	487	716	727	32.5	200	16.3	
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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

Engr M Naveed Sadiq
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: Nil

SOM Lab

Ref: 437-438(Page-1/1)

Dated: 11-03-2019

Dated: 11-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.650	8	0.996	0.79	0.779	29.56	37.28	82530	83700	104070	105540	1.30	8.0	16.3	
2	2.602	8	0.987	0.79	0.765	28.85	38.63	80540	83170	107860	111380	1.20	8.0	15.0	
3	1.552	6	0.762	0.44	0.456	16.92	21.81	84820	81840	109340	105510	1.10	8.0	13.8	
4	1.454	6	0.737	0.44	0.427	15.57	19.72	78020	80400	98870	101880	1.30	8.0	16.3	
5	0.679	4	0.505	0.20	0.200	7.72	9.73	85100	85100	107350	107350	1.00	8.0	12.5	
6	0.662	4	0.498	0.20	0.195	7.77	9.58	85660	87850	105670	108370	1.10	8.0	13.8	
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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 Muhammad Shahzad
GWADAR CENTRAL, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 07-03-2019
Test: Tension Test
Guage Length: 8 inch

Test Specification:
Sample Type:

SOM Lab 441 (Page-2/2)
Ref:
Dated: 11-03-2019
ASTM-A-615
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	2.541	8	0.975	0.79	0.747	25.38	33.89	70860	74940	94620	100070	1.30	8.0	16.3	
2	1.572	6	0.767	0.44	0.462	15.87	21.53	79560	75770	107910	102770	1.10	8.0	13.8	
3	1.020	5	0.618	0.31	0.300	7.29	11.18	51860	53580	79560	82210	1.90	8.0	23.8	
4	0.797	5	0.546	0.31	0.234	5.83	8.97	41490	54960	63820	84550	1.50	8.0	18.8	
5	0.577	4	0.465	0.20	0.170	6.09	7.41	67110	78950	81720	96140	1.00	8.0	12.5	
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BEND TEST:

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

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

Arsalan Arshad

Project Manager, Depac (Const. of Dr. Maqbool Ahmad Block King Edward Medical University (KEMU) Lahore)

Test Performed By:

Dr. /Engr.

M Rizwan Riaz

Client Reference: T-13/03/18

SOM Lab Ref: 442 (Page-1/1)

Dated: 11-03-2019

Dated: 11-03-2019

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	2.615	8	0.989	0.79	0.768	23.57	33.40	65800	67680	93260	95930	1.60	8.0	20.0	
2	2.659	8	0.997	0.79	0.781	26.57	37.33	74190	75050	104210	105410	1.50	8.0	18.8	
3	1.510	6	0.752	0.44	0.444	16.36	20.76	82010	81270	104080	103140	1.20	8.0	15.0	
4	1.481	6	0.744	0.44	0.435	16.08	20.64	80580	81500	103470	104660	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	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

Assistant Engineer Bridges,
Pakistan Railways Sukkur

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: 56-W/360/17/2017/81

SOM Lab

Ref: 443(Page-1/1)

Dated: 11-03-2019

Dated: 11-03-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Itafaq 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	2.654	8	0.997	0.79	0.780	29.15	35.07	81390	82430	97900	99150	1.20	8.0	15.0	
2	2.664	8	0.998	0.79	0.783	29.46	34.63	82250	82980	96670	97540	1.10	8.0	13.8	
3	1.629	6	0.781	0.44	0.479	19.16	23.65	96060	88240	118540	108890	1.10	8.0	13.8	
4	1.650	6	0.786	0.44	0.485	19.16	23.31	96060	87150	116850	106010	0.90	8.0	11.3	
5	1.050	5	0.627	0.31	0.309	9.84	12.79	69990	70210	91020	91310	1.20	8.0	15.0	
6	1.055	5	0.628	0.31	0.310	9.79	12.76	69620	69620	90800	90800	1.30	8.0	16.3	
7	0.700	4	0.512	0.20	0.206	7.44	9.02	82060	79670	99480	96590	0.80	8.0	10.0	
8	0.681	4	0.505	0.20	0.200	7.61	10.14	83970	83970	111850	111850	0.80	8.0	10.0	
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BEND TEST:

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

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