

Fazal Ahmad Awan

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

MD Fazal Malik & Co. Islamabad. (Underground Electrification Work Of PFHP Lahore)

Client Reference: 01/FMC/PAECFHP/EE/UET/22

Dated: 02-11-2022

SOM Lab Ref: CED/SOM/1191(Page-1/1)

Dated: 02-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-F- 1554

Sample Type: J-Bolt (450mmx18mm)

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	2.258	18	19.15	254	288	104.50	161.70	411	363	635	562	40.0	200	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Engr. Mian Mubashar Rafiq

Test Performed By:

Dr. /Engr.

Nauman Khurram

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

Client Reference: UA/SO/2022/030

SOM Lab

Ref:

1186 (Page-1/1)

Dated: 01-11-2022

Dated:

02-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco 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	0.676	4	0.503	0.20	0.199	7.67	9.45	84530	84960	104200	104730	1.00	8.0	12.5	
2	0.676	4	0.503	0.20	0.199	7.75	9.53	85430	85860	105100	105630	1.30	8.0	16.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Siraj Steel

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Plot No 17-A, New Industrial Estate Mirpur Azad Kashmir.

Client Reference: Nil

SOM Lab

Ref: 1187 (Page-1/1)

Dated: 01-11-2022

Dated: 02-11-2022

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	0.679	4	0.505	0.20	0.200	5.96	8.99	65760	65760	99150	99150	1.20	8.0	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Capital Contractor

Test Performed By:

Dr. /Engr.

Nauman Khurram

Site In-Charge Islamabad.(Fast (NU),Plot # 852-B,Faisal Town Lahore)

Client Reference: Nil

SOM Lab

Ref:

1188 (Page-1a/1)

Dated: 02-11-2022

Dated:

02-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittehad 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	2.681	8	1.002	0.79	0.788	32.11	40.29	89640	89870	112470	112750	1.20	8.0	15.0	
2	2.714	8	1.008	0.79	0.798	32.33	40.42	90270	89370	112840	111710	1.10	8.0	13.8	
3	2.593	8	0.985	0.79	0.762	23.60	31.35	65880	68300	87510	90730	1.20	8.0	15.0	
4	2.600	8	0.986	0.79	0.764	23.09	31.09	64460	66650	86800	89750	1.30	8.0	16.3	
5	2.636	8	0.993	0.79	0.775	27.22	34.30	75980	77460	95760	97620	1.20	8.0	15.0	
6	2.643	8	0.995	0.79	0.777	27.44	34.45	76610	77890	96190	97800	1.00	8.0	12.5	
7	2.637	8	0.993	0.79	0.775	23.96	31.50	66880	68170	87940	89640	1.50	8.0	18.8	
8	2.592	8	0.985	0.79	0.762	23.60	31.35	65880	68300	87510	90730	1.50	8.0	18.8	
9	2.709	8	1.007	0.79	0.796	30.99	39.40	86510	85860	109990	109160	1.00	8.0	12.5	
10	2.701	8	1.005	0.79	0.794	31.82	40.13	88850	88400	112040	111480	1.00	8.0	12.5	

BEND TEST:

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

Capital Contractor

Test Performed By:

Dr. /Engr.

Nauman Khurram

Site In-Charge Islamabad.(Fast (NU),Plot # 852-B,Faisal Town Lahore)

Client Reference: Nil

SOM Lab

Ref:

1188 (Page-1b/1)

Dated: 02-11-2022

Dated:

02-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittehad 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	2.670	8	1.000	0.79	0.785	31.01	39.35	86570	87120	109850	110550	1.20	8.0	15.0	
2	2.685	8	1.002	0.79	0.789	32.31	40.06	90210	90330	111840	111980	1.00	8.0	12.5	
3	1.496	6	0.748	0.44	0.440	16.77	21.33	84050	84050	106890	106890	1.30	8.0	16.3	
4	1.504	6	0.750	0.44	0.442	17.60	21.61	88240	87840	108320	107830	1.20	8.0	15.0	
5	1.491	6	0.747	0.44	0.438	16.64	21.22	83390	83770	106380	106870	1.10	8.0	13.8	
6	1.496	6	0.748	0.44	0.440	16.51	21.33	82780	82780	106890	106890	1.20	8.0	15.0	
7	1.029	5	0.620	0.31	0.302	11.93	14.55	84850	87100	103490	106230	1.10	8.0	13.8	
8	1.009	5	0.615	0.31	0.297	11.13	13.99	79200	82660	99500	103860	1.10	8.0	13.8	
9	1.011	5	0.615	0.31	0.297	11.42	14.07	81230	84780	100080	104460	1.00	8.0	12.5	
10	1.013	5	0.616	0.31	0.298	12.35	14.70	87900	91440	104580	108790	1.10	8.0	13.8	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	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
# 5	Sample bend through 180 degrees Satisfactorily without any crack

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

Capital Contractor

Test Performed By:

Dr. /Engr.

Nauman Khurram

Site In-Charge Islamabad.(Fast (NU),Plot # 852-B,Faisal Town Lahore)

Client Reference: Nil

SOM Lab

Ref:

1188 (Page-1c/1)

Dated: 02-11-2022

Dated:

02-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittehad 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	0.670	4	0.501	0.20	0.197	5.81	8.92	64080	65050	98360	99860	1.30	8.0	16.3	
2	0.663	4	0.498	0.20	0.195	5.73	8.77	63180	64800	96670	99150	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	5.71	8.79	62950	63910	96900	98370	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	5.73	8.74	63180	64140	96340	97800	1.40	8.0	17.5	
5	0.664	4	0.498	0.20	0.195	5.68	8.87	62610	64220	97800	100300	1.40	8.0	17.5	
6	0.667	4	0.500	0.20	0.196	5.81	9.12	64080	65380	100610	102660	1.50	8.0	18.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 4	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. Naveed Sadiq
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 1189 (Page-1/1)

Dated: 02-11-2022

Dated: 02-11-2022

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	25.26	36.26	70520	72450	101230	103990	1.20	8.0	15.0	
2	2.666	8	0.998	0.79	0.783	25.30	36.85	70630	71270	102880	103800	1.40	8.0	17.5	
3	1.504	6	0.750	0.44	0.442	13.71	19.27	68730	68410	96570	96130	1.50	8.0	18.8	
4	1.508	6	0.751	0.44	0.443	13.73	19.37	68830	68360	97080	96420	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	7.21	8.94	79470	81100	98580	100600	1.00	8.0	12.5	
6	0.676	4	0.503	0.20	0.199	7.19	8.89	79250	79650	98020	98510	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

ICON Construction Services

Test Performed By:

Dr. /Engr.

Nauman Khurram

Lahore.(Embroidery Export Corporation production Building at Daska Road Sialkot)

Client Reference: Nil

SOM Lab

Ref:

1190 (Page-1/1)

Dated: 02-11-2022

Dated:

02-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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	2.662	8	0.998	0.79	0.782	25.94	33.74	72430	73170	94200	95160	1.70	8.0	21.3	
2	2.654	8	0.997	0.79	0.780	25.76	33.56	71920	72840	93680	94890	1.70	8.0	21.3	
3	1.502	6	0.749	0.44	0.441	15.24	19.29	76390	76220	96670	96450	1.30	8.0	16.3	
4	1.497	6	0.748	0.44	0.440	15.21	19.39	76240	76240	97180	97180	1.40	8.0	17.5	
5	1.073	5	0.633	0.31	0.315	11.26	14.04	80140	78870	99860	98280	1.00	8.0	12.5	
6	1.069	5	0.632	0.31	0.314	11.69	14.55	83180	82120	103490	102170	1.10	8.0	13.8	
7	0.676	4	0.503	0.20	0.199	6.37	8.26	70260	70610	91050	91510	1.40	8.0	17.5	
8	0.678	4	0.503	0.20	0.199	6.32	8.10	69700	70050	89370	89820	1.20	8.0	15.0	
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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