

Test Performed by: Dr. M/ Irfan Ul Hassan

Abdul Aleem Khalid
Al-Khair Global (Pvt) Ltd.
Al-Khair House, 43-T, Al-Khair Chowk
Al-Khair Road, gulberg II, Lahore

Client Reference No.: Nil

Dated: 12-08-2021

SOM Lab Ref: CED/SOM/4792 (Page 1/1)

Dated: 12-08-2021

Test Type: Tensile Test

Sample Type: Spring Wire (2.2mm & 1.4mm Diameter)

Tensile Test Results

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)
1	Wire	2.2	5.0	1315.3
2	Wire	1.4	1.5	974.4

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

Test Performed by: Dr. Asad Ali Gillani

General Manager
United Wire Products Co.
G. T. Road Salamatpura Bus Stop.Lahore

Client Reference No.: Nil

Dated: 09-03-2021

SOM Lab Ref: CED/SOM/3996 (Page 2/2)

Dated: 09-03-2021

Test Type: Tensile Test

Sample Type: Hot Dip Wire (SWG-24)

Tensile Test Results

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)	Ultimate Tensile Stress (ksi)
1	Hot Dip Wire SWG-24	0.55	.76	3198	463.96

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

Engr Zaheer ud Din Babar

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Deputy Genral Manager (Projects) Habib Rafiq Engineering (Pvt) Ltd. Lahore

Client Reference: HRLE/SKG/2021/016

Dated: 12-08-2021

SOM Lab Ref: CED/SOM/4790-4791(Page-1/1)

Dated: 12-08-2021

Test: TensileTest & 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	2.969	22	21.94	380	378	160.70	249.20	423	426	656	660	27.5	200	13.8	
2	2.947	22	21.86	380	375	157.00	241.50	413	419	635	644	30.0	200	15.0	
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BEND TEST:

22mm	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

Procurement OfficerPurchase
Bismillah Housing Scheme Manawan Bank Stop G. T. Road Lahore

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Client Reference: Nil

SOM Lab Ref: 4787 (Page-1/1)

Dated: 12-08-2021

Dated: 12-08-2021

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	2.546	8	0.976	0.79	0.748	23.52	34.32	65650	69340	95820	101200	1.00	8.0	12.5	
2	1.480	6	0.744	0.44	0.435	13.66	18.52	68470	69260	92840	93910	1.10	8.0	13.8	
3	0.673	4	0.502	0.20	0.198	6.27	8.33	69130	69830	91840	92770	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	
# 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 SI(M)
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 4084/BSAM/104/451

SOM Lab Ref: 4788(Page-1/1)

Dated: 19-06-2021

Dated: 12-08-2021

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	1.468	6	0.741	0.44	0.431	13.40	19.29	67190	68600	96670	98690	1.60	8.0	20.0	
2	1.494	6	0.748	0.44	0.439	13.30	19.27	66680	66830	96570	96790	1.20	8.0	15.0	
3	0.660	4	0.497	0.20	0.194	6.44	8.33	71040	73240	91840	94680	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.42	8.41	70820	72640	92740	95120	1.40	8.0	17.5	
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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. Abdul Kareem Memon

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Resident Engineer, BSC. Civil Engineering, (MPEC) Allied Engineering Consultants (Pvt) Ltd.

Client Reference: AEC/MBC/2021/101

SOM Lab Ref: 4789(Page-1/1)

Dated: 09-08-2021

Dated: 12-08-2021

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	2.694	8	1.004	0.79	0.792	24.64	34.68	68790	68610	96820	96570	1.50	8.0	18.8	
2	2.706	8	1.006	0.79	0.795	24.54	34.61	68500	68070	96620	96010	1.40	8.0	17.5	
3	1.505	6	0.750	0.44	0.442	14.14	19.59	70870	70550	98210	97760	1.20	8.0	15.0	
4	1.508	6	0.751	0.44	0.443	14.02	19.69	70260	69780	98720	98050	1.20	8.0	15.0	
5	0.693	4	0.510	0.20	0.204	6.47	9.02	71380	69980	99480	97530	1.30	8.0	16.3	
6	0.688	4	0.507	0.20	0.202	6.42	8.94	70820	70120	98580	97610	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

Sub Divisional Officer
Buildings Sub Division, No 01, Bhawalpur

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

Client Reference: 134/ BWP

SOM Lab Ref: 4782(Page-1/1)

Dated: 04-08-2021

Dated: 11-08-2021

Test: Tension 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	2.638	8	0.993	0.79	0.775	33.54	39.76	93630	95440	110990	113130	1.10	8.0	13.8	
2	2.637	8	0.993	0.79	0.775	33.64	39.91	93910	95730	111410	113570	1.00	8.0	12.5	
3	1.485	6	0.745	0.44	0.436	17.64	21.81	88400	89210	109340	110350	1.50	8.0	18.8	
4	1.487	6	0.746	0.44	0.437	17.33	21.00	86860	87460	105260	105980	1.30	8.0	16.3	
5	0.671	4	0.501	0.20	0.197	6.78	9.09	74750	75890	100270	101800	1.00	8.0	12.5	
6	0.673	4	0.502	0.20	0.198	6.63	8.94	73070	73810	98580	99580	1.20	8.0	15.0	
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BEND TEST:

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

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

Zou Jiawei

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Project Manager, China Energy Engineering Group Northeast No. 2, Electric Power Construction Co.

Client Reference: DD-401A-FA-482

SOM Lab Ref: 4793(Page-1/1)

Dated: 11-08-2021

Dated: 12-08-2021

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	27.73	35.12	77410	77410	98040	98040	1.30	8.0	16.3	
2	2.679	8	1.001	0.79	0.787	27.54	35.14	76900	77190	98100	98470	1.20	8.0	15.0	
3	1.511	6	0.752	0.44	0.444	15.62	20.08	78280	77570	100660	99750	1.60	8.0	20.0	
4	1.507	6	0.751	0.44	0.443	14.95	19.39	74960	74450	97180	96530	1.50	8.0	18.8	
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Witnessed By: Suhail Ashraf

BEND TEST:

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

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

Sub Divisional Officer
Building Sub Division Nankana Sahib

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

Client Reference: 34/SDO/BSD/NNS

SOM Lab Ref: 4794(Page-1/1)

Dated: 09-07-2021

Dated: 12-08-2021

Test: Tension Test & Bend 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	1.497	6	0.748	0.44	0.440	12.51	20.05	62700	62700	100500	100500	1.40	8.0	17.5	
2	1.510	6	0.752	0.44	0.444	13.40	19.37	67190	66590	97080	96210	1.50	8.0	18.8	
3	0.669	4	0.501	0.20	0.197	5.78	7.95	63740	64710	87680	89020	1.40	8.0	17.5	
4	0.670	4	0.501	0.20	0.197	6.52	9.57	71940	73040	105550	107160	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

Abid Mann
Construction Manager, One Liberty, Lahore

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

Client Reference: OL/2021/09/01

SOM Lab Ref: 4907(Page-1/1)

Dated: 01-09-2021

Dated: 02-09-2021

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	2.736	8	1.012	0.79	0.804	22.32	36.49	62330	61240	101880	100110	1.20	8.0	15.0	
2	2.696	8	1.004	0.79	0.792	22.43	39.52	62610	62450	110330	110050	1.10	8.0	13.8	
3	0.679	4	0.505	0.20	0.200	6.17	9.48	68010	68010	104540	104540	1.00	8.0	12.5	
4	0.669	4	0.501	0.20	0.197	6.18	9.55	68120	69160	105330	106930	1.10	8.0	13.8	
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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 Ozair Ahmad
Deputy Director (QCD), WASA, LDA, Lahore

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

Client Reference: QCD/ 1066-67

SOM Lab Ref: 4796(Page-1/1)

Dated: 05-08-2021

Dated: 12-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type: Deformed Bar

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	0.699	4	0.511	0.20	0.205	4.81	7.00	53060	51770	77230	75340	1.50	8.0	18.8	
2	0.702	4	0.512	0.20	0.206	4.91	6.98	54180	52610	77000	74760	1.60	8.0	20.0	
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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 Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/0110

SOM Lab Ref: 4797(Page-1/1)

Dated: 11-08-2021

Dated: 12-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	2.644	8	0.995	0.79	0.777	23.39	34.53	65310	66410	96390	98000	1.60	8.0	20.0	
2	2.639	8	0.994	0.79	0.776	23.52	34.45	65650	66840	96190	97920	1.40	8.0	17.5	
3	2.636	8	0.993	0.79	0.775	23.50	34.58	65600	66870	96530	98400	1.50	8.0	18.8	
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Witnessed By: Rafi Ullah (IHPL) & Ali Hasnain Khan, Jr. Planing Engineer, Kingcrete Builders.

BEND TEST:

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

Muhammad Naveed Shahzad
A/XEN/ SDO B & R-III, 702 PWS (Jarikas)

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

Client Reference: 6000/ 05/E-6

SOM Lab Ref: 4798(Page-1/1)

Dated: 15-07-2021

Dated: 12-08-2021

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type: Deformed Bar

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	2.618	8	0.990	0.79	0.769	24.18	33.91	67500	69350	94680	97270	1.60	8.0	20.0	
2	2.608	8	0.988	0.79	0.766	24.23	33.94	67650	69770	94770	97740	1.40	8.0	17.5	
3	1.473	6	0.743	0.44	0.433	12.30	17.71	61670	62670	88750	90190	1.50	8.0	18.8	
4	1.478	6	0.743	0.44	0.434	12.35	17.81	61930	62790	89260	90500	1.60	8.0	20.0	
5	1.060	5	0.630	0.31	0.312	9.89	13.35	70350	69900	95000	94400	1.30	8.0	16.3	
6	1.070	5	0.632	0.31	0.314	9.55	13.32	67960	67090	94790	93580	1.40	8.0	17.5	
7	0.668	4	0.500	0.20	0.196	6.83	9.79	75320	76850	107910	110120	1.50	8.0	18.8	
8	0.660	4	0.497	0.20	0.194	6.83	9.84	75320	77650	108480	111830	1.70	8.0	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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