

Engr. Zaheer Ud Din Babar

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Dy. General Manager Projects.HRL Engineering (Pvt.) Ltd.(Const Of sky Gardens Tower,Lahore)

1327 (Page-

**Client Reference:** HRLE/SKG/2022/087/2392-3

**SOM Lab Ref:** 1/1)

**Dated:** 29-11-2022

**Dated:** 29-11-2022

**Test:** Tension Test

**Test Specification:** ASTM-A-615

**Guage Length:** 200 mm

**Sample Type:** MS 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.877	12	11.94	113	112	60.20	80.20	533	538	710	717	30.0	200	15.0	
2	0.889	12	12.01	113	113	61.20	81.00	542	541	717	716	27.5	200	13.8	
3	0.893	12	12.03	113	114	57.50	82.00	509	506	726	722	30.0	200	15.0	
4	0.864	12	11.84	113	110	47.00	74.20	416	428	657	675	35.0	200	17.5	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
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](http://www.uet-civil.edu.pk)

Engr. Muhammad Waqas  
Project Engr Design Matrix.(E-Site Project)

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

Client Reference: Nil

SOM Lab

Ref: 1320 (Page-1/1)

Dated: 28-11-2022

Dated: 29-11-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.633	8	0.993	0.79	0.774	26.25	37.07	73280	74800	103500	105640	1.20	8.0	15.0	
2	2.599	8	0.986	0.79	0.764	25.64	36.46	71570	74010	101800	105260	1.40	8.0	17.5	
3	0.675	4	0.502	0.20	0.198	7.29	9.25	80370	81190	101960	102990	1.20	8.0	15.0	
4	0.670	4	0.501	0.20	0.197	7.19	9.17	79250	80460	101170	102710	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Muhammad Shahzad Anwar

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

RE Nespak Bwp.(Const Of Road From Bwp Jhangra Sharqi Interchange L 42.0 Km Distt.Bwp)

Client Reference: RE/SA-467(B)/MSA-JS/119

SOM Lab

Ref: 1321 (Page-1/1)

Dated: 21-11-2022

Dated: 29-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Islamabad 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.669	4	0.501	0.20	0.197	7.08	9.25	78130	79320	101960	103510	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	7.03	9.19	77560	79150	101390	103460	1.30	8.0	16.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Tahir Mehmood, Chief Engr

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Zaitoon, New Lahore City. (Const Of Record Room By Shadman Const Company, New Lahore City)

Client Reference: NLC/CE/Const/70

SOM Lab

Ref: 1322 (Page-1/1)

Dated: 29-11-2022

Dated: 29-11-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.474	6	0.743	0.44	0.433	13.73	21.58	68830	69940	108170	109920	1.00	8.0	12.5	
2	1.480	6	0.744	0.44	0.435	13.97	21.60	70000	70810	108270	109520	1.00	8.0	12.5	
3	0.669	4	0.501	0.20	0.197	5.56	8.31	61270	62200	91610	93010	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	5.86	8.58	64640	65620	94650	96090	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Sajid Hussain Sadiq

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

SE Sitara Heights.(Project "Sitara Serena Tower 62D,Gulberg 3 Lahore)

Client Reference: SHPL/Sitara Serena Tower/LHR/14

SOM Lab

Ref:

1324 (Page-1/1)

Dated: 29-11-2022

Dated:

29-11-2022

Test: Tension Test &amp; 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.624	8	0.991	0.79	0.771	23.14	33.00	64600	66190	92120	94390	1.50	8.0	18.8	
2	2.615	8	0.989	0.79	0.768	23.72	33.25	66220	68120	92830	95490	1.70	8.0	21.3	
3	1.494	6	0.748	0.44	0.439	15.75	20.00	78940	79120	100250	100480	1.30	8.0	16.3	
4	1.530	6	0.757	0.44	0.450	14.90	19.59	74700	73040	98210	96020	1.30	8.0	16.3	
5	0.676	4	0.503	0.20	0.199	6.54	8.89	72170	72530	98020	98510	1.50	8.0	18.8	
6	0.677	4	0.503	0.20	0.199	6.42	8.89	70820	71180	98020	98510	1.40	8.0	17.5	
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**BEND TEST:**

# 8 Sample bend through 180 degrees Satisfactorily without any crack

# 6 Sample bend through 180 degrees Satisfactorily without any crack

# 4 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](http://www.uet-civil.edu.pk)

M.Waqas Anwar

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

RE Nespak Lhr.(Improvement Of Lahore-Jaranwal Rd From Saggain Bypass To Begum Kot)

Client Reference: 3772/SB-BK/103/MWA/04/14

SOM Lab

Ref: 1325 (Page-1/2)

Dated: 16-11-2022

Dated: 29-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SJ 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.63	9.73	73070	74180	107350	108990	1.30	8.0	16.3	
2	0.672	4	0.501	0.20	0.197	6.63	9.91	73070	74180	109260	110930	1.20	8.0	15.0	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

M.Waqas Anwar

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

RE Nespak Lhr.(Improvement Of Lahore-Jaranwal Rd From Saggain Bypass To Begum Kot)

Client Reference: 3772/SB-BK/103/MWA/04/15

SOM Lab

Ref: 1325 (Page-2/2)

Dated: 16-11-2022

Dated: 29-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SJ 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.056	5	0.628	0.31	0.310	10.57	14.90	75210	75210	106030	106030	1.30	8.0	16.3	
2	1.056	5	0.628	0.31	0.310	11.08	14.73	78830	78830	104800	104800	1.30	8.0	16.3	
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**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

**Test Performed by:** S. Asad Ali Gillani

Hafiz M. Umair  
Site Engineer  
Lahore.  
(Construction Of Residence Adm.Imran Nasir Sh)

**Client Reference No.:** Nil

Dated: 29-11-2022

**SOM Lab Ref:** CED/SOM/1323 (Page 1/1)

Dated: 29-11-2022

**Test Type:** Tensile Test

**Sample Type:** Rawal Bolt (Dia 5/8")

**Test Specification:** ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Diameter of Bolt (Inch)	Yield Load (kN)	Ultimate Load (kN)	Yield Tensile Stress (Psi)	Ultimate Tensile Stress (Psi)	% Elongation
1	Rawal Bolt	5/8	50.0	73.2	36260	53090	35.0
2	Rawal Bolt	5/8	53.20	79.0	38590	57300	30.0

**Note:** Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



