

M. Nadeem Baig  
Multan

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

Client Reference: Nil  
SOM Lab Ref: CED/SOM/4370 (Page-1/1)  
Test: Tension Test  
Sample Type: Plane Bar ( Round Bar)

Dated: 01-06-2021  
Dated: 01-06-2021  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.514	20	20.19	314	320	146.70	225.50	467	459	718	705	32.5	200	16.3	( A )
2	2.475	20	20.04	314	315	157.70	240.00	502	501	764	762	35.0	200	17.5	( B )
3	2.420	20	19.81	314	308	148.00	229.50	471	481	731	745	12.5	200	6.3	( C )
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**BEND TEST:**

--	No Bend test performed	<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)

Jafar Hussain Randhawa

**Test Performed By:**

Dr. /Engr.

S Asad Ali Gillani

Resident Engineer, (ECSP) Engineering Consultancy Services Punjab (Pvt) Ltd. Lahore

**Client Reference:** ECSP/MDA/MCF/011

**Dated:** 27-05-2021

**SOM Lab Ref:** CED/SOM/4371 (Page-1/1)

**Dated:** 01-06-2021

**Test:** Tension Test & Bend Test

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

**Sample Type:** Deformed Bar (Moiz Steel)

**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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.988	25	25.43	491	508	237.50	353.00	484	468	719	695	42.5	200	21.3	
2	4.044	25	25.61	491	515	237.50	354.00	484	462	721	688	40.0	200	20.0	
3	2.486	20	20.08	314	317	150.70	218.70	480	476	696	691	37.5	200	18.8	
4	2.483	20	20.07	314	316	149.70	219.00	477	474	697	693	35.0	200	17.5	
5	1.596	16	16.09	201	203	93.00	135.00	463	458	671	665	32.5	200	16.3	
6	1.578	16	16.00	201	201	92.80	135.50	462	462	674	675	35.0	200	17.5	
7	0.931	12	12.29	113	119	51.70	80.70	457	436	714	681	30.0	200	15.0	
8	0.916	12	12.19	113	117	54.20	83.20	479	465	736	714	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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](http://www.uet-civil.edu.pk)

Muhammad Shafi

**Test Performed By:**

Dr. /Engr.

Nauman Khurram

Dy. Manager QA/QC, Quaid-E-Azam Business Park, Sheikhpura

**Client Reference:** QA/QC/QABP/MPC/01

**Dated:** 31-05-2021

**SOM Lab Ref:** CED/SOM/4372(Page-1/1)

**Dated:** 01-06-2021

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.000	25	25.48	491	510	284.50	363.20	580	558	740	713	25.0	200	12.5	
2	3.986	25	25.43	491	508	281.00	361.00	572	554	735	711	32.5	200	16.3	
3	2.289	19	19.27	284	292	132.00	183.00	466	453	645	628	37.5	200	18.8	
4	2.260	19	19.15	284	288	143.20	193.50	505	498	682	673	27.5	200	13.8	
5	0.990	12	12.67	113	126	58.50	78.70	517	464	696	624	30.0	200	15.0	
6	0.977	12	12.59	113	124	60.50	81.00	535	486	716	651	32.5	200	16.3	
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**Witnessed By:** Hafiz M. Akram, Site Engr. PIEDMC

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
19mm	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](http://www.uet-civil.edu.pk)

Sajjad Ali Memon  
Resident Engineer, Pillar & Sons, DHA Multan

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: P&S/OTH/GEN/00025  
Dated: 29-05-2021  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 4365(Page-1/1)  
Dated: 01-06-2021  
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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.493	6	0.748	0.44	0.439	16.28	20.71	81600	81790	103830	104060	1.20	8.0	15.0	
2	1.501	6	0.749	0.44	0.441	15.87	20.36	79560	79380	102040	101810	1.10	8.0	13.8	
3	0.681	4	0.505	0.20	0.200	6.52	9.86	71940	71940	108700	108700	1.40	8.0	17.5	
4	0.696	4	0.511	0.20	0.205	6.37	9.65	70260	68540	106450	103860	1.30	8.0	16.3	
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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)

Muhammad Salman  
Project Manager, Al- Noor Developers, Lahore

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

Client Reference: nil

SOM Lab 4366(Page-

Ref: 1/1)

Dated: 01-06-2021

Dated: 01-06-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%		
1	1.509	6	0.751	0.44	0.443	14.75	20.13	73940	73440	100910	100230	1.30	8.0	16.3		
2	0.648	4	0.492	0.20	0.190	6.78	8.97	74750	78690	98920	104130	1.00	8.0	12.5		
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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)

PK Steel

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Peco Chowk Godown No. 78, Near New Haidery Kanta, Badami Bagh, Lahore

Client Reference: Nil

SOM Lab

Ref: 4368(Page-1/1)

Dated: 01-06-2021

Dated: 01-06-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.646	4	0.492	0.20	0.190	5.05	7.50	55650	58570	82730	87090	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 Two 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)

Saeedullah Jan

**Test Performed By:**

Dr. /Engr.

S. Asad Ali  
Gillani

Resident Engineer, NESPAK Office, 3rd Floor Karachi Hotel, Chitta Morh, Murree.

**Client Reference:** REF/4149/40/148

**SOM Lab**

**Ref:** 4296(Page-1/1)

**Dated:** 04-05-2021

**Dated:** 04-05-2021

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.680	8	1.002	0.79	0.788	32.52	38.71	90780	91010	108060	108330	1.20	8.0	15.0	
2	2.684	8	1.002	0.79	0.789	32.47	38.74	90640	90750	108140	108280	1.20	8.0	15.0	
3	1.549	6	0.761	0.44	0.455	16.46	20.49	82520	79800	102700	99320	1.20	8.0	15.0	
4	1.553	6	0.762	0.44	0.456	17.64	21.41	88400	85290	107300	103540	1.10	8.0	13.8	
5	0.663	4	0.498	0.20	0.195	6.95	8.61	76660	78630	94990	97420	1.00	8.0	12.5	
6	0.660	4	0.497	0.20	0.194	6.90	8.72	76100	78460	96110	99080	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 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](http://www.uet-civil.edu.pk)

Muhammad Arif  
Sr.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil  
Dated: 01-06-2021  
Test: Tension Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 4367(Page-1/1)  
Dated: 01-06-2021  
Test Specification: ASTM-A-615  
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	0.618	4	0.481	0.20	0.182	5.45	7.85	60140	66090	86560	95120	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 Two 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)



Obaid Ullah

**Test Performed By:**

Dr. /Engr. S. Asad Ali Gillani

CE/Engineer's Representative, NESPAK (Proj. Infra Devel. Of Federal Govt. Employees Housing Scheme,)

**Client Reference:** 3690/321/104/OU/11(a)/45

**SOM Lab Ref:** 4369(Page-1/1)

**Dated:** 31-05-2021

**Dated:** 01-06-2021

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.546	6	0.760	0.44	0.454	13.51	18.67	67700	65620	93610	90720	1.10	8.0	13.8	
2	1.048	5	0.626	0.31	0.308	11.31	13.66	80500	81020	97180	97810	1.00	8.0	12.5	
3	0.669	4	0.501	0.20	0.197	5.25	8.15	57890	58770	89930	91300	1.30	8.0	16.3	
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**Witnessed By:** Riaz Ahmad Bhutta, Asstt. Engr. NESPAK

**BEND TEST:**

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