Nasir Mahmood
Resident Engineer, ESAC Sector K DHA Multan

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

Client Reference: RE/ESAC/SECTOR-K/78 **Dated:** 02-11-2021
SOM Lab Ref: CED/SOM/5273(Page-1/1) **Dated:** 09-11-2021
Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615
Sample Type: Deformed Bar (Ittefaq 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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.248	20	19.08	314	286	154.70	188.50	492	541	600	660	25.0	200	12.5	
2	2.304	20	19.33	314	294	133.70	175.50	426	456	559	598	27.5	200	13.8	
3	0.993	13	12.69	133	127	57.70	89.20	435	456	672	705	30.0	200	15.0	
4	0.989	13	12.66	133	126	58.50	89.50	441	465	674	711	32.5	200	16.3	
5	0.992	13	12.68	133	126	53.70	78.20	405	426	589	619	37.5	200	18.8	
6	1.000	13	12.74	133	127	54.00	79.50	407	424	599	625	37.5	200	18.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
13mm	Sample bend through 180 degrees Satisfactorily without any crack
13mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Usman Ibrahim Construction
CCA-124, Phase-IV, DHA, Lahore

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

Client Reference: UICP/11/3A/GULBERG/LHE/01
Dated: 08-11-2021

SOM Lab Ref: 5272(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.592	8	0.985	0.79	0.762	29.36	39.76	81960	84970	110990	115060	1.10	8.0	13.8	
2	2.616	8	0.990	0.79	0.769	26.25	36.75	73280	75280	102590	105390	1.10	8.0	13.8	
3	1.520	6	0.754	0.44	0.447	15.62	22.91	78280	77050	114810	113010	1.10	8.0	13.8	
4	1.516	6	0.754	0.44	0.446	15.29	22.58	76640	75610	113180	111650	1.20	8.0	15.0	
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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

Note:-

Only Six Samples Received and Tested

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

Nouman Rafique
Chief Technical Officer, Sabcon Associates (Pvt.) Ltd.

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

Client Reference: SABCON/2021/CTO/01
Dated: 08-11-2021

SOM Lab Ref: 5274(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (FF 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	2.652	8	0.996	0.79	0.779	27.22	35.75	75980	77060	99800	101210	1.20	8.0	15.0	
2	2.661	8	0.998	0.79	0.782	27.73	36.06	77410	78200	100660	101690	1.30	8.0	16.3	
3	1.477	6	0.743	0.44	0.434	16.06	20.10	80480	81590	100760	102150	1.10	8.0	13.8	
4	1.418	6	0.729	0.44	0.417	13.53	17.35	67810	71540	86970	91760	1.30	8.0	16.3	
5	0.675	4	0.502	0.20	0.198	6.54	9.14	72170	72900	100830	101850	1.30	8.0	16.3	
6	0.674	4	0.502	0.20	0.198	6.52	9.14	71940	72670	100830	101850	1.30	8.0	16.3	
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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 Tested

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

Usman Ibrahim Construction
CCA-124, Phase-IV, DHA, Lahore

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

Client Reference: UICP/11/3A/GULBERG/LHE/01
Dated: 08-11-2021

SOM Lab Ref: 5272(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.592	8	0.985	0.79	0.762	29.36	39.76	81960	84970	110990	115060	1.10	8.0	13.8	
2	2.616	8	0.990	0.79	0.769	26.25	36.75	73280	75280	102590	105390	1.10	8.0	13.8	
3	1.520	6	0.754	0.44	0.447	15.62	22.91	78280	77050	114810	113010	1.10	8.0	13.8	
4	1.516	6	0.754	0.44	0.446	15.29	22.58	76640	75610	113180	111650	1.20	8.0	15.0	
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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

Note:-

Only Five Samples Received and Tested

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

Nafiz OZCAN
Contractor's Representative, SA-RA Group, Lahore

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

Client Reference: 1176
Dated: 09-11-2021

SOM Lab Ref: 5275(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.660	8	0.998	0.79	0.782	24.84	35.34	69350	70060	98660	99670	1.30	8.0	16.3	
2	2.769	8	1.018	0.79	0.814	26.40	36.87	73710	71540	102930	99900	1.10	8.0	13.8	
3	2.707	8	1.007	0.79	0.796	25.38	36.00	70860	70330	100510	99760	1.20	8.0	15.0	
4	1.463	6	0.740	0.44	0.430	15.72	20.00	78790	80620	100250	102580	1.20	8.0	15.0	
5	1.502	6	0.749	0.44	0.441	16.02	20.44	80320	80140	102450	102210	1.40	8.0	17.5	
6	1.478	6	0.743	0.44	0.434	15.51	19.95	77770	78840	99990	101380	1.50	8.0	18.8	
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Witnessed By: Zohaib Ali, Sub Engineer, NESPAK

BEND TEST:

#8(Sr.1 to 3)	Sample bend through 180 degrees Satisfactorily without any crack
#6(Sr.4 to 6)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Ahmad Raza Gurmani
Sr. QA/QC Manager, Blue World City, Islamabad

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

Client Reference: QC0013
Dated: 06-07-2021

SOM Lab Ref: 5276(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Kamran 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	24.36	34.76	68020	68710	97040	98040	1.30	8.0	16.3	
2	2.668	8	0.999	0.79	0.784	24.06	34.93	67160	67680	97530	98270	1.50	8.0	18.8	
3	1.662	6	0.788	0.44	0.488	18.52	23.98	92840	83710	120180	108360	1.30	8.0	16.3	
4	1.665	6	0.789	0.44	0.489	17.86	23.47	89520	80550	117620	105840	1.20	8.0	15.0	
5	0.598	4	0.473	0.20	0.176	6.03	7.92	66550	75620	87340	99250	1.00	8.0	12.5	
6	0.595	4	0.472	0.20	0.175	5.93	7.85	65420	74770	86560	98920	1.00	8.0	12.5	
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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 Tested

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

Ahmad Raza Gurmani
Sr. QA/QC Manager, Blue World City, Islamabad

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

Client Reference: QC0014
Dated: 06-07-2021

SOM Lab Ref: 5277(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Shaheen 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	2.690	8	1.004	0.79	0.791	20.34	31.42	56780	56700	87710	87600	1.60	8.0	20.0	
2	2.671	8	1.000	0.79	0.785	19.69	31.14	54980	55330	86940	87490	1.60	8.0	20.0	
3	1.507	6	0.751	0.44	0.443	13.30	20.92	66680	66230	104850	104140	1.30	8.0	16.3	
4	1.509	6	0.751	0.44	0.443	13.37	21.05	67040	66590	105510	104800	1.30	8.0	16.3	
5	1.029	5	0.620	0.31	0.302	8.18	12.69	58170	59710	90290	92680	1.50	8.0	18.8	
6	1.034	5	0.622	0.31	0.304	8.41	12.84	59830	61010	91380	93180	1.40	8.0	17.5	
7	0.648	4	0.492	0.20	0.190	5.68	8.94	62610	65910	98580	103770	1.10	8.0	13.8	
8	0.652	4	0.494	0.20	0.192	5.71	8.94	62950	65570	98580	102690	1.00	8.0	12.5	
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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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve 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/0148
Dated: 08-11-2021

SOM Lab Ref: 5278(Page-1/2)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.648	8	0.995	0.79	0.778	24.92	36.29	69580	70660	101310	102870	1.40	8.0	17.5	
2	2.637	8	0.993	0.79	0.775	24.49	24.49	68360	69680	68360	69680	1.40	8.0	17.5	
3	2.645	8	0.995	0.79	0.777	24.28	36.11	67790	68920	100800	102490	1.40	8.0	17.5	
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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:-**
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
		Only Five 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/0149
Dated: 09-11-2021

SOM Lab Ref: 5278(Page-2/2)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.655	8	0.997	0.79	0.780	24.49	35.83	68360	69230	100030	101310	1.50	8.0	18.8	
2	2.666	8	0.998	0.79	0.783	24.31	35.73	67870	68480	99750	100640	1.40	8.0	17.5	
3	2.653	8	0.997	0.79	0.780	24.01	35.75	67020	67880	99800	101080	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
# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Five Samples Received and Tested

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

Assistant Director-I
Building Research Station, Govt. of Punjab, Lahore

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

Client Reference: 154-R/3366
Dated: 08-11-2021

SOM Lab Ref: 5279(Page-1/1)
Dated: 09-11-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.739	8	1.012	0.79	0.805	24.08	38.30	67220	65970	106920	104930	1.50	8.0	18.8	
2	1.508	6	0.751	0.44	0.443	13.50	21.20	67650	67190	106280	105560	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	5.83	8.66	64300	65950	95550	98000	1.20	8.0	15.0	
4	2.687	8	1.003	0.79	0.790	19.42	30.02	54220	54220	83810	83810	2.00	8.0	25.0	
5	1.523	6	0.755	0.44	0.448	11.88	17.61	59530	58470	88290	86720	1.60	8.0	20.0	
6	0.677	4	0.503	0.20	0.199	5.27	7.92	58120	58410	87340	87780	1.40	8.0	17.5	
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BEND TEST:

# 8(Sr#1,4)	Sample bend through 180 degrees Satisfactorily without any crack
# 6 (Sr#2,5)	Sample bend through 180 degrees Satisfactorily without any crack
# 4 (Sr#3,6)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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