

Fahad Manzil, ARE Pkg-4

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

Indus Associate Consultant (JV) New Vision Khanozai.(Dualization Of Kuchlak-Zhob Sec of N-50)

Client Reference: RE/Pkg-IV/N-50/IAC/2023/296

Dated: 16-05-2023

SOM Lab Ref: CED/SOM/2214(Page-1/1)

Dated: 19-05-2023

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.956	25	25.33	491	504	218.50	335.70	445	434	684	667	37.5	200	18.8	ESCO
2	3.938	25	25.28	491	502	218.70	335.70	446	436	684	670	35.0	200	17.5	ESCO
3	0.992	12.7	12.68	123	126	68.50	92.70	558	543	755	734	25.0	200	12.5	Arian
4	0.996	12.7	12.71	123	127	67.50	92.70	550	532	755	731	25.0	200	12.5	Arian
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
12.7mm	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

Saquib Akram,RE

Nespaq EME Sports Complex,Lahore.(Estb Of Sports Complex at EME Lhr)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: 3772/103/NA128/RE/05/09

Dated: 02-05-2023

SOM Lab Ref: CED/SOM/2219(Page-1/1)

Dated: 19-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-F- 1554

Sample Type: J-Bolt

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	4.074	25	25.71	491	519	181.20	266.50	369	350	543	514	45.0	200	22.5	
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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

Col Tajamal Hussain Riaz ®

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

RE ACE CSM Limited.Multan.(Const Of (GOR) In South Punjab Multan Secretariat)

Client Reference: ACE/RE/GOR/2023/351

SOM Lab

Ref: 2215 (Page-1/1)

Dated: 17-05-2023

Dated: 19-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	0.641	4	0.489	0.20	0.188	7.72	8.69	85100	90530	95770	101890	1.00	8.0	12.5	
2	0.631	4	0.485	0.20	0.185	6.78	8.69	74750	80810	95770	103540	1.00	8.0	12.5	
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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

Asif Pervaiz Butt
RE Ritz Developers Pvt. Ltd.(Union Complex)

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

Client Reference: Nil

SOM Lab

Ref: 2217 (Page-1/1)

Dated: 19-05-2023

Dated: 19-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	0.674	4	0.502	0.20	0.198	5.93	8.23	65420	66090	90720	91630	1.20	8.0	15.0	
2	0.673	4	0.502	0.20	0.198	6.32	8.63	69700	70400	95210	96170	1.00	8.0	12.5	
3	0.672	4	0.501	0.20	0.197	6.12	8.23	67450	68470	90720	92100	1.20	8.0	15.0	
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BEND TEST:

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

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

Engr. Muhammad Kashif Saeed

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

P & Co Engr. Muhammad Ramzan Const. (Bopet Film Line (Novatex) Sheikhpura)(Ph-II)

Client Reference: MRC/P-43-II/STEEL-03

SOM Lab

Ref: 2218 (Page-1/1)

Dated: 18-05-2023

Dated: 19-05-2023

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	2.641	8	0.994	0.79	0.776	22.70	32.69	63380	64520	91270	92910	1.50	8.0	18.8	
2	2.641	8	0.994	0.79	0.776	23.09	32.62	64460	65620	91070	92710	1.60	8.0	20.0	
3	1.526	6	0.755	0.44	0.448	13.46	19.32	67450	66240	96830	95100	1.40	8.0	17.5	
4	1.511	6	0.752	0.44	0.444	13.12	18.98	65760	65170	95140	94280	1.70	8.0	21.3	
5	0.673	4	0.502	0.20	0.198	5.93	8.87	65420	66090	97800	98780	1.10	8.0	13.8	
6	0.670	4	0.501	0.20	0.197	5.83	8.72	64300	65280	96110	97570	1.00	8.0	12.5	
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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

Saquib Akram,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Nespak EME Sports Complex,Lahore.(Estb Of Sports Complex at EME Lhr)

Client Reference: 3772/103/NA128/RE/05/09

SOM Lab

Ref:

2219 (Page-2/2)

Dated: 02-05-2023

Dated:

19-05-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-F-1554

Gauge Length: 8 inch

Sample Type:

J-BOLT

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	0.674	4	0.502	0.20	0.198	7.19	8.38	79250	80050	92400	93330	1.00	8.0	12.5	
2	0.675	4	0.502	0.20	0.198	7.44	8.61	82060	82890	94990	95950	1.00	8.0	12.5	
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BEND TEST:

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

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

Engineer Muhammad Irshad

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Asst Dir Dev. DHA Gujranwala.(Main Gate (Site-01) & Roundabout (Site 03))

Client Reference: 111/3/AD/Dev/ESAC-01/012

SOM Lab

Ref:

2220 (Page-1/1)

Dated: 17-05-2023

Dated:

19-05-2023

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	0.671	4	0.501	0.20	0.197	6.24	8.66	68800	69840	95550	97000	1.00	8.0	12.5	
2	0.669	4	0.501	0.20	0.197	6.12	8.66	67450	68470	95550	97000	1.20	8.0	15.0	
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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

Imad Ullah Khan, RE

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

NESPAK Muzaffargarh.(Dualization Of Rd From Karam Dad Qureshi To Qasba Gujrat)

Client Reference: SA-4372C/IMK/01/50

SOM Lab

Ref: 2221 (Page-1/1)

Dated: 23-01-2023

Dated: 19-05-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Sheikhoo 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	2.693	8	1.004	0.79	0.791	23.52	37.48	65650	65570	104640	104510	1.30	8.0	16.3	
2	2.677	8	1.001	0.79	0.787	25.03	34.27	69870	70130	95680	96040	1.50	8.0	18.8	
3	1.526	6	0.755	0.44	0.448	14.22	19.11	71280	70010	95800	94090	1.40	8.0	17.5	
4	1.527	6	0.756	0.44	0.449	14.02	19.11	70260	68850	95800	93880	1.30	8.0	16.3	
5	0.667	4	0.500	0.20	0.196	7.75	9.35	85430	87180	103080	105180	1.00	8.0	12.5	
6	0.672	4	0.501	0.20	0.197	6.44	8.74	71040	72130	96340	97800	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

Test Performed by: Dr. S. Asad Ali Gillani

Altaf Hussain Abro

RE Zeeruk International (Pvt) Ltd.

(Grade Separated Arrangement at Intersection Of 11th Avenue With Khayaban-E-Iqbal Islamabad)

Reference No.: RE/Zeeruk/11th Avenue/23/70

Dated: 05-05-2023

SOM Lab Ref: CED/SOM/2216(Page-1/1)

Dated: 22-05-2023

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Elastomeric Bearing Pad (VICODA,Germany)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	6.1 x 2.3	0.50	35.63	363.39	520.0
2	6.1 x 2.3	0.52	37.06	377.93	540.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	9.0 x 2.3	0.30	130.43
2	9.0 x 2.3	0.28	121.73

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.05	2.96	2.96

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	63.3 avg

