

Furqan Ali Malik
Chief Resident Engineer NESPAK

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

Client Reference: nil
SOM Lab Ref: CED/SOM/3784 (Page-1/1)

Dated: 03-02-2021

Dated: 03-02-2021

Test: Tension 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	2.251	20	19.12	314	287	111.50	172.20	355	389	548	600	25.0	80	31.3	
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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

Muhammad Shabbir
Construction Manager, Opal, Deever Developers Pvt. Ltd. Lahore

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

Client Reference: ZD/ZO/L/020

SOM Lab Ref: 3779(Page-1/1)

Dated: 03-02-2021

Dated: 03-02-2021

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	2.652	8	0.996	0.79	0.779	24.92	34.71	69580	70560	96900	98270	1.30	8.0	16.3	
2	2.641	8	0.994	0.79	0.776	20.34	31.96	56780	57800	89220	90830	1.50	8.0	18.8	
3	0.654	4	0.494	0.20	0.192	6.12	8.26	67450	70260	91050	94850	1.10	8.0	13.8	
4	0.663	4	0.498	0.20	0.195	5.56	8.53	61270	62840	94090	96500	1.40	8.0	17.5	
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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

Maj Adnan khalid@
Dy Dir MTL, Proposed 2 Kanal, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

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

Client Reference: 408/241/E/Lab/22/607

Dated: 01-02-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

Dated:

ASTM-A-615

Deformed Bar (KAMRAN Steel)

3780(Page-

1/1)

03-02-2021

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	0.665	4	0.498	0.20	0.195	6.09	8.53	67110	68830	94090	96500	1.30	8.0	16.3	
2	0.673	4	0.502	0.20	0.198	5.93	8.43	65420	66090	92960	93900	1.40	8.0	17.5	
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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 Nadeem Khawar
Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

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

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-614

SOM Lab Ref: 3781(Page-1/2)

Dated: 09-12-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

Dated: 03-02-2020
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	2.627	8	0.991	0.79	0.772	25.94	35.88	72430	74120	100170	102510	1.50	8.0	18.8	
2	2.635	8	0.993	0.79	0.774	25.69	35.68	71720	73200	99600	101660	1.40	8.0	17.5	
3	1.546	6	0.760	0.44	0.454	14.83	20.29	74350	72050	101680	98540	1.30	8.0	16.3	
4	1.538	6	0.759	0.44	0.452	14.73	20.08	73830	71870	100660	97990	1.20	8.0	15.0	
5	1.492	6	0.747	0.44	0.438	13.32	19.16	66780	67090	96060	96500	1.30	8.0	16.3	
6	1.506	6	0.751	0.44	0.443	13.71	19.57	68730	68260	98100	97440	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	
# 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

Asif Nadeem Khawar
 Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

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

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-614

SOM Lab Ref: 3781(Page-2/2)

Dated: 09-12-2020

Dated: 03-02-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	5.93	8.99	65420	67450	99150	102210	1.40	8.0	17.5	
2	0.664	4	0.498	0.20	0.195	5.96	9.04	65760	67450	99710	102260	1.40	8.0	17.5	
3	0.661	4	0.497	0.20	0.194	5.96	8.94	65760	67800	98580	101630	1.30	8.0	16.3	
4	0.662	4	0.498	0.20	0.195	5.91	8.99	65200	66870	99150	101690	1.30	8.0	16.3	
5	0.664	4	0.498	0.20	0.195	5.91	9.02	65200	66870	99480	102030	1.20	8.0	15.0	
6	0.665	4	0.498	0.20	0.195	5.93	9.02	65420	67100	99480	102030	1.40	8.0	17.5	
7	0.662	4	0.498	0.20	0.195	5.93	8.97	65420	67100	98920	101460	1.30	8.0	16.3	
8	0.660	4	0.497	0.20	0.194	5.93	8.97	65420	67450	98920	101980	1.30	8.0	16.3	
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BEND TEST:

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

Engr. Naveed Sadiq

Resident Engineer, Orbit Developers Private Limited, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani**Client Reference:** Nil**Dated:** 03-02-2021**Test:** Tension Test & Bend Test**Gauge Length:** 8 inch**SOM Lab****Ref:****Dated:**

3782(Page-

1/1)

03-02-2021

Test Specification:**Sample Type:**

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	0.672	4	0.501	0.20	0.197	6.14	8.63	67670	68700	95210	96660	1.20	8.0	15.0	
2	0.660	4	0.497	0.20	0.194	6.12	8.61	67450	69530	94990	97920	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

Shoab Razzaq
Project Coordinator, Sinaco Engineers (Pvt) Ltd, Lahore

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

Client Reference: SEL/LHR/C-441/11760

Dated: 02-02-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab 3783(Page-1/1)

Ref: 1/1

Dated: 03-02-2021

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(AFCO Steel)

S.No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	Elongation	Gauge Length	% Elongation	Remarks
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	2.653	8	0.997	0.79	0.780	24.67	34.61	68870	69750	96620	97850	1.40	8.0	17.5	
2	2.683	8	1.002	0.79	0.788	26.61	36.56	74280	74470	102080	102340	1.30	8.0	16.3	
3	1.515	6	0.753	0.44	0.445	13.97	19.64	70000	69220	98460	97350	1.20	8.0	15.0	
4	1.516	6	0.754	0.44	0.446	13.73	19.62	68830	67900	98360	97040	1.30	8.0	16.3	
5	0.679	4	0.505	0.20	0.200	6.01	9.07	66320	66320	100050	100050	1.20	8.0	15.0	
6	0.680	4	0.505	0.20	0.200	6.09	9.17	67110	67110	101170	101170	1.10	8.0	13.8	
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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

Basharat Munir

Project Manager,

Dupak Properties (Pvt) Ltd.

Defence View Apartments Shanghai
Road Lahore

Client Reference: Dupak/DVA/053

Dated: 03-02-2021

SOM Lab Ref: CED/SOM/3778(Page-1/1)

Dated: 03-02-2021

Test Type: Hardness Test

Sample Type: Aluminum Alloy 6063

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 60.0 kgf Scale: A)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Aluminum Alloy 6063	HR – 11.5 – A

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

Test Performed By: Dr. S. Asad Ali Gillani

Furqan Ali Malik

Chief Resident Engineer

Package- I, NESPAK (Pvt) Ltd

Lahore

Client Reference: 4042/13/FAM/J-Bolt-182

Dated: 03-02-2021

SOM Lab Ref: CED/SOM/3784(Page-1/2)

Dated: 03-02-2021

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: J Bolt

Gauge Length: 80 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	Mm	%	%
1	20	19.12	287	111.50	172.20	389	600	25.0	80	30.0	31.3
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Note:-											

		Only One Samples Received and Tested
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Note: Please always confirm the results of above report on web www.uet-civil.edu.pk(U/G)

Test Performed By: Dr. S. Asad Ali Gillani

Furqan Ali Malik

Chief Resident Engineer

Package- I, NESPAK (Pvt) Ltd

Lahore

Client Reference: 4042/13/FAM/J-Bolt-181

Dated: 01-02-2021

SOM Lab Ref: CED/SOM/3784(Page-2/2)

Dated: 02-02-2021

Test Type: Hardness Test

Sample Type: J – Bolt (20mm Diameter)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	J - Bolt	HR – 77.5 – B

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

Test Performed by: Dr. S. Asad Ali Gillani

Majid Aziz

Material Engineer

NESPAK (Pvt) Ltd. Islamabad

Project: Up-gradation/dualization of Motorway Link From

Kohat Via Jand Khushal Garh Kohat (PKG-3)

Client Reference No.: 36264/103/JH/063

Dated: 13-01-2021

SOM Lab Ref: CED/SOM/3785(Page-1/1)

Dated: 03-02-2021

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

Sample Type: Testing of Bearing Pad (Longman)

TENSILE STRENGTH TEST (AS PER ASTM-D-412)

S. No	Sample Size (mm x mm)	Tensile Strength at (kN)	Tensile Strength (MPa)	% age Elongation
1	6.5 x 3.5	0.50	21.98	540.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 4.0	0.30	75.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	4.12	4.15	2.4

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

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	60.333

