

Test Performed by: .S. Asad Ali Gillani

Resident Engineer
NESPAK , (Pvt) Ltd.
Chakwal Bypass Road Project

Client Reference No.: Alsadt/20/RE/114
SOM Lab Ref: CED/SOM/4823 (Page 1/1)

Dated: 10-08-2021

Dated: 17-08-2021

Sample Type: PSC Girders Accessories
Test Type: Hardness Test

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	Fabricated Trumpet	HR – 85.00 – B
2	Sheathing Pipes	HR – 49.50 – B

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

Summy Yousaf
Building Standards Ltd, Lahore

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

Client Reference: GT/LTR/210817-085

Dated: 17-08-2021

SOM Lab Ref: CED/SOM/4829 (Page-1/1)

Dated: 17-08-2021

Test: Tension Test

Test Specification: ASTM- A-615

Sample Type: 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	3.967	25	25.36	491	505	246.00	369.00	501	488	752	731	25.0	200	12.5	
2	2.205	16	18.91	201	281	128.00	200.70	637	456	998	715	32.5	200	16.3	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division No. 15, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 705

SOM Lab Ref: 2843(Page-1/1)

Dated: 27-07-2020

Dated: 17-08-2020

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	2.678	8	1.001	0.79	0.787	25.56	34.78	71350	71620	97100	97470	1.50	8.0	18.8	
2	2.678	8	1.001	0.79	0.787	25.23	34.58	70440	70700	96530	96900	1.50	8.0	18.8	
3	1.567	6	0.766	0.44	0.461	13.61	19.62	68210	65110	98360	93880	1.20	8.0	15.0	
4	1.509	6	0.751	0.44	0.443	13.53	19.59	67810	67350	98210	97540	1.10	8.0	13.8	
5	0.670	4	0.501	0.20	0.197	6.17	8.63	68010	69050	95210	96660	1.50	8.0	18.8	
6	0.681	4	0.505	0.20	0.200	6.14	8.74	67670	67670	96340	96340	1.40	8.0	17.5	
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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

Li Shi
 Manager, Sinohydro Corporation Limited, Pakistan

Test Performed By: Dr. /Engr. Waseem Abbas

Client Reference: ADB-301B/2018/290

SOM Lab Ref: 4816(Page-1/1)

Dated: 016-08-2021

Dated: 16-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	3.269	9	1.106	1.00	0.961	30.68	40.27	67670	70420	88800	92410	1.50	8.0	18.8	
2	3.242	9	1.102	1.00	0.953	30.38	40.27	67000	70300	88800	93180	1.30	8.0	16.3	
3	0.678	4	0.503	0.20	0.199	5.15	7.85	56770	57050	86560	86990	1.50	8.0	18.8	
4	0.680	4	0.505	0.20	0.200	5.12	8.05	56430	56430	88800	88800	1.50	8.0	18.8	
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Witnessed By: M. Zahid Sharif Khan, Jr. Engineer, NESPAK + BARQAAB JV

BEND TEST:

# 9	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 Tanveer Ahmad (R)
Resident Engineer-2, ACES Sector -V, - DHA, Multan

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

Client Reference: ACES-DHAM/DEV/CT/09

SOM Lab Ref: 4817(Page-1/1)

Dated: 16-08-2021

Dated: 17-08-2021

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	0.683	4	0.506	0.20	0.201	6.03	8.74	66550	66220	96340	95860	1.40	8.0	17.5	
2	0.681	4	0.505	0.20	0.200	5.98	9.04	65990	65990	99710	99710	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

Ehsan - Ullah-Saad
Project Manager, Zaheer Associates, Lahore

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

Client Reference: Z.A/A.R/16-21

SOM Lab Ref: 4819 (Page-1/1)

Dated: 11-08-2021

Dated: 17-08-2021

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	2.604	8	0.987	0.79	0.765	23.87	33.00	66650	68830	92120	95130	1.30	8.0	16.3	
2	2.601	8	0.986	0.79	0.764	23.65	32.79	66020	68270	91550	94670	1.30	8.0	16.3	
3	1.511	6	0.752	0.44	0.444	12.97	18.98	65000	64410	95140	94280	1.40	8.0	17.5	
4	1.527	6	0.756	0.44	0.449	13.40	19.64	67190	65850	98460	96490	1.40	8.0	17.5	
5	0.582	4	0.467	0.20	0.171	5.37	7.87	59240	69290	86780	101500	1.00	8.0	12.5	
6	0.582	4	0.467	0.20	0.171	5.37	7.82	59240	69290	86220	100840	1.20	8.0	15.0	
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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

Malik Hamza Saleem
Site Engineer, Al-Gani Garden, Lahore

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

Client Reference: 80051-

SOM Lab Ref: 4820(Page-1/1)

Dated: 17-08-02021

Dated: 17-08-2021

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	1.551	6	0.762	0.44	0.456	13.83	21.33	69340	66910	106890	103140	1.10	8.0	13.8	
2	1.552	6	0.762	0.44	0.456	13.81	21.38	69240	66810	107150	103390	1.20	8.0	15.0	
3	0.632	4	0.487	0.20	0.186	5.23	8.18	57670	62010	90150	96940	1.00	8.0	12.5	
4	0.631	4	0.485	0.20	0.185	5.27	8.14	58120	62830	89820	97100	1.20	8.0	15.0	
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BEND TEST:

# 6	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

Sub Divisional Officer
Highway Sub Division, Burewala

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

Client Reference: 10/SDO

SOM Lab Ref: 4825(Page-1/1)

Dated: 30-07-2021

Dated: 17-08-2021

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	2.663	8	0.998	0.79	0.783	26.04	34.00	72710	73360	94910	95760	1.00	8.0	12.5	
2	2.678	8	1.001	0.79	0.787	24.79	34.61	69210	69480	96620	96980	1.10	8.0	13.8	
3	1.504	6	0.750	0.44	0.442	14.42	20.20	72300	71970	101270	100810	1.30	8.0	16.3	
4	1.524	6	0.755	0.44	0.448	13.46	19.95	67450	66240	99990	98210	1.40	8.0	17.5	
5	1.289	5	0.695	0.31	0.379	10.72	13.78	76300	62410	98050	80200	1.20	8.0	15.0	
6	1.046	5	0.625	0.31	0.307	10.72	13.71	76300	77040	97540	98500	1.10	8.0	13.8	
7	0.679	4	0.505	0.20	0.200	5.86	8.92	64640	64640	98360	98360	1.10	8.0	13.8	
8	0.669	4	0.501	0.20	0.197	6.57	9.07	72510	73610	100050	101570	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Faizan

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Client Reference: NTT-HO/FSDW-GS/059

SOM Lab Ref: 4827(Page-1/1)

Dated: 12-08-2021

Dated: 17-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	1.525	6	0.755	0.44	0.448	12.81	18.76	64230	63080	94020	92340	1.30	8.0	16.3	
2	1.086	5	0.637	0.31	0.319	9.48	13.91	67450	65540	98990	96200	1.20	8.0	15.0	
3	0.682	4	0.505	0.20	0.200	6.24	8.33	68800	68800	91840	91840	1.20	8.0	15.0	
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Witnessed By: Sohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Tahawar Owais
 Manager Civil, Casa Grande Ventures (Pvt) Ltd. Lahore

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

Client Reference: Nil

SOM Lab Ref: 4828(Page-1/1)

Dated: Nil

Dated: 17-08-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	2.667	8	0.999	0.79	0.784	26.22	33.81	73200	73760	94400	95120	1.10	8.0	13.8	
2	1.506	6	0.751	0.44	0.443	14.19	20.05	71130	70640	100500	99820	1.10	8.0	13.8	
3	0.687	4	0.507	0.20	0.202	6.54	9.07	72170	71450	100050	99050	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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