BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)
DEPARTMENT OF CIVIL ENGINEERING
Mobile: 01819557964; PABX: (8802) - 55167100, 55167228-57 Ext. 7226, Info: http://brtc.ce.buet.ac.bd/#/home, Report verification: http://verify.ce.buet.ac.bd

BRTC Bureau of Research Testing & Consultation

STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS [BDS ISO 6935-2:2016]

Sent by: Engr. Md. Maksudul Karim, General Manager
Shahriar Steel Mills Ltd., Konapara, Jatrabari, Dhaka.
Project: - - -

BRTC No.: 1103-37749/CE/24-25; Dt. 3/12/2024
Ref.: Letter; Dt. 3/12/2024
Date of Test: 4/12/2024

Samples were received in UNSEALED condition.

Sl. No.	Frog Mark / Identification	Nominal dia. mm	Actual dia. mm	Mass Per Unit Length kg/m	Average Mass Per Unit Length kg/m	Yield or Proof Load kN	Yield or Proof Strength R_{eH} MPa	Average Yield Strength, R_{eH} MPa	Tensile Load kN	Tensile Strength R_m MPa	Average Tensile Strength, R_m MPa	R_m/R_{eH}	Total Elongation (%) (G.length = 5d)	Average Total Elongation (%)	Bend Test (Seperate samples)	Rebend Test (Seperate samples)
1	SSRM B500 DWR	10	10.0	0.615		43.1	545		59.4	750			24		Satisfactory	Satisfactory
2	SSRM B500 DWR	10	10.0	0.621	0.617	43.1	545	540	59.4	750	745	1.38	24	24	Satisfactory	Satisfactory
3	SSRM B500 DWR	10	10.0	0.616		42.1	535		58.4	740			24		Satisfactory	Satisfactory
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Conversion factor: 1.0 MPa = 1.0 N/mm^2 = 145 psi. Strengths are based on nominal area.

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2).

Nominal bar dia., mm		6	8	10	12	14	16	20	22*	25	28	32	40	50
Nominal cross sectional area, sq.mm		28.3	50.3	78.5	113	154	201	314	380	491	616	804	1257	1964
Nominal mass per unit length	Nominal, kg/m	0.222	0.395	0.616	0.887	1.21	1.58	2.46	2.98	3.85	4.84	6.31	9.87	15.42
	Permissible deviation, %	±8	±8	±6	±6	±5	±5	±5	±5	±4	±4	±4	±4	±4

*22mm dia. bar is not covered in BDS ISO 6935-2:2016. Its properties are derived following the principle used for other bar sizes.
Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.
Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

BDS ISO 6935-2 Tensile Requirements for Common Steel Grades

Steel Grade	Yield Strength, R_{eH}, MPa		Ductiliy Properties		
	Min.	Max.	R_m/R_{eH} min.	Elongation, % (min.) Total	At R_m
B400C-R	400	--	1.15	14	7
B400CWR	400	--	1.15	14	7
B500C-R	500	--	1.15	14	7
B500CWR	500	--	1.15	14	7
B600C-R	600	--	1.15	10	7
B450CWR	450	1.25 R_{eH} (min.)	1.15	--	7.5
B400DWR	400	1.3 R_{eH} (min.)	1.25	17	8
B420DWR	420	1.3 R_{eH} (min.)	1.25	16	8
B500DWR	500	1.3 R_{eH} (min.)	1.25	13	8

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Countersigned by:
Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge
Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

07 December 2024

Test performed by:
Dr. Abdul Jabbar Khan
Professor, Dept. of Civil Engg.

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Project: - - -

BRTC No.: 1103-37749/CE/24-25; Dt. 3/12/2024
Ref.: Letter; Dt. 3/12/2024
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1	SSRM B500 DWR	12	12.2	0.913	0.893	65.5	580	565	82.8	730	720	1.27	20	21	Satisfactory	Satisfactory
2	SSRM B500 DWR	12	12.1	0.910		66.5	590		82.8	730			20		Satisfactory	Satisfactory
3	SSRM B500 DWR	12	11.8	0.857		60.4	535		78.7	695			22		Satisfactory	Satisfactory
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Conversion factor: 1.0 MPa = 1.0 N/mm^2 = 145 psi. Strengths are based on nominal area.

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2).

Nominal bar dia., mm		6	8	10	12	14	16	20	22*	25	28	32	40	50
Nominal cross sectional area, sq.mm		28.3	50.3	78.5	113	154	201	314	380	491	616	804	1257	1964
Nominal mass per unit length	Nominal, kg/m	0.222	0.395	0.616	0.887	1.21	1.58	2.46	2.98	3.85	4.84	6.31	9.87	15.42
	Permissible deviation, %	±8	±8	±6	±6	±5	±5	±5	±5	±4	±4	±4	±4	±4

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Steel Grade	Yield Strength, R_{eH}, MPa		Ductiliy Properties		
	Min.	Max.	R_m/R_{eH} min.	Elongation, % (min.) Total	At R_m
B400C-R	400	--	1.15	14	7
B400CWR	400	--	1.15	14	7
B500C-R	500	--	1.15	14	7
B500CWR	500	--	1.15	14	7
B600C-R	600	--	1.15	10	7
B450CWR	450	1.25 R_{eH} (min.)	1.15	--	7.5
B400DWR	400	1.3 R_{eH} (min.)	1.25	17	8
B420DWR	420	1.3 R_{eH} (min.)	1.25	16	8
B500DWR	500	1.3 R_{eH} (min.)	1.25	13	8

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07 December 2024

Countersigned by:
Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge
Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

Test performed by:
Dr. Abdul Jabbar Khan
Professor, Dept. of Civil Engg.

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Project: - - -

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Ref.: Letter; Dt. 3/12/2024
Date of Test: 4/12/2024

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1	SSRM B500 DWR	**16**	16.0	1.576		115	**575**		144	**715**			**20**		**Satisfactory**	**Satisfactory**
2	SSRM B500 DWR	**16**	16.0	1.581	**1.577**	115	**575**	**575**	141	**700**	**715**	**1.24**	**21**	**21**	**Satisfactory**	**Satisfactory**
3	SSRM B500 DWR	**16**	16.0	1.573		116	**580**		146	**725**			**21**		**Satisfactory**	**Satisfactory**
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B400C-R	400	--	1.15	14	7
B400CWR	400	--	1.15	14	7
B500C-R	500	--	1.15	14	7
B500CWR	500	--	1.15	14	7
B600C-R	600	--	1.15	10	7
B450CWR	450	1.25 R_{eH} (min.)	1.15	--	7.5
B400DWR	400	1.3 R_{eH} (min.)	1.25	17	8
B420DWR	420	1.3 R_{eH} (min.)	1.25	16	8
B500DWR	500	1.3 R_{eH} (min.)	1.25	13	8

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07 December 2024

Countersigned by:
Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge
Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

Test performed by:
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1	SSRM B500 DWR	**20**	19.9	2.432		175	**560**		223	**710**			**22**		**Satisfactory**	**Satisfactory**
2	SSRM B500 DWR	**20**	19.9	2.440	**2.439**	174	**555**	**555**	224	**715**	**725**	**1.31**	**22**	**22**	**Satisfactory**	**Satisfactory**
3	SSRM B500 DWR	**20**	19.9	2.445		172	**550**		237	**755**			**21**		**Satisfactory**	**Satisfactory**
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B400C-R	400	--	1.15	14	7
B400CWR	400	--	1.15	14	7
B500C-R	500	--	1.15	14	7
B500CWR	500	--	1.15	14	7
B600C-R	600	--	1.15	10	7
B450CWR	450	1.25 R_{eH} (min.)	1.15	--	7.5
B400DWR	400	1.3 R_{eH} (min.)	1.25	17	8
B420DWR	420	1.3 R_{eH} (min.)	1.25	16	8
B500DWR	500	1.3 R_{eH} (min.)	1.25	13	8

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07 December 2024

Countersigned by:
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Test performed by:
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Department of Civil Engineering * BUET, Dhaka-1000, Bangladesh

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BUETCE 0511978

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1	SSRM B500 DWR	**25**	24.9	3.837	**3.836**	266	**540**	**545**	361	**735**	**730**	**1.34**	**23**	**22**	**Satisfactory**	**Satisfactory**
2	SSRM B500 DWR	**25**	25.1	3.875		289	**590**		372	**760**			**22**		**Satisfactory**	**Satisfactory**
3	SSRM B500 DWR	**25**	24.8	3.796		251	**510**		344	**700**			**22**		**Satisfactory**	**Satisfactory**
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B500C-R	500	--	1.15	14	7
B500CWR	500	--	1.15	14	7
B600C-R	600	--	1.15	10	7
B450CWR	450	1.25 R_{eH} (min.)	1.15	--	7.5
B400DWR	400	1.3 R_{eH} (min.)	1.25	17	8
B420DWR	420	1.3 R_{eH} (min.)	1.25	16	8
B500DWR	500	1.3 R_{eH} (min.)	1.25	13	8

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MMCnW4rnZ

07 December 2024

Countersigned by:
Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge
Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

Test performed by:
Dr. Abdul Jabbar Khan
Professor, Dept. of Civil Engg.

Important Note: *Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that the samples are sent in a secure and sealed cover/packet/container under the signature of a competent authority. In order to avoid fradulent fabrication of test results, this report has been printed on a security paper. It is also recommended that the test results be collected by a duly authorized person.*