

Project: /- --

Sent by: Eng. Md. Maksudul Karim, General Manager (Plant)

Shahriar Steel Mills Limited, Konapara, Jatrabari, Dhaka.

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

Testing & Consultation Bureau of Research

1 (i) of 5

STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]

BRTC No.: 1103-19933/CE/23-24; Dt. 21/4/2024

Ref.: Letter; Dt. 20/4/2024 Date of Test: 22/4/2024

Samples were received in UNSEALED condition.

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				AAE DOL OLOG	- 10 N/mm ² -	TO ME	onversion fact				91.1)	ars (Table)	nal Area of b	AS IM AS IM AS IM-15 Weight Requirements and Nominal Area of bars (Table A1.1)	DIOM-16 Weigi	ANINA
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2827 22.2 W-16.	60

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

28, 32, 36, 40, 50, 60

Elongation in 8 in. [200 mm], min, % Tensile strength, min. psi [MPa]

Yield strength, min, psi [MPa]

75 000 [520]

80 000 [550]

[520]

[550]

Bar Designation No.

WCK2RZLmr

mynkan

24 April 2024

Dr. Shohel Rana est performed by:

Professor, Dept. of Civil Engg., BUET

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.



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Testing & Consultation

Bureau of Research

STRENGTH OF MATERIALS LABORATORY

Sent by: Eng. Md. Maksudul Karim, General Manager (Plant) TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]

Shahriar Steel Mills Limited, Konapara, Jatrabari, Dhaka.

Project:

Date of Test: 22/4/2024

Ref.: Letter; Dt. 20/4/2024

BRTC No.: 1103-19933/CE/23-24; Dt. 21/4/2024

Samples were received in UNSEALED condition.

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		•									Á			0.848		kg/m		Weight	Unit	Average
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														(77500 psi)	535	MPa	(YS)	Strength	Yield or Proof	Average Yield or Average
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ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1) Bar desig	15M-16 Weight Requirements and Nomin JNominal dia.,mm 8 10 7 Irea, sq.mm 50.3 79 1 weight, kg/m 0.395 0.617 0.3	7			
10 79 1	10 79 1	lominal weight, kg/m	Nominal area, sq.mm	/Nomi	ASTM A615M-16 Weight Requ
10 79 1	10 79 1	0.395	50.3	8	uirements a
minal Area of bars (Table A1.1) 12 16 20 22 25 28 32 36 40 50 60 113 201 314 380 491 616 804 1018 1257 1963 2827 0.888 1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	minal Area of bars (Table A1.1) Conven 12 16 20 22 25 28 32 36 40 50 60 113 201 314 380 491 616 804 1018 1257 1963 2827 0.888 1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	0.617	79	10	and No
rea of bars (Table A1.1) 16 20 22 25 28 32 36 40 50 60 201 314 380 491 616 804 1018 1257 1963 2827 1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	rea of bars (Table A1.1) Conventing Team of bars (Table A1.1) 16 20 22 25 28 32 36 40 50 60 201 314 380 491 616 804 1018 1257 1963 2827 1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	0.888	113	12	ninal A
pairs (Table A1.1) 20 22 25 28 32 36 40 50 60 314 380 491 616 804 1018 1257 1963 2827 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	Conversion (Table A1.1) 20 22 25 28 32 36 40 50 60 314 380 491 616 804 1018 1257 1963 2827 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	1.578	201	16	rea of I
	Ible A1.1) Convent 22 25 28 32 36 40 50 60 380 491 616 804 1018 1257 1963 2827 2.98 3.853 4.834 6.313 7.99 9.865 15.41 22.2	2.466	314	20	oars (Ta
.1) 60 25 28 32 36 491 616 804 1018 1257 1963 2827 3.853 4.834 6.313 7.99 9.865 15.41 22.2	7.1) Converse Conver	2.98	380	22	able A1
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32 36 40 50 60 804 1018 1257 1963 2827 5.313 7.99 9.865 15.41 22.2	Conversion	4.834	616	28	
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40 50 60 1257 1963 2827 3.865 15.41 22.2	40 50 60 Conver 1257 1963 2827 3.865 15.41 22.2	7.99 9	1018	36	
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sion fa		22.2	2827	60	Conversion fa
sion factor: 1	ctor: 1.	22.2	2827	60	Conversion factor: 1.
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V 0.1	V 0.1		2827	60	20
V 0.1	V 0.1			60	20
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V 0.1	V 0.1			60	20
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V 0.1	V 0.1			60	20
V 0.1	V 0.1			60	20
I.O MPa	V 0.1			60	20

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length. Actual dia. and TS/YS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16. Area and weight of 8mm and 22m dia. bars are derived based on principle follwed for other sizes in Table A1.1 Measured unit weight shall not be less than 94% of the nominal weight. 8mm bar size is not covered in ASTM A615M-16

ASTM A615M-16 Tensile Requirements for Common Steel Grades

	Grade 60	Grade 75	Grade 80
	[420]	[520]	[550]
Tensile strength, min. psi [MPa]	90 000 [620]	90 000 [620] 100 000 [690] 105 000 [725]	105 000 [725]
Yield strength, min, psi [MPa]	60 000 [420]	60 000 [420] 75 000 [520]	80 000 [550]
Elongation in 8 in. [200 mm], min, %			
Bar Designation No.			

28, 32, 36, 40, 50, 60

10, 12, 16, 20

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



JANKA. 24 April 2024

Dr. Shohel Rana Test performed by:

Professor, Dept. of Civil Engg., BUET

It is also recommended that the test results be collected by a duly authorized person. samples are sent in a secure and sealed coverpacket 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 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



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BRTC No.: 1103-19933/CE/23-24; Dt. 21/4/2024

Date of Test: 22/4/2024 Ref.: Letter; Dt. 20/4/2024

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Area	Non	Non	Bar	
7	lominal weight, kg/m 0.395 0.617 0.888 1.578 2.468	Nominal area, sq.mm	Bar desig /Nominal dia., mm	
dia.ba	0.395	50.3	8	
irs are	0.617	79	10	
derivec	888.0	113	12	
based	1.578	201	16	
on pri	2.466	314	20	
nciple	2.98	380	22	
follwed	3.853	191	25	12121111
for ot	4.834	616	28	
her size	6 2.98 3.853 4.834 6.313 7.99 9.86	804	32	
e eu la Sin Ta	7.99	1018	36	
ble A1	1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41	113 201 314 380 491 616 804 1018 1257 1963 2827	40	
1	15.41	1963	50	
,	22.2	2827	60	
				001

Actual dia and TS/YS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16.

RTBCG32PY

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

ASTM A615M-16 Tensile Requirements for Cor

G	Grade 60	Grade 75	Grade 80
	[420]	[520]	[550]
Tensile strength, min. psi [MPa] 90	000 [620]	90 000 [620] 100 000 [690] 105 000 [725]	105 000 [725]
Yield strength, min, psi [MPa] 60	000 [420]	60 000 [420] 75 000 [520]	80 000 [550]
Elongation in 8 in. [200 mm], min, %			

Countersigned by:

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

28, 32, 36, 40, 50, 60

Bar Designation No. Yield strength, min, p

Test performed by: 24 April 2024

Dr. Shohel Rana

Professor, Dept. of Civil Engg., BUET

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Date of Test: 22/4/2024 Ref.: Letter; Dt. 20/4/2024

BRTC No.: 1103-19933/CE/23-24; Dt. 21/4/2024

Samples were received in UNSEALED condition

nal a	sed on nomir	gins are ba	1.0 WIF a - 1.0 WITHIT = 145 ps. Strengths are based on nominal area	THUMING O. 1		Convension racion.	П	36 40 50 60		25 2	20 22	12 16	Bar desig J Nominal dia, mm $ ext{8}$ 10 12 16 20 22 25 28 32	Bar des
			2 2 2	- 1 0 Nimm2		Conversion factor				A1.1)	oars (Table	nal Area of k	ASIM Ab15M-16 Weight Requirements and Nominal Area of bars (Table A1.1)	ASIMA
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Ď.	18	3 3 7	(110000 pei)	755	237	(81000 psi)	555	175	2.468	2.466	20.0	20	SSRM B500 DWR	N
16			760	760	238	555	555	174		2.476	20.0	20	OOKIM BOOD DWX) -
200 mm)			MPa	MPa	X	MPa	MPa	ΚN	kg/m	kg/m	mm	mm		1
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·	_		Strength			Strength	Strength	Load	Weight		dia.	Nominal		
(%)	777		Tensile	Strength	Load	Yield or Proof	Proof	Proof	Unit	Weight	bar	Desig./	Identification	į
Elongation	111	SWST	Average	Tensile	Tensile	Average	Yield or	Average Yield or	Average	Unit	Actual	dar	r log wark	<u>z</u> (
CONTINUE.	- 16	MOCHECI	Campies were received in ONSEALED CONDITION.	Carribica Mei								7	Eroa Mark	S

Nominal area, sq.mm 50.3 79 113 201 314 380 491 616 804 1018 1221 1202 202 Nominal weight, kg/m 0.395 0.617 0.888 1.578 2.466 2.98 3.853 4.834 6.313 7.99 9.865 15.41 221 Nominal weight shall not be less than 94% of the nominal weight. Smm bar size is not covered in ASTM A615M-16. Area and weight of 8mm and 22m dia. bars are derived based on principle follwed for other sizes in Table A1. Actual dia, and TSYS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16. 113 201 314 380 491 616 804 1018 1257 1963 2827

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

ASIM A015M-16 Lensile Requirements for Common Steel Grades	nts for Comm	on Steel Grade	8
	Grade 60	Grade 75	Grade 80
	[420]	[520]	[550]
Tensile strength, min. psi [MPa]	90 000 [620]	90 000 [620] 100 000 [690] 105 000 [725]	105 000 [725]
Yield strength, min, psi [MPa]	60 000 [420]	60 000 [420] 75 000 [520] 80 000 [550]	80 000 [550]
Elongation in 8 in. [200 mm], min, %			
Bar Designation No.			

Countersigned by:

28, 32, 36, 40, 50, 60

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10, 12, 16, 20

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



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TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]

Project: Sent by: Eng. Md. Maksudul Karim, General Manager (Plant) Shahriar Steel Mills Limited, Konapara, Jatrabari, Dhaka

> Ref.: Letter; Dt. 20/4/2024 BRTC No.: 1103-19933/CE/23-24; Dt. 21/4/2024

Date of Test: 22/4/2024

Samples were received in UNSEALED condition.

				-				П	36 40 50 60	32	10 12 16 20 22 25 28 32	20 22	12 16	par designominal dia, mm 8 10	Dar design
	שמ	sed on nominal	iths are ba	$0 \text{ MPa} = 1.0 \text{ N/mm}^2 = 145 \text{ psi}$ Strengths are based on nominal area	$= 1.0 \text{ N/mm}^2$	or: 1.0 MPa	Conversion factor: 1				A1.1)	bars (Table	nal Area of	uirements a	ASIM AG
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Satisfactory		17			720	354		520	256		3.831	24.9	25	OURM BOUC DVVX	ı
Satisfactory	17	17	1.38	(105000 psi)	725	356	(75500 psi)	520	256	3.833	3.830	24.9	25	OORM BOOD DWR)
Satisfactory	*	77		720	720	353	520	520	256		3.837	24.9	25	OOT BOOD DWX) -
		200 mm)		MPa	MPa	ź	MPa	MPa	Ŕ	kg/m	kg/m	mm	mm		T
samples)		(G. length =		(TS)			(XS)	The state of the s					ola.		
(Seperate	(%)			Strength			Strength	Strength	Load	Weight		qia.	Nominal		
Test	Elongation	(%)		Tensile	Strength	Load	Yield or Proof	Proof	Proof	Unit	Weight		Desig./	identification	Ş
Bend	Average	Elongation	TS/YS	Average	lensile	lensile	////	rield or Yield or Average	rield of	Avelage	Cinc	Congi	7 0		<u> </u>
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ar designivolimationa., illiii	0	ē	K	10	20	22	25	28	32	36	11/1	40
ominal area, sq.mm	50.3	79	113	201	314	380	491	616	804	201 314 380 491 616 804 1018 1257 19	711	1257
ominal weight, kg/m	0.395	0.617	0.888	1.578	1.578 2.466 2.98 3.853 4.834 6.313 7.99	2.98	3.853	4.834	6343	700	4	865

Area and weight of 8mm and 22m dia. bars are derived based on principle follwed for other sizes in Table A1.1 Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length. Actual dia, and TSYS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16.

55

XC2AjH9tH

ASTM A615M-16 Tensile Requirements for Common Steel Grades

Grade 60 Grade 75	Grade 60	Grade 75	Grade 80
	[420]	[520]	[550]
Tensile strength, min. psi [MPa]	90 000 [620]	90 000 [620] 100 000 [690] 105 000 [725]	105 000 [725]
Yield strength, min, psi [MPa]	60 000 [420]	60 000 [420] 75 000 [520]	80 000 [550]
Elongation in 8 in. [200 mm], min, %			

10, 12, 16, 20

Bar Designation No.

28, 32, 36, 40, 50, 60

Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge

Countersigned by:

Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

Test performed by:

24 April 2024

Dr. Shohel Rana

Professor, Dept. of Civil Engg., BUET

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. 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