



BSRM MAXIMA

HIGH-STRENGTH CONCRETE REINFORCING STEEL FOR MEGASTRUCTURES

Conforms to BDS ISO 6935-2:2021 Grade B600D-R
ASTM A 706: 2016 Grade 80



TYPICAL APPLICATIONS OF HIGH-STRENGTH STEEL



BSRM MAXIMA is the high-strength rebar designed specifically for megastructures like power plants, bridges, tunnels, flyovers, dams and skyscrapers.

BSRM introduces two different graded high-strength steel for reinforcing, namely:

- MAXIMA B500D (80 Grade) conforming to ASTM A 706: 2016 & equivalent to BDS ISO 6935-2; 2021 Grade B600C-R
- MAXIMA B600D-R conforming to BDS ISO 6935-2: 2021.

BSRM MAXIMA can provide relief to the members (Pile, Foundation, Column, etc) of megastructures from rebar congestion, which ensures better concreting and sound construction.

Available Sizes: 8mm to 50mm dia.



Mechanical and Chemical Property Requirements of MAXIMA 500D & MAXIMA B600D-R

Key Indicators	BSRM MAXIMA B500D		BSRM MAXIMA B600D-R	
Standards	ASTM A 706-16 Grade 80		BDS ISO 6935-2:2021 Grade B600D- R	
Yield Strength	Minimum 550 MPa (80,000 psi)	Maximum 675 MPa (98,000 psi)	Minimum 600 MPa (87,000 psi)	Maximum 720 MPa (104,400 psi)
Tensile Strength (Min)	690 MPa (100,000 psi)		-	
T/Y Ratio (Min)	1.25		1.25	
Elongation (Min)	12% 10mm to 32mm 10% 40mm to 50mm (In 8 inch gauge length)		A = 10% (Elongation after Fracture) Agt = 8% (Elongation at max. Force)	
Bending Requirements	3½D [10mm to 16mm] 5D [20mm to 25mm] 7D [28mm to 32mm] 9D [40mm to 50mm]		3D [D ≤ 16mm] 6D [16mm < D ≤ 32mm] 7D [32mm < D ≤ 50mm]	
Rebending Requirements	NA		5D [D ≤ 16mm] 8D [16mm < D ≤ 32mm] 10D [32mm < D ≤ 50mm]	
Steel Chemistry	Carbon	0.30% (Max)	Carbon	0.37% (Max)
	Silicon	0.50% (Max)	Silicon	0.55% (Max)
	Manganese	1.50% (Max)	Manganese	1.80% (Max)
	Phosphorous	0.035% (Max)	Phosphorous	0.040% (Max)
	Sulfur	0.045% (Max)	Sulfur	0.040% (Max)
	Nitrogen	-	Nitrogen	-
	C.E..	0.55% (Max)	C.E..	0.67% (Max)

RANGPUR OFFICE

Olipur Market,
Goneshpur, R K Road, Rangpur
Tel: +88 01714094579

BOGURA OFFICE

Tin Matha Rail Gate
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RAJSHAHI OFFICE

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MYMENSINGH OFFICE

GAZIPUR OFFICE

NARSINGDI OFFICE

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KUSHTIA OFFICE

TANGAIL OFFICE

DHAKA CORPORATE OFFICE

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CUMILLA OFFICE

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