

STANDARD		Re YIELD STENGTH Mpa/(ksi)	Rm TENSILE STRENGTH Mpa/(ksi)	Rm/Re RATIO
ASTM Standard Specification for Steel wire/ Steel Welded Wire Reinforcement, Plain, for Concrete	ASTM A 82M-07	Rp0.5 $\geq$ 485(70)	$\geq$ 550(80)	$\geq$ 1.05
	ASTM A185M- 06 $\geq\phi$ 3.15mm	$\geq$ 450(65)	$\geq$ 515(75)	$\geq$ 1.05
BS 4482: 2005 Steel Wire for the Reinforcement of Concrete	500 <8mm	$\geq$ 500	$\geq$ 510	$\geq$ 1.02
	500 $\geq$ 8mm	$\geq$ 500	$\geq$ 525	$\geq$ 1.05
BS 4483: 2005 Steel Fabric for the Reinforcement of Concrete	B500A	$\geq$ 485	$\leq$ 650	$\geq$ 1.03 (ifd<8mm, $\geq$
	B500B	$\geq$ 485	$\leq$ 650	$\geq$ 1.03 (ifd<8mm, $\geq$
	B500C	$\geq$ 485	$\leq$ 650	$\geq$ 1.13
BS 4449: 2005 Steel for the Reinforcement of Concrete-Weldable Reinforcing Steel	B500A	$\geq$ 500	$\leq$ 650	$\geq$ 1.05 (ifd<8mm, $\geq$
	B500B	$\geq$ 500	$\leq$ 650	$\geq$ 1.08
	B500C	$\geq$ 500	$\leq$ 650	$\geq$ 1.15, $\leq$ 1.35
AS/NZS 4671: 2001 Steel Reinforcing Materials	500L	$\geq$ 500	$\leq$ 750	$\geq$ 1.03
	500N	$\geq$ 500	$\leq$ 650	$\geq$ 1.08
	500E	$\geq$ 500	$\leq$ 600	$\geq$ 1.15, $\leq$ 1.4
SS 561: 2010 Steel Fabric for the Reinforcement of Concrete	500A	$\geq$ 485	$\leq$ 650	$\geq$ 1.03
	500B	$\geq$ 485	$\leq$ 650	$\geq$ 1.06
	500C	$\geq$ 485	$\leq$ 650	$\geq$ 1.13

ELONGATION (Reduction of area)	SHEAR STRENGTH (N/mm ²)	BEND TEST
(Z $\geq$ 30%)	-	D=2d
(Z $\geq$ 30%)	$\geq 241 \times S_{max}$	D=2d
Agt $\geq$ 1.0%	-	D=4d
Agt $\geq$ 2.5%		
Agt $\geq$ 2.5 (if d<8mm, $\geq$ 1.0)	$\geq 125 \times S_{max}$	D=4d
Agt $\geq$ 4.0%		
Agt $\geq$ 6.0%		
Agt $\geq$ 2.5% (if d<8mm, $\geq$ 1.0)	$\geq 121 \times S_{max}$	if d $\leq$ 16(D=4d) if d>16(D=7d)
Agt $\geq$ 5.0%		
Agt $\geq$ 7.5%		
Agt $\geq$ 1.5%	$\geq 250 \times S_{max}$	D=4d
Agt $\geq$ 5.0%		
Agt $\geq$ 10.0%		
Agt $\geq$ 2%	$\geq 250 \times S_{max}$	D=4d
Agt $\geq$ 4.0%		
Agt $\geq$ 6.0%		