



STEEL

Rebar for Construction



Engineered for strength and ductility

Liberty Speciality Steels offer high quality micro alloyed, hot rolled, **GREENSTEEL** rebar in grade B500C for use in reinforced concrete structures, including major road, rail and construction projects.

MEMBER OF



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libertyhousegroup.com

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Our B500C micro alloyed reinforcing bar has been developed with our customers' needs in mind and provides the benefits of consistent properties, plus a uniform grain size.

All our products are manufactured sustainably in the UK from recycled material, meet the full requirements of BS 4449:2005 and are CARES approved.

We can offer ex stock and made to order rebar in sizes 25, 32, 40 and 50mm.

Product range

Nominal size (mm)	Cross sectional area (mm ²)	Mass per metre (kg)
25	491	3.85
32	804	6.31
40	1257	9.86
50	1963	15.4

Lengths

Standard Lengths (m)	Length Tolerance (mm)
6 - 16	+50 / -0

Mechanical properties

Yield strength: 500MPa
 Bend / Fatigue / Bond / Welding: BS 4449:2005
 Chemical composition available upon request.

Ductility

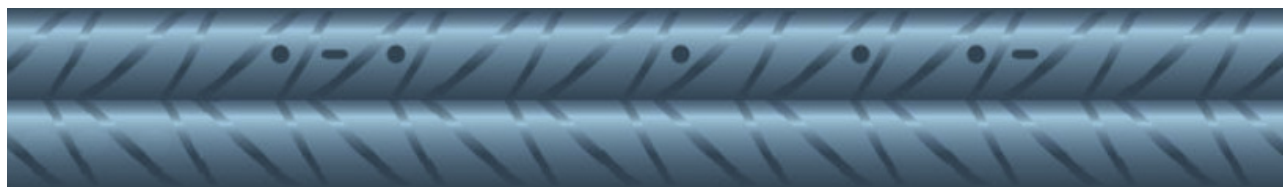
Stress ratio: ultimate tensile strength/yield strength f_t/f_y 1.15 - 1.35
 Elongation A_{gt} $\geq 7.5\%$

Approvals and Accreditations

CARES Sustainability Approved	ISO 9001 (quality)	ISO 45001 (health and safety)
ISO 14001 (environmental)	AS 9100 (quality)	BES 6001 (supply chain sustainability)
	IATF 16949 (quality)	

Rolling Marks

The Liberty Speciality Steels B500C bar mark complies with BS 4449:2005 and is as follows:



Technical support

We have a comprehensive technical support team available to advise on product range to achieve the maximum benefit. Customer Technical support provide specialist advice and help with day-to-day problem solving.

Works based metallurgists and the full resources of our Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on our range of products please contact our experts using the details below.

LIBERTY SPECIALITY STEELS

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 V1 06/2020.