



HRBF500E – Technical Datasheet

1. Chemical & Mechanical Properties

Element	% Composition
C (%)	0.23
S (%)	0.045
P (%)	0.045
Yield (MPa)	500
Tensile (MPa)	630
Elongation (%)	15
Agt	9

2. Equivalent / Alternative Grades

Grade	Standard	Yield (MPa)	Tensile (MPa)	Carbon Max (%)
ASTM A615 Grade 75	ASTM A615	520	690	0.30
BS 4449 B500B	BS 4449	500	625	0.24
ISO 6935 B500B	ISO 6935-2	500	625	0.24

3. Common Applications

- High-rise buildings
- Bridges & flyovers
- Seismic zones (D/S variants)

4. Standard Conformance

GB/T 1499.2-2018

5. Disclaimer

All chemical compositions, mechanical properties, dimensions and other technical data presented on this page are provided by Raunaq Steels Trading Pvt. Ltd. for **general reference only**. While we endeavour to ensure that the information is as accurate and up-to-date as possible, **no warranty, express or implied, is given** as to its completeness, correctness or fitness for any particular purpose. Raunaq Steels Trading Pvt. Ltd. **accepts no liability** for any loss or damage arising directly or indirectly from the use of, or reliance upon, the information contained herein.

For **authoritative** and **legally binding** specifications, users must refer to the **official publications** of the relevant standards—such as the BIS, ASTM, EN or JIS standards—available through their respective websites or published documents.