

STEEL FORMING COMPANY

Data Sheet for STEEL PRODUCT – CUT & BEND REINFORCEMENT

Product Name: Cut & Bend Reinforcing Steel

Standards: BS 4449:2005 +A3:2016 (Material) & BS 8666:2020 (Cut & Bend Dimensions)

1. Product Description

Hot-rolled, weldable steel bars cut and bent to project-specific shapes as per BS 8666:2020. Bars comply with BS 4449:2005 +A3:2016 for material quality. Suitable for reinforced concrete structures.

2. Applications

- Columns, beams, slabs, and foundations
- Bridges, tunnels, and road infrastructure
- Residential, commercial, and industrial buildings
- Precast concrete elements

3. Material Properties

Property	B500B	B500C
Yield Strength (Re)	≥ 500 MPa	≥ 500 MPa
Tensile Strength (Rm)	540–680 MPa	540–680 MPa
Rm / Re Ratio	≥ 1.08	≥ 1.15
Elongation (Agt)	≥ 5%	≥ 7.5%
Bend / Rebend Test	Pass	Pass

4. Available Diameters

10, 12, 16, 20, 25, 32, 40 mm (other sizes on request)

STEEL FORMING COMPANY

Data Sheet for STEEL PRODUCT – CUT & BEND REINFORCEMENT

5. Shapes & Bending

- Processed according to BS 8666:2020 shape codes
 - Dimensional tolerances per BS 8666
 - Minimum straight length between bends $\geq 4 \times$ bar diameter
-

6. Surface Condition

- Ribs and deformations as per BS 4449 requirements
 - Free from loose rust, oil, paint, or other deleterious matter
-

7. Identification & Traceability

- Bundle tags include bar size, shape code, length, heat number, batch number
 - Mill Test Certificates (MTC) provided for traceability
-

8. Packaging

- Bundled, strapped, and tagged
 - Delivered safely to prevent damage or corrosion
-

9. Compliance

- BS 4449:2005 +A3:2016 (Steel for reinforcement of concrete)
- BS 8666:2020 (Scheduling, dimensioning, bending, and cutting of steel reinforcement)