



**AMRELI
STEELS**

**GUIDE TO
BUYING STEEL**

OUT TO BUY STEEL FOR THE FIRST TIME?

This step-by-step guide by Amreli Steels will help you understand the product better and make a quicker decision.

WHAT TO DISCUSS WITH YOUR ARCHITECT, STRUCTURAL ENGINEER OR CONTRACTOR

1. STANDARDS OF STEEL BARS

Always ask which standard of the steel bar is required. Commonly used standards in Pakistan are:

American Standard

• **ASTM 615**

• **ASTM 706**

British Standard

• **BS 4449**

Pakistani Standard

• **PS 1879**

• **PS 1612**

2. GRADES OF STEEL BARS

Each construction project has a different Grade requirement. The Grade indicates the strength of the bar, measured in pounds per square inch (PSI).

• **Grade 40** 40,000 PSI minimum

• **Grade 60** 60,000 PSI minimum

• **Grade 50** 72,500 PSI minimum

3. QUANTITY AND SIZE

Steel bars are available in different sizes. Always confirm the size & quantity before purchasing.

WHAT TO DISCUSS WITH THE RETAILER

1. TYPES OF STEEL BARS

Steel bars commonly available in Pakistan:

- **Deformed Bars** are created from steel billets, purpose-built for construction. All of these conform to the latest versions of American (ASTM), British (BS) and Pakistani (PS) Standards.

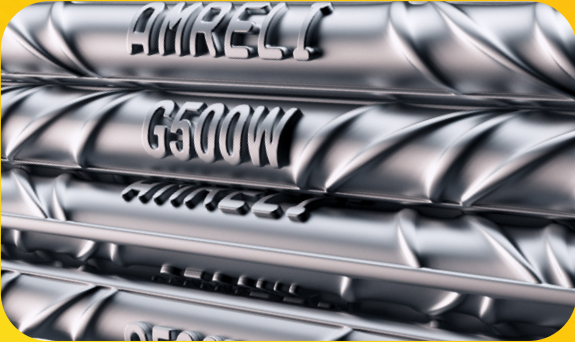


- **TOR Bars** are made out of plates cut from old ships that are cold twisted manually to achieve the desired strength.



2. BRAND AUTHENTICITY

- Look out for the manufacturer's name across the length of the steel bar to identify counterfeit products.
- You can find authentic product markings from the manufacturer's website prior to your purchase.
- Ask for brand literature at the time of purchase.



3. WEIGHT CHECK

Weigh the steel bars at the time of loading and delivery, to ensure weight accuracy, yourself or ask your retailer to get a weight check done by a third party weighbridge.



4. FLEXIBILITY

High Quality Rebars are flexible. A simple test can determine the flexibility. Lift a single bar from a bundle from one end and then let go. High quality steel bars will return close to their original position whereas low quality steel bars will stay bent.



5. RIB PATTERN

A consistent rib pattern along the length of the bar is an indication of a high quality bar as it ensures better bonding with concrete.





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