Danterr
CONCRETE ACCESSORIES FOR AUSTRALIA

T. 1800 262 383 **E.** sales@danterr.com
W. danterr.com

DEFORMED REINFORCING BAR

PRODUCT DESCRIPTION

Deformed bar is a Class N (normal ductility) reinforcing bar used in a range of applications from reinforced concrete slabs to prefabricated beams, columns, cages and precast products. Also known as rebar, deformed bar complies with AS/NZS 4671: 2001 Steel reinforcing materials and is available in 500 MPa from 10mm - 40mm bar diameters. Always consult with an engineer before choosing the bar suited for your application.

AREAS OF APPLICATION

Deformed reinforcing bar is used in a range of residential, commercial and infrastructure applications from concrete slabs to prefabricated beams, columns, cages and precast products. Deformed reinforcing bar complies with all relevant Australian standards.

PROPERTIES

- Class N
- Excellent strength to weight ratio
  Steel has high modulus of Elasticity. This helps the steel to stretch in tension without breaking and regain its shape on removal of load.
- Ductility of steel is high. i.e. Steel rebar will behave ductile under higher loads.
- Steel and concrete has almost same coefficient of thermal expansion. Due to this both
  (concrete and steel) will experience same length changes in high temperatures.
- Structural Steel industry has enough production capacity to meet the demands of construction industry and is available at ease for any house construction.
- Steel can be recycled easily.

ASSOCIATED STANDARDS

AS/NZS 4671: 2001 Steel reinforcing materials
AS 3600: 2001 Concrete structures
AS 3600: 2009 Concrete structures
AS 2870: 2011 Residential slabs and footings - Construction
AS/NZS 1170: 2002 Structural design actions
AS 1554 .3 : 2008 Part 3: Welding of reinforced steels
AS 5100.5: 2004 Bridge Design: Concrete
AS 1100-Part 501: 2002 - Technical drawing - Structural engineering drawing
AS 23 27.1: 2003 - Composite structures, Part 1: Simply supported beams