

ArcelorMittal South Africa



ArcelorMittal



Long Steel Products



Rails

Rails for use in mines are supplied to ArcelorMittal South Africa's own specification as mines and sidings in 15 kg/m, 22 kg/m, 30 kg/m and 40 kg/m sizes as well as mainline rail specified in 48 kg/m and 57 kg/m sizes.

Typical End Uses

Used in mine sidings and overhead crane rails as well as mainline railway. ArcelorMittal South Africa is the only producer of mainline rail in Sub-Saharan Africa.

For more information on rails, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Rails.aspx>



Reinforcing Bar / Y Bar

The reinforcing bar is produced for the reinforcement of concrete. Two types are produced: the mild steel plain bar and the deformed high strength bar. The ArcelorMittal South Africa reinforcing bar is produced either by means of alloy additions to achieve the desired mechanical properties or alternatively, subject to certain conditions, the bar is thermo mechanically treated (TMT) to achieve the required mechanical properties.

Typical End Uses

Reinforcing steel bars are used for the reinforcement of concrete structures, the manufacture of anchor bolts, etc. Reinforcing bars (rebars) can be smooth or deformed.

For more information on reinforcing bar please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Reinforcingbar.aspx>



Fencing

Fencing posts are made from high-quality steel, which ensures excellent strength, corrosion resistance, and weather durability.

Typical End Uses

Y-standard posts, I-posts, Y-game fencing posts

Small stock and domestic fences, highway fences, game fencing and large stock.

Ridgeback droppers

Support and secure spacing of line wires between standards.

Secri-lec®

Electric fencing

Afri post

Recommended for small stock and low cost domestic fences only.

For more information on our fencing profiles please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Fencing.aspx>



Hexagon Bar

A Hexagon bar is a bar with six straight sides and angles.

Typical end uses

Hexagon bars are used in the mining, specialised bolt and nut, machinery, chemical, shipping and architectural industry.

For more information on hexagon bar and other structural sections, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



Flat Bar

Flat bars are a flat, rectangular section with square or round corner edges in varying sizes.

Typical End Uses

This product is suitable for a wide variety of applications and is distributed into the construction, engineering, manufacturing, mining and fabrication sectors, among other industries.

For more information on flat bar and other structural sections, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



I-Sections

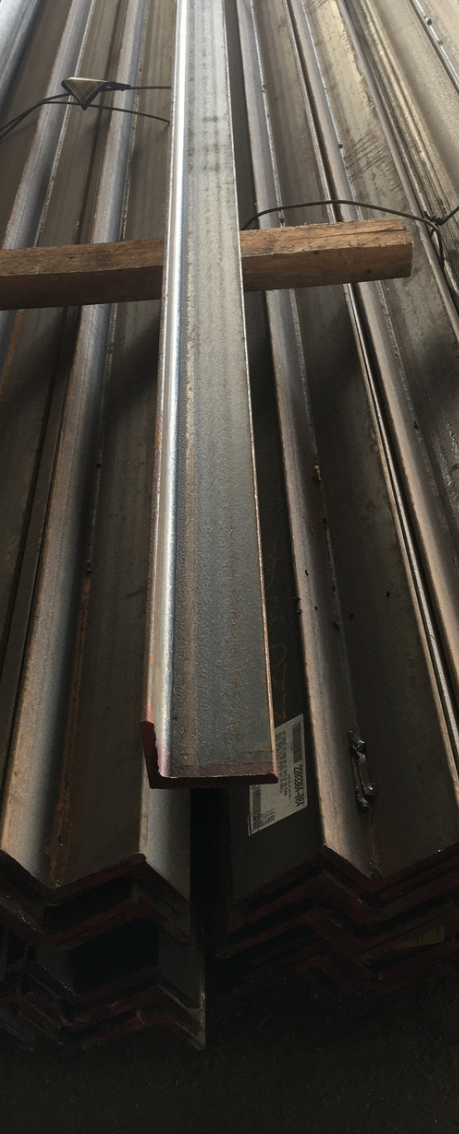
I-sections are named for their distinctive shape, resembling the letter "I" or "H" when viewed from the end. I-sections are crucial components in the construction industry, particularly for large-scale building projects and heavy infrastructure. Their superior load-bearing capacity and structural efficiency make them a preferred choice for that require high strength and stability.

Typical end uses

I-sections are used in the construction industry, railway brackets, base plates, braces and stiffeners, exhaust flanges and hand rails.

For more information on I-sections and other structural sections, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



Angles & Channels

Angles and Channels are widely used in various industrial applications.

Angles (equal & unequal)

Structural steel with a distinctive L-shaped cross-section either in equal or unequal lengths.

Channels

Channels have tapered flanges, which give them greater structural stability and load-bearing capacity compared to flat steel bars.

Typical End Uses

Both steel angles and channels are used in infrastructure construction, machinery fabrication, and support structures.

For more information on angles & channels or other structural sections please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



Columns

Universal beams, are a type of hot-rolled structural steel used in various construction and engineering applications. They are called "universal" beams because of their versatile shape and wide range of uses. Universal beams are known for their excellent load-bearing capacity and are widely utilised in building frames, bridges, support structures, and other heavy-duty applications.

Typical End Uses

Columns are used in the construction industry, fabrication, steel structures such as commercial buildings and warehouses, transmission towers etc.

For more information on columns and other structural sections, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



Window Sections

Universal beams, are a type of hot-rolled structural steel used in various construction and engineering applications. They are called "universal" beams because of their versatile shape and wide range of uses. Universal beams are known for their excellent load-bearing capacity and are widely utilised in building frames, bridges, support structures, and other heavy-duty applications.

Typical End Uses

Columns are used in the construction industry, fabrication, steel structures such as commercial buildings and warehouses, transmission towers etc.

For more information on columns and other structural sections, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Structuralsections.aspx>



Wire Rod

Wire rod is a long, thin, and cylindrical metal product with a circular cross-section, typically manufactured from hot-rolled steel billets. It serves as a primary raw material for various wire and wire-related products.

Typical End Uses

Wire rod has a vast variety of end uses. This includes applications such as manufacturing wire for pre-stressing concrete, galvanised strand for cables, spring wire, welding rods, barbed wire, mesh and fence wire. Furthermore, mattress springs, car seat springs, garage springs, oven racks, braai roosters, shopping trolleys, steel wool, lifting slings, nails, staples, ropes, tens pens, guy wire, brick force and electricity wire are also made from wire rod.

For more information on wire rod please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Wirerod.aspx>



Hollow Bar

A Hollow bar is either a hexagon or a round bar with a hole in the centre of the bar.

The following profiles are manufactured at ArcelorMittal South Africa;

- Round Hollow Bar.
- Lined Hexagon Hollow Drill.
- Unlined Hexagon Hollow Drill.
- Unlined Case Hardening (on enquiry).
- Hollow Deformed Bar (on enquiry).

Typical End Uses

Hollow bar is primarily used in the mining industry as a hollow drill bit.

For more information on hollow bar, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Hollowbar.aspx>



Mining Bar

A Mining bar is a round bar with deformations designed to enhance the adhesion properties of the bar when resins and epoxies are applied to it in underground mining applications. Mining bar supplied by ArcelorMittal South Africa is micro alloy based and allows for ease of threading the bar without impacting on the mechanical properties of the bar.

Typical End Uses

Mining bar is typically used for roof bolt applications in the mining and geotechnical industries.

For more information on mining bar, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Miningbar.aspx>



Rounds & Squares

Hot Rolled Rounds

Round bars can be defined as material used for applications such as general engineering and rods for grinding mills.

Hot Forged Rounds

Round bars in the forged, heat treated and machined conditioned.

Hot Rolled Squares

The square bar product range consists of sharp cornered and round cornered square bars.

Typical End Uses

Rounds & Squares are typically used in the automotive, bolt & nut, chains, construction, agriculture, mining, re-forging, transport, armament and engineering industries.

For more information on rounds and squares, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/RoundsSquares.aspx>



Special Profiles

Special profiles are defined as products that are specifically developed for specialised applications. ArcelorMittal has a track record of developing products to suit specific applications and fulfilling customer needs.

Typical End Uses

Special profiles are typically used in the mining, construction, agricultural implements, rail and road networks and civil engineering industries.

For more information on special profiles, please visit the datasheets online

<https://arcelormittalsa.com/Products/Longsteelproducts/Specialprofiles.aspx>



Tubular

Seamless tubular products refer to a type of metal tube or pipe that is produced without any welding or joining seams along its length. These tubes are manufactured through a process called seamless pipe manufacturing, which involves piercing a solid billet with a metal plug to create a hollow tube. This method ensures a uniform structure and consistent mechanical properties throughout the length of the tube.

Typical End Uses

Line pipe for use in oil and gas transportation, carbon and low alloy for use in process and pressure piping applications, OCTG products and precision tube for mechanical applications.

For more information on our tubular products, please visit the datasheets online

<https://arcelormittalsa.com/Products/Productpercategory/Tubularproducts.aspx>

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