



Fabrication & Metalworking: Grills, Railings, and Decorative Metalwork

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Steel Bright Bars That Combine Strength with Style

When it comes to **grills, railings, and decorative metalwork**, aesthetics and structural integrity go hand in hand. These applications demand **materials that are not only strong and durable but also visually appealing and easy to fabricate**. Steelmet Industries' **cold drawn steel bright bars** offer the **ideal surface finish, machinability, and dimensional accuracy** required for architectural and decorative applications—indoors or outdoors.

Why Steel Bright Bars Are Ideal for Architectural Metalwork

- ? **Smooth, Bright Surface Finish** – Reduces the need for polishing and surface prep
- ? **Superior Weldability & Bendability** – Makes fabrication faster and easier
- ? **Excellent Dimensional Accuracy** – Ideal for CNC-based or modular metal art and fabrication
- ? **Available in Special Profiles** – Such as **rounds, squares, hexes, flats, half-rounds, and even custom shapes** to match artistic and design requirements

Key Applications

1. Window Grills and Security Grilles

Grills must provide **both security and visual appeal**, especially in residential and commercial construction.

- ? **Uniformity in shape and size** ensures consistent designs
- ? **Surface-ready finish** accepts **coatings, paints, or powder coatings** directly
- ? **Long life** with **minimal maintenance** when coated or galvanized

? Recommended Steel Grades:

- **EN3B (070M20, AISI 1020)** – Low-carbon, easy-to-bend and fabricate
 - **EN8 (C45, AISI 1045)** – For stronger, more robust security grills
 - **SS304 / SS202** – For rust-free, polished decorative applications
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2. Stair & Balcony Railings

Railings are exposed to frequent handling, moisture, and sometimes harsh weather. They need to be:

? **Structurally sound** – To support weight and stress

? **Visually refined** – For residential and commercial elegance

? **Corrosion-resistant (when treated)** – For longevity in outdoor installations

? Recommended Steel Grades:

- **EN8 or EN9** – For robust, long-lasting interior railings
 - **SS304 / SS316** – For premium, corrosion-resistant outdoor installations
 - **EN3B** – For easy fabrication of ornamental and custom railings
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3. Decorative Metal Elements

Used in **gates, fences, signage, wall panels, and art installations**, decorative metalwork must offer:

? **Ease of forming into intricate designs**

? **Good surface adaptability** for engraving, laser cutting, or embossing

? **Availability in unique shapes like half-rounds, flats with beveled edges, or custom contours**

? Recommended Steel Grades:

- **EN3B / EN1A (Free-cutting steel)** – For intricate, decorative turning or engraving
 - **SS304** – For luxury design installations requiring long-term shine and corrosion resistance
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- **Custom Bright Bars** – Designed to match specific architectural profiles

Why Choose Steelmet Industries?

- ? **Full range of standard and custom-shaped bright bars** for architectural and artistic use
- ? **Consistent surface finish and quality control** for uniformity across installations
- ? **Expertise in supplying to grill fabricators, railing manufacturers, and metal artisans**
- ? **Flexible order quantities, fast turnaround, and reliable quality**

? **Order direct from the source:** www.steelmet.in

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1. Posts

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3. decorative metalwork
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6. SS304 railings
7. steel bright bars
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