



## Plate

Sure-Foot® Safety Plate: Plate steel with a raised grip pattern that enhances safe footing

### Introduction

ArcelorMittal USA's Sure-Foot® is one of the most popular safety flooring designs. It features a distinctive raised pattern that demonstrates slip resistance approved by Underwriters Laboratories, Inc.

However, Sure-Foot is not just a safe and durable walking surface. Used in numerous applications, it has proven to be a versatile material that can be engineered into a variety of strong, attractive and functional end products.

Sure-Foot is produced at the ArcelorMittal USA Conshohocken, PA plant using specially machined finishing rolls.



### Applications

Sure-Foot is used extensively in land and marine transportation and general industrial applications. Its characteristics of safety enhancement, strength, ease of fabrication and aesthetic appeal have triggered some unusual uses including sculpture. Common uses include:

#### Vehicles:

- Bumpers
- Running boards
- Tailgates
- Trailer beds
- Truck liners
- Loading ramps

#### Industrial:

- Dock levelers
- Loading platforms
- Walkways
- Kick plates
- Industrial scales
- Fan blades
- Machining centers

#### Marine:

- Boat docks
- Ship Decks
- Catwalks
- Ladders
- Ramps

#### General:

- Stairways
- Pallets
- Flooring
- Manhole cover
- Railroad crossings
- Sidewalk safety doors



## Specifications

Sure-Foot is produced in a full range of carbon and alloy specifications. When requested, ArcelorMittal USA can certify to ASTM A786, Pattern 2, or Federal Specification QQF-461c, Pattern 8.

Please note that mechanical testing involving elongation properties is not appropriate because of the influence of the raised pattern on the ductility of the tensile specimen. Therefore, elongation values for Sure-Foot are not available.

Sure-Foot is available as Duracorr®, a 12% chromium stainless steel grade. Duracorr conforms to ASTM A1010 with up to a 50 ksi minimum yield strength. This stainless grade bridges the gap between weathering steels and 18-8 austenitic stainless steels and performs well in marine atmospheres and the corrosive, aggressive environments found in chemical plants. Sure-Foot made from Duracorr is available rolled or pickled.

### Weight Calculation Formula:

$(\text{Thickness} + .0257) \times \text{Width} \times \text{Length} \times .2836 \text{ lbs. per cubic inch} = \text{Theoretical weight}$

**Table 1: Sizes**

Thickness	Maximum Width
.25 to 1 in. incl.	96 inches
Over 1 in.	Subject to inquiry

Note: Thickness of plate excludes raised pattern.

### Pattern of Sure-Foot with Dimensions



The floor plate diamond is at least 0.030" above the base thickness. It can be as much as 0.090" above the base thickness. The amount is dependent on the gauge and width of the product. The unique design of our diamond provides traction for all diamond heights.



Sure-Foot can be swept, hosed down or mopped clean because there are no pockets to entrap dirt and moisture. The raised pattern allows for the rapid draining of water and lowers maintenance costs.



The attractive pattern of sharp, clearly defined projections resists slippage. As many as 40 raised treads provide grip traction each time a foot comes in contact with the floor.



Fabrication is made easy and more economical with Sure-Foot because its pattern is continuous. Sure-Foot plates can be laid end-to-end, side-to-side or side-to-end thereby eliminating labor and waste from cutting.

### Information

For more information on Sure-Foot, call Dan Goldstein at ArcelorMittal USA's Conshohocken plant at +1 610 832 7087 or [dan.goldstein@arcelormittal.com](mailto:dan.goldstein@arcelormittal.com). Customer and technical service professionals will assist customers with product application data relating to welding, forming, corrosion, mechanical properties or other specific requirements.

Continuing updates of this information can be found on our website at: <http://www.arcelormittal.com>

### Information

- [Guidelines for Fabricating and Processing Plate Steel](#)
- [Duracorr® Stainless Steels](#)

All information in this brochure is for the purpose of information only. ArcelorMittal USA reserves the right to change its product range at any time without prior notice.

#### ArcelorMittal USA

Corporate Office  
1 South Dearborn Street  
18th Floor  
Chicago, IL 60603-9888  
USA

T +1 800 422 9422  
[www.arcelormittal.com](http://www.arcelormittal.com)

#### ArcelorMittal USA

Plate  
ARC Building  
139 Modena Road  
Coatesville, PA 19320-0911  
USA

T +1 800 966 5352  
[www.arcelormittal.com](http://www.arcelormittal.com)

#### ArcelorMittal USA

Plate  
250 West U.S. Highway 12  
Burns Harbor, IN 46304-9745  
USA

T +1 800 422 9422  
[www.arcelormittal.com](http://www.arcelormittal.com)