

Data Sheet: A2.3

VASTRAP[®] floor plate

Hot Rolled Patterned Weldable Floor Plate in Coil

General description

VASTRAP[®] is a registered ArcelorMittal South Africa trade name for hot rolled steel floor plate. It is patterned to render a non-slip surface. The geometry of the layout facilitates cleaning and draining of the working surfaces while retaining the required non-slip characteristics. It can be supplied as mill edge coils. VASTRAP[®] is produced from Commercial Quality.



Pattern Dimension

The pattern consists of oval shaped projections.

Length = 30mm (± 2mm)

Width = 5mm (± 1mm)

Height = 1,6mm (± 0,4mm) for thickness 4,5mm and more

Height = 1,6mm (+ 0,4 -0.6mm) for thickness 3,0mm

Chemical composition

Table 1. Chemical composition (ladle analysis, percent)

Specification	Thickness t (mm)	C max	Mn max	Si max	P max	S max
Commercial	$3,0 \leq t < 4,5$	0,15	1,00	0,30	0,035	0,040
Quality	$4,5 \leq t \leq 8,0$	0,25	1,60	0,50	0,035	0,040

Mechanical properties

Mechanical properties are not guaranteed on Vastrap material.

Safe loads

Refer to the Structural Steel Tables published by the South African Institute of Steel Construction (telephone number +27 11 838 1665), for design loads.

For further information, contact:

ArcelorMittal South Africa, PO Box 2, Vanderbijlpark 1900. Toll free number 0800 005043

Care has been taken to ensure that the information in this data sheet is accurate. ArcelorMittal South Africa does not, however, assume responsibility for any inaccuracies or misinterpretations of this data. We are continuously engaged in product development and revised data sheets will be issued from time to time. Please ensure that you have the most recent issue. **Effective date: May 2020**

Bending Properties

Material < 4,5mm thick should pass a bend test where the mandrel diameter is equal to 6,0 times the plate thickness.

Dimensions

The following dimensions are available:

Table 3. Available dimensions

Thickness ¹ (mm)	Width ² (mm)
3,0	1200
4,5	1200
6,0	1200
8,0	1200

Notes:

1. Thickness is that of the strip and does not include the raised pattern.
2. 1000mm widths are available on enquiry.

Dimensional tolerances

Tolerances on dimensions and shape are given in the data sheet: Hot Strip Mill Tolerances (file reference A1.2). Only flatness for coils (temper rolling not specified) is applicable. These tolerances apply to the dimensions and shape of the plate and do not include tolerances of the pattern. The thickness tolerances are increased by 25%, for example for strip of nominal width 1 200mm and of nominal thickness 3mm, the tolerance would be $\pm 0,25$ mm instead of $\pm 0,20$ mm.

Mass

The permissible variation above and below theoretical mass is given in Table 4. This tolerance applies to batches of floor plate. For single plates the permissible overmass is 1,333 times the plus tolerance shown.

Table 4. Permissible variation above and below theoretical mass (percent)

Standard thickness (mm)	Theoretical mass (kg/m ²)	Over	Under
3,0	26,00	5	8
4,5	37,78	5	8
6,0	49,55	5	6
8,0	65,25	5	5,5

Certification

Commercial quality is supplied with analysis certificate only.

Weldability

VASTVRAP[®] floor plate is readily weldable by means of standard metal arc processes. For more information on the weldability of each specification, reference should be made to the relevant data sheets.

Supply conditions

VASTRAP[®] is supplied in terms of Price List 115 and ArcelorMittal South Africa's General Conditions of Sale.

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