VAUTID 200
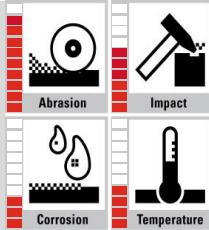
Wear plate for highly wear resistant hardfacing for medium to high impact

VAUTID Material characteristics

Base materials	All weldable steels, mostly structural steels
Material type / Alloy components	High-chromium/high-carbon alloy on iron base with embedded special vanadium carbides C – Cr – V – Fe
Recommended applications	For high abrasion, medium corrosion and medium to high impact; maximum temperature 350° C
Weld deposit properties	Hardness (acc.DIN 32525-4): approx. 820 HV10, appox. 64 HRC*
Main industries	Metallurgical plants, cement industry, power stations, mining, sand and gravel industry, etc.
Typical machine parts	Transfer stations, chutes, grids, mill linings, etc.
Handling	- Conventional machining possible only by grinding - Thermal cutting using laser, plasma or water jet cutting - Cold working from diameter 300 mm possible with hard facing inside [1] - Cold working from diameter 450 mm possible with hard facing outside [1] - Fixing by welding or bolting on the base material - Constructions comparable with conventional steel construction

(1) dependent on thickness of plates

* subject to common industrial fluctuations

Forms of delivery:

Formats (mm)	Thickness of the plates Base material + Hardfacing (mm)	Material Layers	Comments
Standard formats 2.400 x 1.150 [2] 2.900 x 1.400 [2]	5+3 [3], 6+4, 6+6, 8+5, 8+6, 8+8, 10+5, 10+10 Further combinations on demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 4 Layers	Base material 5 mm: Hardfacing 3 mm Base material 6 mm: Hardfacing 3 - 6 mm Base material ≥ 8 mm: Hardfacing 3 - 20 mm
Special body Up to 3.900 x 1.900 [2]	On demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 4 Layers	Base material 6 mm: Hardfacing 4 - 6 mm Base material ≥ 8 mm: Hardfacing 4 - 20 mm

(2) Hardfaced area
(3) max. 2.900 x 1.400 mm

This data sheet corresponds to the present state of production (February 2020) and can be changed anytime.