



DURAPLATE® D31

DURAPLATE D31 is an overlay welded plate with swept weld beads based on chromium carbides, with a hardness of 60 to 62 HRC and hard phases primarily at 1650 HV.

It resists very severe abrasion up to temperatures of 350°C.

Main applications Linings, casings, cyclones, separators, screens, fans, pipes, tunneling machines, screw conveyors, reclaimer blades, and all fabricated parts.

Hardness Primary chromium carbides ranging from 1300 to 1650 HV

Mechanical properties
Typical value, S355 Overlay welding does not have inherent mechanical properties, but the substrate on which it is welded has suitable characteristics: S235, S355, HLE, stainless steel, DURSTEEL 410

Rp 0.2 : 355 Mpa
Rm : 510 MPa
A% : 22

Chemical composition
Typical value

C (Max %)	Si (Max %)	Mn (Max %)	Cr (Max %)	Ni (Max %)	B (Max %)	Fe (Max %)
5	1.5	1.5	27	0.10	0.5	Reste

Dimensions XL format: 3000x2000 with a usable surface of 2900x1800 = 5.22m²
Custom sizes are available upon request. Maximum size 6000x2000.

Thicknesses Standard : 5+3, 4+4, 6+4, 5+5, 8+5, 7+6, 12+8 ,12+12

Specificity Overlay welded plates are the standard plates in the PRODUR range. They meet all market abrasion demands.
The cracks are very fine and do not penetrate the base metal.

100% of the plate can be used.

The average drop rate is 10% compared to 30% for other market plates.



Implementation

DURAPLATE D31 has excellent suitability for rolling, bending, and folding. Bending is possible, though welding the plates is recommended.

Weldability

Assemble using our EASYCOR 70M or CORINOX 307 wire and protect the welds with our DURCOR31WO wire.

For any use of abrasion-resistant steel at higher temperatures, we recommend using our DURAPLATE D45T overlay plate (see the technical sheet on our website wa-produr.com).