

# Composite wear plate

## IBERPLATE® 600

IBERPLATE 600 is a composite wear plate consisting of a construction steel base plate and a wear resistant coating applied by arc welding. The deposit welded with stringer beads gives a regular surface and a homogeneous structure. IBERPLATE 600 is typically used for applications combining high temperature constraints and superior wear conditions by abrasion and erosion such as in the iron and steel making industry or in the coal-fired power plants.

	Technical features
<b>Base plate</b>	ST 37 – S235
<b>Weld deposit</b>	Very high concentration of chromium, niobium, vanadium, molybdenum and tungsten carbides in an austenitic matrix.
<b>Hardness</b>	61 - 64 HRC
<b>Temperature</b>	Service temperature up to 600°C.
<b>Applications</b>	Perfectly adapted for applications with superior erosive or abrasive wear, impact and high service temperature.  <b>Examples:</b> hot screens, coke sliders, armoring of blast furnaces, sinter crushing, etc
<b>Cutting</b>	Plasma, water jet, laser
<b>Forming</b>	Easy to bend, to roll and to shape
<b>Fixing</b>	Bolting, inserts, welding (assembling with coated electrode type AWS7018/ EN E 5153 or solid wire SG3). A wear resistant alloy may be applied on the welded area. Contact us for more information.  Note: the welding process does not affect the wear properties of IBERPLATE.



Standard dimensions	
Overall plate [mm]	Cladded area [mm]
1500 x 3000	1400 x 3000

Special dimensions on request

Base plate [mm]	Standard thicknesses / weight [KG/m <sup>2</sup> ]				
	Coating [mm]				
	3	4	5	6	8
5	62	-	-	-	-
6	-	77	-	92	-
8	-	92	100	108	-
10	-	-	116	123	139

Special thicknesses on request

Thickness tolerance  $\pm 1$ mm

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- ⌚ Low dilution between the weld deposit and the base material. High density of very hard carbides well distributed in the whole thickness of the deposit.
- ⌚ Micro-cracks resulting from stress relieve during the welding process do not affect the wear properties
- ⌚ Advantage of the stringer bead welding technique used for IBERPLATE compared to the oscillated technique: absence of open cracks and of weak areas between the welded beads for a higher wear resistance.

