



DURSTEEL® TUFFPLATE

DURSTEEL TUFFPLATE is a wear resistant hardened steel specially designed for its high impact resistance. Its characteristics allows it to be used in application that require a high stiffness and wear resistance.

Main applications High thickness wear plates: Bulldozer blades (Delta, semi delta). Wear plate in crushers (bouncing plate and anvils), etc.

Hardness 310 - 370 HB

Mechanical properties
 Typical values
 Thickness 90 mm
 Rp 0.2 : 950 MPa
 Rm : 1000 MPa
 A% : 15

Resilience
 Typical values
 Thickness 90 mm
 Impact energy 60j at -40°C

Chemical composition

Typical values

Thickness (mm)	C (Max %)	Si (Max %)	Mn (Max %)	P (Max %)	S (Max %)	Cr (Max %)	Ni (Max %)	Mo (Max %)	V (Max %)	Nb (Max %)	B (Max %)
40-80	0.21	0.6	1.8	0.02	0.01	1.5	3	0.7	0.09	0.04	0.005
80 à 150	0.21	0.6	1.8	0.02	0.01	1.5	3	0.7	0.09	0.04	0.005

CEV

Typical values

Thickness . (mm)	CEV	CET
40-80	0.66	0.40
80 à 150	0.74	0.43

Dimensions Available in Quarto: From 40 to 150 mm

Tolerances Compliant with EN 10 029 for QUARTO sheets
 – Shape, length and thickness tolerances. Class A
 – Flatness tolerances as per Class N / H type steel

**Surface condition**

Compliant with EN 10 163-2
– Surface requirements as per Class A2.

Implementation

DURSTEEL TUFFPLATE maintains its properties up to a temperature of 450°C.

For any use of a steel with impact resistance characteristics, we recommend our DURSTEEL Mn alloy (refer to datasheet at www.wa-produr.com)

Weldability

DURSTEEL TUFFPLATE is a hardened steel with a high carbon equivalent that limits its metallurgical weldability.

Température de préchauffage et entre passes minimales recommandées en fonction de l'épaisseur en mm :

40-70mm	70-150mm
100°	125°

The recommended WA PRODUR filler metals for welding DURSTEEL 460 are as follows:

EASYCOR 70M : Copper tubular cored wire without slag for horizontal butt welding

EASYCOR 700M : Copper tubular cored wire with high limit of elasticity for horizontal butt welding

CORINOX 307G : Stainless steel cored wire for heterogeneous assembly

CORINOX 312G : Stainless steel cored wire with high mechanical properties for heterogeneous assembly

All technical data sheets for the wires in the WA PRODUR range are available on our website: www.wa-produr.com.