

# Composite wear plates

## More resistant than quenched and tempered abrasion-resistant steel plates

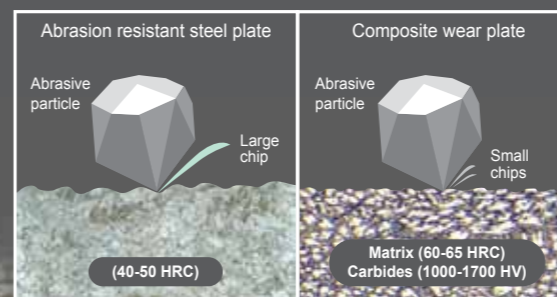
Welding Alloys' range of wear plates comprise a base plate of construction steel and a wear resistant coating applied by arc welding. Produced using specially developed Welding Alloys cored wires, they are distinguished by their:-

- Homogeneity of the deposit
- Regular appearance
- High quality consistency – guaranteed by the use of advanced automatic welding equipment designed and manufactured in our workshops
- Functionality and Adaptability

Additionally:

Hardplate™, Hardlite™ and Tuffplate™ are available in standard dimensions or made to measure, in the widest available range of thickness. Their dense metallurgical structure offers exceptional resistance to abrasive wear.

## Comparative wear test



## Hardplate™

### Heavy duty composite wear plates

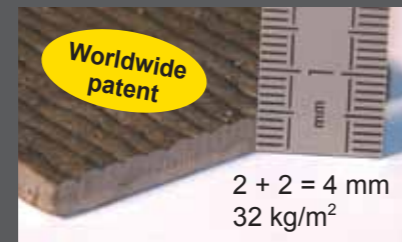
- Base metal and coating thicknesses selected according to the application
- Choice of several coating types
- Preferred solution for maintenance



## Hardlite™

### Ultra-thin composite wear plates - less than 5 mm

- Specially adapted for applications where weight is restricted
- More adaptable, lighter and harder
- Advantageous for moving parts



## Tuffplate™

### Impact resistant wear plates

- Designed for applications susceptible to a combination of wear and impact
- Ideal solution for material transfer and transportation areas



## Coating types

Hardplate 100	Hardplate 300	Hardplate 600	Hardlite	Tuffplate
Chromium carbides Excellent wear resistance Optimum solution for most applications	Chromium + niobium carbides Superior wear resistance For severe conditions of service up to 300C	Complex carbides Superior wear resistance Keeps its outstanding properties up to 600C	Refined microstructure with high volume of chromium carbides Extremely high wear resistance	Finely dispersed carbides within a tool steel matrix.  Ideal for areas with a combination of abrasion, pressure and impact
Fair corrosion resistance - Designed to withstand moderate impact				
Hardness 60-62 HRC	Hardness 61-63 HRC	Hardness 62-64 HRC	Hardness 68 HRC	Hardness 56-58 HRC

## Standard dimensions

Type	Standard size
Hardplate	1500 x 3000 mm (L) 2000 x 3000 mm (XL)
Hardlite	1000 x 2000 mm
Tuffplate	1500 x 3000 mm (L)

## Standard thicknesses

Type	Base plate	Coating
Hardplate	5 to 15 mm	3 to 15 mm
Hardlite	2 or 3 mm	2 or 3 mm
Tuffplate	5 to 15 mm	3 to 15 mm

Other sizes available on request

Technical and application data sheets on request.

Customised coated specifications available e.g. wear-resistant, stainless or heat-resistant steels.

## Principal industries

- Steelmaking
- Cement
- Mines
- Quarries
- Public works
- Glassmaking
- Brickmaking
- Recycling
- Agriculture
- Dredging
- Thermal power stations
- Waste incinerators

## Examples of applications

- Hoppers
- Chutes
- Buckets
- Pipework
- Elbows
- Armouring
- Screen
- Fans
- Cyclones
- Conveyors
- Classifiers
- Mixers

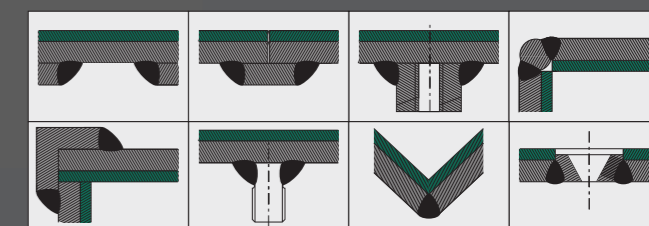
## Adaptability

- Cutting - Rolling - Bending
- Numerous fixing and assembling possibilities: welding, bolting, etc.

Welding and cutting processes do not affect the wear properties of Hardplate, Hardlite and Tuffplate.



## Examples of fixing



## WA Integra: 3 types of service

- Supply of wear plate for reworking
- Supply of pieces prepared to specification and ready for assembly
- Construction of assembly in our workshops or turn key projects on site