

## AP-X Cross Hatch AbrasaPlate

### Description

AP-X Cross Hatch AbrasaPlate is a high quality compound weld-overlay hardfaced plate, with the unique addition of a cross hatch pattern on top of the standard chrome carbide overlay. The chrome carbide overlay provides high hardness and abrasion resistance. The cross hatch pattern increases impact resistance, and enables a rock-box effect, where abrasive media fills the voids and provides self-protection against wear.

AbrasaPlate-X also provides weight advantages compared to smooth AbrasaPlate.

### Applications

Ash Lines	Crushers	Buckets	Chutes & Ducts
Hoppers	Impact Plates	Breaker Bars	Drag Lines
Grizzly Bars	Blast furnace	Sinter Plants	Screw Flights

### Typical Weldmetal Analysis

C	Cr	Mn	Si	Fe
3.5↑	20↑	※	※	Base

\*Actual composition varies depending on the overlay thickness

### Mechanical Properties

Hardness: HRC 58-62.

### Microstructure

Mixture of high volume hexagonal shaped chromium carbide in tough austenitic and martensitic matrix. Volume Fraction Primary Carbides: 30%. Relief cracks are normal in the hardfacing

### Available Forms

Thickness	Sheet Size
4 on 4	1.5x3.0m
4 on 6	1.5x3.0m
6 on 8	1.5x3.0m
9 on 10	1.5x3.0m
12 on 12	1.5x3.0m

- The -X Cross Hatch AbrasaPlate has an additional 3mm height of cross hatch hardfacing weld on top of the standard hardfacing thickness.
- So 4 on 6 has 6mm back plate, 4mm solid hardfacing, 3mm cross hatch for overall thickness 13mm
- Backing Plate: Standard SS400 mild steel, others available on request.
- Custom thickness and sizes are available to request, up to 30mm thick.



### Processing

- AbrasaPlate can be welded on the mild steel using standard low hydrogen consumables. For welding the hardfacing side to structural steels we recommend using AI-1707 stainless wire, or AI-207 electrodes.
- AbrasaPlate-X can be rolled or pressed. Diameters depend on thickness of plate.
- AbrasaPlate-X can be cut using plasma (from the back side), water jet or laser.



AP-X provides greater impact resistance than standard chrome carbide overlay plate.

### Disclaimer

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