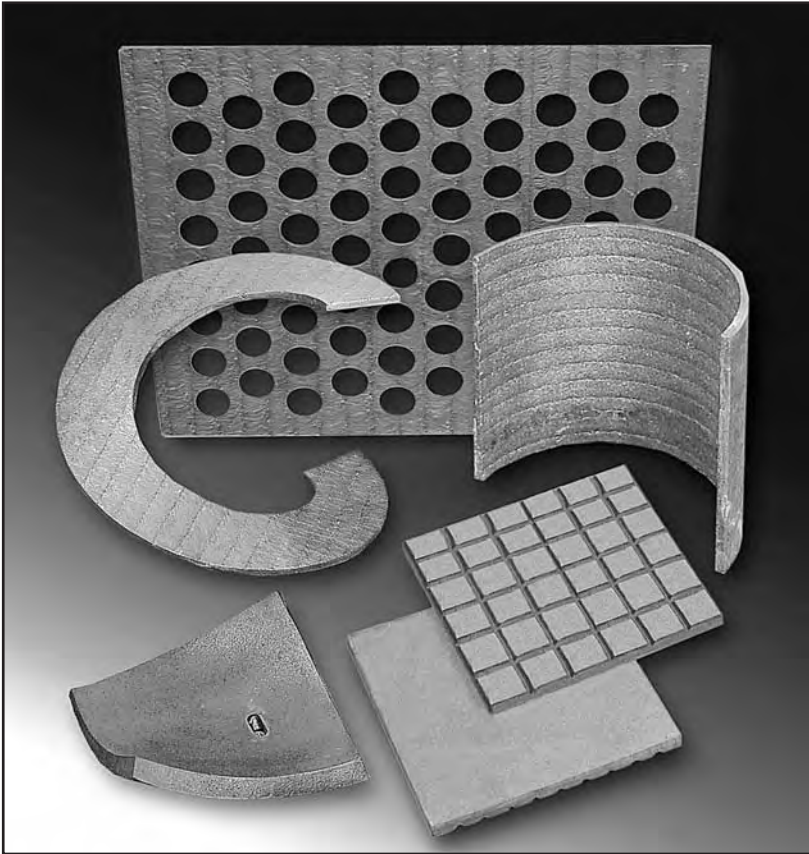


# KALMETALL® W Hard Overlay Welded Steel

**Cost-Effective Protection  
for Abrasive Applications**



KALMETALL® W is a combination of a strong steel base and a hard overlay welded chromium carbide protective layer that resists abrasion, impact and high temperatures. The base consists of standard carbon steel or alloy plates designed to suit your specific application. The protective layer is composed of a C-Cr-Fe system with primary chromium carbides and is an integral part of the structure.

- Installs into existing steel structures.
- Design as a cost-effective, low weight, self supporting structure.
- Hard-facing available in a variety of different qualities, thicknesses and dimensions.
- Standard base material is A-36 carbon steel for operating temperatures up to 350° C.
- Standard base thickness is 3/16" or 1/4". Others available.
- Standard hard-faced metal plates range from 48" x 96" to 60" x 120".
- Wide selection of fastening systems.
- Customized components.

**KALMETALL® W**

Hard overlay welded steel

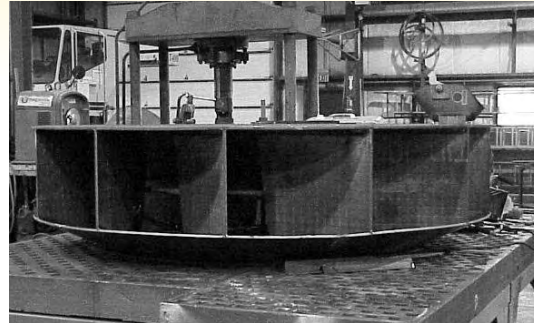
# KALMETALL® W Hard Overlay Welded Steel

**Protect Equipment from Abrasion and Impact with a Variety of Material Options**

KALMETALL W pre-engineered linings are matched to each application.

**Our services include:**

- On-site engineering
- Complete steel fabrications
- Variety of attachment methods
- Installation assistance or supervision



KALMETALL W Properties					
Base	Thickness		US	Weight	
		Hardface			Metric
3/16" (4.8 mm)	3/16"	(4.8 mm)	14.5 lbs/ft <sup>2</sup>	71	kgs/m <sup>2</sup>
1/4" (6.3 mm)	1/4"	(6.3 mm)	19.5 lbs/ft <sup>2</sup>	95	kgs/m <sup>2</sup>
3/8" (9.5 mm)	1/4"	(6.3 mm)	24 lbs/ft <sup>2</sup>	114	kgs/m <sup>2</sup>
Standard Plate Sizes		Small	48" x 96"	1219 x 2438 mm	
		Large	60" x 120"	1524 x 3048 mm	
Base Material			ASTM A-36, others available		
Hardness			Rockwell 54-56		
Maximum Service Temperature w/A-36 Base			662°F	350°C	
<small>Technical Data is the result of tests performed on selected samples, and some variations are to be expected. Abresist Corporation does not represent, warrant or guarantee the accuracy, completeness or reliability of same. Due to the production process, variations in the product may be expected. These include, but are not limited to dimensional tolerances, surface finish, voids, and porosity. Fractures in the hard overlay are normal and indicate good quality.</small>					

**Typical applications:**

- Concrete mixer lining
- Bunker lining
- Mill lining
- Chutes
- Dust pipes, ash pipes, etc.
- Separator lining
- Screens
- Fan linings and fan blades
- Cyclone lining

**Fastening systems:**

- Plug welding
- Rear welding to the basic body
- Rear welding to a nut with internal thread
- Screw-type fastening by stud welding
- Screw-type fastening by counter sunk rings
- Suspended systems



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