



Allied Welding Systems

Superior Quality. Superior Value. Superior Services.

ALLIED 300XL



***Leading Provider of Engineered Wear
Solutions Tailored to Meet Your Unique
Mining and Industrial Needs.***

800-782-3134

www.AlliedWeldingSystems.com

Cladded Wear Plate

Since man created his first working tool he has been continually waging a war against wear. The wearing away and maintenance of materials is costly, time consuming and curtails productivity.

In an effort to help with this situation, **Allied Welding systems** introduces **Allied 300 XL Wear Plate**. It is a composite plate consisting of a low carbon steel base plate with an alloyed wear resistant cladding. **Allied 300 XL** process produces a welded plate which will take more abrasion, is harder and tougher than standard.

Even though 300 XL has a hardness of 68RC, it is not difficult to work with. The low carbon steel base allows the plate to be bolted, welded, stud-welded and moderately cold formed.

The composite wear plate represents a major innovation in applications with severe abrasion and moderate impact. Its success to date ensures its future in the market place.

MECHANICAL PROPERTIES

Base Plate: ASTM A36

Cladding: Austenitic Steel with a High Chromium Carbide concentration.

CUTTING

Plasma Arc Cutting recommended

MACHINING

Cannot be machined

GRINDING

With hard grit soft Bond Wheel

GOUGING

With Arcair Carbon Arc

FORMING

Moderate forming with Proper Procedure



Standard Thickness

Nominal	1 - Pass Base Metal	Cladding
Thickness	Thickness	Thickness
3/8"	3/16"	3/16"
1/2"	1/4"	1/4"
5/8"	3/8"	1/4"
3/4"	1/2"	1/4"
1"	3/4"	1/4"

2 - Pass		
1/2"	1/4"	1/4"
3/4"	3/8"	3/8"
1"	5/8"	3/8"

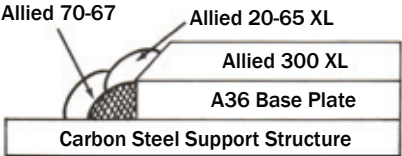
** Thickness generally exceed the normal size.*



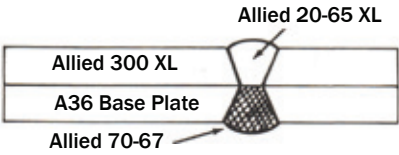
Welding

**Allied 300 XL can be welded easily as shown,
with Allied 20-35 XL and Allied 70-67**

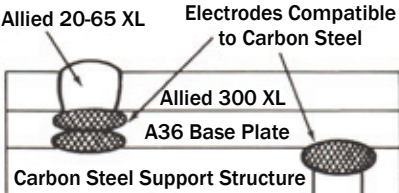
Fillet Weld



Butt Weld



Plug Weld



Fabrication Service Available

Mining Applications

Breaker Bars
Classifier Screen Decks
Conveyor Liners and Skirting
Crusher Apron Feeder
Crusher Spider and Spider Liners
Dozer Blade Liners
Dust Collector Fans
Fan Blades and Fan Liners
Feed Chute Liners
Hopper Liners
Launder Chute Liners
Rock Box Liners and Deflector Bars
Scrapers
Screen Wear Bars
Shovel Bucket Wear Plates and Strips
Transfer Point Wear Plates
Truck Box Wear Strips
Trunnion Liners
Vibrating Screen Decks and Pans



Glass Plants

Fan Blades & Liners
Flap Valves
Side Chutes
Feed Screw Flights
Buckets
Elbows \Hopper Liners\Cyclones
Targer Plates
Mixer Wall Liners
Scraper Blades



Steel Mills



1. Material Handling

- ▶ **Uploading** - Dumper Chutes & Liners | Conveyor Skirting
Claims & Buckets | Transfer Points
- ▶ **Reclaiming** - Bucket Wheel | Clam | Shovel | Dozer Blades
- ▶ **Piping** - Slurry Piping

2. Scrap Handling - Bailing Machine Liners | Scrap Charger Liners

3. Rotary Lime Kilns -Support Rollers | Lifter BBars | Transfer Chutes

4. Coke Ovens -Charging Bin Liners | Push Ram & Shoes | Skirt Plates

Pusher Guides | Floor | Crash Deck | Quench Car & Doors

5. Blast Furnace - Raw Material Bin Liners | Skip Car Liners |

Exhaust Valves (Top of Furnace) | Cyclones | Small & Large Bell protection Plates

Receiving Hopper Liners | Upper Furnace Wall (Target Area)

Basic Oxygen Furnace - Hood Liners | Feed Pipe (Flux Charge) | Slag Handling

Electric Furnace - Electrode Holders | Electrode Seal | Charging Box Liners

Ladle Car Desulphurization - Hoods | Lance

6. Fans - Liner Plates | Shroud | Cyclone Liners

Dust Collection Fly Ash

7. Concast - Guides | Rollers **Ingot Handling** - Forks

Rolling Mills - Guides | Table Rolls

8. Sinter - Feeder Trays | Screen Decks | Feed Rolls

Fan Castings and Blades | Windbox Liners



Paper, Pulp and Power Plant



Paper/Pulp

- Flume Liners - Jack Ladder - Liners - Drums - Chain Fights - Gates & Diverters
- Chip Storage Turn Tables
- Grit Buckets & Pads
- Sprockets
- Hammermill & Hop Parts - Hammers - Grate & Cutter Bars - Anvil - Breaker Bars - Liner Plates
- Chipper Hoods & Access Doors
- Flatbacks
- Pipe Turns (6" dia)
- Chip Feeders
- ID Fan Blades
- Cyclones & Wear Bands
- Chip Deflectors
- **Transitions**
- **Belt Scrapers**
- Chain Guides
- Paddles
- Tampers
- Trunnions



Power Plant

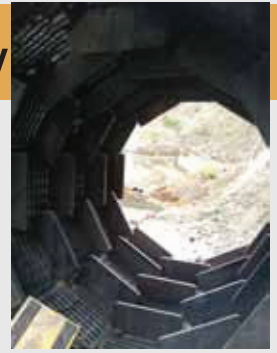
- Coal Classifier Cones
- Fan Blades & Liners
- Distributor Wear Plates
- Flap Valves- Side Chutes
- Cinder Re-entry
- **Stoer Wear Pads**
- **Feed Screw Flights**
- **Elbow, Straight & Curved**



Dredging, Cement & Refinery

Dredging

- Bucket Wheel Excavator Wear Parts
- Discharge Pipes
- Impeller Sections
- Trunnion Elbows
- Troughs
- Sluice Ways
- Swivels
- Pump Shells
- Reducers
- Suction Lines
- Flap Valves & Elbows
- Rock Box Liners
- Receiving Hoppers
- Transitions
- Tripper Plates



Cement

- Distributing Hub Devectors
- Clinker Chutes
- Return Air and ID Fan Blades
- Pipe & Duct Sections
- Cyclones & Wear Bands
- Vibrating Decks
- Impact Crusher Liners
- Baffle Plates - Clinker Dust
- Ring Segments
- Crusher Bowl & Mantle
- Hopper Liners



Refinery

- Catalyst Pipe & Feed Nozzles
- Elbows & Reducer Pipes
- Inlet & exhaust Cones
- Lifting Bells
- Spiders
- Wear Plate Patches
- Leg Assembliee
- Target Plates



Allied Welding Systems was founded in 1984 and offers a wide range of proprietary materials to meet your industrial and mining requirements. Allied Welding Systems is one of the most experienced and respected suppliers of engineered wear solutions in North America. Our fabricating facilities are unsurpassed in the industry and can provide the most advanced material fabricating and machining to significantly improve our client's overall cost of ownership. Our range of products includes Chrome Carbide Overlay Plates, Custom Alloy Overlay Plates, Hard Surfaced Pipe - 2" Diameter - 30" Diameter, Custom Ceramics, and a wide range of Hard Surface and Specialty Alloys in both Electrodes and Wires.



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