


Born from fire,  
made to endure

A-CLAD



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ACRONI is the largest Slovenian steel manufacturer, which produces steel by recycling scrap in an electric arc furnace, casting it on a continuous caster and rolling it into quality flat rolled steel products.

Our consistent quality is guaranteed by constant development and improvement in processes and materials, along with the introduction of a quality assurance system in accordance with ISO 9001, environmental management systems in accordance with ISO 14001, and occupational health and safety management systems in accordance with OHSAS 18001.

The company is among the most important global suppliers of heavy plates. Besides stainless steel, Acroni also produces wear resistant, high tensile, structural, pressure vessel and tool steel plates, and coils in electrical, special and ferritic grades. New products are being constantly developed to meet the changing requirements of the market.

Our experts are always prepared to offer our customers their assistance so that the excellent properties of our steels may be exploited to their full advantage and the satisfaction of the customer.

Acroni is a member of SIJ – SLOVENIAN STEEL GROUP.



## A – CLAD

### CLAD PLATES

Clad or compound plate is a composite steel plate, produced by bonding two plates of different material grade. The thicker part of clad plate is called »Base metal«, which is usually carbon steel plate. The thinner layer is »Cladding«, which can be stainless steel, Nickel alloy, wear resistant or tool steel. Both plates are metallurgically bonded, therefore clad plate behaves like a single plate.

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### The advantages of using clad plates are numerous:

- Such plate has optimal properties on both sides of the plate. It combines advantages of both material grades.
- Less weight and more strength.
- Costs benefits.

Clad plates can be used in a variety of industries and applications. They are used in construction, for pipelines in oil & gas industry and other piping, in earth moving and mining industry, in mechanical engineering for parts with extreme abrasion resistance properties, for pressure vessels, for ballistic protection.

All our plates are produced exclusively in our own steel mill plant, therefore we can ensure stable characteristics of our products and we can offer shorter delivery terms.





## Base metal grades

For base material you can chose any pressure vessel steel, pipeline grades (by API 5L) or other construction steels.

## Standard cladding material grades

Acroni brand name	Designation	W.Nr.	Standard	C	Si	Mn	P	S	Cr	Mo	Ni	N
Acroni 4404	316L	1.4404	EN 10088-2 ASTM A 240	max. 0,03	max. 0,75	max. 2,0	max. 0,040	max. 0,0020	16,5 18,5	2,0 2,5	10,0 13,0	max. 0,10
ACRONI T83	X40Cr14	1.2083	EN ISO 4957	0,36 0,42	max 1,00	max 1,00	max 0,030	max 0,030	12,50 14,50			
	C75E	1.1248	/	0,7 0,8	0,15 0,35	0,60 0,90	max 0,025	max 0,025	max 0,4	max 0,1	max 0,4	

Nickel alloy or other cladding requirements upon request.



## Dimensions

### STAINLESS STEEL

- Cladding material thickness: 3,2 mm
- Base material thickness: 12 to 40 mm
- Width: max. 1500 mm

### WEAR RESISTANT

- Cladding material thickness: 10 mm
- Base material thickness: 20 to 40 mm
- Width: max. 1500 mm

## Delivery Condition:

### STAINLESS STEEL

- Heat treated, ground on stainless steel part, sandblasted on structural part.

### WEAR RESISTANT

- Soft annealed, sandblasted

Please contact us for any specific requirements regarding grades, dimensions and delivery conditions and regarding additional information.

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Acroni, d. o. o.  
Cesta Borisa Kidriča 44  
SI-4270 Jesenice  
T:+386 4 584 10 00  
F:+386 4 584 11 11  
E:info@acroni.si  
www.acroni.si