

Steel and iron industry – cement works - mining – sand and gravel conveying – coal-fired power plants - foundries – sugar factories - refineries – ready-mix concrete - agriculture

Wear protection with A.S.S. compound plates



Quarrying, producing and processing of minerals.



Manufacturing, processing and recycling asphalt and concrete.



Hard facing, regenerating and repair services.



A.S.S. compound plates are two-layer-plates. A hard layer with an extremely high proportion of carbide is applied to a basic plate (i.e. St.37). Depending on the type of alloy, these carbides are formed using chrome, tungsten, niobium, vanadium or boride.

Our standard type (ASS 550) is composed similar to chrome mould casting known for its very good wear characteristics. It contains a considerably higher amount of primary carbide and thus is even more wear resistant.

For even higher demands, alloys are combined with further additives.

Small flaws in the hard layer are typical for these plates. These rips are necessary (stress relief) and do not affect the basic material.

Our processing procedure is fully automatic and thus guarantees constant quality of the hard layer. (lowest possible blending with the basic material.)

The range of A.S.S. compound plates offers excellent protection against abrasion, erosion, shock and percussion.

Depending on the type of alloy, also available in combination with high temperatures.

The basic material can also be customised according to the requirements of the individual area of application.



Standard measurements [mm]:

Plate format [mm]	1000 x 2000	1250 x 2500	1500 x 3000
usable area [mm]	850 x 1850 1,57 m ²	1100 x 2300 2,53 m ²	1300 x 2800 3,64 m ²

Customised sizes on demand

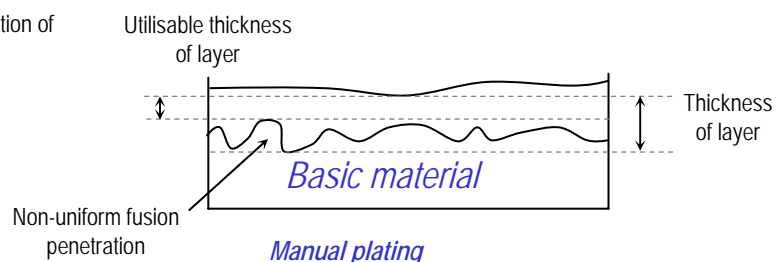
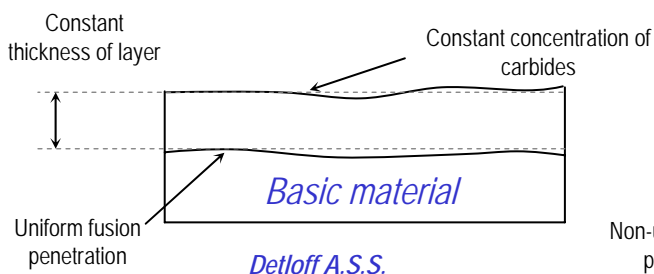
Alloys:

	A.S.S. 500	A.S.S. 550	A.S.S. 555	A.S.S. 600	A.S.S. 650	A.S.S. 700
	Chrome carbide and specified carbides					Wolfram carbides
Hardness HRC	55-58	58-60	60-62	61-63	62-64	63-66
T° max	300°C	300°C	400°C	400°C	750°C	800°C
Main areas of application	Best value for price	Abrasion Shock	Abrasion Erosion	Erosion	Erosion Shock Temperature	Erosion

Standard thickness [mm]:

5 + 3	8 + 5	10 + 5	15 + 5
6 + 4	8 + 8	10 + 10	15 + 10

Homogeneous hard layer:

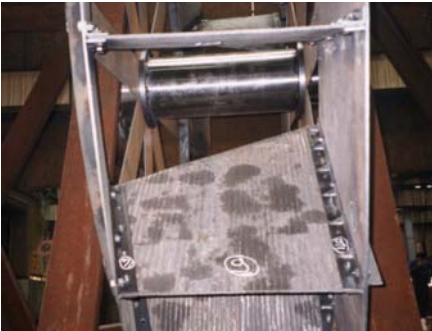


Advantages at a glance:

Profitability: Purchase prices alone do not designate the profitability of a compound plate.

A.S.S. compound plates offer optimal protection against wear and erosion.

The basic material is very weldable and facilitates simple fixation.



Ventilator: detail



Ventilator: blade wheel

The application of **A.S.S. compound plates** ensures a considerably higher tool life as compared to other materials used for wear protection, such as sheet steel, casts or synthetic materials. Further improvement of profitability is guaranteed by saving time on

mounting and dismantling.

Factory certification with each delivery!

Production options:



Screen

Cutting : Excellent cuts are achieved by plasma cutting. Jet cutting produces even more precise outlines, small holes and penetration.

Warping:

Canting, rolling (warm or cold)



Clinker tubes



Sinkhole ring

Mounting:

- > With steel-plated counter-sunk screws and fitting sinkhole rings welded into the compound plate
- > With welded screw bolt at the back
- > By welding or other mechanical mounting

Development and construction from the same source!

Development and research:

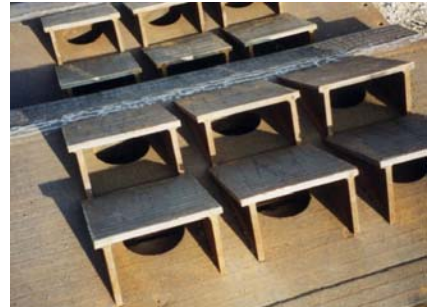
We constantly inspect and improve construction under the aspects of wear.

Our expert knowledge of wear-resistant materials quickly leads to the best possible solution for you.



Wear in the ventilator

We react speedily



Cells of a sinter cooler

We analyse the worn component and find the optimal solution.

Applications :

Our products have stood the test in many industry sectors and the most diverse applications. Wherever materials prone to wear are conveyed, moved, reduced to small pieces, separated, consolidated, dried or processed in any other way :

Examples of use:

- Separators
- Ventilators
- Crushers / mills
- Dehumidifiers
- Sifters
- Mixers
- Pumps
- Conveying pipelines
- Extruders

Delivery ex stock

Analysis using draft



Machined A.S.S.parts

Further materials from our house:

- **Plates** with a hardness of 250-400-500 HB
- **DE** wear-resistant casts
- **DE** heat-resistant casts
- **CC surfaces** carbide coated surfaces
- **EPO-SiC** polymer-ceramics (usable for priming)
- **EPO-CER** polymer-ceramics casts
- **PUR, PE** synthetic materials
- **Arc-Metall** spray coatings
- **Sinter ceramics**
- **Hard metals** (Tungsten carbide)



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