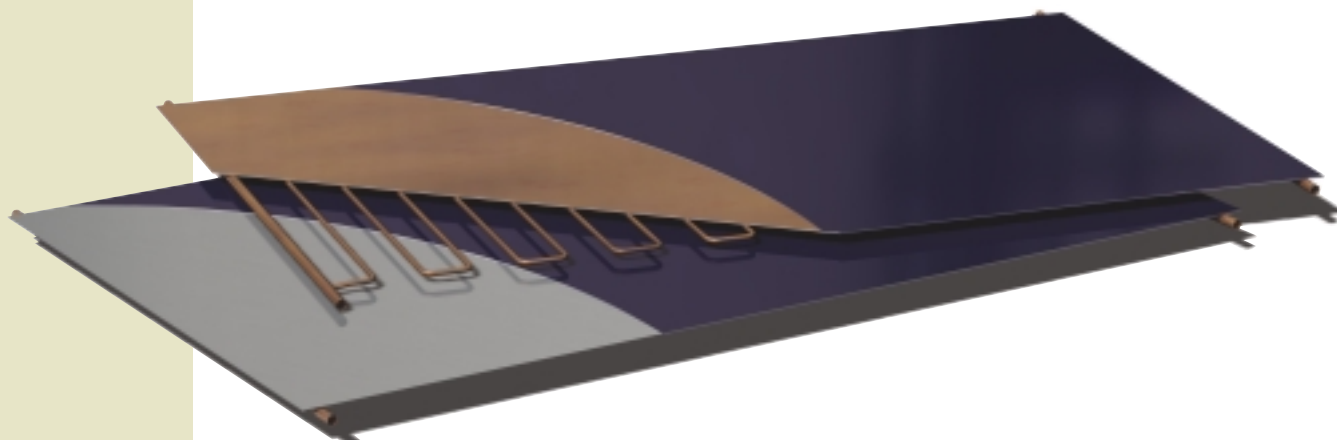


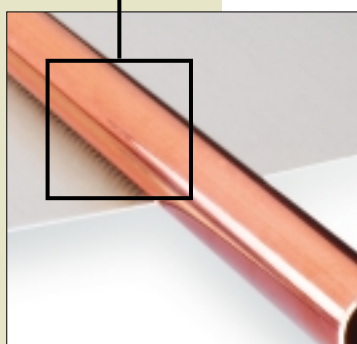
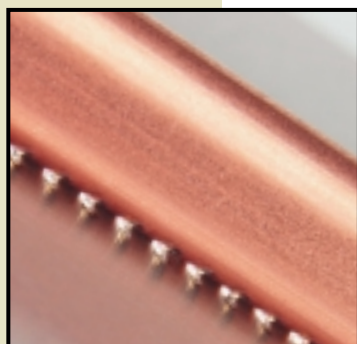
# Sunstrip Lazerplate

## Full-plate absorber for solar collectors



Sunstrip's Lazerplate is engineered using laser technology. This produces a perfectly homogenous colour tone and flat surface that complies with the stringent aesthetic demands. At the same time the new joining technique provides superior performance and more possibilities to vary the design to meet the customers' requirements.

More than 20 year's partnership with the solar collector industry has made Sunstrip's products the most extensively used on the market. With the launching of Lazerplate, Sunstrip has now become a complete supplier of strips and absorber materials – a supplier with a large manufacturing capacity.



### Design-, material- and environmental advantages using laser welding

Our new method of laser welding the pipe to the plate gives several advantages. The selective surface is not affected at all because the join is made on the underside. Laser welding is done at low temperatures, which reduces the tension of material between plate and pipe. The absorber's upper surface remains intact and free from marks.

Laser welding also enables you to choose different materials for the absorber plate. With Sunstrip's laser method the absorber plate can be made of copper as well as aluminium. The choice of absorber plate makes no difference to the design advantages.

This is a very clean production method. The joining is done without the use of filler materials or paste, which means there are no emissions of environmentally hazardous substances.

### High performance and greater adaptability

Sunstrip Lazerplate is an absorber with superior flange efficiency (F'). This is achieved, amongst other things, by the joining technique, which provides excellent thermal contact between pipe and flange.

Sunstrip Lazerplate allows greater adaptability to meet customer requirements – in the choice of plate materials as well as the selective surface. Laser welding provides optimal thermal contact no matter which plate material is chosen.

Sunstrip Lazerplate can be built with both serial and parallel flow and in customized lengths of 1,000 – 3,000 mm and widths of between 500 and 1,400 mm. We can also adapt the C/C distance and angle for the drain back system on the absorber pipes (C/C 70 – 140 mm).



# Areas of application for Sunstrip's Lazerplate

- flat solar collectors up to 4 m<sup>2</sup>
- serial absorbers
- parallel absorbers

## Technical facts

Width:	500 – 1.400 mm
Length:	1.000 – 3.000 mm
Pipe dimensions:	8-12 mm (outer dimensions)

Parameter		Aluminium/Copper*	Copper/Copper**
Flange efficiency	20 L/min	0,938	Under evaluation
Flange efficiency	60 L/min	0,975	Under evaluation
Emissions values/ratios		5% ±2%	5% ±2%
Absorption value		94% ±2%	95% ±2%
Surface tested to IEATask X		OK	OK

**Dimensions:** \*Aluminium 0.5 mm thickness, copper pipe 10x0.5 mm, pipe distance 90 mm

\*\*Copper 0.2 mm thickness, copper pipe 10x0.5 mm, pipe distance 90 mm

## Quality Tests

- Shock test in accordance with CEN Standard EN 12975-2 (Al/Cu)
- Galvanic corrosion test carried out by SP and the Swedish Institute for The Swedish Corrosion Institute (Al/Cu)
- Every absorber is density tested with 8-12 bar according to the wishes of the customers

## Other products from Sunstrip

- **Sunstrip strips** with high overall efficiency.
- **Sunstrip lightweight absorbers.** Can be customised with both serial and parallel flow, system-ready and pressure-tested.

## In black and white

We are certified to ISO for quality and environmental management and received the Austrian "Umweltzeichen" ecology award in 1995.



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