



Shieldarceo®

Arceo

Properties

Plasma vacuum coated Alusi

- High Infra-red reflectivity
- Good corrosion resistance and durability
- Great mechanical properties even at high temperature
- Good formability

Applications

Shieldarceo can be used wherever the need for high reflectivity, combined with good mechanical properties and durability at high temperature, are needed.

Some examples of applications :

- automotive heat shields
- bulbshields
- heating device reflectors
- oven heat reflectors

Description

Composition

Front: AluSi 120 + PVD reflective layer
Back: AluSi 120 with or without PVD layer

Steel thickness

0.4 – 0.5 mm
(other on demand)

Steel grades

DX51D to DX56D

Temporary protection (optional)

Self-adhesive film

Performance

Total infrared reflectivity

93% (2.5-14.5μ range)

Total reflectivity in the visible range

82%

Energetic efficiency at 400°C

92% (one week, 2.5 to 10μ range)

Energetic efficiency after Salt spray test

92% (150h, no change)

Spot Welding

as weldable as AluSi

Formability

as formable as AluSi.
Energetic efficiency maintained at high deformation

Food contact

Suitable acc. To CE 1935/2004

Compatibility with evanescent oil

Very good

Resistance to detergent

Very Good

Remarks

These performance characteristics refer specifically to AluSi 120
If any product (film, oil, foam, glue, paint etc) is applied after coil delivery, compatibility with the coating has to be checked.