

Refrex® 1430 Heatshield for the Steel Industry

The Problem

A leading, innovative manufacturer of steel, located in IJmuiden, the Netherlands, faced the following problem.

During the installation/removal of a big valve (25tons / 2.500mm o.d.) in a hot air duct (1.250°C), the radiation heat from inside the hot air duct is extremely. The maintenance people have to work with all kind of heat resistance protective garment, which reduce their movements and increase the duration of the job. Extra safety precautions are required.

Application (part A.)

Now our customer was looking for a flexible, lightweight heatshield, to reduce the radiation heat from inside the hot air duct, and to protect the maintenance people during the job.

The following design requirements were specified:

- Radiation temperature: max.1.250°C
- As low as possible "coldface" temperature
- Lightweight
- Easy to install

We start to design a heatshield, made out of Refrex® fabric at the outside. As insulation we use several layers of insulating paper.

This heatshields was all around fixed to a steel frame, with some supporting hooks, to be connected onto the steel flange of the hot air duct.



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Effective: 01052006/AE/es
Supersedes: SS.None
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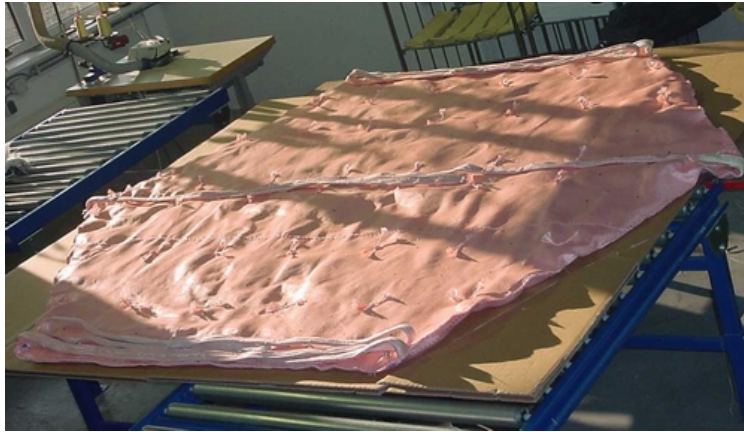
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Application (part B.)

After the first usage, the customer asked us to improve the heatshield, without using a steel frame, and to provide the heatshields with heavy straps, to lift up the heatshield.

Further the heatshields must be foldable, for easy storage till the next job.



Summary of advantages

- Flexible
- Custom made for diameter
- Lightweight
- Easy to install / remove (just drop)
- No maintenance
- Reduce maintenance time
- High reduction of radiation heat

For more information, please contact:

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