

# BELZONA PLATE BONDING SOLUTION SEALS STEEL PLANT GAS LEAKS

ID: 6012

**Industry:** Steel & Metal Processing  
**Application:** VPF-Valves, Pipes and Fittings  
**Substrate:** Mild Steel  
**Products:** \* Belzona 1251 (HA-Metal) ,  
\* Belzona 5851 (HA-Barrier) ,

**Customer Location:** Steel Plant, Sweden  
**Application Date:** October 2015

## Problem

*Due to the financial situation, a closure of the plant for weld repairs was not possible. Environmental Authorities demanded that the gas leaks were reduced within a tight time frame so they turned to Belzona for a solution. There were 9 out of 53 furnaces on site that needed repairing as a priority. Repairs had to be carried out with furnaces in operation, thus requiring application onto hot surfaces.*



## Photograph Descriptions

- \* View of steel plant furnaces with corrosion problems ,
- \* Heavily corroded base underneath the debris ,
- \* Applying Belzona 1251 to prepared area ,
- \* Completed application after coating with Belzona 5851 ,

## Application Situation

Significant number of gas leaks around the coke ovens threatened fines and closure of the plant from the environmental authorities.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet VPF-11. After cleaning and grit blasting the leaking areas, custom designed plates were bonded into place with Belzona 1251, Belzona 5851 was then coated over the top for further protection.

## Belzona Facts

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
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Welded plates were not possible due to hot work restrictions in this area of the plant. The Belzona solution offered a fast/safe solution that was carried out without the need to shut the plant down.

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|----------------|---------------------------|
| ISO 9001:2015  | Belzona products are      |
| FS 695214      | manufactured under an ISO |
| ISO 14001:2015 | 9000 Registered Quality   |
| EMS 695213     | Management System.        |

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