

# Belzona Cold Plate Bonding Reinforces Offshore Weather Deck

ID: 8046

Industry: Oil & Gas  
Application: GSS-Gaskets, Seals and Shims  
Substrate: Carbon Steel  
Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 5811 (Immersion Grade) ,

Customer Location: North Sea - Norway  
Application Date: March 2019

## Problem

Several areas on this deck was found to have thickness below the minimal allowable thickness. Some areas had through wall holes which caused leakages in to insulated storage areas below.



## Photograph Descriptions

- \* 1. Positioning of Deck Plates. ,
- \* 2. Sealing of deck repair plates with Belzona 1111 (Super Metal) ,
- \* 3. Injecting Belzona 5811 (Immersion Grade) between repair plate and deck. ,
- \* 4. Completed application. ,

## Application Situation

Heavily corroded offshore weatherdeck approx. 50sqm with up to 100% metal loss.

## Application Method

The application was carried out in accordance with a Belzona system Leaflet GSS-9 Creating Irregular Shims. All through wall holes on the deck were repaired and sealed with Belzona 1111 (Super Metal) Following gritblasting of manufactured steel plates (various sizes from 1x1metres to 1.6x1.6 metres) and weatherdeck, the plates were positioned and leveled using jacking bolts. The edges of the plates were sealed using Belzona 1111 (Super Metal). Belzona 5811 (Immersion Grade) was injected by single component airless spray into the crevice between the existing deck and reinforcement plate.

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  
Management System.

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## Belzona Facts

Belzona was chosen because it was evaluated as safer and more cost effective than conventional deck cutting and plate welding alternatives. Additionally, the Belzona solution is stronger than welding and eliminates the void where corrosion continues. 80kg of Belzona 1111 and 700 litres of Belzona 5811 was used to complete this application in 2 weeks.

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