

# BELZONA BONDS RISER BEARINGS ON OFFSHORE PLATFORM

ID: 5539

**Industry:** Oil & Gas  
**Application:** GSS-Gaskets, Seals and Shims  
**Substrate:** Carbon Steel and Super Duplex Stainless Steel  
**Products:** \* Belzona 1111 (Super Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

**Customer Location:** Rig Fabricator, South Korea  
**Application Date:** 2014

## Problem

When stationed, Risers move inside the housings, creating abrasion and exacerbating corrosion. The decision was made to protect these areas with composite bearings. As the Bearings reached 2.5m diameter and 3m length they were split into (up to 16) sections and had to be bonded in place. A total of 84 risers and housings were completed on the hullside and 27 on the topside.



## Photograph Descriptions

- \* Fitting Bearing to Housing ,
- \* Fitting Bearing to Riser ,
- \* Injecting Belzona 1321 ,
- \* Riser inserted into Housing ,

## Application Situation

Risers and Riser housings needed protection on a new build Central Processing Facility.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet GSS-9. The Bearings were aligned in place using jigs, straps and injection port bolts. The Bearing had to be jacked to 4mm from the substrate. The seams were then dammed

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FS 695214  
ISO 14001:2015  
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using Belzona 1111. Belzona 1321 was injected through the injection ports. After curing the injection ports were cut off, filled with Belzona 1111, and ground flush.

## Belzona Facts

The Central Processing Facility required the highest performance product available as they had a design life of 40 years. Belzona was able to offer the products and technical support to design and support the installation of the liners.

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