

# LED Light Fixture Bonding with Belzona onto a Hospital Roof

ID: 8591

Industry: Buildings & Structures

Customer Location: Houston

Application:

Application Date: 2020-2021

Substrate: Steel Coping and Concrete Pillars

Products: \* Belzona 4911 (Magma TX-conditioner) ,  
\* Belzona 1161 (Super UW-Metal) ,

## Problem

The client did not want to drill into the coping or concrete pillars. Drilling into the metal coping could lead to leaks while drilling into the concrete would be time consuming and labor intensive.



## Photograph Descriptions

- \* 1. Close up of concrete bonding location ,
- \* 2. Overall Picture ,
- \* 3. Application onto metal coping. ,
- \* 4. View of fixture system ,

## Application Situation

A hospital in Houston needed to install lighting on the roof for better aesthetics and functionality.

## Application Method

Aluminum angle brackets were to be bonded to the substrate in order to bolt on LED fixtures. The bottom of the brackets together with the substrate were prepared with a grinder to create a rough and clean profile. Belzona 4911 primer was used in all concrete locations. Belzona 1161 was applied to both the bracket bottom and substrate at about 1/16" inch thick. The bracket was then firmly pressed down to the substrate and exuded material was used to chamfer around the edges. Once in place, holes were drilled into the brackets and the LED fixtures were installed.

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

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## Belzona Facts

Over 500 brackets were installed via plate bonding. The plates were bonded along the entire perimeter of the roof.

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