

Project Case Study

Project title: Swimming Pool Roof Replacement, East Midlands Leisure Centre June to July 2009

Customer: Ward Roofing

EJOT product: Corrosion Resistant Fastener



When streaks of rust began appearing on the inside of a leisure centre roof, local council officials wasted no time in identifying the source of the problem.

The leisure centre, situated in the East Midlands, was originally opened in 1991 and is a very typical example of the community sports and leisure facilities built in the last few decades. The structure's energy roof was of a lesser known Scandinavian design, fastened by stainless steel fixings which presented the only real option at the time of construction.



Close inspection of the fasteners soon revealed that 18 years of exposure to the dense chlorine atmosphere had taken its toll and an estimated 75 percent of the fasteners directly over the swimming pool had either sheared or had become ineffective.

Swift action followed

The council's Maintenance Director explained:

"It was very obvious that the corrosion damage was focused above the water itself, so our priority was to ensure that the fixings to the periphery of the structure were sound and that the public were in no immediate danger.

"I had recently been involved with a new-build leisure project nearby, where corrosion-resistant fasteners had been specified for the roof fixing. I contacted EJOT UK, the originator of this particular product, and consulted their technical team. Immediate steps

were taken and temporary fixings were used to safeguard against the worse case scenario of extreme wind conditions.



Satisfied there was no danger at all to the public and the surrounding properties, we set about planning the roof replacement programme."



Six week roof replacement plan

Contractors Ward Roofing were appointed and a six week schedule was drawn up in order to minimise any inconvenience to the public. One proviso of the specification was that the corrosion resistant EJOT fastener was deployed. Andy Turnbull, Contracts Director for Wards explained:

“The Rigidal roof system was the natural choice for the project. We began stripping the old sheeting from the roof on June 2nd and fortunately the weather through that month was fine which helped us complete the installation ahead of schedule on July 8th.

“The completion of the project in such good time was particularly pleasing as it included the additional replacement of the original glazed atrium roof, with a modern GRP curved rooflight. As well as providing resistance to corrosion, the EJOT fastener is ideal for contractors with a deadline to meet, as it not only provides a self tapping fast installation option, but brings a

peace of mind 25 year warranty to the table.”

Gary Robson was EJOT's technical support contact for the supply to Wards and he explained the innovation behind the fastener.

“EJOT's ethos worldwide is to be proactive solution providers. The corrosion-resistant fastener is totally unique and was developed for exactly these type of projects, where humidity and hazardous substances mix to create an atmosphere with a high risk of corrosion.

The fastener has been used throughout Europe with great purpose, for applications as diverse as tunnel construction as well as leisure and swimming pool facilities.”



Further information about our research into minimising corrosion risk, or to get further information relating to fastener specification please contact

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