

# CASE STUDY

## School Roof Refurbishment

# MAKERS

...makes the difference

### PROJECT

Highfurlong Special School

### STRUCTURE

School Roof

### CLIENT

Blackpool Council

### CONTRACT



Highfurlong School is a state of the art, purpose-built school located in the North of Blackpool, Pupils come from Blackpool, Wyre and Fylde and in some cases further afield to access the special education provision that is on offer. Construction commenced on site in April 2014, to create 2 schools, Blackpool Aspire Academy and Highfurlong special School.

Carillion, the main contractor on this project selected a single ply waterproofing layer as the roof finish. Although finished in 2015 the special school wouldn't sign off the building due to the roof leaking in numerous places. Carillion along with their selected roofing contractor failed to make the roof water tight, these issues carried on for a further 3 years until the collapse of Carillion happened which also took the roofing contractor down with them. The leaks had got so bad that the councils only option was to completely replace the waterproofing layer of the roof.

With the work planned to run into term time we selected Triflex's fully re-inforced Protect cold applied liquid system, using the existing single ply as the substrate we could simply overlay the failed roof, causing no disruption to the school below.

The metal capping's to the external perimeter were a cause of concern, butted together and sealed with a silicone bead, over time this bead perished and could be exacerbating the water ingress issues. All the joints were cleaned, primed, banded and sealed using Triflex's ProDetail system. A large central valley gutter was given special attention as this was one of the major areas of leaking. 100's of single ply joints were leaking into the sensory room below. This room was full of expensive audio-visual equipment which had to be moved around/covered in heavy downpours.

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Registered in England No: 6348341 Registered Office as above.



Before



Before



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Before



Before



Before

Heavy organic growth was treated with a Bio wash, this is a surface biocide that has been formulated as an effective cleaning treatment of microbial contamination such as moss and algae prior to the application of a liquid coating system.

Once this treatment was completed the entire roof area was jet washed to remove all embedded dirt from the existing single ply roof, great care was taken by the Makers operatives to ensure that the jet washing process did not exacerbate the water ingress issues.

Every morning the operatives would "grid out" the correct areas for the amount of liquid being used to ensure that the correct thickness was achieved. All the detailing was carried out to the required specification and again checked daily by Makers site manager and weekly by the Triflex representative. Makers reinstated the roofs walkways using Skid Inhibiting Grit.

Makers set an ambitious 6 week programme, that included site setup and site break down, not only did Makers achieve this we actually managed to finish within the agreed time scale.

*"The school have had issues with their roof from day 1 and now have a nice dry environment for the Children to enjoy!"*

*From the onset we received a very professional service, work started on time and was completed well within schedule. We found Makers to be very knowledgeable of the product installed.*

*The operatives had to work in freezing conditions at times and although this was carried out during term time there was very little disruption to the school*

***A professional, pro-active and efficient organisation, I have no hesitation in recommending Makers."*** Alison Berry, Berry BSc (Hons), Quantity/Asbestos Surveyor for Blackpool Council



Before



After



After



After



After

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