

Collingwood School, South Woodham Ferrers, Essex

Roofing

Task

Collingwood School is a primary school located in Essex, we were asked to tender for the renewal of the main pitch roof to the whole of the school. As part of this project we were asked to enclose a glazed quadrangle which was unused by the school. This area suffered extremes of temperature in both the summer and winter months, being extremely cold in the winter and unbearably hot in the summer due to the vast amount of glazing.



Solution

A brief specification and preliminary designs were provided by Atkins Ltd who had been appointed by the School to run the project on their behalf, so as to produce a usable space for all the year round.

The pitched roofing works were straight forward and were undertaken as laid down in the specification. To the perimeter of the Quadrangle was a flat felt roof between the Glazed Quadrangle and tiled pitch roof. This was poorly insulated and the felt was breaking down.

Due to the expanse between each supporting wall and working from a structural engineer's drawings, Kerto laminated beams were to be installed so as to alleviate any columns mid span.

The incorporation of a PIR insulated roof with falls using a Three Layer Esha High Performance Elastomeric Roofing System with a Whitesales Em-Vault Polycarbonate Barrel Vaulted Rooflight measuring 4.7m x 2.4m with access provided using a Bilco Roof Access Hatch.

Finishing's to the room were complete with a complete new lighting system along with dado electrical trunking for computers etc. The area is now used as a library and computer room.

Due to the extensive nature of the works undertaken, they were started during the summer holidays and completed during the re-occupation of the school with no interference to the running of the school.

Conclusion

The completion of these works now allows this wasted area to be used throughout the school year and has since led to the redesign on internal walls within the School to allow maximum use of the space provided. Double L Ltd undertook the works to move the internal walls.