



Richard Rose Central Academy - Carlisle

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Contractor

Kier Northern

Main contractor Kier Construction employed Caunton on the new Richard Rose Central Academy contract in Carlisle. This £26 million project comprised of two main wings linked by a large glazed main atrium.

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Architect

Building Design
Partnership

The elegant roof beams were fabricated box girders and tapered in profile. They were very much an architectural feature with top boom channels (380x100PFC) and plated webs (thickness 20mm) connected by countersunk bolts. The web plates was tapered from 1 metres at the centre to 0.6m at the ends. Each beam was fabricated in two pieces and the central splice designed as an architectural feature and again requiring countersunk bolts. There were nine beams in total spanning from 19 to 26 metres. The heaviest weighed nearly ten tonnes.

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Engineer

Building Design
Partnership

The staircases were a striking feature of the atrium, rising to suit the two storeys of the main building and the walkway adds to the experience. The staircase treads were fabricated from 6mm pressed flat and were connected to the RHS stringers. MD60 floor decking was used for both the landings and the bridge. The flight assemblies weigh up to seven tonnes.

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Steel Tonnage

210 tonnes

The overall appearance of the Academy was much enhanced by this design.

