



ASSOCIATION OF CONSULTING
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BRITISH COLUMBIA

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2014 AWARDS FOR ENGINEERING EXCELLENCE

Award of Excellence Jasper Place Library



Consultant

Fast + Epp

Owner

City of Edmonton

Client

Hughes Condon Marler Architects

Category

Buildings

The City of Edmonton recognizes the value of building high-quality civic facilities for its citizens. Hence the architectural response for their newest library called for a striking free-form clear span facility with maximum daylight penetration. The structural design team faced numerous challenges, not the least of which was assuring the Client that the proposed structural concept was both safe and buildable.

The unusual structural design consists of a concrete roof slab that cascades into concrete columns at two sides and is supported by light steel columns at the front and back. The roof relies on the deep wave form to clear span the space, and includes a generous allowance for skylight openings. This design concept is not reliant on additional shear walls or bracing for lateral stability, with the result being a structure that appears to float under maximum daylight penetration.

Close collaboration with the contractor to establish forming and pouring procedures was critical to the success of the project. The impressive cantilevered roof structure over the entry would not have been possible without the inclusion of thermal isolators imported from Germany (new technology in Canada) thereby avoiding the detrimental effects of thermal bridging in the cold Alberta climate. The Client requested a third party review in order to satisfy themselves that the structure was both safe and buildable.

For more information, please contact:

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