

# Project Spotlight

University of Alberta Pedway



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## Lafarge's Agilia® Architectural makes unique design possible.

### Project Details

**Owner:**

University of Alberta

**Location:**

Edmonton, Alberta

**Contractor:**

PCL Construction Inc.

**Engineer:**

RJC Consulting Engineers.

**Innovative Products:**

Agilia® Architectural

**Volume of Innovative**

**Product:**

80m<sup>3</sup>

**Year of Construction:**

2011

#### The Opportunity

Founded in 1908, the University of Alberta is one of Canada's largest research-intensive universities. Spanning 50 city blocks, the University of Alberta's main campus boasts over 90 buildings serving over 30 000 students and faculty. Located just south of the North Saskatchewan River across from Downtown Edmonton, one of the main thoroughfares through the university's main campus is 87<sup>th</sup> Avenue. Due to a high volume of traffic, crossing the avenue can be difficult for pedestrians.

To increase safety for students, faculty, and visitors to the university, the University of Alberta directed Capital Project Funding from the Federal Knowledge Infrastructure Program (KIP) towards the construction of a pedway that would cross 87<sup>th</sup> Avenue and join the Education South building to the Heritage Medical Research Centre building.



The University of Alberta 87<sup>th</sup> Avenue pedway joins the Education South building to the Heritage Medical Research Centre building. The goal of the pedway is to increase safety for students, faculty, and visitors of the university when crossing 87<sup>th</sup> Avenue.

#### The Challenge

RJC Consulting Engineers created a unique and visually appealing asymmetrical design for the 87<sup>th</sup> Avenue pedway concrete supports that featured sharp angles and exterior detailing. However, the shape of the forms would make vibrating conventional concrete impossible. As such, PCL Construction needed a concrete that would not require vibration and still pick up the exterior detailing on the forms.



**“The forms for the university pedway were incredibly unique. It was imperative that we have a product that could provide us with the finish and structural integrity specified in the design. Agilia® Architectural provided just that.”**

**- KELLY WALLACE  
MANAGER, SPECIAL PROJECTS  
PCL CONSTRUCTION MANAGEMENT INC.**

#### **The Lafarge Solution**

Lafarge was able to provide PCL Construction with Agilia® Architectural, a self-consolidating concrete (SCC) engineered to provide contractors with maximum fluidity and stability that would not require vibration in the forms. Using Agilia® Architectural, PCL Construction was able to successfully complete the pedway concrete supports while achieving a smooth, high quality finish.

The unique design of the concrete supports for the university pedway created some construction challenges. PCL Construction Inc. needed a concrete product that would provide the quality they needed without the use of vibration.



**Lafarge Canada Inc.**

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