

Project Spotlight

Hillcrest Perimeter Fence



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Lafarge's Agilia® provides a quality finish.

Project Details

Owner:

Apex Developments

Location:

Airdrie, Alberta

Contractor:

DDS Consulting

Placers and Finishers:

Cast in Stone Fences by DDS Consulting

Innovative Products:

Agilia® Vertical
Chronolia® 4H

Volume of Innovative Products:

Agilia® Vertical: 150m³
Chronolia® 4H: 150m³

Year of Construction:

2010

The Opportunity

The City of Airdrie, located just north of Calgary, is a growing community in southern Alberta. In 2006, the Canadian census reported Airdrie's population at 28 927. In 2010, a municipal census revealed this number to have grown to 39 822. In 2009, to meet increased housing demands, Airdrie's City Council approved the development of the city's newest neighborhood, the hilltop community of Hillcrest. Featuring 6 different forms of housing at various price levels, open green spaces, and interconnected pathways, the community of Hillcrest accommodates 56 single family dwellings and 44 multi-family complexes. A perimeter fence, constructed of pre-cast concrete, encircles the community and adds to its aesthetic appeal.



Using Agilia® Vertical helped Cast in Stone Fences by DDS Consulting achieve the stone texture they wanted in the perimeter fence panels.

The Challenge

Cast in Stone Fences by DDS Consulting was hired by the developer for the Hillcrest neighborhood, Apex Development, to complete the perimeter fence. Having had previous experience with Lafarge's Agilia®, Cast in Stone Fences by DDS Consulting wanted to use Agilia® again for the Hillcrest perimeter fence, but also wanted a means to speed up their construction. Using just Agilia® would only permit the contractor to pour once a day.



“We used Agilia® Vertical because of its SCC properties. It gives us a very good quality texture on our panels and really accentuated the stone look we were going for.”

- DON STUMBORG
OWNER
DDS CONSULTING

“By using Chronolia® 4H we were able to double our production.”

-DON STUMBORG
OWNER
DDS CONSULTING



Using Chronolia® 4H helped Cast in Stone Fences by DDS Consulting accelerate their construction speed.

The Lafarge Solution

To help Cast in Stone Fences by DDS Consulting speed up their construction time, Lafarge developed a way for the contractor to cycle their forms twice a day by using a combination of Chronolia® 4H and Agilia® Vertical.

Chronolia 4H was poured in the morning – it's fast curing properties allowed the construction crew to strip the forms 5-6 hrs later. Once the forms were stripped, the contractor could then pour with Agilia in the afternoon and allow the concrete to cure over night – stripping the forms in the morning to begin the cycle again. Chronolia® 4H has a standard slump of 200mm and, therefore, had a high enough slump for this project that when it was vibrated in the forms, it provided a good finish. Using this system allowed Cast in Stone Fencing by DDS Consulting to speed up their construction time while still achieving the quality finish that they wanted.

Cast in Stone Fences by DDS Consulting was able to cycle their forms twice a day thanks to the rapid strength gain properties of Chronolia® 4H.



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