



*The new terminal and runway are designed to accommodate jumbo airliners, such as the double-decker Airbus A380, which will attract more international flights and businesses to Calgary.*



*The new 4.2 kilometer (2.6 mile) runway, the longest one in Canada, will increase the airport capacity by up to 100,000 flights per year.*

## Paving Products Make New Runway Ready For Takeoff

### Summary

In April 2011, the Calgary International Airport (YYC) embarked on a \$620 million Runway Development Program. A major highlight of the project is a new 14,000' long and 200' wide runway, the longest in Canada and second only to a runway at the Denver Airport in North America. The project also includes an aircraft parking apron, taxiways, a central deicing facility and other infrastructure improvements.

PCL and Dufferin Construction formed a joint venture and were awarded the project development contract in November 2010.

When the contract was awarded, an exact specification had not been made as to the types of dowel baskets and dowels required for the project. Dayton Superior was able to work with both contractor companies to develop a plan for the type and quantities of product solutions best suited for the project.

### Customer

Owner: The Calgary International Airport Authority

Contractor: PCL and Dufferin Construction (joint venture)

### Project

Calgary International Airport Runway Development Program

Airport

### Challenge

PCL and Dufferin Construction only had a standard drawing for the project, but lacked specifications for the type and quantity of dowel baskets and dowels needed for the project. In addition, the contractors faced tight construction schedules, placing significant importance on product accessibility and swift delivery capabilities.

### Solution

Dayton Superior worked with PCL and Dufferin to develop the best product solution strategies to meet the project's dowel basket and dowel needs. Dayton Superior supplied epoxy coated dowels used loose and in baskets. Dayton Superior also supplied dowel baskets to the project.

Because Dayton Superior is the largest North American manufacturer of dowel baskets and dowels for the paving industry, the company has the capability to produce the product solutions in a compressed timeframe. In addition, the company, through the use of state-of-the-art demand management tools, was able to meet a challenging delivery schedule without issue.

"Dufferin Construction has built and maintained a lasting relationship with Dayton Superior over the years due to their quality products, best pricing, prompt service and knowledgeable personnel," said Mark Hatton, purchasing manager for Dufferin Construction Company.

### Results

- Dayton Superior's manufacturing capabilities allowed for large product quantities to be available to the contractor as needed — ultimately saving the contractor money by eliminating manufacturing wait times and keeping construction on schedule.
- Dayton Superior was able to maintain crucial inventory levels of the dowels and dowel baskets over the life of the project
- The ability to adhere to demanding delivery schedules contributed to the contractor's ability to keep the project on schedule and on budget

### Resources

Learn more about Dayton Superior Paving Products at: [daytonsuperior.com/paving](http://daytonsuperior.com/paving)

### Dayton Superior Paving Product Specifications

- Dowel baskets are available for contraction and expansion joints in slabs 4" to 9" thick
- Dowel baskets are fabricated for 3/4", 1", or 1-1/4" diameter dowels as required
- Type "D" Contraction Baskets and K-5 Type "D" Expansion Baskets are manufactured at a standard 10" width
- Dowel bars available in a variety of lengths and dimensions. Plain, painted or epoxy-coated finishes available.
- Other dowel bar options include: patched ends, tectyl bondbreaker, fully or 3/5 painted, square or round

### Related Products from Dayton Superior


- J-10-W Cure
- Aztec Plastic Bar Supports
- J-51-AW Epoxy


HERALD SPECIAL REPORT

# Ready for TAKEOFF

A \$2-BILLION PLAN TO CREATE A NEW 4.2-KM RUNWAY — THE LONGEST IN CANADA — AND DOUBLE THE SIZE OF THE INTERNATIONAL TERMINAL PROMISES TO ADD 100,000 FLIGHTS EACH YEAR TO THE LOCAL AIRPORT AND SECURE CALGARY'S PLACE AS A GLOBAL HUB

See story, Pages A15-A16



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Leah Hennel, Calgary Herald  
Calgary's airport will be able to welcome more planes when new runway is complete in 2014.