

Project Profile

Calgary City Transit Bus Barn Expansion



Project Background

In September 2003, Calgary Transit expanded their existing bus barn facility located at 32nd Avenue N.E. to accommodate their growing bus fleet. The 92,666 ft² addition required a total of 1,090 cubic meters of both air and non-air entrained, abrasion-resistant concrete to withstand the heavy wear of bus traffic.

The City required the entrance aprons to contain 4% to 7% air entrainment for the CSA Class C2 exposure conditions, with the remainder of the interior concrete being non-air entrained (Class N). The slab thickness was 125 mm (5").

Inland Concrete, together with Devitt & Forand, recommended HARD-WEAR concrete, a revolutionary concrete mix that provides uniform hardness and wear resistance throughout the full depth of the slab, not just the surface.

Location

32nd Avenue N.E. Bus Barn Facility
Calgary, Alberta, Canada

Owner

City of Calgary Transit

Contractor

Devitt & Forand Contractors Inc.

Concrete Placer & Finisher

Dynamic Concrete Pumping Inc.

Concrete Product Used

HARD-WEAR™ Concrete

Total Floor Area

92,666 ft² (8,609 m²)

Project Superintendent

Joe Nuttall
Devitt & Forand

Project Results

The City of Calgary Transit Engineers, Project Engineer and Contractor provided very positive feedback on HARD-WEAR concrete's performance. The finishers enjoyed the fact that additional labour-intensive hardeners were not required and that the HARD-WEAR concrete mix was easy to work and finish.

Client Testimonial

“At Devitt & Forand we've found that using Inland Concrete's HARD-WEAR mix eliminates most of the problems caused by dry-shake mineral hardeners. Time and labour are minimized, finishing is easier and dust free, and the mix is highly adaptable as it is compatible with both air-entrained and non air-entrained concrete.

The result is very consistent, abrasion-resistant concrete that holds up to heavy use and abuse. At the end of the day, this is what clients want and what we strive to provide.”

~ Bruce Brunette, President
Devitt & Forand Contractors Inc.

The logo for HARD-WEAR features the brand name in a bold, blue, sans-serif font. The letters are slightly shadowed to create a 3D effect, as if they are resting on a light gray rectangular base. A small trademark symbol (TM) is positioned to the upper right of the word WEAR.

HARD TO THE CORE.