



## Case Study

### West Edmonton Mall – Edmonton, Alberta CA

#### World's Largest Mall Saves on Maintenance and Reduces Energy Costs

##### Challenge

West Edmonton Mall in the city of Edmonton is the largest entertainment and shopping facility in the world at 5.3 million square feet. In addition to more than 800 stores and services, the Mall houses Galaxyland (the world's largest indoor amusement park), World Waterpark (home to the world's largest indoor wavepool), Professor Wem's Adventure Golf, Ice Palace (an NHL sized skating rink), Dolphin Lagoon and more. It's easy to see why this facility has nearly 30 different public restroom areas, as well as locker facilities, to accommodate its 138,000 visitors each day during peak times.

Maintaining restrooms and locker rooms for a complex of this magnitude is a daily challenge. Restroom renovations are considered a small project and are part of an ongoing process. West Edmonton's primary problem was maintenance on its 60 shower units in the locker rooms.

"Our old showers were a maintenance nightmare for costs and time," said Brian Mykitiuk, mall maintenance manager.

The facility management team began replacing the showers that were causing Mykitiuk's headaches. Over the years, they tried many types of showers that would work initially, but developed drips and other problems over time that were expensive to repair.

## Solution

Today, West Edmonton Mall has replaced nearly all of its previous showers with Bradley 1C-TT wall shower units and plans to add another 10-15 additional units once the retrofits are completed. The 1C-TT units are in-wall, individual showers with an electronic push button and a chrome-plated brass showerhead.

The new metered showers save on water use and energy costs by ensuring that showers are not left running when not in use. The Touch Time™ valve controls water flow at each station to reliably meter shower water. A push-button control with self-contained integral circuitry is a digital solid state “brain” that electronically controls the timing of one solenoid valve. Showers are activated only when the push button is released, preventing ‘hold open’ activation.

In addition, the Bradley showers have vandal-resistant features to help prevent damage. The chrome-plated brass is very durable and there are no necks on the showerheads that can be broken off. Units also do not have exposed fasteners, and the security screws are made to stand up to tampering.

“It’s been a year and a half since we started the shower renovation with Bradley and we’ve had no problems,” said Mykitiuk. “There are no drips and the shower rooms are dry – they’re just great units. We have had no maintenance on any of the showers, which has saved us huge dollars in labor and parts, as well as the water savings.”

## High-Traffic Restroom Renovations

Over a three-year time span, Edmonton Mall also upgraded its high-use restrooms including washrooms in the water park and water park viewing area, ice rink, amusement park and security area facilities. The majority of the mall’s restrooms are now equipped with Bradley fixtures as part of the effort to make them more attractive and inviting.

For many of the washrooms, the maintenance team selected the modern-looking Express® Lavatory System. These group handwashing fixtures allow several users to wash their hands at once and keep traffic moving quickly. The units have a continuous bowl made of Terreon® solid surface material and molded sprayheads that are integrated into the bowl module to keep maintenance to a minimum. A total of about 20 MG Series lavatory systems, either two- or three-user stations, have been installed.

In addition, more than three dozen Bradley Futura 900-series faucets with infrared control have been installed in other restrooms that were not as extensively renovated. These Bradley faucets will also be used in future high-end washrooms throughout the facility.

But Mykitiuk keeps coming back to the showers. “I would absolutely recommend Bradley showers. In fact, in our facility, we won’t use anything else. Bradley has proved to be the best I’ve found so far. I can’t see them being beat.”



Brian Mykitiuk, Mall maintenance manager of West Edmonton Mall.

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– Brian Mykitiuk  
Mall Maintenance Manager  
West Edmonton Mall



By changing to Bradley showers with Touch Time controls, West Edmonton Mall has saved on maintenance repairs and energy costs.