

# ConQuest

## FIRESPRAY

FIRE RATED DUCT SOLUTIONS

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### **Construction of Credit Valley Hospital's New Lab, Operating Rooms Takes Innovative Approach with Firespray International Ductwork**

MISSISSAUGA, Ontario – [Firespray International](#) has supplied an innovative fire-rated ductwork solution that saved space, time and cost in constructing new laboratory space and operating rooms at Credit Valley Hospital in Mississauga.

The publicly owned hospital has a major expansion project underway, adding a total of 270,000 square feet of new construction and renovating 70,000 square feet, to accommodate growth and enhance patient services.

Square M Group of Toronto, a Firespray International licensee, provided a total of 10,500 square feet of Flamebar BW11 ductwork, including stainless steel round fume exhaust ductwork for the hospital's laboratory and galvanized steel rectangular supply air ductwork for the operating rooms. Constructed to an enhanced SMACNA standard and factory-coated with Flamebar BW11 coating, the Firespray ductwork system is tested and classified by Underwriters Laboratories (UL) in accordance with ISO 6944 for up to two hours of fire resistance.

Unlike conventional ductwork systems that have a requirement for two-hour rated performance, the [Flamebar BW11 system](#) eliminates the need to construct either a separate drywall enclosure or wrap enclosure around ductwork. "With Flamebar BW11, the duct is the enclosure," said Joe Vincenti, Firespray vice president for North American operations. "That saves time on the jobsite eliminates the space normally required for a separate enclosure, and substantially reduces overall costs."

Recently introduced in Canada, the Flamebar BW11 system has helped streamline construction schedules for numerous hospitals in the U.S., Europe and the Middle East, Vincenti added.

Gaining space for mechanical systems in the Credit Valley Hospital lab and operating room ceilings was a key priority, according to Mario Pannunzio, senior project manager with design engineering firm the MMM Group of Toronto. "Using a conventional system would have used at least six more inches of space in the ceiling area," he said. "Firespray's fire-rated ductwork gave us more room to work with in laying out the interference requirements."

Installing contractor was Black & McDonald Sheet Metal of Scarborough, Ontario. "In using the BW11 fire-rated duct system, we were able to use the offsets, elbows, and tapers that we are accustomed to using, and it allowed greater flexibility in dealing with interference issues

than we would have had with a conventional solution,” said Black & McDonald General Foreman Matt Felix. “That ease of installation, plus quick delivery, made for an efficient and cost-effective project.”

[Firespray International](#) is recognized worldwide in the design and manufacture of specialized fire ducting systems in healthcare facilities and diverse industrial sectors, including fire-rated ductwork (smoke exhaust, pressurization, lab exhaust, car park exhaust, risers in multi-story buildings, etc), and commercial kitchen extract ductwork. For information and system documentation, contact Conquest Firespray, LLC at 586.576.7600 or email [sales@Conquest-Firespray.com](mailto:sales@Conquest-Firespray.com).

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