

CANABERRA DATA CENTER

CANABERRA, ACT, AUSTRALIA



FIRE PROTECTION/HVAC CASE STUDY

PROJECT

FACILITY:

Data Center

VICTAULIC SOLUTIONS:

Green Solution

Minimal Wetting

Reduced Downtime

OWNER:

Canberra Data Centers

CONTRACTOR:

Wormald - FP

Robert Lee - HVAC

CONSULTANT:

Fire Protection Technologies (FPT)

COMPLETED DATE:

December 2015



Since its creation in 2007, Canberra Data Centers (CDC) in the Australian Capital Territory has used the latest technology to be as efficient, green, secure and reliable as possible.

When it came to choosing a fire suppression system to install across multiple zones, CDC chose the Victaulic Vortex™ 1500 Hybrid Fire Suppression System. Victaulic Vortex has proven to be a highly effective solution that was in accordance with the CDC's green ethos, was cost effective, would cause minimal disruption in the event of any incident and would not affect the facility's excellent up-time record during installation.

"Victaulic Vortex is a new product set that demonstrated the qualities that are needed for fire suppression in an information and communication technology environment," said Peter Henson, Chief Technology Officer at Canberra Data Centers. "Additionally Victaulic Vortex meets the 'value for money' criteria we were looking for."

With nearly zero wetting, the system is especially suited to the facility's requirements. Unlike other combined agent systems, the Victaulic Vortex hybrid system utilizes both nitrogen and water as complementary extinguishing agents. Moreover, when compared with other suppression systems, Victaulic Vortex extinguishes fire in open, naturally ventilated areas, so maintaining room integrity is not essential, eliminating the need for annual fan testing of enclosures.

"The 'stand up' time from an incident to business as usual is significantly reduced compared to traditional fire suppression," said Henson, "and in testing, Victaulic has demonstrated there is no damage or residue following deployment."

In addition to the Fire Protection system, Victaulic mechanical piping joining solutions were chosen to install the mechanical pump room. Robert Lee, the mechanical contractor, chose Victaulic couplings for their speed and safety of installation, suction diffusers for space saving and simplification of pipework around the pumps, and flexible couplings for vibration attenuation in lieu of rubber bellows.

SPECIFICATIONS

SERVICES:	PIPE MATERIALS:	PIPE SIZE RANGE:
Victaulic Vortex™ Hybrid Fire Suppression System	Galvanized Carbon Steel	3/4-2"/20-50 mm
HVAC	Carbon Steel	12"/300mm

