



Fire Damper Installations

Our highly skilled and accredited team provides unique solutions and specialist expertise in the installation of fire dampers. Both natural and mechanical ventilation often require ductwork to pass through fire resistant walls and floors – the effective fire sealing of these openings is critical.

What is a fire damper?

Fire dampers are passive fire protection products designed to close off an opening through which fire can spread. There are mechanical and intumescent versions. Whether a fire damper is closed mechanically or by the physical/chemical action of an intumescent system, they are both activated by heat and are an essential element in a building's fire safety systems. Some of the more common fire damper models are pictured below.

How do they work?

Fire dampers help stop the spread of flame through metal duct work systems and are also used to stop air transfer through floors or walls. A fire damper closes once the temperature of the duct becomes high enough to melt a fusible link (approximately 75 degrees Celsius), which otherwise holds it open.

Where are they used?

Fire dampers are typically installed in metal duct work systems for heating and cooling as well as in fire rated walls, fire barriers, fire partitions and horizontal assemblies. As per AS1682.2 they are required between one side of a fire rated separation and another.

Fire dampers vs smoke dampers?

Smoke dampers differ from fire dampers in that they close in the presence of smoke and work in conjunction with an electrical smoke alarm system.

