

# FIREPRO

## FIRE PROTECTIVE BUILDING PRODUCTS

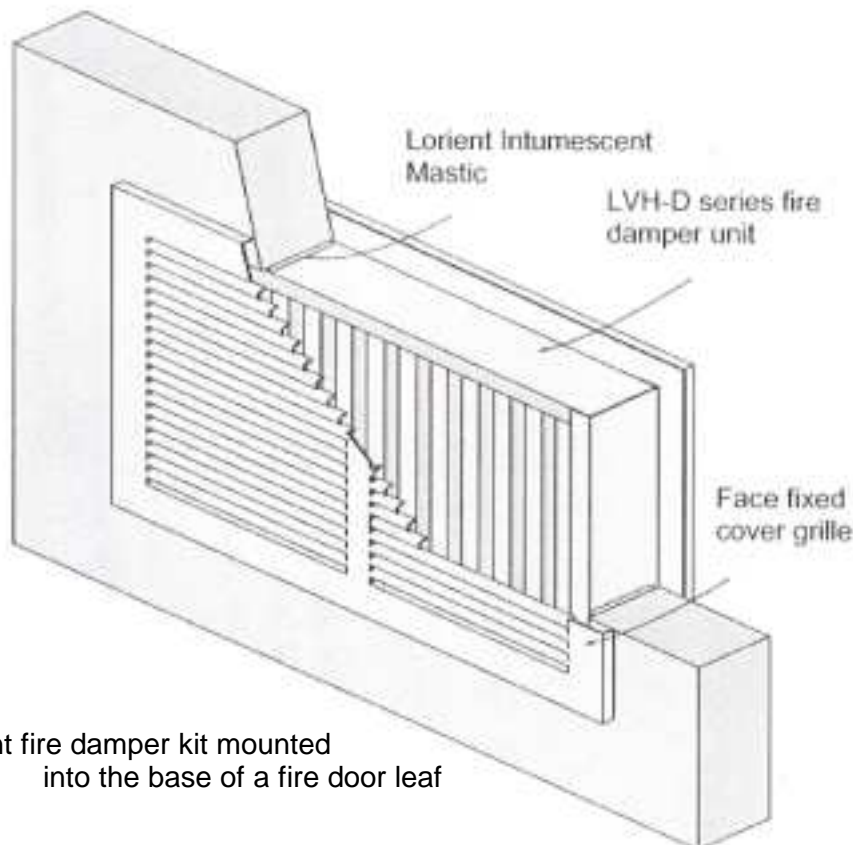
HEAD OFFICE: AUCKLAND (09) 579 0367  
WELLINGTON (04) 568 7086 • CHRISTCHURCH (03) 379 9364  
[www.firepro.co.nz](http://www.firepro.co.nz) [sales@firepro.co.nz](mailto:sales@firepro.co.nz)

CI/SfB  
LVH-D DATASHEET - AUG08

Product specifications  
can change. Contact  
us to ensure you have  
our latest datasheet

## LVH-D Series Intumescent fire dampers

### Intumescent Fire Damper Instruction details for 35mm and thicker Fire Doors



LVH-D intumescent fire damper kit mounted  
into the base of a fire door leaf

#### INSTALLATION INSTRUCTIONS

1. Check the fire door leaf is approved with the LVH-D series intumescent fire damper.
2. Check the thickness of the door leaf is no less than 35mm.
3. Mark out the size and location of the cut out for the intumescent fire damper in the door leaf.  
The cut out size of the intumescent fire damper is 10mm larger than the LVH-D kit size supplied.  
For example a 450 x 450 kit requires a cut out size of 460 x 460mm.
4. Typically, the unit must be a minimum of 200mm in from any edge of the door leaf.
5. Two units can be installed in the door leaf if required. These must be a minimum of 200mm apart. Generally, one is installed in the top of the door leaf and the other in the bottom.
6. Cut out the opening for the fire damper in the door leaf.
7. Slide the LVH intumescent fire damper into the opening and hold in place.
8. Liberally apply Intumescent mastic to the perimeter of the body to seal any gaps left in the cut out.
9. Face fix the cover grilles over the damper to either side of the door leaf using 6mm through fixings.

*NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. They should not however be construed as controlling suggestions and there is no warranty of performance of our materials either expressed or implied. We urge that users of our materials conduct confirmatory tests to determine final suitability for their specific end uses. All dimensions are nominal. We reserve the right to make changes or to withdraw designs and products without notice.*

# LVH-D Series Intumescent Fire Dampers

## For Fire Doors (1 & 2 Hour Rating)

### Description

The LVH-D series intumescent fire damper is designed to allow air transfer through fire doors.

These intumescent fire dampers incorporate a number of parallel intumescent slats, reinforced with impact resistant steel edging, housed in a rigid steel frame. The LVH-D series damper is retrofitted into the fire door leaf and protected with steel louvered cover grilles.

There is no requirement for special clearances or insulating material in this system. The openings are simply fire stopped using Intumescent mastic.

The fire damper kit comes complete with a pair of face fixed, decorative powder-coated steel cover grilles that provide a neat appearance whilst also giving a non-vision facility for privacy.

The LVH-D series intumescent fire dampers have been fire tested to AS1530.4 with many proprietary fire door assemblies and comply with AS/NZ1905.1.

### Function

There are no moving parts in an intumescent fire damper. Instead, fixed, evenly spaced parallel slats containing intumescent material swell when exposed to heat. A sudden increase in temperature resulting from the presence of hot flames or gases will cause the slats to swell to many times their original thickness, fusing together to provide an effective barrier to the passage of fire and hot smoke. The LVH series intumescent fire dampers also provide a high degree of insulation from radiant heat, protecting any nearby combustible materials from ignition.

### Reliability

The LVH series intumescent fire dampers are trouble free in operation which results in increased system reliability. The absence of moving parts alleviates concerns relating to clearances, corrosion and dust build-up which may render a conventional damper inoperative.

Extensive fire testing has shown that the orientation does not affect fire performance and the symmetrical construction allows bi-directional air-flow.

### Cost Savings

By the nature of its design the LVH-D series intumescent fire damper kit can be incorporated into new fire doors or retrofit into an existing fire door eliminating the need to replace door leaf when air transfer requirements become necessary.

### Sizing

Standard door kit sizes:

- 1) 600 x 300mm
- 2) 450 x 450mm

Note 1. Cover grilles supplied to suit.  
2. Check with the specific fire door manufacturer's approvals for your application.

