

IBD-FS Building Product Information Sheet

Version 1.1 – Issued 20/09/24

Product

Product name	IBD-FS
Product type	Fire Damper
Product Identifiers	IBD-FS AV/AH/BV/BH/CV/CH/CRV/CRH/COV/COH

Product description and intended use

- The IBD-FS is a line of mechanical fire dampers designed for use within ventilation systems to maintain the integrity of a fire barrier. The IBD-FS can offer a fire integrity rating of up to four hours depending on the construction of the fire barrier. The IBD-FS has no structural adequacy nor insulation ratings.
- IBD-FS dampers are fabricated from galvanised steel blades with stainless-steel side seals fitted within a galvanised steel frame. Optional completely stainless-steel construction is available for dampers being installed into harsh environments.
- Each unit is fabricated to the required width and height dimensions for each job.
- Each damper comes factory fitted with a galvanised steel mounting sleeve and one set of retaining angles, a second set of retaining angles is supplied loose and must be used for installation on site.
- To ensure compliance the IBD-FS must be installed exactly as per the tested and assessed details. If this is not possible then a fire engineer will be required to make an assessment as to whether the installation is an acceptable alternative solution.
- The basic construction of the IBD-FS is consistent throughout each sub model with slight design variations to suit either wall or floor applications and varying styles of duct connections. Vertical dampers must always be installed following the “this way up” sticker however air flow can be from either direction.

Relevant NZBC clauses

- Clause B2 Durability: Performance B2.3.1 (c) 5 Years
- Clause C3 Fire Affecting Areas Beyond the Fire Source: Functional C3.1
- Clause C4 Movement to Place of Safety: Functional C4.2
- Clause H1 Energy Efficiency: Performance H1.3.6

Contributions to compliance with NZBC clauses

- **B2:** The lifespan of the IBD-FS will vary based on the environment it is installed in. For a standard HVAC installation, the IBD-FS would provide a durability of a minimum of 5 years. Excessively corrosive or harmful environments or exposure to fire, heat or water will reduce the lifespan of the IBD-FS.
- **C/AS2 2.3.13, C/AS2 4.16.12 (b):** The IBD-FS does not have an insulation rating and only offers a fire integrity rating. Insulation ratings are not required for fire dampers given either:
 - Sprinklers are installed throughout the building in accordance with either NZS4541 or NZS4515, or
 - There is no combustible material placed closer than 300mm to the fire damper or the air duct.

- **C/AS2 4.7.4 (a, c):** Theatres with an occupant load of more than 1000 are required to include heat sensing devices within roof vents that are electronically interlocked with all fire dampers penetrating the proscenium wall. The IBD-FS cannot be electronically interlocked and therefore is not suitable for this use scenario. The HFS damper can be electronically interlocked and should be used instead.
- **C/AS2 4.11.4 (d):** Fire dampers serving ventilation ducts, which comply with the requirements for fire resisting closures, are an exception that is allowed within protected shafts. The IBD-FS, given that it is installed correctly, is suitable for use within a duct penetrating a protected shaft such as a lift shaft.
- **C/AS2 4.16.12 (a):** The IBD-FS is compliant with both AS1682.1 and AS1682.2.
- **C/AS2 4.6.12 (c):** The IBD-FS must be installed as per installation details with an access panel on at least one side of the damper. The test latches are designed so the damper can be easily tested and reset when required.
- **H1:** When installed in a commercial building the IBD-FS must be designed to have a maximum pressure drop when fully open of 15 Pa.

Relevant standards

- IBD-FS dampers are designed to and compliant with AS1682.1 and AS1682.2.
- IBD-FS dampers are tested to AS1530.4-2014.
- IBD-FS should be maintained to AS1851-2012.

Conditions and limitations of use

- The IBD-FS should be specified by a suitably qualified mechanical or fire engineer based on the integrity requirements of the fire barrier.
- The IBD-FS should be installed by a suitably qualified and trained tradesperson. Holyoake representatives are available to provide installation training upon request.
- The IBD-FS must be installed exactly as per the tested or assessed detail or have its installation specifically signed off by a fire engineer.
- Penetrations through fire rated building elements with kitchen extract systems shall not have fire dampers installed as per AS1668.1-2015 section 3.3.3 (b) & (c). These openings must be protected from fire by other means.

Warnings and bans

The IBD-FS is **not** subject to a warning or ban under section 26 of the Building Act 2004.

Installation details and product datasheet

The IBD-FS product datasheet and installation details for multiple different wall or floor construction types can be found on our [website](#).

Maintenance requirements

The IBD-FS should be inspected and subjected to a routine annual service according to AS1851-2012. Inspect 20% of the fire dampers in a building annually, such that at the end of the fifth year all dampers have been inspected. Where a significant number of dampers fail, are unable to close, corroded, or otherwise incapable of performing satisfactorily, all dampers shall be inspected within the next twelve-month period. A failure rate of 10% of the 20% annually tested shall be regarded as significant.

Manufacturer details

Manufacture location	New Zealand
Manufacturer legal and trading name	Price Holyoake (NZ) Ltd T/A Holyoake Air Management Solutions by Price
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Declaration

Price Holyoake (NZ) Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Version History

Version number	Written by	Date issued	Changes from previous document
V1.0	ST	06/07/24	First issue
V1.1	ST	20/09/24	Updated Christchurch Address, website URL and removed reference to electrothermal link.