

Installation Illustrations

Illustrations for the Installation of
Fire/Shield and Smoke/Shield Dampers



*action*air

Dampers Controls Fancoils

Introduction

All Actionair Fire/Shield and Smoke/Shield products have been subjected to a range of tests over many years. A range of assessments has supplemented this testing. The dampers will fulfil the requirements of Approved Document B.

Actionair subscribes to the LPCB certification scheme (LPS 1162), which ensures that a third party regularly audits both the product (against design and test data) and the QA system. This means that the client has independent confirmation that the product is tested and also manufactured as tested.

Actionair is now in the midst of testing to the new European standards to meet the demands of the European Supplement to Approved Document B, that is supposed to be published 2002/2003.

The following documents are fully tested or assessed methods (based on fire test performance data) for the installation for fire and fire/smoke dampers.

Although the methods have been tested and assessed, it is recommended that any and all installation methods must be confirmed with

Building Control before construction commences.

Drawings AA/F/ 8001-8020 – General installations

These methods have been assessed by both the Loss Prevention Council (LPC), part of BRE, Garston and the Warrington Fire Research Centre (WFRC) as part of a BSRIA/HEVAC project.

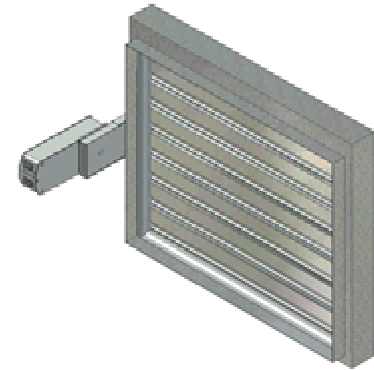
LPC assessment reference - CC 204928

WFRC assessment reference- C118248/A

The purpose of this project was to give a range of applications to the client, that may be considered before a project is undertaken. This should lead to fewer discussions of differing solutions that have been used for installation, that end with Building Control rejecting methods or seeking information on methods that have not been assessed.

It may be seen from the drawings that, in the above cases, the damper is mechanically constrained within the wall by, for instance, angles and platework or the HEVAC frame

being tied back to anchors etc. This is to maintain the fire integrity of the barrier by



- i) preventing the unit being pulled from the barrier by collapsing ductwork, or
- ii) preventing the unit being pushed through the wall by ductwork expanding under fire conditions

Drawings AA/F/ 9016 – 9017 – Structural fire stopping

These drawings are Actionair product specific and refer to a test sponsored by Sanders Fire Ltd (structural fire protection and fire-stopping) using Firecrete HS high strength structural fire rated mortar.

Use of this specific mortar allows the use of the HEVAC frame without tying back, as long as the damper and mortar are used in the configuration shown

LPC test references- TE 91327B &

TE 90792

Sanders Fire Ltd may be contacted directly on
-Tel: 01883 730699

Other Installations

Actionair will provide application drawings of other proposed methods of installation, but it is the responsibility of the client to ensure that these are acceptable to Building Control/Local District Surveyor prior to the order being placed or manufactured.

Actionair are unable to endorse methods of installation, other than those tested or assessed by third parties as described above.

Assessments may be sought for clients by Actionair, but these would be chargeable whatever the outcome (i.e. acceptable or unacceptable). There is also a lead-time associated with this and full dimensional and structural information about the installation would be required. Actionair would give their best advice, before proceeding, on the expected outcome.

Further Information

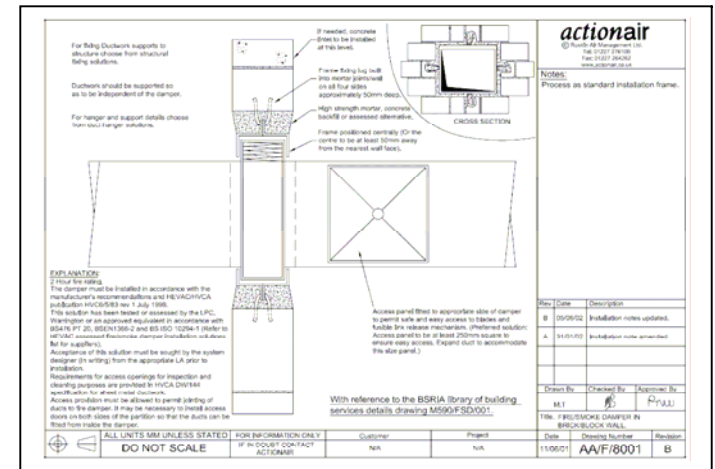
Clients may also contact LPC, WFRC, or International Fire Consultants (IFC) on the following numbers for advice on proposed installations or to confirm the validity of tests and assessments

LPC - ++44 (0) 1923 664000

WFRC - ++44 (0) 1925 655116

IFC - ++44 (0) 1844 275500

If you require any further information or advice, please contact our sales office who will be able to help with both technical questions and other sales related queries. They will also be able to supply full unabridged copies of the test reports should these be a requirement.



Copies of our drawings are available in pdf and dwf format from our Website for downloading for use in your own documentation.

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