

Fire resistance tests — Fire dampers for air distribution systems —

Part 4: Test of thermal release mechanism

ICS 13.220.40; 91.140.30

National foreword

This British Standard is the UK implementation of ISO 10294-4:2001+A1:2014. It supersedes BS ISO 10294-4:2001, which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee FSH/22, Fire resistance tests, to Subcommittee FSH/22/-/4, Fire resistance tests for dampers, seals and smoke extraction.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by **A1** **A1**.

The publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Health and Environment Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 August 2001

© The British Standards Institution 2015.
Published by BSI Standards Limited 2015

ISBN 978 0 580 86690 6

Amendments/corrigenda issued since publication

Date	Comments
31 January 2015	Implementation of ISO amendment 1:2014

**Fire resistance tests — Fire dampers for air
distribution systems —**

**Part 4:
Test of thermal release mechanism**

*Essai de résistance au feu — Clapets résistant au feu pour systèmes de
distribution d'air —*

Partie 4: Méthode d'essai du mécanisme de déclenchement thermique



Reference number
ISO 10294-4:2001(E)

Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Requirements	2
4.1 Thermal release.....	2
4.2 Response behaviour	3
4.3 Faulty set-off	3
5 Test apparatus	3
6 Test procedure	6
6.1 Installation of thermal release mechanism	6
6.2 Control of test conditions	6
7 Test report	8
Annex A (informative) Reliability tests.....	10
Annex B (informative) Thermal release mechanisms for higher operating temperatures	12

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 10294 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 10294-4 was prepared by Technical Committee ISO/TC 92, *Fire safety*, Subcommittee SC 2, *Fire containment*. A test method was needed to evaluate the correct operation of damper-operating mechanisms.

ISO 10294 consists of the following parts, under the general title *Fire resistance tests — Fire dampers for air distribution systems*:

- *Part 1: Test method*
- *Part 2: Classification, criteria and field of application of test results*
- *Part 3: Guidance on the test method*
- *Part 4: Test of thermal release mechanism*

Annexes A and B of this part of ISO 10294 are for information only.