ISO 10295-1:2026-06 (E)

Fire tests for building elements and components - Fire testing of service installations - Part 1: Penetration seals

Contents

Page

Foreword ... iv

Introduction ... v

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Symbols and abbreviated terms ... 3

5 Test equipment ... 3

6 Test conditions ... 4

7 Instrumentation ... 4

8 Test construction ... 4
8.1 Number of specimens ... 4
8.2 Size of specimen ... 4
8.3 Fire-separating element ... 5
8.3.1 General ... 5
8.3.2 Standard fire-separating elements ... 5
8.3.3 Non-standard fire-separating elements ... 6
8.4 Penetrating service ... 6
8.4.1 Selection of service(s) ... 6
8.4.2 Installation of service(s) ... 6
8.5 Penetration seal ... 7
8.5.1 Installation of penetration seal ... 7
8.5.2 Addition of services ... 7
8.5.3 Blank penetration seal ... 7

9 Test procedure ... 7
9.1 Pre-test conditioning ... 7
9.2 Setting up of test construction and apparatus ... 8
9.2.1 Installation of test construction ... 8
9.2.2 Furnace temperatures ... 8
9.2.3 Unexposed face temperature measurement ... 8
9.2.4 Roving thermocouple ... 11
9.2.5 Integrity measurements ... 11
9.3 Performing the test ... 11
9.4 Measurements and observations ... 11

10 Test criteria ... 11
10.1 General ... 11
10.2 Integrity ... 11
10.3 Insulation ... 12

11 Expression of results ... 12

12 Direct field of application ... 12
12.1 General ... 12
12.2 Pipe services ... 12

13 Test report ... 13

Annex A (informative) **Other performance tests** ... 15

Annex B (informative) **Explanatory notes** ... 24