DIN EN 1364-5:2017-09 (E)

Fire resistance tests for non-loadbearing elements - Part 5: Air transfer grilles

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Test equipment 7

5 Test conditions 7
5.1 Heating conditions 7
5.2 Pressure conditions 7

6 Test specimen 8
6.1 General 8
6.2 Size 8
6.3 Number 8
6.4 Design 8
6.4.1 General 8
6.4.2 Restraint 8
6.5 Construction 9
6.6 Verification 9

7 Installation of test specimen 9
7.1 General 9
7.2 Supporting constructions 9
7.2.1 General 9
7.2.2 Walls 9
7.2.3 Floors 9

8 Conditioning 10

9 Application of instrumentation 10
9.1 Thermocouples 10
9.1.1 Furnace thermocouples (plate thermometers) 10
9.1.2 Unexposed surface thermocouples 10
9.2 Pressure 12
9.3 Radiation 12
9.4 Other equipment 12

10 Test procedure 12

11 Performance criteria 12
11.1 General 12
11.2 Integrity 12
11.3 Insulation 12

12 Test report 13

13 Direct field of application of test results 14
13.1 General 14
13.2 Orientation 15
13.3 Position 15
13.4 Number 16
13.5 Supporting construction 16
13.5.1 Wall/floor grilles 16
13.5.2 Ceiling grilles 16

14 Figures 17

Annex A (normative) Test configuration for immediate heat exposure 23

Bibliography 26