

# DIN EN 1364-4:2014-05 (E)

## Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Test equipment .....	8
4.1	General testing principles .....	8
4.2	Furnace configuration .....	9
4.3	Supporting floor .....	9
5	Test conditions .....	9
6	Test specimen .....	10
6.1	Size .....	10
6.2	Number of specimens .....	10
6.3	Design .....	10
6.3.1	General .....	10
6.3.2	Standard configuration .....	11
6.3.3	Restraint of the specimen .....	11
6.3.4	Surfaces .....	12
6.3.5	Perimeter seal .....	12
6.4	Construction .....	13
6.5	Verification .....	13
7	Installation of the test specimen .....	13
7.1	General .....	13
7.2	Supporting floor .....	13
7.2.1	Standard supporting floor .....	13
7.2.2	Non-standard supporting floor .....	13
7.3	Furnace closure .....	14
7.4	Fixing of the framing system .....	14
8	Conditioning .....	14
9	Application of instrumentation .....	14
9.1	Thermocouples .....	14
9.1.1	Furnace thermocouples (plate thermometers) .....	14
9.1.2	Unexposed face thermocouples .....	14
9.2	Pressure .....	17
9.3	Radiation .....	17
10	Test procedure .....	17
11	Performance criteria .....	17
12	Test report .....	18

13	Field of direct application of test results .....	19
13.1	Rules for curtain walling type A .....	19
13.1.1	General rules .....	19
13.1.2	Rules for the complete construction .....	19
13.1.3	Framing system .....	21
13.1.4	Spandrel panels .....	24
13.2	Rules for curtain walling type B .....	28
13.3	Perimeter seal .....	28
13.3.1	General .....	28
13.3.2	Material .....	28
13.3.3	Width/depth .....	29
13.3.4	Fixing of the perimeter seal .....	29
13.3.5	Covering .....	29
13.4	Supporting floor .....	29
<b>Annex A (informative) Guidance on testing curtain walling - part configuration .....</b>		<b>44</b>
A.1	Standard configuration .....	44
A.1.1	General .....	44
A.1.2	Supporting floor .....	44
A.1.3	Parts of a curtain walling .....	44
A.1.4	Specimen selection .....	45
A.2	Test principles and requirements .....	45
A.3	Fire from the inside .....	47
A.3.1	General .....	47
A.3.2	Curtain walling type A .....	47
A.3.3	Curtain walling type B .....	47
A.3.4	Perimeter seal .....	48
A.3.5	Fixing of the framing system .....	48
A.4	Fire from the outside .....	48
<b>Annex B (normative) Standard configurations .....</b>		<b>51</b>
<b>Annex C (normative) Radiation calculation .....</b>		<b>56</b>
<b>Annex D (normative) Field of direct application of test results for unitised construction .....</b>		<b>59</b>
D.1	Rules for curtain walling type A .....	59
D.1.1	General .....	59
D.1.2	Exposure conditions .....	59
D.1.3	Rules for the complete construction .....	59
D.1.4	Spandrel panels .....	59
D.2	Rules for curtain walling type B .....	59
<b>Bibliography .....</b>		<b>60</b>