

DIN EN 81-58:2018-05 (E)

Safety rules for the construction and installation of lifts - Examination and tests - Part 58: Landing doors fire resistance test

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Test principle	7
5 Test equipment	8
6 Test conditions	8
7 Test specimen	8
7.1 Construction	8
7.2 Number of specimens	8
7.3 Size of specimen	8
7.4 Installation of specimen	8
8 Supporting construction	9
9 Conditioning	9
10 Pre-test examination	9
10.1 General	9
10.2 Constructional details	9
10.3 Clearance gap measurements and depth of penetration	9
10.4 Functionality test	14
11 Test instrumentation	14
11.1 Furnace thermocouples	14
11.2 Furnace CO ₂ concentration	14
11.3 Gas flow measuring system instrumentation	14
11.4 Furnace pressure	14
11.5 Unexposed face temperature	14
11.5.1 General	14
11.5.2 Position of the thermocouples to determine the average temperature	15
11.5.3 Position of the thermocouples to determine the maximum temperature	15
11.6 Radiation measurement	15
11.7 Deformation measurement	16
11.8 Flow measurement verification	16
12 Test procedure	16
13 Test termination	17
14 Assessment of performance	17

15	Criteria of performance	17
15.1	Integrity (E)	17
15.2	Thermal insulation (I)	18
15.3	Radiation (W)	18
16	Direct field of application	18
17	Fire classification procedure and declaration of performance	18
17.1	Performance criteria	18
17.2	Fire classification periods	19
17.3	Designatory letters	19
17.4	Declaration of performance	19
17.5	Classes	19
18	Test report	19
Annex A (normative) Description of the canopy and measuring system		20
Annex B (normative) Standard supporting construction		23
Annex C (normative) Verification procedure for leakage rate measurement		24
Annex D (normative) Calculation of leakage rate		25
D.1	Calculation of leakage rate when measuring according to EN ISO 5167-1 with an orifice plate	25
D.2	Pressure correction	26
D.3	Interpreting the leakage rate curve	27
Annex E (informative) Extrapolation rule for the leakage rate for higher doors		28
Annex F (informative) Product fire performance report (assessment)		29
F.1	General	29
F.2	Content and format of fire classification report	29
F.3	Criteria of performance	29
F.4	Application of the test results to product variants	29
Annex G (normative) Marking		31
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered		32
Bibliography		33