

DIN EN 15254-4:2013-10 (E)

Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4: Glazed constructions (includes Amendment A1:2011)

Contents		Page
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principles	7
4.1	General principles	7
4.2	Use of test evidence	7
4.2.1	General	7
4.2.2	Use of previously existing test data	7
4.2.3	Notes for Methodology in Figure 1	9
5	General rules	10
5.1	Fire performance classification	10
5.2	Combination of extended application	10
5.3	Reference test	10
6	Specific changes to the glazing system	10
6.1	Exchange of the fire resistant glass	10
6.2	Asymmetrical fire resistant glass	11
6.3	Individual rectangular glass panes: aspect ratio and increase in area	11
6.4	Individual circular, three and four side non-rectangular glass panes: Increase in area	12
6.5	Individual panes in a wall: radiation	13
6.6	Exchange of timber glazing beads	14
6.7	Exchange of metal glazing beads	14
6.8	Exchange of glazing materials	15
6.9	Bead surface coverings	15
7	Specific changes to the framing system	15
7.1	Asymmetrical framing systems	15
7.2	Exchange of frames	15
7.2.1	General	15
7.2.2	Timber frames	16
7.2.3	Metal frames	17
7.3	Frame surface coverings	18
7.4	Supporting construction and fixing of the frames	18
8	Changes to the fire resistant glazed element	18
8.1	Increase in overall dimensions and area	18
8.2	Increase in dimensions for fire resistant glazed elements: radiation	19
8.3	Replication of the fire resistant glazed element with reference to radiation	20
8.4	Changing in installation angle	20
Annex A (informative)	Examples for using this standard with regard to requested extended applications based on the reference test and previously existing test data	21
A.1	Examples for glass with E Classification based on Table A.1	21
A.2	Examples for glass with EW Classification, based on Table A2	24

A.3	Examples for glass with EI Classification based on Table A3	26
	Annex B (normative) Radiation calculations	28
B.1	Radiation calculations	28
B.1.1	General	28
B.1.2	Rectangular fire resistant glass panes or elements	28
B.1.3	Circular fire resistant glass panes or elements	29
B.1.4	Other shapes of Fire resistant glass panes or elements	30
	Bibliography	36