

# DIN EN 1996-1-2/NA:2022-09 (E)

## National Annex - Nationally determined parameters - Eurocode 6: Design of masonry structures - Part 1 -2: General rules - Structural fire design

---

Contents	Page
Foreword .....	4
NA.1 Scope .....	4
NA.2 National provisions .....	4
NA.2.1 General .....	4
NA.2.2 National provisions .....	6
NCI re 1 “General” .....	6
NCI re 1.2 Normative references .....	6
NDP/NCI re 2 “Basic principles and rules” .....	7
NDP re 2.2(2) “Actions” .....	7
NDP re 2.3(2) “Design values of material properties” .....	7
NDP re 2.4.2(3) “Member analysis” .....	7
NDP re 3 “Materials” .....	7
NDP re 3.3.3.1(1) “Thermal elongation” .....	7
NDP re 3.3.3.2(1) “Specific heat capacity” .....	7
NDP re 3.3.3.3(1) “Thermal conductivity” .....	7
NDP and NCI re 4 “Design procedures for obtaining fire resistance of masonry walls” .....	7
NCI re 4.2 “Surface finishes” .....	7
NDP re 4.5(3) “Global safety factor $\gamma_{Glo}$ ” .....	7
Annex NA.A (informative) “Guidance on selection of fire resistance periods” .....	10
NCI re Annex A (informative) .....	10
Annex NA.B (normative) “Tabulated fire resistance of masonry walls” .....	11
NDP re Annex B (normative) .....	11
NA.B.1 Clay masonry .....	12
NA.B.2 Calcium-silicate masonry .....	22
NA.B.3 Dense and lightweight aggregate concrete masonry .....	27
NA.B.4 Autoclaved aerated concrete masonry .....	32
Annex NA.C (informative) “Simplified calculation model” .....	36
NCI re Annex C (informative) .....	36
Annex NA.D (informative) “Advanced calculation model” .....	37
NCI re Annex D (informative) .....	37
Annex NA.E (informative) “Examples of connections that meet the requirements of Section 5” .....	38
NCI re Annex E (informative) .....	38
Bibliography .....	39

## Tables

Table NA.1 — Factor $\omega$ to allow for different combinations of masonry units and mortar .....	9
Table NA.B.1.1 — Clay masonry — Minimum thickness of separating non-loadbearing walls (criteria EI) for fire resistance classifications .....	12
Table NA.B.1.2 — Clay masonry — Minimum thickness of separating loadbearing single-leaf walls (criteria REI) for fire resistance classifications .....	13

Table NA.B.1.3 — Clay masonry — Minimum thickness of non-separating loadbearing single-leaf walls (criteria R) for fire resistance classifications.....	15
Table NA.B.1.4 — Clay masonry — Minimum thickness of non-separating loadbearing columns or single-leaf walls < 1,0 m in length (criterion R) for fire resistance classifications .....	17
Table NA.B.1.5 — Clay masonry — Minimum thickness of separating loadbearing and non-loadbearing fire walls (criteria REI-M and EI-M) for fire resistance classifications.....	20
Table NA.B.2.1 — Calcium-silicate masonry — Minimum thickness of separating non-loadbearing walls (criteria EI) for fire resistance classifications.....	22
Table NA.B.2.2 — Calcium-silicate masonry — Minimum thickness of separating loadbearing single-leaf walls (criteria REI) for fire resistance classifications.....	23
Table NA.B.2.3 — Calcium-silicate masonry — Minimum thickness of non-separating loadbearing single-leaf walls $\geq 1,0$ m in length (criterion R) for fire resistance classifications .....	24
Table NA.B.2.4 — Calcium-silicate masonry — Minimum thickness of non-separating loadbearing columns or single-leaf walls < 1,0 m in length (criterion R) for fire resistance classifications.....	25
Table NA.B.2.5 — Calcium-silicate masonry — Minimum thickness of separating loadbearing and non-loadbearing fire walls (criteria REI-M and EI-M) for fire resistance classifications.....	26
Table NA.B.3.1 — Dense and lightweight aggregate concrete masonry — Minimum thickness of separating non-loadbearing walls (criteria EI) for fire resistance classifications.....	27
Table NA.B.3.2 — Dense and lightweight aggregate concrete masonry — Minimum thickness of separating loadbearing single-leaf walls (criteria REI) for fire resistance classifications.....	28
Table NA.B.3.3 — Dense and lightweight aggregate concrete masonry — Minimum thickness of non-separating loadbearing single-leaf walls (criteria R) for fire resistance classifications.....	29
Table NA.B.3.4 — Dense and lightweight aggregate concrete masonry — Minimum length of non-separating loadbearing columns or single-leaf walls < 1,0 m in length (criterion R) for fire resistance classifications.....	30
Table NA.B.3.5 — Dense and lightweight aggregate concrete masonry — Minimum thickness of separating loadbearing and non-loadbearing fire walls (criteria REI-M and EI-M) for fire resistance classifications.....	31
Table NA.B.4.1 — Autoclaved aerated concrete masonry — Minimum thickness of separating non-loadbearing walls (criteria EI) for fire resistance classifications.....	32
Table NA.B.4.2 — Autoclaved aerated concrete masonry — Minimum thickness of separating loadbearing single-leaf walls (criteria REI) for fire resistance classifications.....	33
Table NA.B.4.3 — Autoclaved aerated concrete masonry — Minimum thickness of non-separating loadbearing single-leaf walls (criteria R) for fire resistance classifications.....	33
Table NA.B.4.4 — Autoclaved aerated concrete masonry — Minimum length of non-separating loadbearing columns or single-leaf walls < 1,0 m in length (criterion R) for fire resistance classifications.....	34
Table NA.B.4.5 — Autoclaved aerated concrete masonry — Minimum thickness of separating loadbearing and non-loadbearing fire walls (criteria REI-M and EI-M) for fire resistance classifications.....	35
Table NA.B.4.6 — Autoclaved aerated concrete masonry — Minimum thickness of each leaf of loadbearing cavity walls with one leaf loaded (criteria REI) for fire resistance classifications.....	35