

DIN EN 1991-1-2/NA:2010-12 (E)

National Annex - Nationally determined parameters - Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures exposed to fire

Contents	Page
Foreword	3
NA.1 Scope	4
NA.2.1 General	4
NA.2.2 National provisions	4
NCI Annex AA (normative) Simplified natural fire model for fully developed room fires	9
AA.1 General	9
AA.2 Limits of applicability	9
AA.3 Design fire	9
AA.4 Parametric temperature-time curves	10
AA.5 Calculation of heat storage capacity b	14
AA.6 Calculation procedure	15
NCI Annex BB (normative) Input data for the application of natural fire models	17
BB.1 General	17
BB.2 Limits of applicability	17
BB.3 Fire load density	17
BB.3.1 General	17
BB.3.2 Determination of fire load density according to classification of occupancies	18
BB.3.3 Individual determination of fire load density	19
BB.4 Rate of heat release	20
BB.5 Safety concept	23
BB.5.1 Probability of occurrence of a fire	23
BB.5.2 Required reliability in a fire scenario	25
BB.5.3 Partial factors f_i for the parameters of fire exposure	26
NCI Annex CC (informative) Testing and validation of computer programmes for fire protection verifications by means of advanced calculation methods	28
CC.1 General	28

CC.2 Limits of applicability	28
CC.3 Use and documentation	28
CC.4 Validation examples	29
CC.4.1 Example 1	29
CC.4.2 Example 2	30
CC.4.3 Example 3	32
CC.4.4 Example 4	33
CC.4.5 Example 5	35
CC.4.6 Example 6	37
CC.4.7 Example 7	38
CC.4.8 Example 8 -- Lightly reinforced concrete flexural beam	39
CC.4.9 Example 9 -- Heavily reinforced concrete flexural beam	40
CC.4.10 Example 10 -- Reinforced concrete cantilevered column	42
CC.4.11 Example 11 -- Composite column with concrete encasement	45
NCI Bibliography	47