

ISO 834-11:2014-03 (E)

Fire resistance tests - Elements of building construction - Part 11: Specific requirements for the assessment of fire protection to structural steel elements

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	3
5	Assessment	6
5.1	General	6
5.2	Temperature data	6
5.3	Correction for discrepancy in stickability and insulation performance over the thickness range tested	7
5.4	Assessment procedures for thermal performance	7
5.5	Criteria for acceptability of the assessment method used and the resulting analysis	7
6	Report of the assessment	8
7	Limits of the applicability of the results of the assessment	9
7.1	General	9
7.2	Permitted protection thickness for beams	10
7.3	Permitted protection thickness for columns	10
7.4	Permitted section factor for beams	10
7.5	Permitted section factor for columns	10
7.6	Specific issues for passive protection	11
Annex A (normative)	The applicability of the results of the assessments for passive protection to sections other than I or H sections	12
Annex B (normative)	Correction of data/nominal thickness	14
Annex C (informative)	Assessment methodology: Graphical approach	19
Annex D (informative)	Assessment methodology: Differential equation analysis (variable approach)	25
Annex E (informative)	Assessment methodology: Differential equation analysis (constant approach)	31
Annex F (informative)	Assessment methodology: Numerical regression analysis	34
Annex G (informative)	Assessment methodology: 3D Interpolation method (reactive systems)	36
Annex H (normative)	Selection of test specimens -- Reactive materials	41
Annex I (normative)	Selection of test specimens -- Passive materials	47
Bibliography		53