

ISO 19338:2014-09 (E)

Performance and assessment requirements for design standards on structural concrete

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	General requirements	4
4.1	Overall structural concept	4
4.2	Structural integrity	4
4.3	Design approach	4
4.4	Design service life	4
4.5	Workmanship, materials and quality assurance	4
5	Performance requirements	4
5.1	General	4
5.2	Structural safety and ultimate limit states	4
5.3	Serviceability limit states	4
5.4	Restorability limit states	5
5.5	Durability limit state	5
5.6	Fire resistance limit state	5
5.7	Fatigue limit state	5
6	Loadings and actions	5
6.1	General	5
6.2	Load factors	5
6.3	Action combinations	5
6.4	Permanent loads	6
6.5	Variable loads	6
6.6	Accidental loads	6
6.7	Construction loads	6
6.8	Impact load	6
6.9	Earthquake forces	6
6.10	Wind forces	6
6.11	Environmental actions	6
7	Assessment	6
7.1	Materials	6
7.2	Analysis of concrete structures	6
7.3	Strength calculations	7
7.4	Partial safety factors for materials	8
7.5	Resistance factors	8
7.6	Resistance criteria	8
7.7	Stability	8
7.8	Precast concrete and composite action	8
7.9	Prestressed concrete	8
7.10	Designs for earthquake resistance	9
7.11	Detailing requirements	9

7.12	Durability	9
7.13	Fire	9
8	Constructions and quality control	9
8.1	Construction requirements	9
8.2	Quality control	10