

SBC

The Saudi Existing Building Code
SBC 901 - CC
Code & Commentaries



20**24**

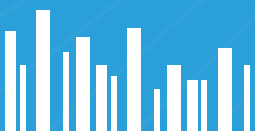


TABLE OF CONTENTS

CHAPTER 1 — SCOPE AND ADMINISTRATION	1
SECTION 101 GENERAL	2
SECTION 102 APPLICABILITY	3
SECTION 103 CODE COMPLIANCE AGENCY	4
SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL	5
SECTION 105 PERMITS	10
SECTION 106 CONSTRUCTION DOCUMENTS	14
SECTION 107 TEMPORARY STRUCTURES AND USES.....	18
SECTION 108 FEES 19	
SECTION 109 INSPECTIONS.....	20
SECTION 110 CERTIFICATE OF OCCUPANCY	22
SECTION 111 SERVICE UTILITIES	23
SECTION 112 MEANS OF APPEALS	24
SECTION 113 VIOLATIONS	25
SECTION 114 STOP WORK ORDER	25
SECTION 115 UNSAFE BUILDINGS AND EQUIPMENT.....	26
SECTION 116 EMERGENCY MEASURES	27
SECTION 117 DEMOLITION	28
CHAPTER 2 — DEFINITIONS	31
SECTION 201 GENERAL	31
SECTION 202 GENERAL DEFINITIONS.....	31
CHAPTER 3 — PROVISIONS FOR ALL COMPLIANCE METHODS	39
SECTION 301 ADMINISTRATION	40
SECTION 302 GENERAL PROVISIONS	42
SECTION 303 STORM SHELTERS.....	44
SECTION 304 STRUCTURAL DESIGN LOADS AND EVALUATION AND DESIGN PROCEDURES	45
SECTION 305 IN-SITU LOAD TESTS	50
SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS.....	50
SECTION 307 SMOKE ALARMS	61
SECTION 308 CARBON MONOXIDE DETECTION	61
SECTION 309 ADDITIONS AND REPLACEMENTS OF EXTERIOR WALL COVERINGS AND EXTERIOR WALL ENVELOPES.....	62
CHAPTER 4 — REPAIRS	71
SECTION 401 GENERAL	71
SECTION 402 BUILDING ELEMENTS AND MATERIALS.....	72
SECTION 403 FIRE PROTECTION	72
SECTION 404 MEANS OF EGRESS.....	72
SECTION 405 STRUCTURAL	72
SECTION 406 ELECTRICAL	75
SECTION 407 MECHANICAL	76
SECTION 408 PLUMBING	77
CHAPTER 5 —PRESCRIPTIVE COMPLIANCE METHOD	79
SECTION 501 GENERAL	79
SECTION 502 ADDITIONS	80
SECTION 503 ALTERATIONS	83
SECTION 504 FIRE ESCAPES	89
SECTION 505 WINDOWS AND EMERGENCY ESCAPE OPENINGS	91
SECTION 506 CHANGE OF OCCUPANCY.....	93
SECTION 507 HISTORIC BUILDINGS.....	96
CHAPTER 6 —CLASSIFICATION OF WORK.....	101

TABLE OF CONTENTS

SECTION 601 GENERAL	101
SECTION 602 ALTERATION—LEVEL 1	101
SECTION 603 ALTERATION—LEVEL 2	102
SECTION 604 ALTERATION—LEVEL 3	102
SECTION 605 CHANGE OF OCCUPANCY	102
SECTION 606 ADDITIONS	103
SECTION 607 HISTORIC BUILDINGS.....	103
CHAPTER 7 —ALTERATIONS—LEVEL 1	105
SECTION 701 GENERAL	105
SECTION 702 BUILDING ELEMENTS AND MATERIALS.....	106
SECTION 703 FIRE PROTECTION	109
SECTION 704 MEANS OF EGRESS.....	109
SECTION 705 REROOFING.....	109
SECTION 706 STRUCTURAL	111
SECTION 707 ELECTRICAL	113
SECTION 708 ENERGY CONSERVATION	113
CHAPTER 8 —ALTERATIONS—LEVEL 2	118
SECTION 801 GENERAL	119
SECTION 802 BUILDING ELEMENTS AND MATERIALS.....	120
SECTION 803 FIRE PROTECTION	125
SECTION 804 MEANS OF EGRESS.....	130
SECTION 805 STRUCTURAL	142
SECTION 806 ELECTRICAL	143
SECTION 807 MECHANICAL	145
SECTION 808 PLUMBING	145
SECTION 809 ENERGY CONSERVATION	146
CHAPTER 9 —ALTERATIONS—LEVEL 3	154
SECTION 901 GENERAL	154
SECTION 902 SPECIAL USE AND OCCUPANCY.....	155
SECTION 903 BUILDING ELEMENTS AND MATERIALS.....	156
SECTION 904 FIRE PROTECTION	158
SECTION 905 MEANS OF EGRESS.....	161
SECTION 906 STRUCTURAL	161
SECTION 907 ENERGY CONSERVATION	163
CHAPTER 10 —CHANGE OF OCCUPANCY	168
SECTION 1001 GENERAL	168
SECTION 1002 SPECIAL USE AND OCCUPANCY.....	169
SECTION 1003 BUILDING ELEMENTS AND MATERIALS.....	170
SECTION 1004 FIRE PROTECTION	170
SECTION 1005 MEANS OF EGRESS.....	171
SECTION 1006 STRUCTURAL	171
SECTION 1007 ELECTRICAL	173
SECTION 1008 MECHANICAL	174
SECTION 1009 PLUMBING	174
SECTION 1010 OTHER REQUIREMENTS	175
SECTION 1011 CHANGE OF OCCUPANCY CLASSIFICATION.....	175
CHAPTER 11 — ADDITIONS.....	186
SECTION 1101 GENERAL	186
SECTION 1102 HEIGHTS AND AREAS	187
SECTION 1103 STRUCTURAL	187
SECTION 1104 ENERGY CONSERVATION	189

TABLE OF CONTENTS

CHAPTER 12 — HISTORIC BUILDINGS.....	192
SECTION 1201 GENERAL	192
SECTION 1202 REPAIRS.....	193
SECTION 1203 FIRE SAFETY.....	194
SECTION 1204 CHANGE OF OCCUPANCY.....	196
SECTION 1205 STRUCTURAL	198
SECTION 1206 RELOCATED BUILDINGS.....	198
CHAPTER 13 — PERFORMANCE COMPLIANCE METHODS	201
SECTION 1301 GENERAL	201
CHAPTER 14 — RELOCATED OR MOVED BUILDINGS	250
SECTION 1401 GENERAL	250
SECTION 1402 REQUIREMENTS	251
CHAPTER 15 —CONSTRUCTION SAFEGUARDS	254
SECTION 1501 GENERAL	254
SECTION 1502 PROTECTION OF ADJOINING PROPERTY	257
SECTION 1503 TEMPORARY USE OF STREETS, ALLEYS AND PUBLIC PROPERTY	258
SECTION 1504 FIRE EXTINGUISHERS.....	259
SECTION 1505 MEANS OF EGRESS.....	259
SECTION 1506 STANDPIPE SYSTEMS.....	259
SECTION 1507 AUTOMATIC SPRINKLER SYSTEM	260
SECTION 1508 ACCESSIBILITY	260
SECTION 1509 WATER SUPPLY FOR FIRE PROTECTION	260
CHAPTER 16 —REFERENCED STANDARDS	264
CHAPTER A1 — SEISMIC STRENGTHENING PROVISIONS FOR UNREINFORCED MASONRY-BEARING WALL BUILDINGS	272
SECTION A101 PURPOSE.....	272
SECTION A102 SCOPE	273
SECTION A103 DEFINITIONS	273
SECTION A104 SYMBOLS AND NOTATIONS	275
SECTION A105 GENERAL REQUIREMENTS	277
SECTION A106 MATERIALS REQUIREMENTS.....	278
SECTION A107 QUALITY CONTROL	282
SECTION A108 DESIGN STRENGTHS.....	283
SECTION A109 ANALYSIS AND DESIGN PROCEDURE	285
SECTION A110 GENERAL PROCEDURE	285
SECTION A111 SPECIAL PROCEDURE	286
SECTION A112 ANALYSIS AND DESIGN	293
SECTION A113 DETAILED SYSTEM DESIGN REQUIREMENTS	295
SECTION A114 WALLS OF UNBURNED CLAY, ADOBE OR STONE MASONRY	298
CHAPTER A2 — EARTHQUAKE HAZARD REDUCTION IN EXISTING REINFORCED CONCRETE AND REINFORCED MASONRY WALL BUILDINGS WITH FLEXIBLE DIAPHRAGMS	307
SECTION A201 PURPOSE.....	308
SECTION A202 SCOPE	308
SECTION A203 DEFINITIONS	309
SECTION A204 SYMBOLS AND NOTATIONS	309
SECTION A205 GENERAL REQUIREMENTS	309
SECTION A206 ANALYSIS AND DESIGN	311
SECTION A207 MATERIALS OF CONSTRUCTION	319
CHAPTER A3 — PRESCRIPTIVE PROVISIONS FOR SEISMIC STRENGTHENING OF CRIPPLE WALLS AND SILL PLATE ANCHORAGE OF LIGHT, WOOD-FRAME RESIDENTIAL BUILDINGS.....	322

TABLE OF CONTENTS

CHAPTER A4 — EARTHQUAKE RISK REDUCTION IN WOOD-FRAME RESIDENTIAL BUILDINGS WITH SOFT, WEAK OR OPEN FRONT WALLS.....	323
CHAPTER A5 — REFERENCED STANDARDS.....	324
SECTION A501 REFERENCED STANDARDS	324
APPENDIX B — SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS FOR EXISTING BUILDINGS AND FACILITIES.....	327
SECTION B101 QUALIFIED HISTORICAL BUILDINGS AND FACILITIES	327
SECTION B102 FIXED TRANSPORTATION FACILITIES AND STATIONS	327
SECTION B103 DWELLING UNITS AND SLEEPING UNITS	328
SECTION B104 REFERENCED STANDARDS	328
APPENDIX C — GUIDELINES FOR THE WIND RETROFIT OF EXISTING.....	331
CHAPTER C1 — GABLE END RETROFIT FOR HIGH-WIND AREAS.....	332
CHAPTER C2 — GABLE END RETROFIT FOR HIGH-WIND AREAS.....	333
APPENDIX D —BOARD OF APPEALS	334
SECTION D101 GENERAL.....	334