

THE SAUDI BUILDING CODE for COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION

SBC 309 - CC

Code & Commentaries

2018

TABLE OF CONTENTS

THE SAUDI BUILDING CODE for COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION

CHAPTER 1 —GENERAL	1
1.1 —SCOPE	1
1.2 —DEFINITIONS.....	1
1.3 —MATERIAL.....	6
1.4 —CORROSION PROTECTION	6
1.5 —PRODUCTS	8
1.6 —REFERENCE DOCUMENTS	9
CHAPTER 2 —DESIGN	14
2.1 —GENERAL	14
2.2 —FLOOR AND CEILING FRAMING	19
2.3 —WALL FRAMING	22
2.4 —ROOF FRAMING.....	33
2.5 —LATERAL FORCE-RESISTING SYSTEMS.....	35
CHAPTER 3 —INSTALLATION	61
3.1 —GENERAL	61
3.2 —MATERIAL CONDITION	61
3.3 —STRUCTURAL FRAMING	61
3.4 —CONNECTIONS.....	65
3.5 —MISCELLANEOUS.....	65
CHAPTER 4 —QUALITY CONTROL AND QUALITY ASSURANCE.....	70
4.1 —GENERAL	70
4.2 —QUALITY CONTROL PROGRAMS.....	71
4.3 —QUALITY CONTROL DOCUMENTS	72
4.4 —QUALITY ASSURANCE AGENCY DOCUMENTS	73
4.5 —INSPECTION PERSONNEL	74
4.6 —INSPECTION TASKS	74
4.7 —NONCONFORMING MATERIAL AND WORKMANSHIP	77
CHAPTER 5 —TRUSSES	81
5.1 —GENERAL	81
5.2 —TRUSS RESPONSIBILITIES.....	81
5.3 —LOADING	81
5.4 —TRUSS DESIGN	81
5.5 —QUALITY CRITERIA FOR STEEL TRUSSES	89
5.6 —TRUSS INSTALLATION	89
5.7 —TEST-BASED DESIGN.....	90
CHAPTER 6 —TESTING.....	95
6.1 —GENERAL	95
6.2 —TRUSS COMPONENTS AND ASSEMBLIES.....	95
APPENDIX A —CONTINUOUSLY BRACED DESIGN FOR DISTORTIONAL BUCKLING RESISTANCE	96
A.1	96

A.2	96
A.3	96
APPENDIX B —TEST METHODS FOR TRUSS COMPONENTS AND ASSEMBLIES	100
B.1 — COMPONENT STRUCTURAL PERFORMANCE LOAD TEST	100
B.2 — FULL-SCALE CONFIRMATORY LOAD TEST	101
B.3 — FULL-SCALE STRUCTURAL PERFORMANCE LOAD TEST	103
SYMBOLS	106
REFERENCES.....	114