### STRUCTURAL SYSTEMS REFERENCE INDEX

The following is a list of formulas and references that will be available to all candidates during their Structural Systems Exam, with the permission of the American Institute of Steel Construction and the International Code Council. NCARB does not have copyright permission to reproduce these references except in testing centers. In order to help candidates properly prepare for the test, sources for each reference are listed.

#### Reference

**Beam Diagrams and Formulas - Nomenclature**

Reference: A: pg. 2-293 & 294

**Simple Beam: Diagrams and Formulas - Conditions 1-3**

Reference: A: pg. 2-296 / B: pg. 3-211 / D: pg. 3-213

**Simple Beam: Diagrams and Formulas - Conditions 4-6**

Reference: A: pg. 2-297 / B: pg. 3-212 / D: pg. 3-214

**Simple Beam: Diagrams and Formulas - Conditions 7-9**

Reference: A: pg. 2-298 / B: pg. 3-213 / D: pg. 3-215

**Beam Fixed at Both Ends: Diagrams and Formulas - Conditions 15-17**

Reference: A: pg. 2-301 / B: pg. 3-216 / D: pg. 3-218

**Beam Overhanging One Support: Diagrams and Formulas - Conditions 24-28**

Reference: A: pg. 2-304 & 305 / B: pg. 3-219 & 220 / D: pg. 3-221 & 222

#### Dimensions and Properties

**W Shapes 44 thru 27: Dimensions and Properties**

Reference: A: pg. 1-10 thru 16 / B: pg. 1-10 thru 15 / D: pg. 1-12 thru 17

**W Shapes 24 thru W14x145: Dimensions and Properties**


**W Shapes 14x132 thru W4: Dimensions and Properties**


**C Shapes: Dimensions and Properties**


**Angles: Properties**


**Rectangular HSS: Dimensions and Properties**

Reference: A: pg. 1-97 thru 103 / B: pg. 1-72 thru 89 / D: pg. 1-74 thru 91

**Square HSS: Dimensions and Properties**


**Round HSS: Dimensions and Properties**

Reference: B: pg. 1-94 thru 98 / D: pg. 1-96 thru 100

**Bolts, Threaded Parts and Rivets Loads in Tension and Shear**

Reference: A: pg. 4-3 & 4-5

#### Live and Concentrated Loads

**Table 1607.1: Minimum Uniformly Distributed Live Loads, L_o, and Minimum Concentrated Live Loads**

Reference: C: pg. 340-341

#### Sources


