

## Table of Reference Figures and Charts

<b>Supports for Co-planar Structures</b> .....	Note Set 2.1, p. 48
<b>Geometric Properties of Areas</b> .....	Note Set 2.1, p. 51
<b>Elastic Moduli of Selected Materials</b> .....	Note Set 2.2, p. 67
<b>Coefficients of Thermal Expansion</b> .....	Note Set 2.2, p. 70
<b>Theoretical and Recommended Effective Length Factors</b> .....	Note Set 2.2, p. 72
<b>Factors for Conversion of Units</b> .....	Note Set 2.3, p. 79
<b>Units of Measurement: SI System</b> .....	Note Set 2.3, p. 79
<b>Units of Measurement: U.S. System</b> .....	Note Set 2.3, p. 80
<b>IBC Example: Allowable Height and Building Areas</b> .....	Note Set 3.1, p. 83
<b>IBC Example: Fire-resistance Rating Requirements for Building Elements</b> .....	Note Set 3.1, p. 84
<b>IBC Example: Fire-resistance Rating Requirements for Exterior Walls based on Fire Separation Distance</b> .....	Note Set 3.1, p. 84
<b>International Building Code Adoption Map</b> .....	Note Set 3.1, p. 87
<b>Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake, and Ice Loads</b> .....	Note Set 3.2, p. 90
<b>Building Material Weights</b> .....	Note Set 3.3, pp. 95-96
<b>Minimum Uniformly Distributed Live Loads, <math>L_o</math>, and Minimum Concentrated Live Loads (from International Building Code)</b> .....	Note Set 3.4, p. 97
<b>Live Load Element Factor, <math>K_{LL}</math></b> .....	Note Set 3.4, p. 98
<b>Ground Snow Loads, <math>p_s</math>, for the United States</b> .....	Note Set 3.4, p. 100
<b>Deflection Limits</b> .....	Note Set 3.4, p. 102
<b>Beam Diagrams and Formulas (for various static loading conditions)</b> ..	Note Set 4.1, pp. 111-117
<b>Live Load Element Factor, <math>K_{LL}</math></b> .....	Note Set 8.1, p. 187
<b>Reduction Multiplier (RM) for Live Load</b> .....	Note Set 8.1, p. 188
<b>Moment and Shear Coefficients for Continuous Beams and One-Way Slabs</b> .....	Note Set 8.1, p. 189
<b>Minimum Thickness for Two-Way Slab Systems</b> .....	Note Set 8.1, p. 190
<b>Moment Coefficients for Two-Way Slab Systems</b> .....	Note Set 8.1, pp. 193-194
<b>Openings Permitted in Slab Systems without Beams</b> .....	Note Set 8.3, p. 206
<b>Bending Moment (Coefficients) in Rectangular Plates</b> .....	Note Set 8.4, p. 207

<b>ASTM Standard Reinforcing Bar Information</b> .....	Note Set 10.1, p. 218
<b>Maximum Reinforcement Ratio <math>\rho</math></b> .....	Note Set 10.1, p. 220
<b>Strength Curves (<math>R_n</math> vs <math>\rho</math>) for singly reinforced rectangular sections</b> .	Note Set 10.1, p. 220
<b>Minimum Thickness of Nonprestressed Beams or One-way Slabs unless Deflections are Computed (Table 7.3.1.1)</b> .....	Note Set 10.1, p. 222
<b>ACI Provisions for Shear Design (Table 3-8)</b> .....	Note Set 10.1, p. 224
<b>Minimum Depth of Nonprestressed Beams</b> .....	Note Set 10.1, p. 226
<b>Alignment Chart for Effective Length of Columns in Continuous Frames</b> .....	Note Set 10.1, p. 229
<b>Factored Moment Resistance of Concrete Beams, <math>\phi M_n</math> with <math>f'_c = 4</math> ksi, <math>f_y = 60</math> ksi</b> .....	Note Set 10.1, p. 230
<b>Column Interaction Diagrams</b> .....	Note Set 10.1, pp. 231-232
<b>Beam / One-Way Slab Design Flow Chart</b> .....	Note Set 10.1, pp. 233-234
<b>Dimensions of Forms for One-Way Joist Construction</b> .....	Note Set 10.3, p. 239
<b>Dimensions of Forms for Two-Way Joist Construction</b> .....	Note Set 10.3, p. 240
<b>Maximum Reinforcement Ratio <math>\rho</math></b> .....	Note Set 10.4, p. 243
<b>Total Areas for Various Numbers of Reinforcing Bars</b> .....	Note Set 10.4, p. 243
<b>Strength Curves (<math>R_n</math> vs <math>\rho</math>) for singly reinforced rectangular sections</b> .	Note Set 10.4, p. 244
<b>ASTM Standard Reinforcing Bars</b> .....	Note Set 10.4, p. 245
<b>Minimum Thickness of Solid Nonprestressed One-way Slabs</b> .....	Note Set 11, p. 250
<b>Strength Curves (<math>R_n</math> vs <math>\rho</math>) for singly reinforced rectangular sections</b> .	Note Set 11, p. 252
<b>Areas of Bars per Foot Width of Slab – <math>A_s</math></b> .....	Note Set 11, p. 253
<b>ACI Provisions for Shear Design (Table 3-8)</b> .....	Note Set 11, p. 257
<b>Minimum Thickness for Two-Way Slab Systems</b> .....	Note Set 11, p. 262
<b>Maximum Permissible Calculated Deflections (Table 24.2.2 ACI-318)</b>	Note Set 11, p. 266
<b>Material Properties of the Base Material of Fabrics</b> .....	Note Set 13.1, p. 268
<b>Properties of Fabrics</b> .....	Note Set 13.1, p. 270
<b>Mechanical Properties of Common Fabrics</b> .....	Note Set 13.1, p. 272
<b>Design Wind Pressures (Method 2)</b> .....	Note Set 15.2, pp. 285 -287
<b>Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake, and Ice Loads</b> .....	Note Set 15.2, p. 288

## **Basic Wind Speeds for Occupancy Category II Buildings and Other Structures**

.....	Note Set 15.2, p. 289
<b>Basic Gust Wind Speed (Residential)</b> .....	Note Set 15.3, p. 292
<b>Classification of (Residential) Building Enclosure Conditions</b> .....	Note Set 15.3, p. 292
<b>Lateral Wind Loads for Application to Vertical Projected (Residential) Wall and Roof Area</b> .....	Note Set 15.3, p. 293
<b>Wind Uplift Loads for Application to (Residential) Roof System Horizontal Projected Area</b> .....	Note Set 15.3, p. 293
<b>Design Wind Pressure for (Residential) Components and Cladding</b> ..	Note Set 15.3, p. 294
<b>Richter Magnitude</b> .....	Note Set 16.2, p. 311
<b>Summary of Building Code Seismic Design Concepts</b> .....	Note Set 16.2, p. 318
<b>Values of Site Coefficient <math>F_a</math></b> .....	Note Set 16.4, p. 327
<b>Values of Site Coefficient <math>F_v</math></b> .....	Note Set 16.4, p. 328
<b>Seismic Design Categories Based on Short Period (0.2 Second) Response Accelerations</b> .....	Note Set 16.4, p. 328
<b>Seismic Design Categories Based on 1-Second) Response Acceleration</b>	Note Set 16.4, p. 328
<b>Risk Targeted Maximum Considered Earthquake Ground Motion Response Accelerations of 0.2-Second Spectral Response Accelerations</b> .....	Note Set 16.4, p. 329
<b>Risk Targeted Maximum Considered Earthquake Ground Motion Response Accelerations of 1-Second Spectral Response Accelerations</b> .....	Note Set 16.4, p. 330
<b>Seismic - Structural System Characteristics</b> .....	Note Set 16.4, pp. 331-332
<b>Occupancy Category of Buildings and Other Structures</b> .....	Note Set 16.6, p. 340
<b>Importance Factor for Seismic Coefficient</b> .....	Note Set 16.6, p. 340
<b>Seismic Zone Factor</b> .....	Note Set 16.6, p. 340
<b>Seismic Response Modification Factor for Structural Systems</b> .....	Note Set 16.6, p. 340
<b>Timber Bearing Wall Resistance (<math>R</math>)</b> .....	Note Set 16.6, p. 342
<b>Available Shear Strength of Bolts (Table 7-1)</b> .....	Note Set 17.1, p. 349
<b>Available Shear Strength of Slip-Critical Connections (Table 7-3)</b> ....	Note Set 17.1, p. 349
<b>Available Bearing Strength at Bolt Holes Based on Bolt Spacing (Table 7-4)</b> .....	Note Set 17.1, p. 350
<b>Available Bearing Strength at Bolt Holes Based on Edge Distance (Table 7.5)</b> .....	Note Set 17.1, p. 351
<b>Minimum Size of Fillet Welds</b> .....	Note Set 17.1, p. 353

<b>Available Strength of Fillet Welds</b> .....	Note Set 17.1, p. 353
<b>Load Duration Factor, <math>C_D</math></b> .....	Note Set 19.1, p. 368
<b>Common Allowable Deflection Limits</b> .....	Note Set 19.1, p. 370
<b>Column Stability Factor, <math>C_p</math></b> .....	Note Set 19.1, p. 376
<b>Section Property/Standard Sizes of Glued Laminated Timber</b> .....	Note Set 19.1, p. 377
<b>Section Properties of Southern Pine GLULAM</b> .....	Note Set 19.1, pp. 378-379
<b>ASD Beam Design Flow Chart</b> .....	Note Set 19.1, p. 380
<b>Equivalent Glulam Sections for Dimension Lumber/Timber Beams</b> ..	Note Set 19.2, p. 392
<b>Equivalent Glulam Sections for Steel Beams</b> .....	Note Set 19.2, p. 393
<b>Equivalent Glulam Sections for Laminated Veneer Lumber (LVL)</b> ..	Note Set 19.2, p. 393
<b>Equivalent Glulam Sections for Parallel Strand Lumber (PSL)</b> .....	Note Set 19.2, p. 393
<b>Roof Beams – Construction Loads (Douglas Fir-Larch Glulam)</b> .....	Note Set 20, p. 407
<b>Safe Loads for Wood Columns</b> .....	Note Set 20, p. 408
<b>Allowable Shear in Pounds per Foot for Horizontal Wood Structural Panel Diaphragms with Framing of Douglas-Fir Larch or Southern Pine</b> .....	Note Set 20, p. 409
<b>Allowable Shear for Wind or Seismic Forces in Pounds per Foot for Wood Structural Panel Shear Walls with Framing of DFL or Southern Pine</b> .....	Note Set 20, p. 411
<b>Common Allowable Deflection Limits</b> .....	Note Set 21.1, p. 419
<b>Listing of W Shapes in Descending order of <math>Z_x</math> for Beam Design</b> .....	Note Set 21.1, pp. 431-432
<b>Available Critical Stress, <math>\phi F_{cr}</math>, for Compression Members</b> .....	Note Set 21.1, pp. 433-434
<b>Beam Design Flow Chart for Steel</b> .....	Note Set 21.1, p. 435
<b>Allowable Flexural Tensile Stresses for Clay and Concrete Masonry</b>	Note Set 23.1, p. 487
<b>Balanced Section Properties for Rectangular Masonry Sections with Tension Reinforcement</b> .....	Note Set 23.1, p. 490
<b>Section Properties for Concrete Masonry Walls</b> .....	Note Set 23.1, pp. 492-494
<b>Presumptive Bearing Capacities from Indicated Building Codes</b> .....	Note Set 24.1, p. 502
<b>Supervision Practices (International Building Code 2003)</b> .....	Note Set 28.1, pp. 519-522