

Table of Reference Figures and Charts

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

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

Basic Wind Speeds for Occupancy Category II Buildings and Other Structures

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

Available Strength of Fillet Welds	Note Set 17.1, p. 353
Load Duration Factor, C_D	Note Set 19.1, p. 368
Common Allowable Deflection Limits	Note Set 19.1, p. 370
Column Stability Factor, C_p	Note Set 19.1, p. 376
Section Property/Standard Sizes of Glued Laminated Timber	Note Set 19.1, p. 377
Section Properties of Southern Pine GLULAM	Note Set 19.1, pp. 378-379
ASD Beam Design Flow Chart	Note Set 19.1, p. 380
Equivalent Glulam Sections for Dimension Lumber/Timber Beams ..	Note Set 19.2, p. 392
Equivalent Glulam Sections for Steel Beams	Note Set 19.2, p. 393
Equivalent Glulam Sections for Laminated Veneer Lumber (LVL) ..	Note Set 19.2, p. 393
Equivalent Glulam Sections for Parallel Strand Lumber (PSL)	Note Set 19.2, p. 393
Roof Beams – Construction Loads (Douglas Fir-Larch Glulam)	Note Set 20, p. 407
Safe Loads for Wood Columns	Note Set 20, p. 408
Allowable Shear in Pounds per Foot for Horizontal Wood Structural Panel Diaphragms with Framing of Douglas-Fir Larch or Southern Pine	Note Set 20, p. 409
Allowable Shear for Wind or Seismic Forces in Pounds per Foot for Wood Structural Panel Shear Walls with Framing of DFL or Southern Pine	Note Set 20, p. 411
Common Allowable Deflection Limits	Note Set 21.1, p. 419
Listing of W Shapes in Descending order of Z_x for Beam Design	Note Set 21.1, pp. 431-432
Available Critical Stress, ϕF_{cr}, for Compression Members	Note Set 21.1, pp. 433-434
Beam Design Flow Chart for Steel	Note Set 21.1, p. 435
Allowable Flexural Tensile Stresses for Clay and Concrete Masonry	Note Set 23.1, p. 489
Balanced Section Properties for Rectangular Masonry Sections with Tension Reinforcement	Note Set 23.1, p. 492
Section Properties for Concrete Masonry Walls	Note Set 23.1, pp. 494-496
Presumptive Bearing Capacities from Indicated Building Codes	Note Set 24.1, p. 504
Supervision Practices (International Building Code 2003)	Note Set 28.1, pp. 521-524