Table of Reference Figures and Charts

Supports for Co-planar Structures ................................................................. Note Set 2.1, 9
Geometric Properties of Areas ........................................................................ Note Set 2.1, 12
Elastic Moduli of Selected Materials ............................................................... Note Set 2.3, 5
Coefficients of Thermal Expansion ................................................................ Note Set 2.3, 8
Theoretical and Recommended Effective Length Factors ............................... Note Set 2.3, 10
Factors for Conversion of Units ...................................................................... Note Set 2.3, 1
Units of Measurement: SI System .................................................................. Note Set 2.3, 1
Units of Measurement: U.S. System ................................................................. Note Set 2.3, 2
IBC Example: Allowable Height and Building Areas ..................................... Note Set 3.1, 3
IBC Example: Fire-resistance Rating Requirements for Building Elements .... Note Set 3.1, 4
IBC Example: Fire-resistance Rating Requirements for Exterior Walls based on Fire Separation Distance ............................................................. Note Set 3.1, 4
International Building Code Adoption Map .................................................... Note Set 3.1, 7
Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake, and Ice Loads ................................................................. Note Set 3.2, 2
Building Material Weights .............................................................................. Note Set 3.3, 1-2
Minimum Uniformly Distributed Live Loads, \( L_o \), and Minimum Concentrated Live Loads .................................................................................. Note Set 3.4, 1
Live Load Element Factor, \( K_{LL} \) ................................................................... Note Set 3.4, 1
Ground Snow Loads, \( p_s \), for the United States ............................................. Note Set 3.4, 2
Beam Diagrams and Formulas (for various static loading conditions) .......... Note Set 4.1
Live Load Element Factor, \( K_{LL} \) ................................................................... Note Set 8.1, 1
Reduction Multiplier (RM) for Live Load ......................................................... Note Set 8.1, 2
Moment and Shear Coefficients for Continuous Beams and One-Way Slabs .................................................................................. Note Set 8.1, 3
Minimum Thickness for Two-Way Slab Systems .......................................... Note Set 8.1, 4
Moment Coefficients for Two-Way Slab Systems .......................................... Note Set 8.1, 7-8
Openings Permitted in Slab Systems without Beams ...................................... Note Set 8.3, 2
Bending Moment (Coefficients) in Rectangular Plates .................................. Note Set 8.4, 1
ASTM Standard Reinforcing Bar Information ................................................. Note Set 10.1, 5
Maximum Reinforcement Ratio $\rho$..............................................................Note Set 10.1, 7
Strength Curves ($R_n$ vs $\rho$) for singly reinforced rectangular sections...Note Set 10.1, 7
Minimum Thickness of Nonprestressed Beams or One-way Slabs unless Deflections are
Computed (Table 9.5a) ..................................................................................Note Set 10.1, 9
ACI Provisions for Shear Design (Table 3-8)..................................................Note Set 10.1, 10
Alignment Chart for Effective Length of Columns in Continuous Frames
..........................................................................................................................Note Set 10.1, 14
Factored Moment Resistance of Concrete Beams, $\phi M_n$ with $f'_{c} = 4$ ksi, $f'_{y} = 60$ ksi
..........................................................................................................................Note Set 10.1, 15
Beam / One-Way Slab Design Flow Chart ..................................................Note Set 10.1, 16-17
Dimensions of Forms for One-Way Joist Construction ..............................Note Set 10.3, 1
Dimensions of Forms for Two-Way Joist Construction ..............................Note Set 10.3, 2
Total Areas for Various Numbers of Reinforcing Bars ..............................Note Set 10.4, 1
Areas of Bars per Foot Width of Slab – $A_s$..................................................Note Set 11, 4
Maximum Permissible Computed Deflections (Table 9.5b ACI-318).....Note Set 11, 4
Material Properties of the Base Material of Fabrics .................................Note Set 13.1, 2
Properties of Fabrics ......................................................................................Note Set 13.1, 4
Mechanical Properties of Common Fabrics ..............................................Note Set 13.1, 6
Design Wind Pressures (Method 2).............................................................Note Set 15.2, 1-3
Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake, and
Ice Loads ........................................................................................................Note Set 15.2, 4
Basic Wind Speeds for Occupancy Category II Buildings and Other Structures
..........................................................................................................................Note Set 15.2, 5
Classification of (Residential) Building Enclosure Conditions ..............Note Set 15.3, 2
Lateral Wind Loads for Application to Vertical Projected (Residential) Wall and Roof
Area ................................................................................................................Note Set 15.3, 3
Wind Uplift Loads for Application to (Residential) Roof System Horizontal Projected Area
..........................................................................................................................Note Set 15.3, 3
Design Wind Pressure for (Residential) Components and Cladding .....Note Set 15.3, 4
Richter Magnitude ..........................................................................................Note Set 16.2, 5
Summary of Building Code Seismic Design Concepts ...........................Note Set 16.2, 12
Values of Site Coefficient $F_a$......................................................................Note Set 16.4, 1
Values of Site Coefficient $F_v$ ..............................................................Note Set 16.4, 2
Seismic Design Categories Based on Short Period (0.2 Second) Response Accelerations ..............................................................Note Set 16.4, 2
Seismic Design Categories Based on 1-Second) Response Acceleration .Note Set 16.4, 2
Risk Targeted Maximum Considered Earthquake Ground Motion Response Accelerations of 0.2-Second Spectral Response Accelerations .................Note Set 16.4, 3
Risk Targeted Maximum Considered Earthquake Ground Motion Response Accelerations of 1-Second Spectral Response Accelerations .................Note Set 16.4, 4
Occupancy Category of Buildings and Other Structures .........................Note Set 16.6, 2
Importance Factor for Seismic Coefficient ............................................Note Set 16.6, 2
Seismic Zone Factor ..............................................................................Note Set 16.6, 2
Seismic Response Modification Factor for Structural Systems...............Note Set 16.6, 2
Available Shear Strength of Bolts (Table 7-1) .....................................Note Set 17.1, 7
Available Shear Strength of Slip-Critical Connections (Table 7-3) .........Note Set 17.1, 7
Available Bearing Strength at Bolt Holes Based on Bolt Spacing (Table 7-4)
........................................................................................................Note Set 17.1, 8
Available Bearing Strength at Bolt Holes Based on Edge Distance (Table 7.5)
........................................................................................................Note Set 17.1, 9
Minimum Size of Fillet Welds.................................................................Note Set 17.1, 11
Available Strength of Fillet Welds ........................................................Note Set 17.1, 11
Load Duration Factor, $C_D$ ..................................................................Note Set 19.1, 2
Common Allowable Deflection Limits ....................................................Note Set 19.1, 2
Column Stability Factor, $C_p$ .................................................................Note Set 19.1, 9
Section Property/Standard Sizes of Glued Laminated Timber ..............Note Set 19.1, 10
ASD Beam Design Flow Chart ..............................................................Note Set 19.1, 11
Equivalent Glulam Sections for Dimension Lumber/Timber Beams .......Note Set 19.2, 12
Equivalent Glulam Sections for Steel Beams ........................................Note Set 19.2, 13
Equivalent Glulam Sections for Laminated Veneer Lumber (LVL) .....Note Set 19.2, 13
Equivalent Glulam Sections for Parallel Strand Lumber (PSL) ..........Note Set 19.2, 13
Roof Beams – Construction Loads (Douglas Fir-Larch Glulam) .........Note Set 20, 4
Allowable Shear in Pounds per Foot for Horizontal Wood Structural Panel Diaphragms with Framing of Douglas-Fir Larch or Southern Pine .........Note Set 20, 6
Allowable Shear for Wind or Seismic Forces in Pounds per Foot for Wood Structural Panel
Shear Walls with Framing of Douglas-Fir Larch or Southern Pine    Note Set 20, 8
Common Allowable Deflection Limits ..................................................Note Set 21.1, 5
Beam Design Flow Chart for Steel ......................................................Note Set 21.1, 17
Listing of W Shapes in Descending order of Z, for Beam Design ..........Note Set 21.1, 18-19
Available Critical Stress, $\phi F_{cr}$, for Compression Members ............Note Set 21.1, 20-21
Allowable Flexural Tensile Stresses for Clay and Concrete Masonry ....Note Set 23.1, 3
Balanced Section Properties for Rectangular Masonry Sections with Tension
Reinforcement .................................................................Note Set 23.1, 6
Section Properties for Concrete Masonry Walls.................................Note Set 23.1, 8-10
Presumptive Bearing Capacities from Indicated Building Codes ..........Note Set 24.1, 4