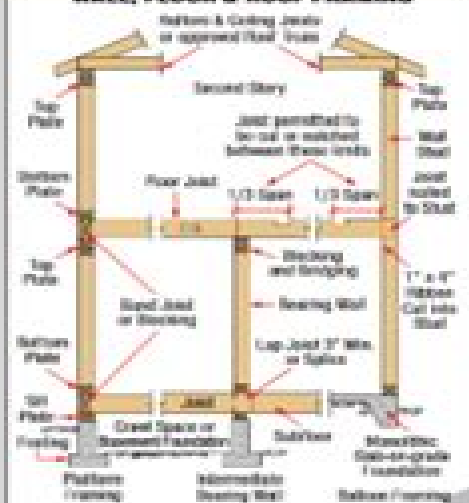




FOOTINGS & FOUNDATIONS

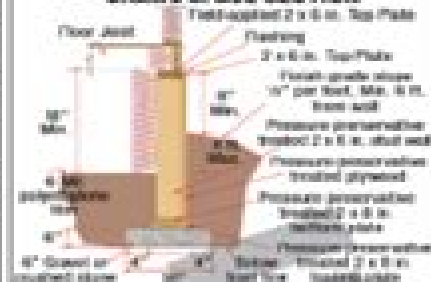
WALL, FLOOR & ROOF FRAMING



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- All exterior walls must be supported on continuous and/or fully grouted masonry or concrete footings, crushed stone footings, wood foundations or other approved structural systems.
- Footing must be able to accommodate all loads and transmit the resulting loads to the soil within the limitations as determined from the character of the soil.
- Footings must be supported on undisturbed natural soils or engineered fill.
- The footing width must be based on the load-bearing value of soil.
- Footing Width (W) and Thickness (T): must comply with Tables A4023.1(T) through A4023.3 (T) and Figure A4023.1(T) or A4023.1.3.
- Footing Depth: 12" Min. below the undisturbed ground surface.
- Footing Projections (P): 2" Min. and must not exceed the thickness of the footing.
- The top surface of footings must be level.
- The slope of the bottom surface of footings must not exceed 1 unit vertical in 10 units horizontal (1:10) (10% slope) Max. slope.
- Footings must be stepped where it is necessary to change the elevation of the top surface of the footings, or where the slope of the bottom surface of the footings will exceed 1 unit vertical in 10 units horizontal (10% slope).
- Footings must be protected from frost.

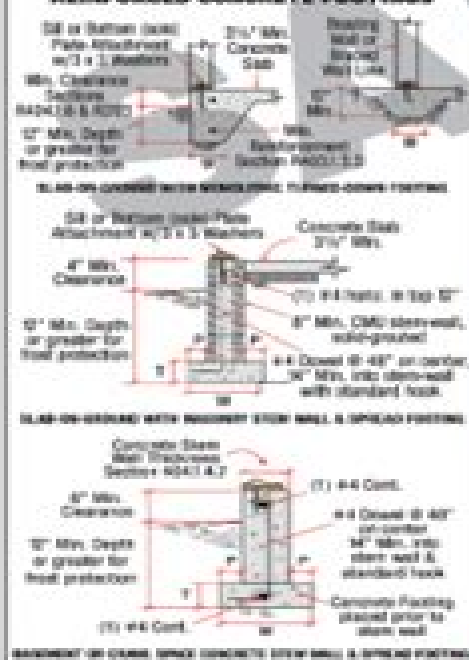
PERMANENT WOOD FOUNDATION
CRANK SPACE SECTION



TESTING FOR WOOD FOUNDATIONS

- Footings for wood foundations must comply with Figure M202.102 and M202.103.
- Ground must be worked and well graded.
- The max. size stone that is not passed 3/4".
- Ground must be free from organic, clayey or silty soil.
- Sand must be coarse, not smaller than 1/8" grains and must be free from organic, clayey or silty soils.
- Graded stone must have a max. size of 1 1/2".

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MINIMUM WIDTH AND THICKNESS FOR CONCRETE FOOTINGS FOR
LIGHT FRAME CONSTRUCTION (inches)

Seismic Load or Roof Live Load	Story and Type of Structure with Light Frame	Load-Bearing Value of Wall (psf)					
		1980	2000	2005	2010	2015	2020
20 psf	1 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—gable basement	58 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—with covered space	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—gable basement	57 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—stick-on-gable	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—with covered space	58 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—gable basement	57 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
30 psf	1 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—gable basement	58 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
50 psf	1 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—with covered space	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	1 story—gable basement	57 + 6	58 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	2 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	3 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—stick-on-gable	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—with covered space	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6
	4 story—gable basement	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6	57 + 6

Notes: Data are unweighted means. For descriptive results see 2008 International Survey of Adult Skills, Table A.10.1.

Wood Framing Construction Manual

Keith F. Faherty



Wood Framing Construction Manual:

WFCM, 2001 *2012 Wood Frame Construction Manual Commentary, Web Version*, 2012-01-13 The 2012 Wood Frame Construction Manual WFCM for One and Two Family Dwellings was developed by the American Wood Council's AWC Wood Design Standards Committee and is referenced in the 2012 International Building Code and 2012 International Residential Code Tabulated engineered and prescriptive design provisions in WFCM Chapters 2 and 3 respectively are based on the following loads from ASCE 7-10 Minimum Design Loads for Buildings and Other Structures 0-70 psf ground snow loads 110-195 mph 700 year return period 3 second gust basic wind speeds Seismic Design Categories A-D The WFCM includes design and construction provisions for connections wall systems floor systems and roof systems A range of structural elements are covered including sawn lumber structural glued laminated timber wood structural sheathing I joists and trusses

Commentary WFCM, 2001 **Wood Frame Construction Manual for One- and Two-family Dwellings** American national standards institute, 2011 **Wood Frame Construction Manual Workbook** American Wood Council, American Forest & Paper Association, 2004-08-01 Design of Wood Frame Buildings for High Wind Snow and Seismic Loadings WFCM Workbook provides a design example typical checklist and background information related to design of a wood frame structure in accordance with AFPA's Wood Frame Construction Manual WFCM for One and Two Family Dwellings 2001 Edition The design example uses plans from a 2 story residence as the basis for a structural design to resist wind seismic and snow loads **WFCM** American Wood Council, 2015 **2024 Wood Frame Construction Manual with Commentary 2 Volume Set Print Version**, 2024-12-20 **Wood Frame Construction Manual**, 2001 **Commentary Wood Frame Construction Manual**, 2001 **Manual for Wood Frame Construction** American Forest & Paper Association, 1990

2015 Wood Frame Construction Manual Commentary, 2015-11 WFCM Commentary, 2001 *WFCM* American Forest & Paper Association, American Wood Council, 2012 **Construction Manual: Concrete & Formwork** T. W. Love, 1973 Concrete as a building material Concrete mix compounds Proportioning concrete mix Excavation Laying out the building Design of concrete forms Form materials and how to use them Construction of pier and footing forms Construction of foundation wall forms Formwork for openings in concrete walls Formwork for steps Formwork for floors and sidewalk slabs How to make beam and girder forms Forms for arched openings Handling and placing concrete Finishing concrete Curing and patching concrete Effects of temperature Reinforced concrete construction Precast concrete Cleaning concrete and masonry methods Appendix A Method of making slump test for consistency of Portland cement concrete Appendix B Estimating quantities and labor hours for concrete forms and reinforcing **2012 Wood Frame Construction Manual Workbook**, 2012-01-13 **Olin's Construction** H. Leslie Simmons, 2011-12-20 Get the updated industry standard for a new age of construction For more than fifty years Olin's Construction has been the cornerstone reference in the field for architecture and construction professionals and students This new edition is an invaluable resource that will provide in depth

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