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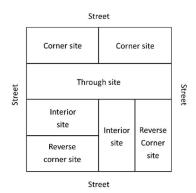
Do I need a permit to build my shed?

What size of shed are you building?

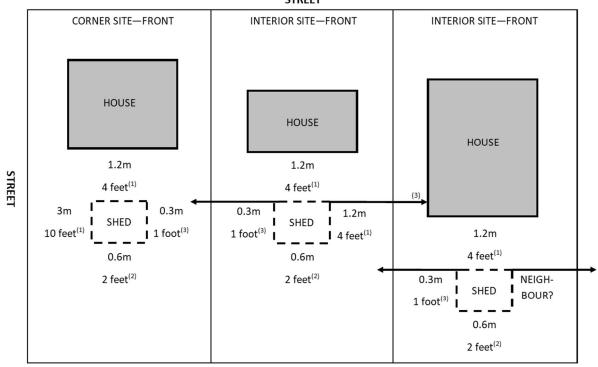
A permit is not required if the proposed shed is less than 107 square feet (10 square meters) in area. However, you must follow the Manitoba Building Code and City of Brandon Zoning Bylaw rules below.

Where can I build my shed?

Interior and Corner Sites



- 25 feet (7.6m) from front property line
- May be as close as 2 feet (0.6m) to rear property lines
 eaves no closer than 1 foot (0.3m)
- ☐ Side yard setbacks can vary depending on the type of site you have and how your neighbours home is placed relative to your home. See below for more information.
- Shed must be setback at least 4 feet (1.2m) from house regardless of which side the shed is placed on **STREET**



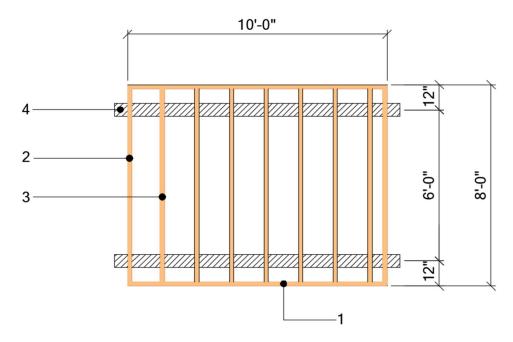
- (1) Eaves may project 2 feet (0.6m) into required setback
- (2) Eaves cannot be any closer than 1 foot (0.3m) to rear property line
- (3) If the shed wall is behind house, and nearest neighbours house, 1 foot (0.3m) side yard setback (including eaves). If the shed wall is located beside the nearest neighbours house; a 4 foot (1.2m) side yard setback is required.

How do	I build my shed?	
What si	ze of shed are you building?	
Length:		Width:
Height*	:	Area:
U	is measured from the ground to the im height allowed is 13 feet (4m) and ca	e midway point of the peak of the roof. The annot exceed the height of the house.
Can I use	e a mud sill or skids as a foundation?	
treat	•	5 square meters) in area you may use pressure ds), or a 100mm thick concrete floor slab as a
	Ground anchors must be installed to	resist wind up lift
	The underside of the floor must hav ground	e a minimum clearance of 6" (150mm) from the
The follo	wing best practices for wood skid found	dations are recommended but not required:
The witA g	h a minimum slope of 2% to prevent ware round cover of 6 mil polyethylene with er the whole area to prevent migration	graded from the center toward the outside
	e excavated site area should then be rounding grade	e filled with gravel to a level above the
(70 so	quare meters) you will require a concre	(55 square meters) but less than 753 square feet ete slab that is 6" (150mm) thick with a 12" x 12" accessory building handout for more details.
□ Shed	s greater than 753 square feet (70 squ	are meters) require foundations to be designed

by a Professional Engineer registered in the Province of Manitoba

How do I build my shed floor?

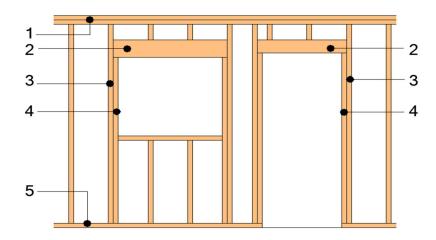
*Shed floor details described below are based on a 1-storey wood frame structure that do not include any additional loads.



- (1) Header Joist: floor joist (3) to be end nailed through header joist (1) to restrict twisting
- (2) Rim Joist: also known as an end/ribbon joist. Located at the end of shed floor system
- (3) Floor Joist:

FLOOR JOIST SPANS – DESIGN LIVE LOADS FOR 1.9 KPA (40 PSF)									
Commercial Designation	Grade	Joist Size (in)	Maximum Span (ft- in) Joist Spacing			Joist Size	Maximum Span (m) Joist Spacing		
			12 Inch	16 Inch	24 Inch	(mm)	300 mm	400 mm	600mm
-Spruce - Pine - Fir	No. 1 and No. 2	2 x 4	6-2	5-8	5-2	38 x 89	1.86	1.72	1.58
		2 x 6	9-7	8-10	8-2	38 x 140	2.92	2.71	2.49
		2 x 8	11-7	11-0	10-6	38 x 184	3.54	3.36	3.2

- ☐ A subfloor at least 5/8" (15.5mm) thick must be installed over the floor joists.
- (4) 6x6 (140 x 140mm) Pressure Treated Skid: skids must be pressure treated and anchored to the ground



- (1) Double Top Plate: joints must be staggered at least one stud space and lapped at all corners
- (2) Lintel:

WOOD LINTEL SPANS FOR WINDOWS AND DOORS							
Commercial Designation	Grade	Size of Lintels	Allowable Spans				
- Spruce - Pine - Fir	No. 1 and No. 2	2 – 2 x 4 (38 X 89 mm)	3′11″ (1.19m)				
		2 - 2 x 6 (38 x 140 mm)	5′10″ (1.79m)				
		2 - 2 x 8 (38 x 184 mm)	7′2″ (2.18m)				

^{*}Built up lintels must be full-length members. Do not splice lintels between supports.

(3) Common Stud: to be spaced 16" (400mm) or 24" (600mm) on center. One continuous common stud is to be located on each side of a window or door opening

SIZE AND SPACING OF STUDS								
Type of Wall	Supported Loads	Minimum Size	Maximum Spacing	Maximum Unsupported Height				
		2 x 3	16 inch	7′10″				
Exterior	Roof with or without attic	(38 X 64 mm)	(400mm)	(2.4m)				
LATERIO		2 x 4	24 inch	9′10″				
		(38 x 89 mm)	(600mm)	(3.0m)				

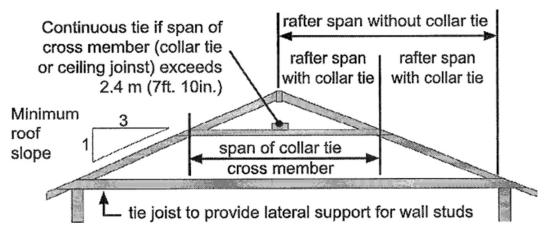
- (4) Trimmer Stud: to run from the top of the bottom plate to the underside of the lintel
- (5) Single Bottom Plate: to be anchored with 1/2" (12.7mm) diameter anchor bolts, at a maximum spacing of every 7'10" (2.4m) on center. An anchor bolt must be placed at each side of a door opening, and at each end of the wall. The bottom plate shall be pressure treated material or a layer of 6 mil poly shall be installed under the bottom plate.

How do I build my shed roof?

There are two basic methods for framing the shed roof. They are:

- ☐ Framing with pre-manufactured roof trusses
 - Roof Truss manufactures and suppliers will provide a truss framing plan (with layout and bracing details) that must be followed when installing the roof truss system.
- □ Conventional framing

Also known as stick framing. The figure below shows a typical cross section of a common or gable roof. The table below indicates the maximum rafter spans for various species and size of rafter. Note that the figure below makes use of collar ties as a means of reducing a full rafter span into two smaller spans. Collar ties can only be used in this fashion when the roof slope is 1 in 3 or greater.



Commerci al Designatio n	Grade	Membe r Size (in.)	Rafter Spacing				Rafter Spacing		
			12 in.	16 in.	24 in.	Member Size	300 mm	400 mm	600 mm
			Maximum Span feet-inch			(mm)	Maximum Span meters		
	No. 1 And No 2	2 x 4	9-4	8-6	7-5	38 x 89	2.86	2.59	2.27
- Douglas		2 x 6	14-9	13-5	10-11	38 x 140	4.49	4.08	3.34
- Fir		2 x 8	18-10	16-4	13-4	38 x 184	5.74	4.97	4.06
- Larch		2 x 10	23-0	19-11	16-3	38 x 235	7.02	6.08	4.96
		2 x 12	26-9	23-2	18-11	38 x 286	8.14	7.05	5.76
	No. 1 And No 2	2 x 4	8-11	8-1	7-1	38 x 89	2.72	2.47	2.16
- Spruce		2 x 6	14-0	12-9	11-2	38 x 140	4.28	3.89	3.40
- Pine - Fir		2 x 8	18-5	16-9	14-6	38 x 184	5.62	5.11	4.41
		2 x 10	23-7	21-5	17-8	38 x 235	7.18	6.52	5.39
		2 x 12	28-8	25-2	20-6	38 x 286	8.74	7.66	6.25

^{*}When using 24" (600mm) spacing with panel type roof sheathing less than 1/2" (12.7mm) thick, supports must be provided at each edge of the panel including those meeting at the ridge. You may use H-clips or solid blocking.