

Building Inspections:

**Alberton, Chapple,
LaVallee and Rainy River**

**CONSTRUCTION REQUIREMENTS
FOR EXTERIOR DECKS
(Part 9 Single Family Dwellings only)**

Circular concrete piers shall be a min. 10” diameter and extend a below frost.

Piers shall be placed on footing pads or be tapered out at the bottom to a minimum 20” to provide proper bearing and to resist uplift.

Footings or piers shall bear on undisturbed soil with a minimum bearing capacity if 1500 PSF (75 kPa).

Size of piers and footings may increase due to soil conditions or spacing.

Support posts for beams to be a minimum of 6” x 6” for all elevations over 5’11”

Anchorage to building with min. ½” diameter bolts spaced not more than 16” apart. Deck is not permitted to be supported on brick veneer.

Beam to post and post to base locations shall be securely fastened with connections to resist uplift and lateral movement.

Beam sizes and floor joist sizes may be determined from span tables below
(Note: Minimum permitted joist size is 2” x 8” if a guard is required)

Guard height of 36” is required if top of deck floor is between 24” and 71” above grade or guard height of 42” is required if top of deck floor exceeds 5’11” above grade. Guards shall be non-climbable and guard shall be constructed to prevent the passage of a 4” sphere through the guard

Provide handrail and guard on stairs if there are more than 3 risers.
Wood posts for guard to be minimum 4” x 4” (solid, no notching).

Note All deck guards shall be constructed as specified in the Ontario Building Code (O.B.C. SB-7 Supplementary Standard) or be designed by Part 4 of the O.B.C. (Engineered Drawings)

BEAM TABLE

Depth of Lintels	Maximum Allowable Spans
2 - 2” x 8”	5’ - 10”
2 - 2” x 10”	7’ - 2”
2 - 2” x 12”	8’ - 4”
3 - 2” x 8”	7’ - 6”
3 - 2” x 10”	9’ - 2”
3 - 2” x 12”	10’ - 8”

FLOOR JOIST SPAN TABLE

Joist Size	Spacing	Maximum Span
2” x 8”	12” o/c	11’ - 7”
	16” o/c	11’ - 0”
2” x 10”	12” o/c	13’ - 8”
	16” o/c	13’ - 0”
2” x 12”	12” o/c	15’ - 7”
	16” o/c	14’ - 10”

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Deck Blocks

Concrete Deck blocks can be used under the following conditions;

- 1 floor level maximum
- 55 m² maximum area
- 600 mm maximum height from ground level to u/s of floor joists
- no roof supported
- not attached to another structure unless shown that differential movement will not affect the structure

Deck blocks can support a maximum deck area of 25 square feet (i.e. 5' x 5')

General Notes

1. Site Plan sketch required showing all lot lines and dimensions, size and location of all existing buildings, proposed location and size of deck.
2. Cross section showing height of deck from ground & guard detail and SB-7 detail number.
3. Floor plan showing joist, beam, post footing & pier details.
4. All lumber used shall be stamped and graded No. 2 or better quality
5. All lumber used shall be decay resistant (pressure treated or cedar)
6. Maximum cantilever (overhang) for 2" x 8" joists is 16" and for 2" x 10" joists is 24"
7. 5/4" decking material is only permitted when supported by joists on 16" centers.

Sketches:

Enquiries may be directed to:
Henry Van Ael, CBCO
Building Inspector, Chief Building Official
Cell: 807-276-0473
Email: ambiscbo@gmail.com

Permit No. _____

**RESIDENTIAL DECK
DESIGN STATEMENT**

Building Inspections:

Alberton, Chapple, LaVallee and Rainy River

Supplemental information sheet to accompany construction drawings:

Location of Property: _____

General Project Information (Complete one sheet per level → level # _____ of _____.)

1. What are the overall dimensions of the deck? _____

2. What is the height from final grade to the top of the deck floor? _____ ft. _____ in.
3. If the deck will be built over sloping ground (any direction),
What is the maximum height from grade to the top of the deck floor? _____ ft. _____ in.
4. Will the deck be attached to a Building? yes no (please circle)
If yes, how far below grade are the footings of the Building? _____ ft. _____ in.
5. Please circle the type of soil at the site: clay sand other _____
6. Is the water table within 4 feet of the final grade? yes no (please circle)

Footings Information

1. What is the concrete pier diameter? 10 inch 12 inch other _____
2. How far below ground level will the concrete pier extend? _____
3. Size of pier base? _____ (Base of pier to be widened to provide footing.)
4. What will be the **maximum** pier spacing? _____ ft. _____ in. on centre.

Framing Information

1. What are the post sizes? _____ by _____ What is the post height? _____
2. What is the built-up beam size? 2" by _____ at 2ply 3ply 4ply (circle)
3. What size are the floor joists? 2" by _____ with a joist spacing of _____ inches on centre.
4. What is the joist span? _____ ft. _____ in. (Clear span between supports)
5. How far will the floor joists overhang the beam? _____ inches.
6. Please circle the type of decking material to be used: wood composite other _____
7. What is the thickness of the decking material? _____.

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