AMBIS - Area Municipal Building Inspection Service

Alberton, Chapple, La Vallee and Rainy River

CONSTRUCTION REQUIREMENTS FOR EXTERIOR DECKS

Circular concrete piers to be a min. 10” diameter and extend a minimum of 48” below finished grade.

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.

Size of piers 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 connections shall be securely fastened to resist uplift and lateral movement.

Beam sizes and floor joist sizes to be determined from span tables below
(Note: Minimum permitted joist size is 2” x 8”)

Guard height of 36” if top of deck exceeds 24” above grade or 42” if top of deck exceeds 5’11”. Guards shall be non-climbable and vertical balusters shall be spaced no more than 4” apart.

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

Note All deck guards shall meet the requirements of the O.B.C. SG-7 Supplementary Guidelines or be designed by Part 4 of the O.B.C. (Engineered Drawings)

BEAM TABLE FLOOR JOIST SPAN 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”

Deck Blocks

Deck blocks can be used under the following conditions;

- 1 storey maximum
- 55 m² maximum
- 600 mm maximum to u/s of floor joists
- no roof
- 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

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

Permit File No.- _____

RESIDENTIAL DECK DESIGN STATEMENT

Area Municipal Building Inspection Service Alberton, Chapple, La Vallee and Rainy River

Supplemental information sheet to accompany construction drawings.

Location of Property: _____

General Project Information (For multi-level decks, complete one sheet per level → level #____

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

2. What is the height (vertical distance) from final grade to the top of the decking? _____ ft._____ in.

3. If the deck will be built over sloping ground (any direction), what is the highest vertical distance from grade to the top of the decking? _____ ft. _____ in.

4. Will the deck be attached to the house? YES NO (please circle), If yes, how far below grade are the footings of the house? _____ 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 is the post size? _____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 please specify other: _____

7. What is the thickness of the decking material? _____.

Guards Information

1. What materials will the proposed guard be made of? _____

2. If the deck is more than 2 feet above final grade, what is the height of the proposed guard? _____ inches.

Stairs Information

1. What is the width of the stairs? _____ inches.

2. How many risers will there be? _____ Will the stairs have a landing? NO YES
If yes, please indicate length _____

3. If more than 3 risers, what is the proposed height of the hand rail? _____ inches.

Where the stairs have more than 6 risers, or the stairs in total are greater than 2 feet in vertical height, guards are required on all open sides of the stairs.

4. What is the height of the stair guard? _____inches

Additional Notes:

Designers Declaration;

I _____ am the;
Print Name

Property Owner ☐ or Agent for the Property Owner (Designer BCIN #) _____

Signature _____

Date:_____ Phone No._____