

CHRIS PRICE
TECHNICAL SERVICES OFFICER
BIMOSE TRIBAL COUNCIL

ONTARIO BUILDING CODE

- Used as a guide for advisory services
- Housing under Part 9
- Capable of supporting intended loads
- Sometimes "rules are grey"
- Allows for owner authority
- Discuss with your Tribal Council

ENTRANCES & DECKS ONTARIO BUILDING CODE

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http://www.e-
laws.gov.on.ca/html/regs/english/elaws regs
120332 e.htm
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ENTRANCES & DECKS HOUSING TYPE

THE TYPE OF ENTRANCE IS PRIMARILY DEPENDENT ON THE STYLE OR TYPE OF HOME



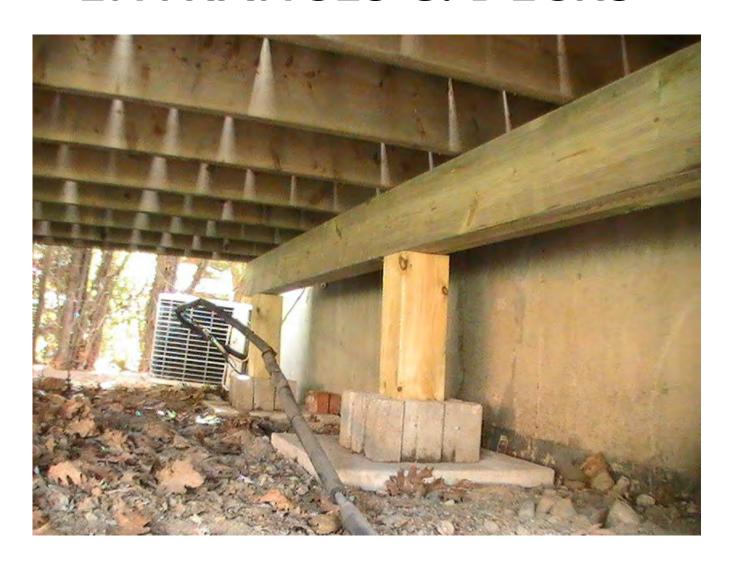


WILL THE ENTRANCE BE CONNECTED TO THE HOUSE??

FLOATING vs. CONNECTED

ENTRANCES & DECKS FLOATING

- Ledger board in NOT connected to the house
- Will move with seasonal frost heave
- For smaller decks that are not accessible
- For level sites

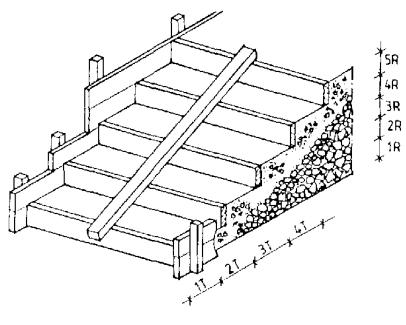


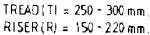
CONNECTED TO HOUSE

- Must have footing below frost
- Ledger board connection based on location, foundation and siding material

ENTRANCES TO HOMES

Concrete, cast in place or precast







ENTRANCES TO HOMES Steel

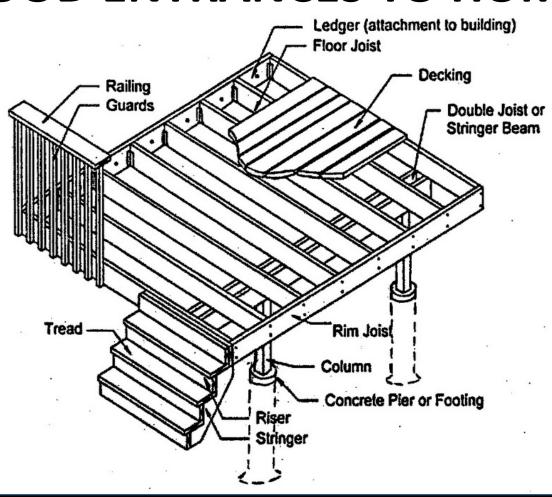


ENTRANCES & DECKS ENTRANCES TO HOMES Wood





WOOD ENTRANCES TO HOMES



ENTRANCES & DECKS WOOD ENTRANCES TO HOMES

Decks are built from the ground up BUT Designed from top down

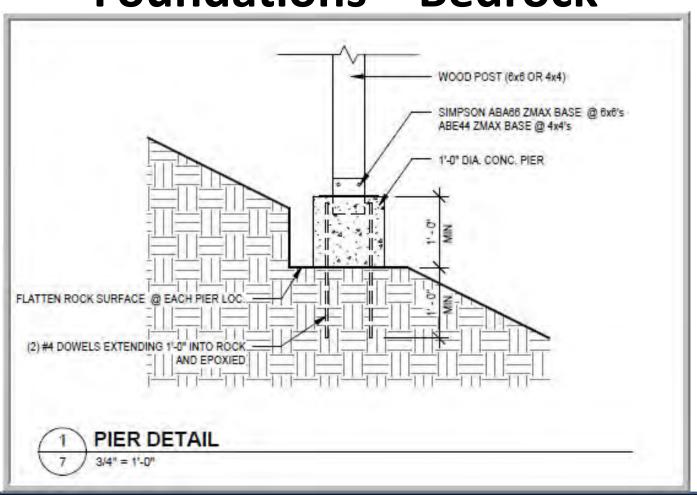
http://www.oshawa.ca/documents/BLDG Guide <u>Deck Construction.pdf</u>

ENTRANCES & DECKS WOOD ENTRANCES TO HOMES

Foundations – Deck Blocks



ENTRANCES & DECKS WOOD ENTRANCES TO HOMES Foundations – Bedrock



ENTRANCES & DECKS WOOD ENTRANCES TO HOMES

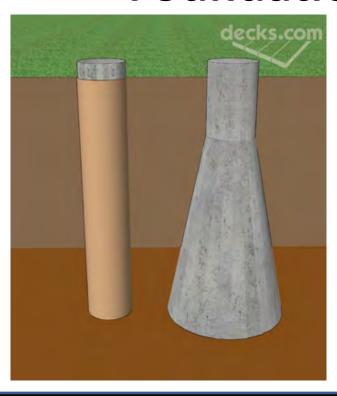
Foundations – Below Frost





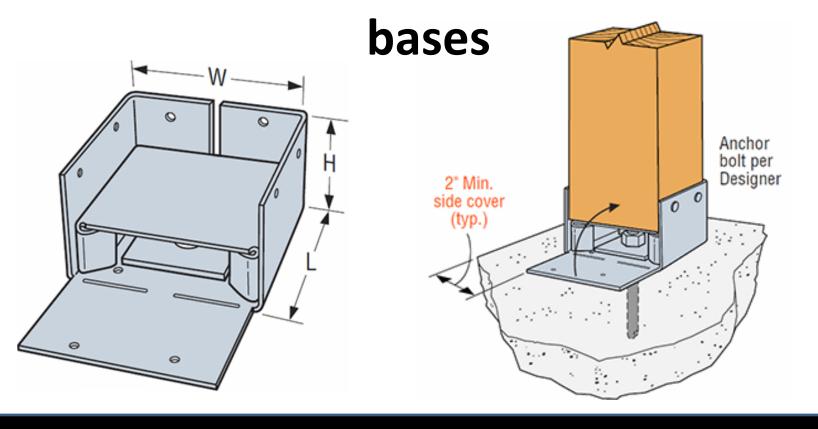
ENTRANCES & DECKS WOOD ENTRANCES TO HOMES

Foundations – Below Frost

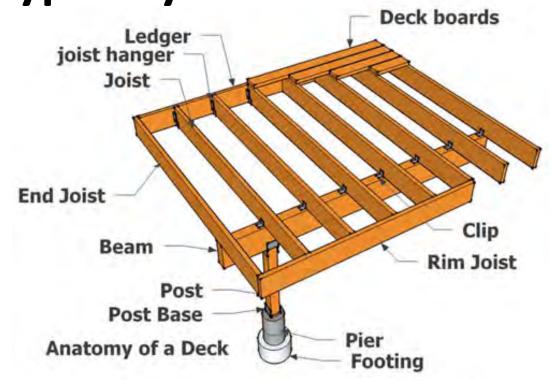




WOOD ENTRANCES TO HOMES Concrete to post connection – post



ENTRANCES & DECKS WOOD ENTRANCES TO HOMES Wood Framing – Structure OBC 9.23 Typically Pressure Treated

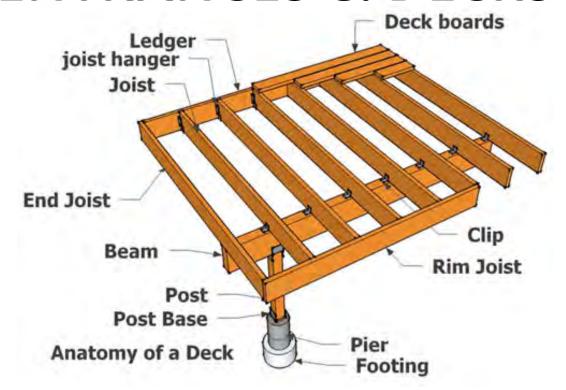


ENTRANCES & DECKS WOOD ENTRANCES TO HOMES

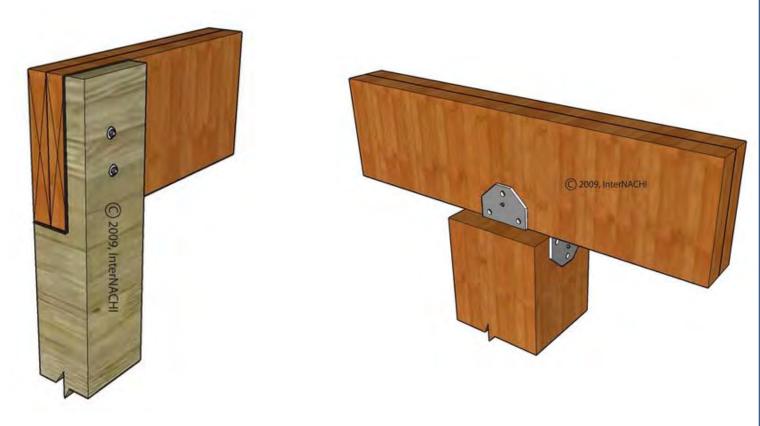


ENTRANCES & DECKS WOOD ENTRANCES TO HOMES





Posts – 4"x4", 6"x6"...etc



Posts – Beam Connections

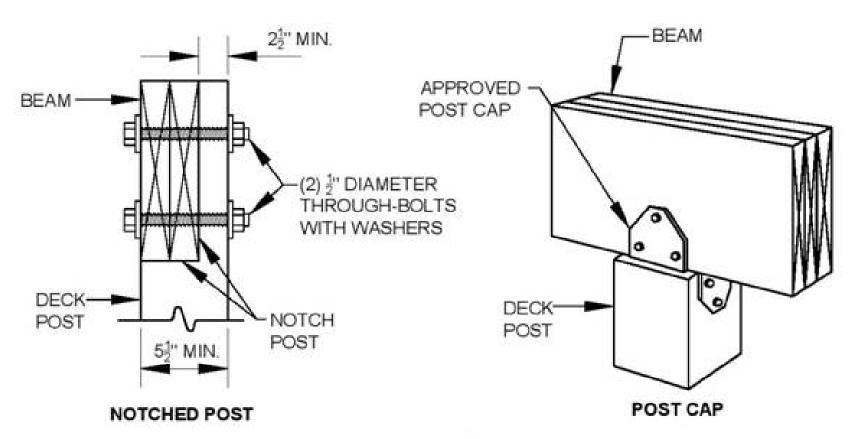
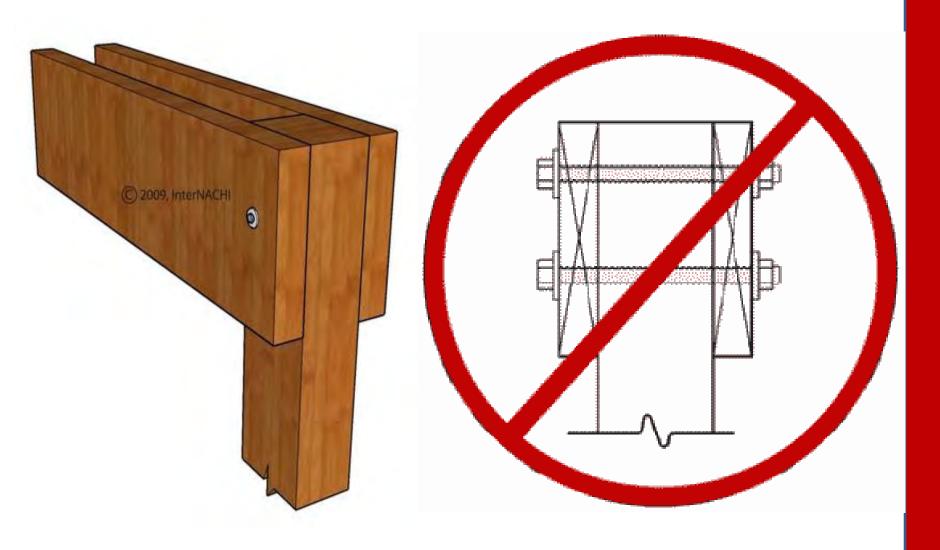
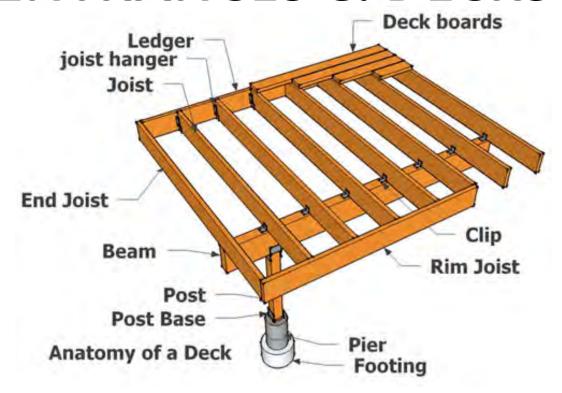


FIGURE R507.7.1 DECK BEAM TO DECK POST



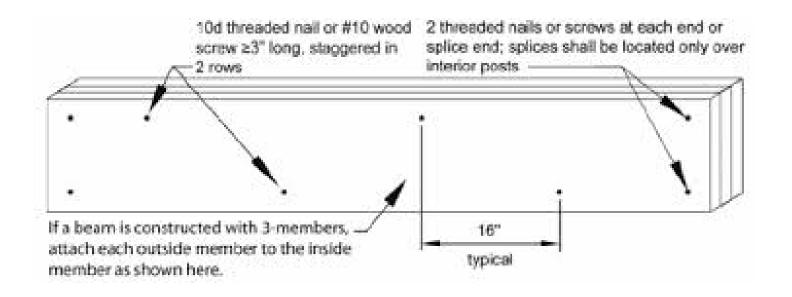


Built up Wood Beams OBC 9.23.8.3

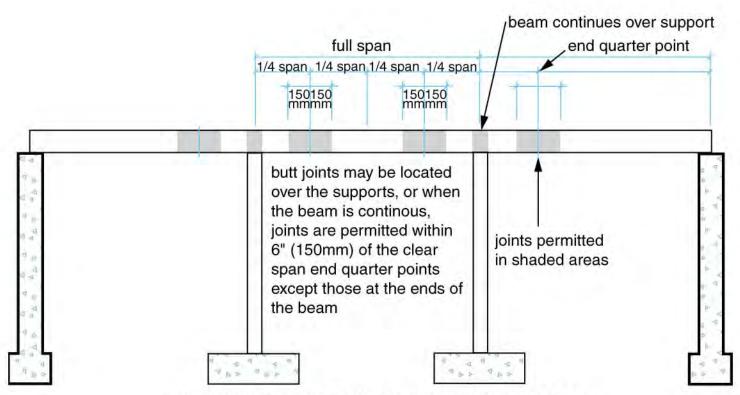
ENTRANCES & DECKS Built up Wood Beams OBC 9.23.8.3

- Joint shall occur over a support & shall not occur in adjacent members
- Shall be nailed together with a double row of nails not less than 89 mm in length, spaced not more than 450 mm apart in each row with the end nails located 100 mm to 150 mm from the end of each piece
- Allowed to be bolted too.

ENTRANCES & DECKS Built up Wood Beams OBC 9.23.8.3



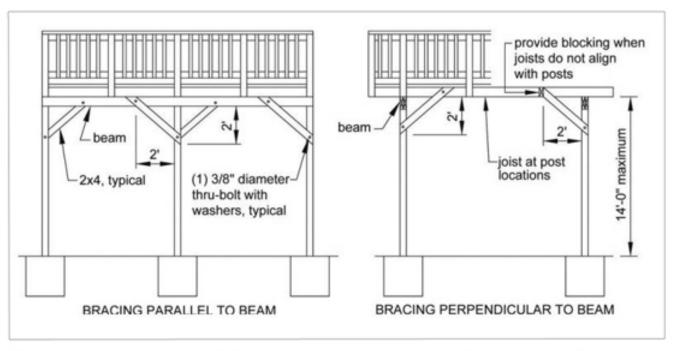
ENTRANCES & DECKS Built up Wood Beams OBC 9.23.8.3



PERMISSIBLE JOINT LOCATIONS IN BUILT-UP BEAMS

ENTRANCES & DECKS Cross Bracing

Diagonal Deck Bracing Requirements

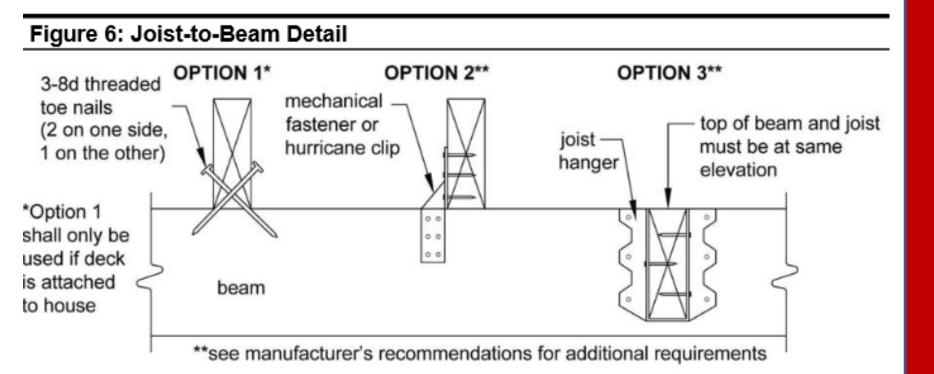


Source: Prescriptive Residential Deck Construction Guide Based on the 2006 IRC American Wood Council

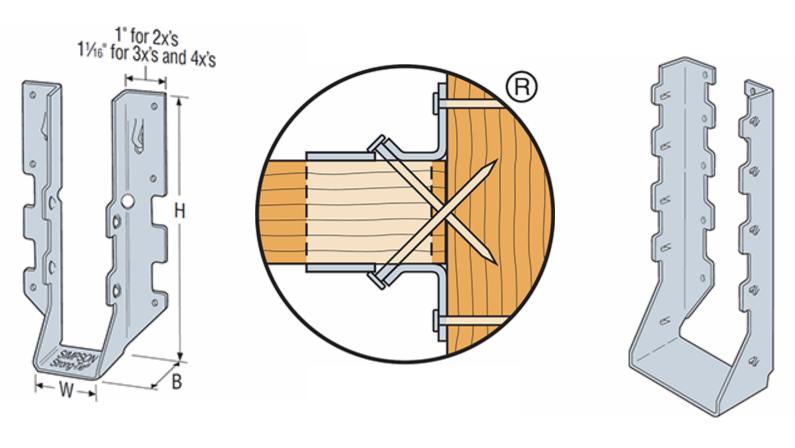
Joists OBC 9.23.8.3

- Floor joists may be supported on the tops of beams
- When framed into the side of a wood beam, joists shall be supported on joist hangers

Joists OBC 9.23.8.3



Joists OBC 9.23.8.3



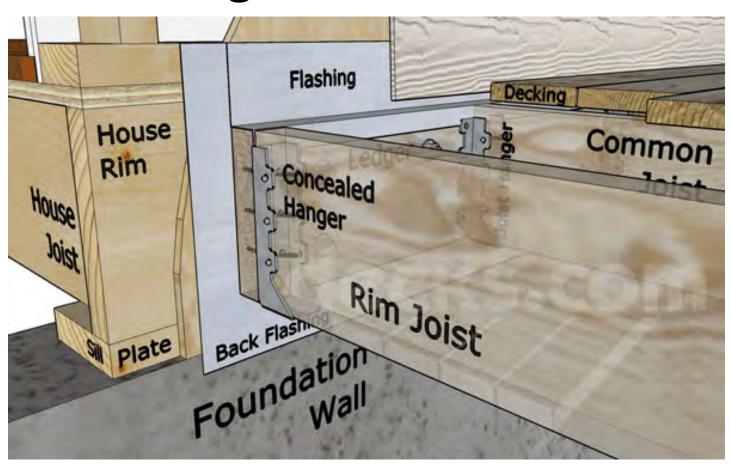
ENTRANCES & DECKSJoist Protection



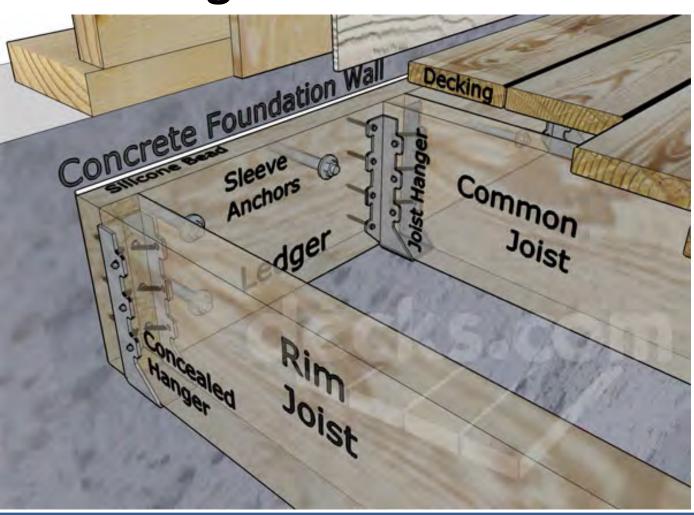
Ledger Connections

 Dependent on foundation type, siding type and where in elevation it is located on the exterior

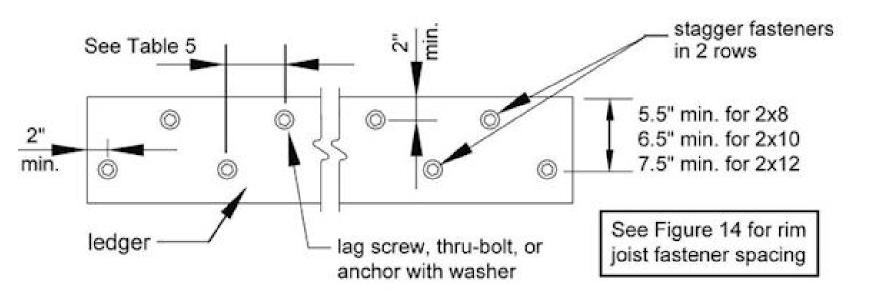
ENTRANCES & DECKSLedger Connections



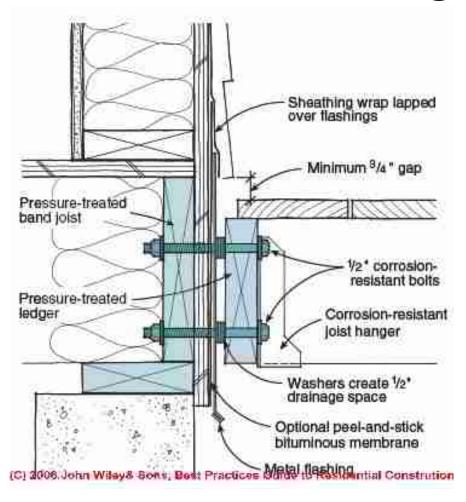
Ledger Connections



ENTRANCES & DECKSLedger Bolt Pattern



Ledger Connections – Drainage Space



Ledger Connections – Drainage Space





Ledger Connections – Drainage Space

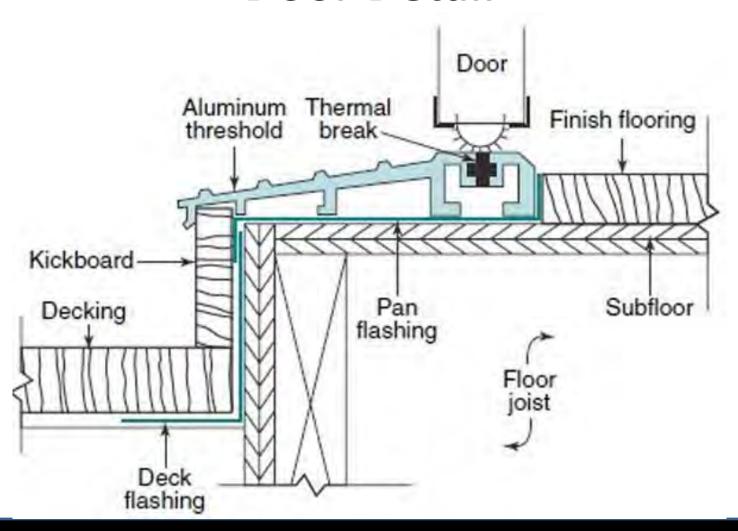




ENTRANCES & DECKS Door Detail



ENTRANCES & DECKS Door Detail



WOOD ENTRANCES TO HOMES Decking Options

- \$ Pressure Treated
- \$\$ Cedar Western Red
- \$\$\$ Composites Plastics
- \$\$\$\$ Exotic/Tropical Woods: teak, ipe, iron wood

STAIRS – OBC 9.8.2

- exterior stairs and required exit stairs serving a single dwelling unit, shall have a width of not less than 2'-9 3/4"
- Rise: Maximum 7 7/8", Minimum 4 15/16"
- Run: Maximum 13 15/16", Minimum 8 1/4"
- uniform height in any one flight with a maximum tolerance of 3/16" between adjacent treads

ENTRANCES & DECKS STAIRS – OBC 9.8.2



Stair throat minimum is 3-1/2" for a 2"x10"

HANDRAILS – OBC 9.8.7

- at least one required handrail shall be continuous throughout the length of the stair
- height of handrails on stairs and ramps shall be, not less than 34" and not more than 38"

GUARDS – OBC 9.8.7

 a guard is required on each side that is not protected by a wall for the length, where, there is a difference in elevation of more than 23 5/8" between the walking surface and the adjacent surface

GUARDS – OBC 9.8.7

- Height shall be not less than 35 7/16" high when the difference between adjacent surfaces is less than 6'.
- Height shall be not less than 42" high when the difference between adjacent surfaces is greater than 6'.

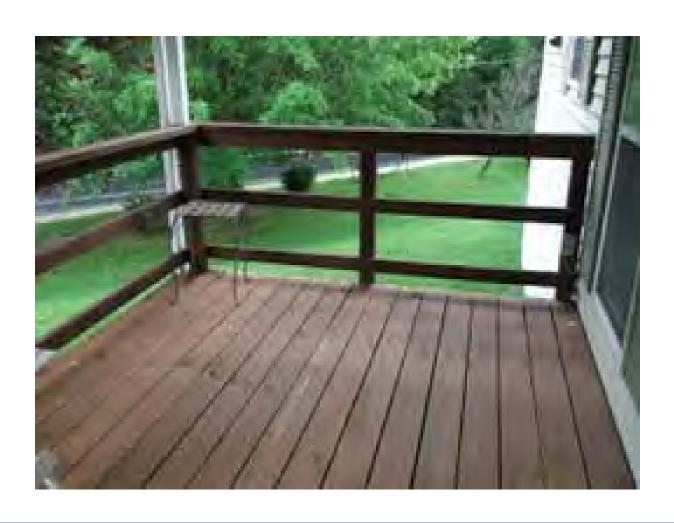
GUARDS – OBC 9.8.7

 shall be designed so that no member, attachment or opening located between 5 ½" and 35 7/16" above the floor or walking surface protected by the guard will facilitate climbing.

GUARDS – OBC 9.8.7

 openings through any guard that is required by Article 9.8.8.1. shall be of a size that will prevent the passage of a spherical object having a diameter of 3 15/16"

ENTRANCES & DECKS GUARDS



ENTRANCES & DECKS GUARDS

