



Building Code Requirements for Decks

(Reference appropriate page on Eden Prairies Deck Handout)

Building Inspections | City of Eden Prairie | 8080 Mitchell Road | Office: 952-949-8342

D1 All work shall be done to comply with the provisions of the 2020 MN Residential Code.

D2 Provide 5/4" min. structural rim board with foam insulation board towards interior side in areas where a future deck or porch could be attached. **(EP Deck Handout, Sheet #7)**

D3 All exterior openings, horizontal trim, ledger boards, wall/roof intersections shall be flashed & caulked in a manner to make them leak proof. **(EP Deck Handout, Sheet #7)**

D4 All connectors, fasteners, & flashings are required to be approved by the manufacturer for use with the new alkaline copper (ACQ) & copper azole (CBA-A & CA-B) treated lumbers. Consult & verify with vendor. **(EP Deck Handout, Sheet #7)**

D5 All alternative to wood decking products (Composite Materials) must be approved by the building department prior to installation. **(EP Deck Handout, Sheet #7)**

D6 Requirements for Lateral Bracing Hardware. **(EP Deck Handout, Sheet#8)**

D7 Post-Beam Connections: Where post & beam or girder construction is used, the design shall be in accordance with the provisions of this code. Positive connection shall be provided to ensure against uplift and lateral displacement. **(EP Deck Handout, Sheet #10, 1 ½" Min. Bearing)**

D8 Decks constructed more than 30" above grade are required to have diagonal sway bracing installed on underside of joists or other approved means of bracing to prevent sway. Note: Bracing is not required if decking material is approved for and is installed in a diagonal manner. **(EP Deck Handout, Sheet #1)**

D9 Guards shall be required on decks exceeding 30" above grade, shall be not less than 36" in height, and have spacing between the spindles that is less than 4". **(EP Deck Handout, Sheet #10)**

D10 Top of handrails to be mounted 34" to 38" above front edge of tread nosing, continuous full length of stairs and opened ends returned to newel post, guardrail or wall. Handrails must be grippable (see back of this page for details). **(EP Deck Handout, Sheet #11 & #14)**

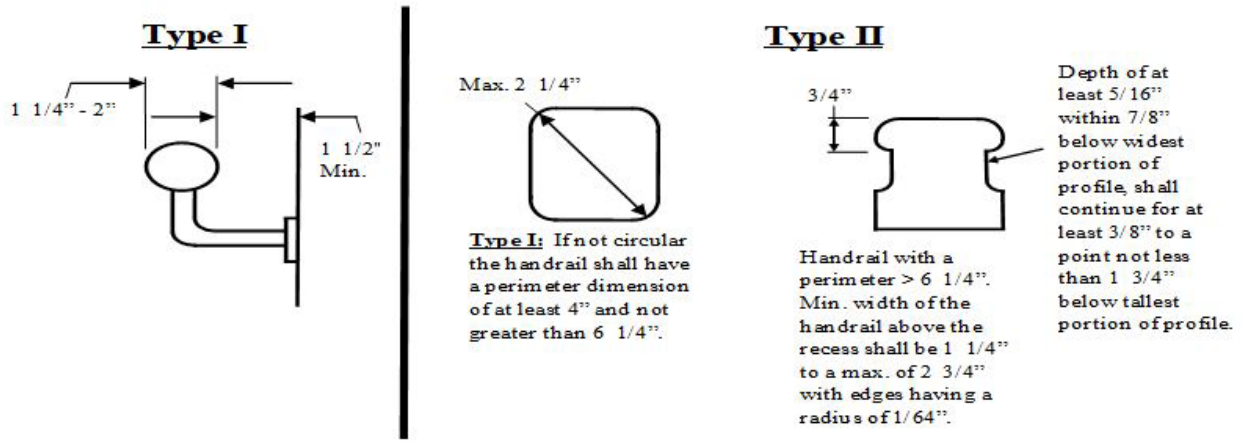
D11 The triangular openings formed by the riser, tread and bottom rail of a guardrail at the open side of a stairway are permitted provided a 6" sphere cannot pass through. **(EP Deck Handout, Sheet #11)**

D12 Open risers on stairways are permitted provided the opening between treads does not permit a 4" sphere to pass through. **(EP Deck Handout, Sheet #11)**

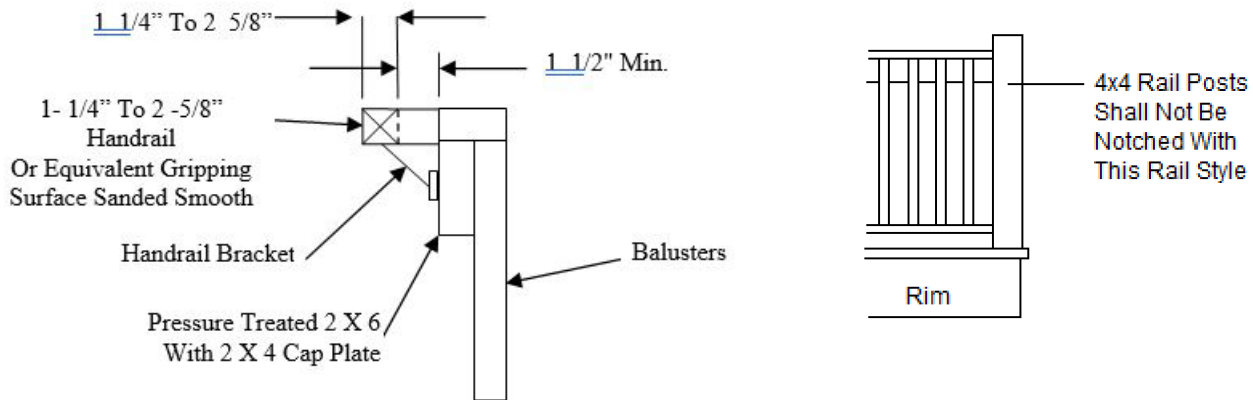
D13 All interior & exterior stairways and landings shall be provided with a means to illuminate them throughout per sec. R303.7 2012 IRC. See back of this page for stair stringer information. **(EP Deck Handout, Sheet #11)**

D14 All exterior decks & stairs shall be pressure treated wood, naturally decay resistant wood & approved composite decking.

GRIPPABLE HANDRAIL REQUIREMENTS



ACCEPTABLE HANDRAIL DETAILS



STAIR STRINGERS

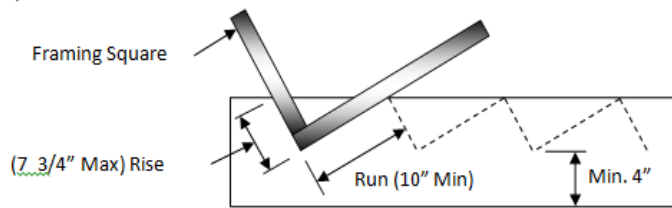


Fig. 1. Using a framing square to lay out a stringer

Continue until the required number of risers and unit treads has been drawn. The stair begins with a riser at the bottom so extend the last tread line to the back edge of the stringer. At the top extend the last tread and riser line to the back edge.

One other adjustment must be made before the stringer is cut. When the bottom tread is installed the

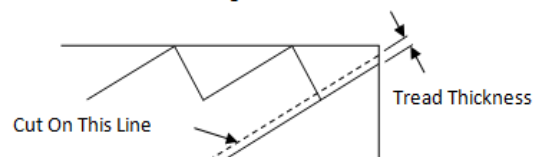


Fig. 2. Trimming the bottom end of a stringer to adjust for tread thickness