

Figure 18-17. Basic stair riser shapes. For the open riser, the tread should overlap the riser at least 2".

18.8 Treads and Risers

The thickness of a main stair tread is generally 1 1/6" or 1 1/8". Hardwood or softwoods may be used. FHA requires that stair treads be hardwood, vertical-grain softwoods, or flat-grain softwoods covered with a suitable finish flooring material.

Lumber for risers is usually 3/4" thick and should match the tread material. This is especially important when the stairs are not covered. In most construction, the riser drops behind the tread, making it possible to reinforce the joint with nails or screws driven from the back side of the stairs. Figure 18-17 shows basic types of riser designs. A sloping riser is sometimes used in concrete steps since it provides an easy way to form a nosing.

Where the top edge of the riser meets the tread, glue blocks are sometimes used. A rabbeted edge of the riser may fit into a groove in the tread. A rabbet and groove joint may also be used where the back edge of the tread meets the riser.

Stair treads must have a nosing. This is the part of the tread that overhangs the riser. Nosings serve the same purpose as toe space along the floor line of kitchen cabinets. They provide toe room. The width of the tread nosing may vary from about 1"-1 1/2". It should seldom be greater than 1 3/4". In general, as the tread width is increased, the nosing can be decreased. Figure 18-18 illustrates a number of nosing forms. Cove molding may be used under the nosing to cover the joint between riser and tread and conceal nails used to attach the riser to the stringer or carriage.

Basement stairs may be constructed with an open riser (no riser board installed). Sometimes an open riser design is built into a main stair to provide a special effect. Various methods of support or suspension may be used. Often custom-made metal brackets or other devices are needed.

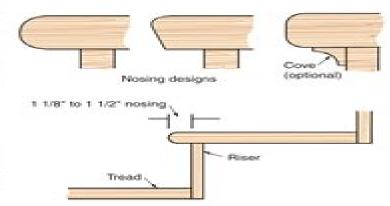


Figure 18-18. Common tread nosings.

Total raw: The horizontal distance occupied by the stairs; measured from the foot of the stairs to a point directly beneath where the stairs rest on a floor or landing above.

Nosing: The part of a stair tread that projects beyond the riser.

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