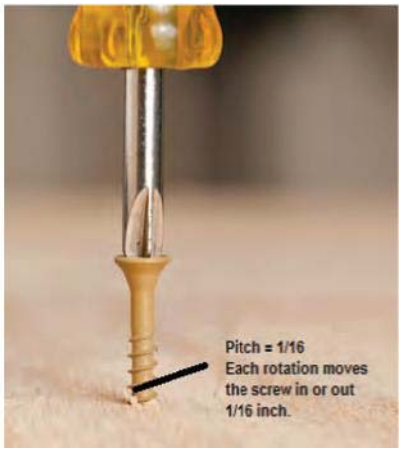
Safety for Assembly 105

Screws are sized by length, diameter and threads per inch. For example, 3-1/4-20 would be a 3”-long screw, 1/4-inch shaft diameter, and 20 threads per inch. The number of threads per inch gives the screw its pitch. With each complete rotation, the screw goes in or out of a distance equal to its pitch.



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a. The pitch of the screw is 1/16 inch. How far will it go into a piece of oak if it is turned 10 complete rotations clockwise?

b. The pitch of a screw is 3/32 inch. How far will it stick out of a piece of oak if it is initially flush and then turned 10 complete rotations counterclockwise?

c. After an initially flush screw has been turned eight complete rotations counterclockwise, it extends 1/2-inch above the surface of the drywall. What is its pitch?

d. The pitch of a screw is 3/32 inch. How many complete rotations are necessary to drive the screw 3/4-inch into a piece of wood?

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