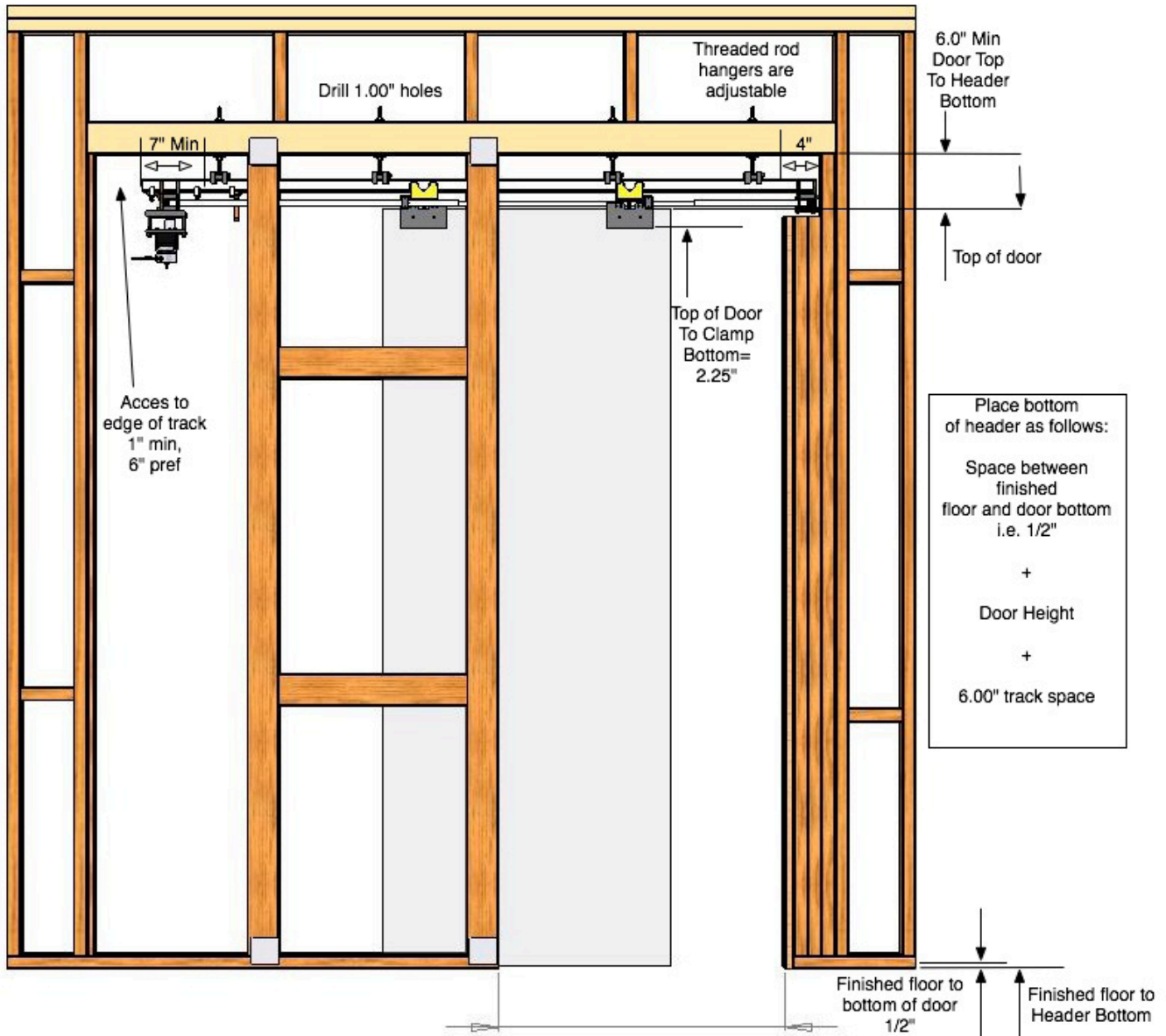


Door Size Calculator

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Basic dimensional info can be found in the drawing above. The illustration depicts a typical pocket door install for a glass door that includes glass hanging clamps. The image is relevant to most other door materials, such as wood. The only exception being that the glass clamps are designed to extend down onto the sides of the top edge by 2.25". A clamp for a wood door would typically not include the side panels. The wood door clamp would mount on the top surface of the door only. All other dimension info is identical and calculations are made in the same way.

The Fundamentals of a Typical Install:

A **Support Header** is located near the top of the framed structure from which the motorized track is suspended with threaded rods. A support header would typically be a treated wood beam, 4" x 6". If there is no method to tie the center of the support header to some other structure, then it may be necessary to use a taller header, for example 4" x 10", or 4" x 12" depending on the distance and your engineering requirements. The support header will have 1" holes drilled vertically into the center at different intervals, through which the threaded rods will pass through. The threaded rods are adjustable up and down so that the door can be positioned with ease. One feature of this mounting scheme is that the door is never lifted manually off of the ground, but rather is 'adjusted' off the ground with the nuts located at the top of the threaded rod.

There is a minimum distance from the top edge of a door to the bottom of the support header. The bare minimum distance is 5", but this leaves very little room for adjustment of the door vertically. **The recommended distance from the top of the door to the bottom of the header is 6"**.

It is required during installation to have access above the support header to adjust the nuts on the threaded rods. Once the door is adjusted, there will not likely be a need for further access to the threaded rods.

On one end of the track the **Motor Mount Assembly** will be attached. This requires 7" of excess track length. On the other end of the track from the motor, there is a **Pulley Block Assembly** attached. This assembly will require 4" of excess track length.

The basic formula for calculating the track length is:

Width of Door + Width of Door + Motor Assembly (7") + Pulley Assembly(4").

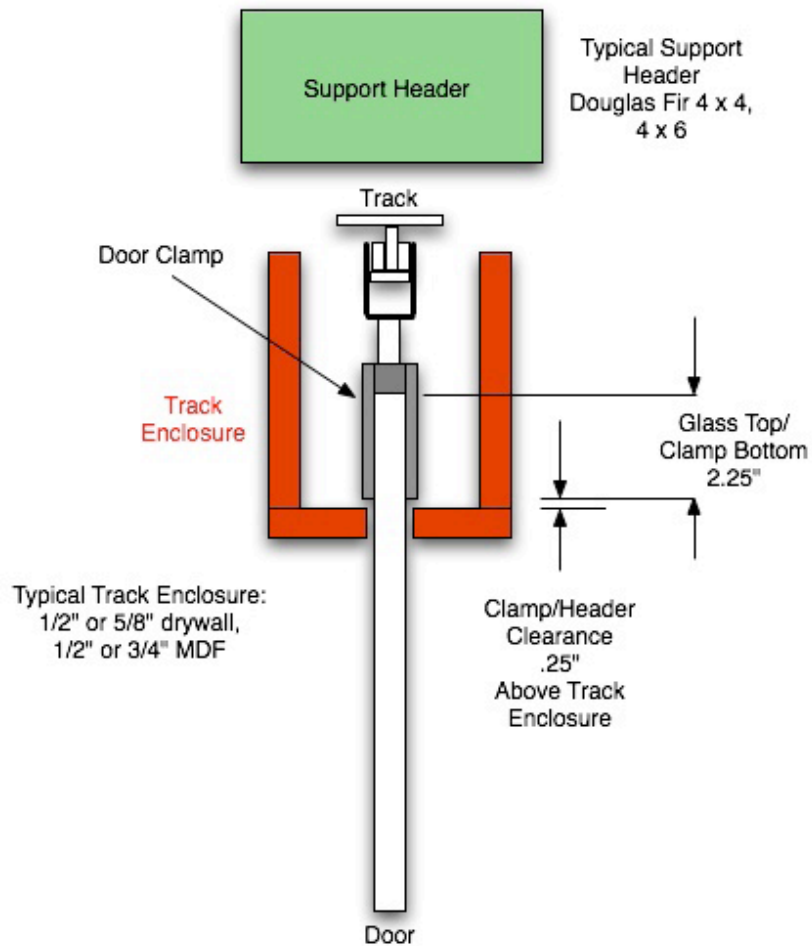
In a case where the placement of the Support Header is limited, The dimensions required in sizing the door panel height are:

1. Estimated distance from finished floor to the bottom of the door edge(i.e. 1/4")
2. Recommended Distance from door top edge to header bottom(6")

Final Door Height = Distance from Floor to Header bottom - 6" - 1/4"

In other words, if the header is already part of the structure and cannot be changed, then your door height has to be derived from the existing conditions.

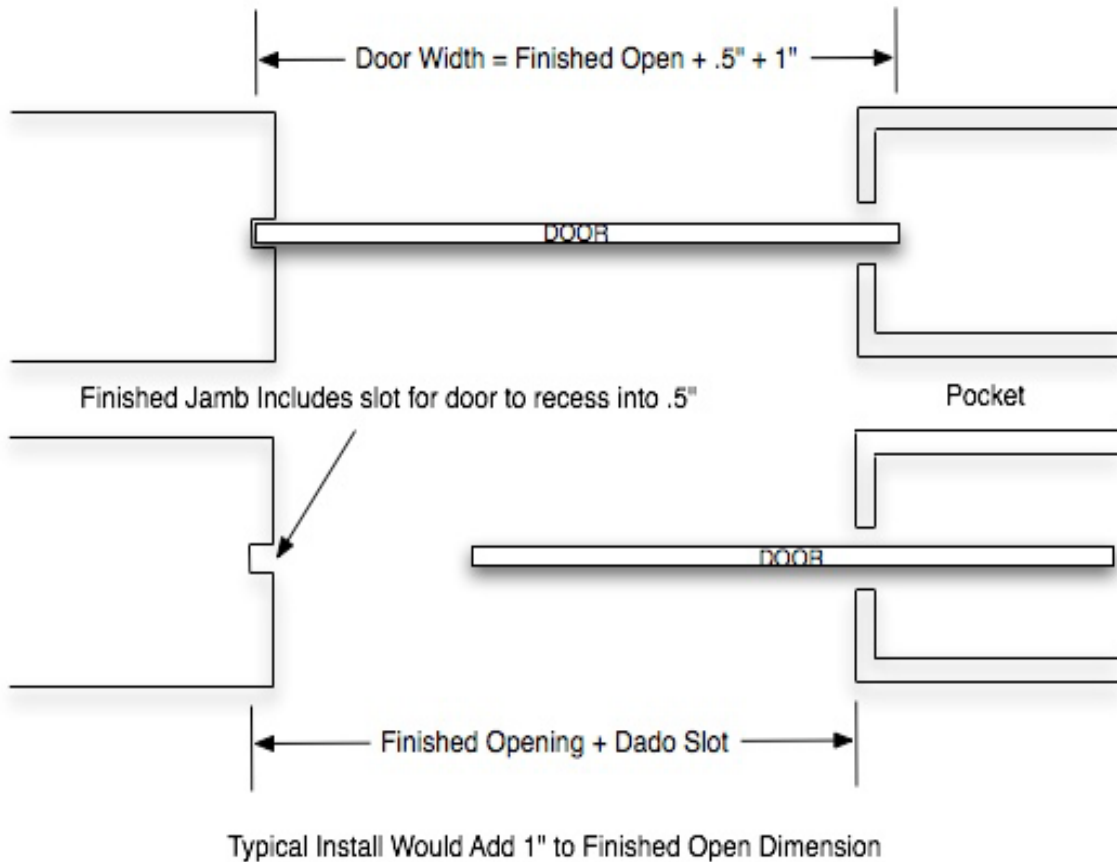
Door Cross Section



The glass clamp will cover the top side of the glass by 2.25" from the top of the door down to the bottom edge of the clamp side wall.

The RED outline shows the example of the drywall trim around the clamps to conceal the clamps. This track conceal method is described as a "boxing in".

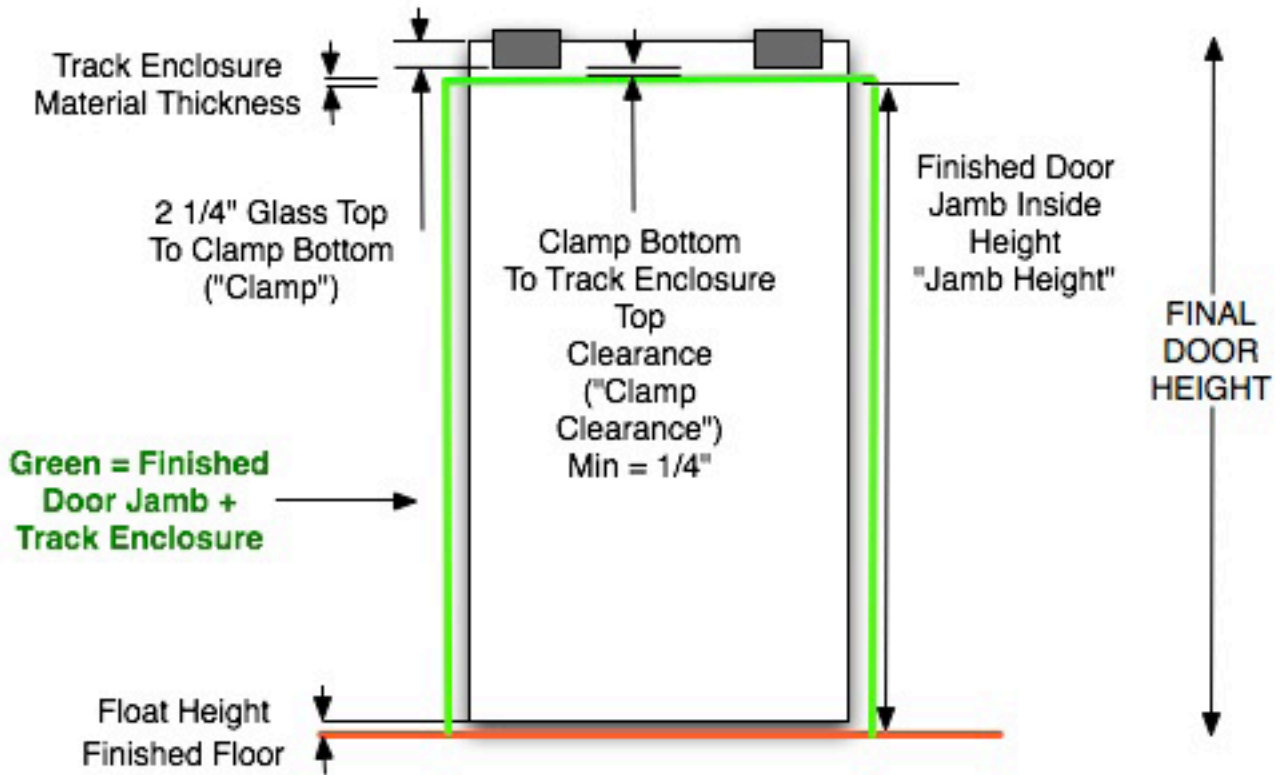
In some cases, the header may be sufficiently located above the ceiling, whereas the door can slide through a slot in the ceiling, so that no box or other means of hiding the track are required.



Based on the illustration above: For sizing the door width to a desired finished opening, the typical install would have approximately 1/2" inserting into a slot in the closed position, and 1" minimum overhang into the pocket. As an example, if the desired finished door opening is 32", then calculate $32" + 1/2" + 1"$ to arrive at the actual door size including overage.

Glass Height Dimension Calculator

Door Location/Part#: _____



$$\text{Jamb Height} + \text{Clamp Clearance} + \text{Clamp} + \text{JambMat} - \text{Float} = \text{FINAL DOOR HEIGHT}$$
 (Typical: (80"H + .25" Clear + 2.25" Clamp + .5" Enclosure) - Float .25" = Final 82.500")

Clamp (2 1/4" Standard):	___ +2.25 ___
Clamp Clearance:(1/4" Minimum)	___ +.25 ___
Float Height:(-1/4")	___ -.25 ___
Finished Door Jamb:	_+117.375 (117 3/8) ___
Track Enclosure Thickness:	___ .625 (5/8") ___
FINAL GLASS HEIGHT:	___ 120.25 ___

The factors related to calculating the glass door height based on a desired finished height are:

1. Float height(distance above finished floor.
2. Clamp clearance
3. Clamp
4. Finished door jamb height
5. Trimming material thickness(i.e. drywall thickness)

Conclusion:

Although our standard door project is for a glass door, the above illustrations are easily converted to wood door installations. The only difference in calculation is that the wood door will typically have a TOP MOUNTED clamp that does not extend down past the top edge of the edge of the door. Only in a case where the wood door was of a very thin material would the side wall clamp style be required.

If you require any assistance with your calculations, please contact Dado for help.