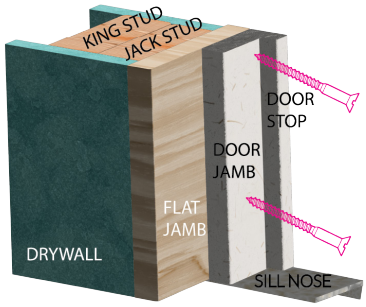
RESIDENTIAL ELEVATORS
Elevating Your Standard of Living

Custom Elevator Jamb

In order to have a safe hoistway and to meet the requirements of the Home Elevator ¾"x4" Rule, you should install your hoistway door units with screws to allow the ability to move and adjust into or away from hoistway. Using Custom Elevator Jambs for your doors is the preferred way to accomplish these requirements.

The Custom Elevator Jamb is made of 4 parts:



1. Left and right jambs (legs) with door stops, door header, and door sill.
2. Door Stops-The ½" door stop should sit flush with the custom flat jambs on hoistway side of drywall from Step 2.
3. Door header-The door header should have a matching door stop as the left and right door jambs (legs) and sit flush with flat jambs on elevator hoistway side.
4. Aluminum Sill Nose-Used to align flooring into hoistway with jambs.

There are several options for you to obtain and use Custom Elevator Jambs

1. Fabricate Custom Elevator Jambs and headers and hang doors on jobsite.
2. Source doors from a door supplier with custom elevator jambs already installed onto door unit.
3. Take existing prehung doors and modify the door jambs of prehung units to meet requirements.
4. Modify standard door jamb kits and hang doors on-site.

Follow the Steps Below to Install Custom Elevator Jambs

1. Frame rough opening to 40” for solid-core 3/0 (36” wide) door—See Step 1, page 2.
2. Finish opening with flat jambs and casing, paint, caulk—See Step 2, page 2.
3. Mark the doors plumb on each floor—See Step 3, page 3.
4. Install door unit with custom elevator jambs—See Step 4, page 3.
5. Install Aluminum Sill Nose in each door opening to align flooring flush with Custom Elevator Jamb—See Step 5, page 4.
6. Verify all dimensions of door installation to code requirements—See Step 6, page 4.
7. Repeat door installation on all floors by repeating Steps 4-6—See Step 7, page 4.

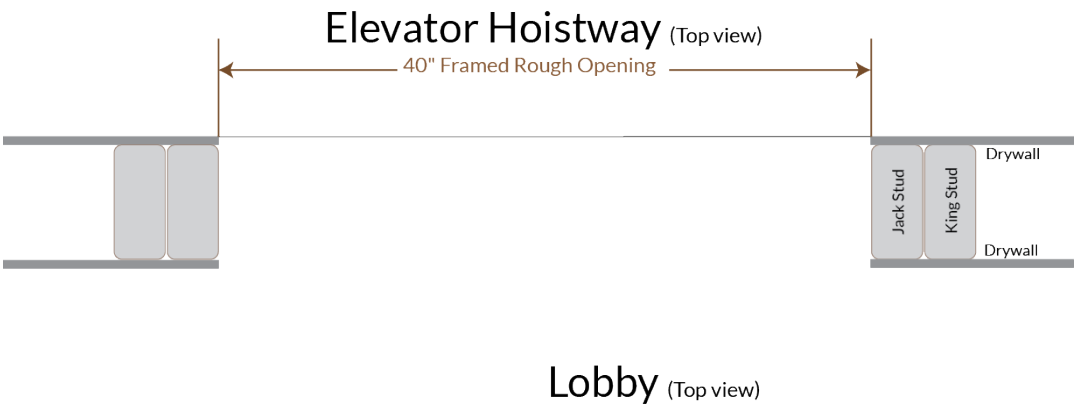
Door Jamb How To Video

Video instructivo sobre jamba de puerta

Detailed Description of Custom Elevator Jamb Installation Process

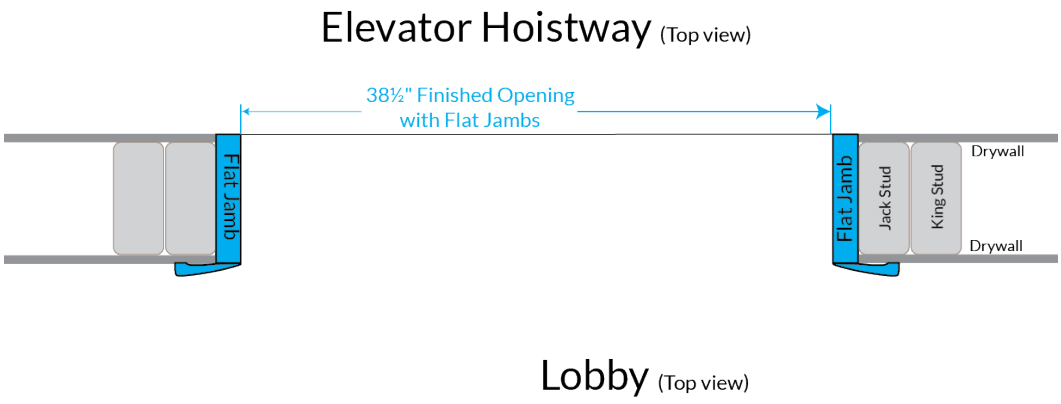
Step 1—Frame rough opening to 40” for solid-core 3/0 (36" wide) door

This step allows additional adjustments to be made during door installation so that doors on all landings are plumb and vertically aligned with every other door in the hoistway.



Step 2—Finish opening with flat jambs and casing, shown in blue

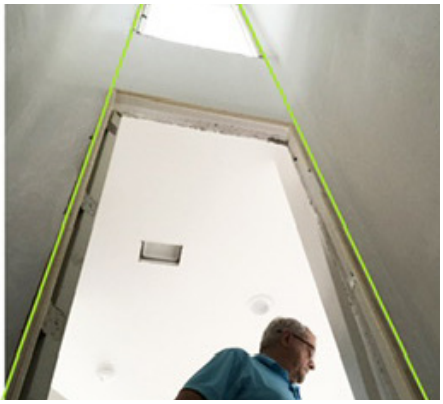
This step will make the elevator door opening appear as a finished passageway with flat jambs 38½” in width and allows space for custom elevator jamb to be installed and adjusted if needed to meet code requirements.. After drywall (sheetrock) has been applied, finish opening by applying flat jambs, casing, caulk, and paint so that new finished opening is 38½" in width. Repeat Steps 1 and 2 on all floors of home.



Step 3—Marking the doors plumb on each floor

This step allows all doors to be vertically aligned in hoistway to meet code requirements on all floors of elevator home. Install a wood 1x above the top floor door into the hoistway. Using a plumb bob or laser level, mark the finished doorway from *Step 2* that protrudes furthest (also known as proudest) into the hoistway as your reference point that all other doors must be aligned to.

You will be mounting the door unit with Custom Elevator Jamb in *Steps 4 & 5* on all floors plumb with this door that is furthest into the doorway by moving and installing the custom jamb on all floors of home. For instance, on a 3 story home, if the top floor finished opening protrudes into the hoistway the furthest, then the door units for the first and second floors will be aligned with the top floor.

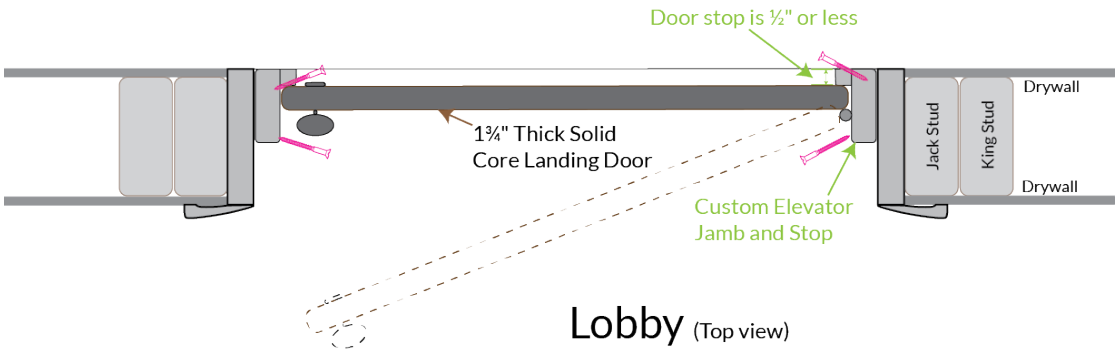


Step 4—Install door unit with custom elevator jambs, shown in green, and header (not shown)

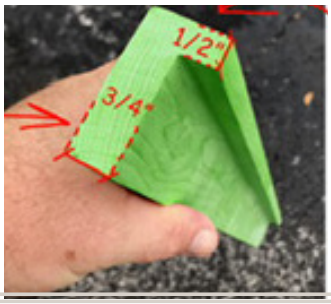
Each custom elevator jamb is now installed in alignment with the marks from *Step 3* above. Install door unit (door and hinges with custom door jambs and header or door jambs and header without door) onto flat casing using screws (shown in pink) of at least 3½" in length. ***Each door unit must be PUSHED into hoistway so that each door is plumb with door marked from Step 3 that was determined to be furthest into hoistway. Shim door as needed to hang door properly.***

The use of long screws allows future adjustments, if needed, so that doors are plumb and level and do not exceed tolerance of Elevator Building Code. As the building ages and materials move when home is conditioned with HVAC system, you may need to remove screws and adjust doors.

Elevator Hoistway (Top view)



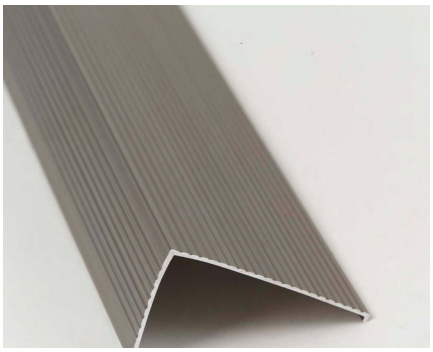
Lobby (Top view)

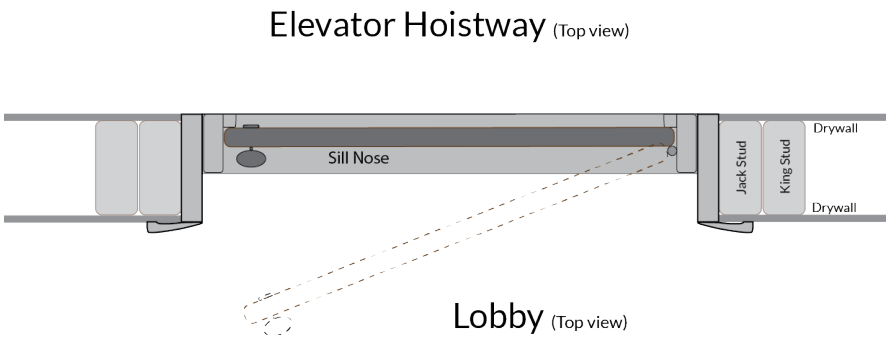


Step 5—Install Aluminum Sill Nose in each door opening

Install aluminum sill nose on top of subfloor and under the door threshold. This sill nose should be installed flush INTO hoistway to be plumb with furthest edge of custom elevator jamb on all floors that are aligned with designated door in Step 3.

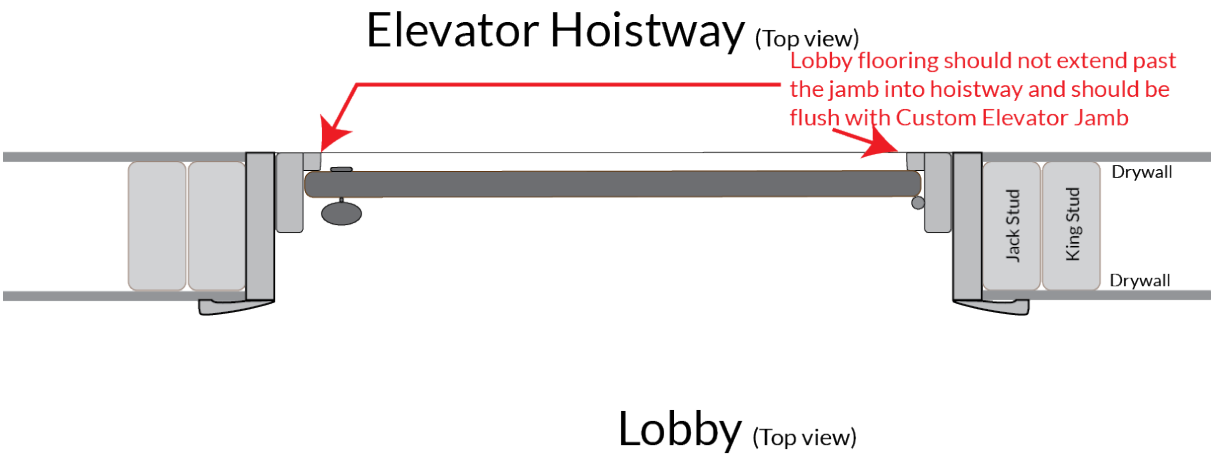
Using the aluminum sill nose allows the flooring crew to install flooring on all levels of home to be plumb and within requirements of elevator code. This aluminum sill nose also provides a definitive line for measurement of flooring during any required inspections.





Step 6—Verify all dimensions of door installation to code requirements

Verify that distance from edge of hoistway door to edge of landing sill is ½". Residential Elevators Teams will install elevator to meet or exceed minimum code requirements as shown in diagram below. **Adjustment of door to meet code is responsibility of builder.**



Step 7—Repeat door installation on all floors by repeating Steps 4-6

All doors must be plumb to a vertical line for all floors of elevator hoistway.