Assembling a 4 Panel Sliding Patio Door

How to check your opening, build the frame and hang the panels of a Pease 4 panel sliding patio door: the two middle panels slide apart, the two outer panels are fixed. **Plan on two people or more**: the glass panels are heavy.

What you'll need

- Level, measuring tape and square
- Rubber mallet
- Robertson (square drive) screwdrivers, #1 and #2
- Phillips screwdrivers, #1 and #2
- Flat head screwdriver and utility knife
- Pencil, to mark where the stops go
- Caulking gun, to seal the frame to the wall

What's in the boxes

- **Frame kit:** the head, the sill and two jambs, the meeting rails, the fixed panel support (if it is not already on) and the hardware bags
- **Sliding panel kits:** the two middle panels, which slide, and the screens if your door comes with them
- **Fixed panel kits:** the two outer panels, which stay put
- All the screws are in the hardware bags. The frame pieces are pre-drilled.

Work safely. Never work alone, and lift with two people. Handle the glass with care: broken or cracked glass can cause severe injury. Wear safety glasses and gloves. If you are removing an old door from a house built before 1979, the paint may contain lead: see epa.gov/lead. **Read every step before you start:** a door that is not installed to these instructions may not be covered by the warranty.

Before you build

Check the opening first

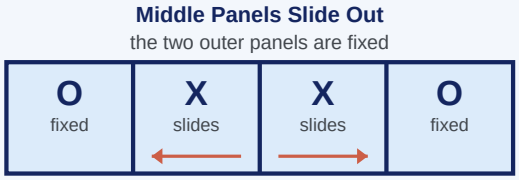
The door is listed by the outside size of its frame. Your rough opening (the framed hole, stud to stud and floor to header) must be 1/4" to 1" larger than the frame in width and in height. Measure before you take the old door out.



Not to scale.

How this door opens

O is a fixed panel, **X** a panel that slides. The two middle panels slide apart. One has the lock and its thumbturn. The other, the **semi-opening panel**, has no thumbturn and carries the H connector that the first one locks to.



Seen from outside the house. Not to scale.

Rough opening for each size

Door	Frame size (width × height)	Rough opening width	Rough opening height
10 ft x 6 ft 8 in	119-1/2" × 79-1/2"	119-3/4" to 120-1/2"	79-3/4" to 80-1/2"
12 ft x 6 ft 8 in	143-1/2" × 79-1/2"	143-3/4" to 144-1/2"	79-3/4" to 80-1/2"
16 ft x 6 ft 8 in	191-1/2" × 79-1/2"	191-3/4" to 192-1/2"	79-3/4" to 80-1/2"
10 ft x 8 ft	119-1/2" × 95-1/2"	119-3/4" to 120-1/2"	95-3/4" to 96-1/2"
12 ft x 8 ft	143-1/2" × 95-1/2"	143-3/4" to 144-1/2"	95-3/4" to 96-1/2"
16 ft x 8 ft	191-1/2" × 95-1/2"	191-3/4" to 192-1/2"	95-3/4" to 96-1/2"

The frame

1. Lay out the frame

Work on a flat, clean surface close to the opening. Find the four pre-drilled frame pieces: the head, the sill and the two jambs (the jambs have wood inside).

The head and the sill come with a foam pad already in place. Leave it on.

2. Screw the frame together

Join the jambs to the head and to the sill with the **#8-10 × 2-1/2"** screws, 6 screws at each corner. Always drive these screws horizontally.

When all four corners are done, fit the jamb foams.

3. Set the frame in the opening

Stand the assembled frame in the opening. It must sit **level, plumb and square, with no twist**, and the right way up. A frame that is out of square, twisted or not vertical is not covered by the warranty.

Seal the frame to the wall so water cannot get behind it. If the siding or trim around the opening was damaged when the old door came out, repair it first, and make sure the framing of the opening is sound.

The hardware includes ten **#8-10 × 3"** screws marked for installation. They fasten the frame in the opening.

The two fixed panels

4. Put in the fixed panels

Install the cavity cap on the fixed panel support.

Slide a fixed panel in at each side of the door, inside face toward the room: the top first, then the bottom. The identification label on each panel must end up inside the frame. The reinforced edge goes toward the **center of the door**, not against the jamb.

5. Fasten the bottoms

Fix the bottom of each panel with a **#8 × 3"** screw.

Then drive a **#6 × 1"** screw in the weatherstrip groove of the frame, level with the glazing stop at the bottom of the panel.

6. Fasten the tops

First check that both panels are seated all the way down in the frame.

Slide a head fixing block in above each fixed panel. Screw it to the panel with the **#8 × 1"** screw first, then to the frame with the **#8 × 2-1/4"** screw.

7. Fixed meeting rails, dust plugs and threshold

Install a meeting rail on each fixed panel, starting at the bottom and working up.

Fit a dust plug in the interlock, under each meeting rail. Install the threshold, then the exterior cavity filler at the head.

The two sliding panels

8. Hang the sliding panels

Screw the HDPE block (the plastic stop block) to the top of the sliding panel, on its lock side, with the **#8 × 1-1/4"** truss head screws.

Lift each sliding panel into the frame with its inside face toward the room: the top first, then the bottom.

9. Adjust, then fit the meeting rails

Adjust the panels until they sit square in the frame, then fit the finishing plugs on the bottom rail.

Install the meeting rail on each sliding panel, starting at the bottom and working up, in line with the bottom rail of the panel. Fit the finishing cap on each meeting rail. It must move freely.

10. Bumper, filler and H connector

Install the bumper and the interior cavity filler.

Fix the H connector to the semi-opening panel with the **#8 × 1-1/2"** self-tapping screws. Place it so that it can move freely within the frame.

11. Weatherstrip, keeper and foam

Close both sliding panels. Fasten a head pile weatherstrip above each panel and one at the center, where the two meet, with the **#8 × 1"** screws.

Attach the lock keeper to the H connector with the screws packed with it. Then stick the foam seals on the H connector: the square piece at the head, the sloped piece at the bottom.

Handles and screens

12. Fit the handles

On the panel with the lock, push the outside handle into the holes in the panel and fit the inside handle. Check that the latch works before you tighten the screws.

Do the same on the semi-opening panel, but **leave the thumbturn off**.

Close the panels and check that they run and latch smoothly. Adjust if they do not.

13. Hang the screens

Set the two screens in the frame and slide them closed to the center.

Adjust their height until both screens sit firmly on the stop latch.

The stops

14. Fit the screen stop

Close the semi-opening screen. Hold the screen stop where it belongs and mark the spot.

Open the screen and fasten the stop with two **#6 × 1"** flat head screws. Close both screens to check, and adjust if needed.

15. Fit the panel stop

Close the semi-opening panel. Hold the panel stop where it belongs and mark the spot.

Open the panel and fasten the stop with two **#8 × 1-1/4"** flat head screws. Close both panels to check, and adjust if needed.

16. Fit the foam seals at the stops

Insert the foam seals in the frame cavity and slide them up against the panel stop. Fasten the two foam seals with two white **#8 × 3/4"** truss head screws.

Do the same at the screen stop, with **#6 × 1"** screws.

Watch it done. The maker's video of a 4 panel door going together is on the 4 panel sliding patio door page at peasedoors.com. The maker's printed instructions, with a drawing for every step, are in the jamb box.

If something doesn't fit

Stop before you force anything, and before you drill or cut. A photo helps us see what you see.

Call or text us at **513-871-8907**, Monday to Friday, 9 AM to 5 PM ET. More help at peasedoors.com.