CavitySliders®

Quality Sliding Door Hardware

HowTO install this CavitySliders® Single **pocket door unit**

Before you start:

READ this HowTO(Installation Instructions) CAREFULLY!

(It could save you lots of work!)

Check out the full range of products and use our online calculator at: **www.cavitysliders.com**

Keep this HowTO handy. You may need it later on.

Another quality product from:

CavitySliders®

WHAT YOU NEED TO KNOW FIRST.

Construction of the wall.

The wall referred to in these instructions is ex 2 x 4" (50mm x 100mm) wooden framework. Although not shown, the unit covered in this HowTO may also be fitted into other types of wall materials (steelstud, concrete, brick, etc.).

For concrete or masonry type walls:
fix a 2 x 4" (50mm x 100mm) timber fixing plate into the opening on both sides and under the head.

Fix these in place with ø3/8"x4" (ø10mm x 98mm) long countersunk masonry anchors at 16" (400mm) centers.

Lintel or trimmer sizes.

CS pocket frames are non-loadbearing units. They require the lintel (or trimmer, ceiling joist or structural component) directly above the track to span the full trim size opening width. Specific design may be required for all other kinds of structural components and for the timber lintels.

The rough opening.

Calculation of how big the hole in the wall framing should be to fit in this unit:

Single unit
Height = door leaf height + 3-3/4" (95mm)
Width = (door leaf width x 2) + 1-3/16" (30mm)

Standard clearances under the door.

With the unit sitting hard on top of the concrete or timber floor, the clearance under the door leaf ranges between 7/8" and 1-3/16" (22 - 30mm) (adjustable). The majority of these standard clearances is taken up by the floor covering (e.g. carpet, tiles etc.).

Modified clearances under the door.

If you require **more** than 1-3/16" (30mm) clearance under the door: pack the unit off the floor by the extra amount you need.

If you need **less** than 7/8" (22mm) clearance under the door leaf (e.g. for polished timber floors) there are two options to do this (only available when pre-ordered):

A A door leaf up to 9/16" (15mm) taller can be fitted.

B The whole pocket can be made up to 9/16" (15mm) shorter.

Contamination of the top track.

Never drill, nail or screw through the center section of the track. Make sure no dirt, grit or aluminum swarf gets into the track.

Fixing pocket frame to the floor

Installing the pocket frame 100% plumb and level will **NOT** guarantee a correctly sliding door.
If any of the wall, lintel, floor and door are not plumb and straight this can cause the door to slide incorrectly into the pocket.
It is for this reason that the skirting block fixing (found at the base of the pocket frame behind the split jambs) is only secured once you have ensured the door is running parallel to the pocket.

Check components.

Before you begin, lay the unit flat on the ground in front of the door opening and check for any obvious product defects.
Lay the unit on its back and sight the gap to check for normal clearances (drawing **T**).
If anything looks out of specification or you are unsure, contact CS before beginning your install.

THE INSTALLATION.

1 Prepare the door leaf (if not already fitted).
Drill two holes to the position and depth marked (drawing **Y**, page 5).
Screw both mounting plates to the door. Make sure they are placed exactly in the center of the door thickness with the plunger pins facing towards the edges of the door.

At the bottom of the door leaf, cut a groove to the dimension and tolerance shown. Make it central of the door thickness and absolutely straight.

2 Fit the door leaf (drawing **Y**).
Align the mounting plates on the door with the hanger bolts of the carriages.

Offer the mounting plate up onto the hanger bolt by lifting the door (you may need someone to help you or use a lever at the base of the door). The head of the hanger bolt should mate with the plunger and sink in before you can slide the bolt across and lock it into place. The plunger should pop back up once it is correctly located.

3 Fit the closing jamb to the unit
(if not already fitted) (drawing **W**). Use 2 screws 8 gauge x 1" (25mm) long, as supplied.

4 Place the whole unit into the framed opening in the wall (drawing **U**).
Check that the jack studs on both sides of the door opening are plumb in both directions.

5 Fix the aluminum back stud.
Plumb-up the two timber split jambs (drawing **U**). Use a level!

While keeping the timber split jambs plumb, pack behind the aluminum back stud as shown. Now screw the aluminum back stud including the packing to the 2 x 4" (50mm x 100mm) jack stud through the pre-punched holes.

Timber studs: use 8 gauge x 1-1/4" (29mm) wood screws.
Steel studs: 8 gauge x 1-1/4" (29mm) self-tapping screws.

6 Level the track (drawing **W**).
The track must be fitted level and straight.
Do not pack above the track.

The track for all units with doors over 36" (910mm) wide must be fixed to the lintel at 24" (600mm) centers through the aluminum flanges on both sides of the track.

Fit the first screws 2" (50mm) back from the closing jamb end of the track.

Counter bore the timber pelmet blocks (drawing **W**) so that the screw heads pull hard up under the aluminum flanges.

For **timber** lintels: Use 8 gauge screws penetrating the lintel by at least 1" (25mm).

For **light steel** lintels (under 5/64" (2mm) wall thickness): Use 8 gauge self-tapping screws which penetrate the lintel by at least 1/4" (5mm).

For **heavy steel** lintels: Use M5 machine bolts and nuts.

7 Fix the closing jamb (drawing **U**).
Plumb closing jamb. Use a level!

Pack and nail at 20" (500mm) centers to the jack stud through the recessed center section of the closing jamb and packing.

First: fix the top of the closing jamb (drawing **T**). Second: fix the bottom of the closing jamb.

For **timber:** use ø1/8" x 2-1/2" (ø2.8mm x 60mm) nails.

7 For **steel:** use 8 gauge self tapping screws.
Ensure that the distances between the closing jamb and the split jamb are the same.

The distance at the bottom must never be more than the distance at the top. Measure this carefully!
Fix between the top and bottom. Use a straight edge to make sure that the closing jamb is straight.

8 Fix the bottom plate assembly (drawing **X**).
The door must slide parallel with the bottom plate assembly (see the 2 sets of black **A-A** arrows). If not, gently tap the front of the assembly to the left or right until it does.

The door should now slide smoothly and fit into the recess in the closing jamb, leaving parallel gaps on either side between the door leaf and the closing jamb.

Fix the skirting block fixing to the floor only when the pocket has been adjusted so that the **door closes neatly into the closing jamb and slides parallel to the bottom plate of the pocket frame.**

Fix the bottom plate assembly to the floor as follows:
To **concrete** floors:
Fix with ø5/16" x 3-1/2" (ø8mm x 90mm) masonry anchors through the pre-drilled holes in the skirting fixing blocks of the bottom plate.
(See the red stamped arrow on the timber).

To **timber** floors:
Fix the bottom plate assembly with ø1/8" x 3")(ø3.15mm x 75mm) nails on either side in the center of the skirting fixing block thickness.
(See the red stamped ⊕ on the timber).
Pre-drill ø1/8" (3mm) holes for these nails.

9 Adjust the door height (drawing **V**).
Use the small end of the wrench supplied to rotate the hexagonal nut at the bottom of the carriage hanger shaft.

To **raise** door: Rotate wrench from **left to right**.
To **lower** door: Rotate wrench from **right to left**.
Note: The hanger shaft fits at the top into a self locking nut. If you lower the hexagonal nut too far, the shaft will become loose from the self locking nut. So: if the turning resistance suddenly feels much easier, you have gone too far.

10 Fit the head jambs (drawing **W**).
(if not already fitted). Before fitting head jambs, check that you have the desired clearance under the door and that the door is plumb (instruction **11**).
Slide the head jamb into place between the vertical jambs.
'Flush up' the joints. Then screw them into place with the 8 gauge x 1-1/4" (32mm) long countersunk head screws (as supplied). Gently tap wooden plugs to cover the screw heads.

FINISHING THE INSTALLATION.

11 Fixing the drywall.
Where possible, the supplied 'jamb spreader' (drawing **T**) should be inserted into the pocket frame opening prior to fixing drywall and architraves.

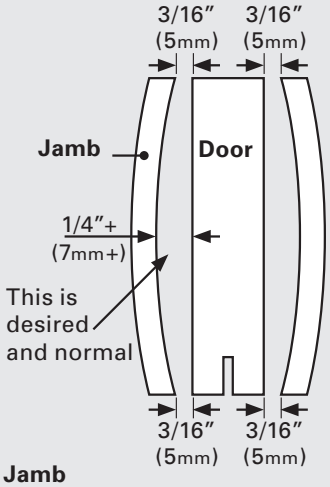
Wherever possible, drywall should only be glued on.

Use short drywall screws to hold drywall in place until glue is dry. For 1/2" (12mm) drywall, use maximum 1" (25mm) long drywall screws. We recommend sealing the inside of all drywall and MDF architraves.

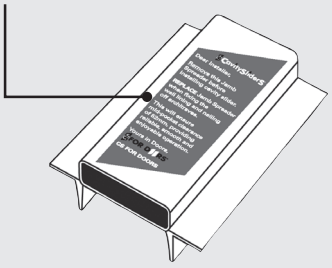
Go to page **4** (overleaf) →

T JAMB CLEARANCE

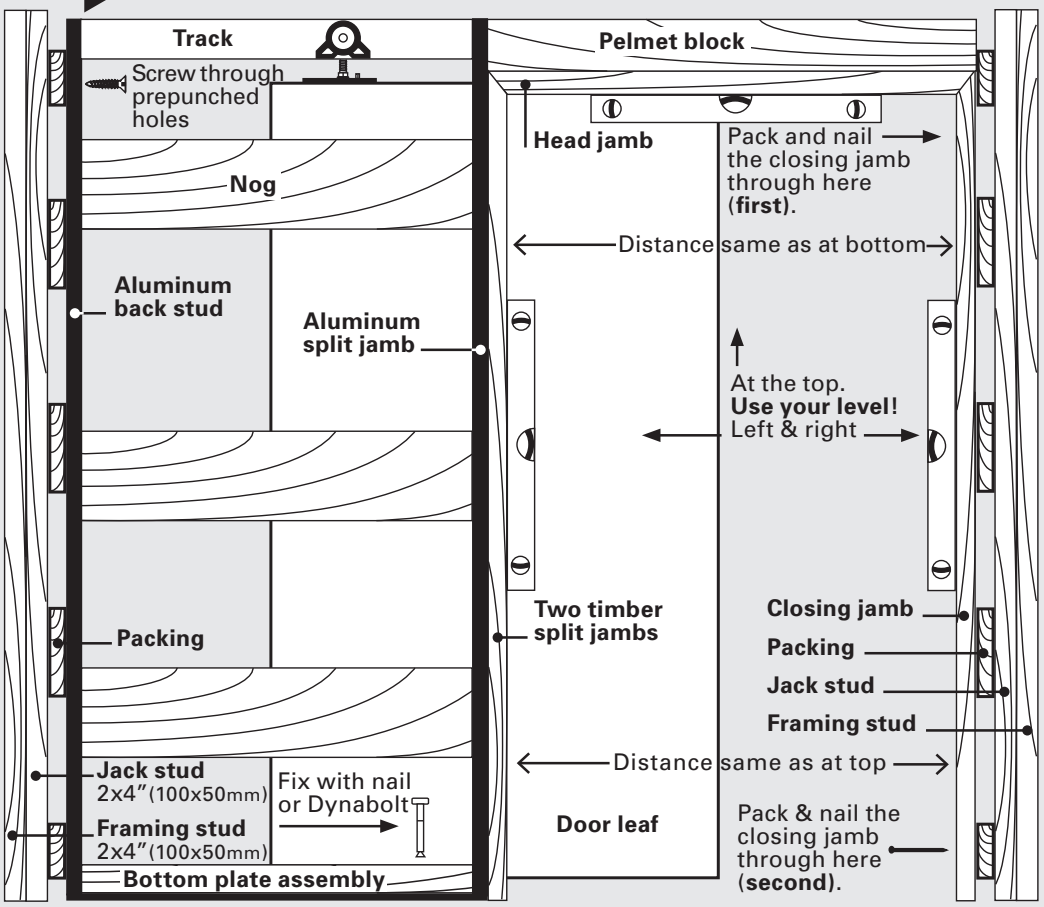
See point 11.



Jamb spreader

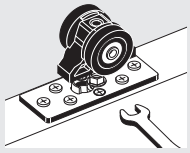


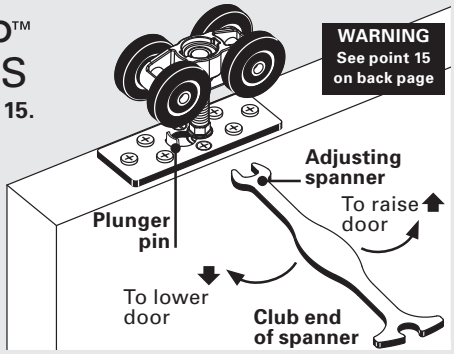
U ELEVATION **See points 3, 4, 5 and 7.**



V ADJUSTING & REMOVING CarriSnap™ CARRIAGES

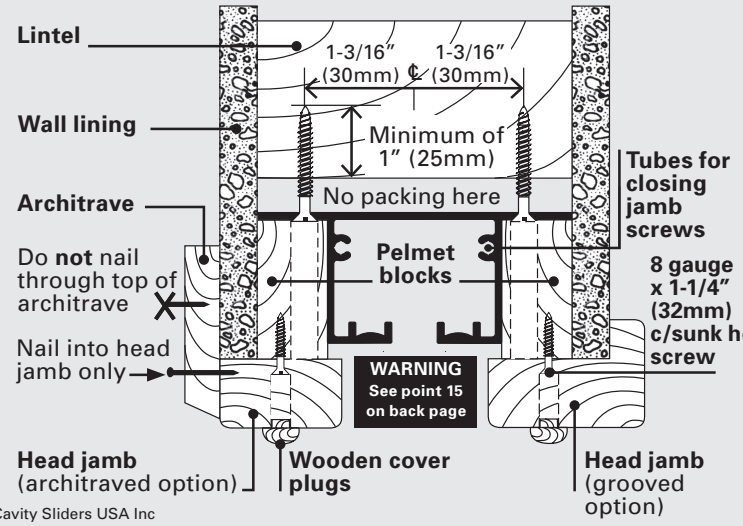
See points 9, 14 & 15.





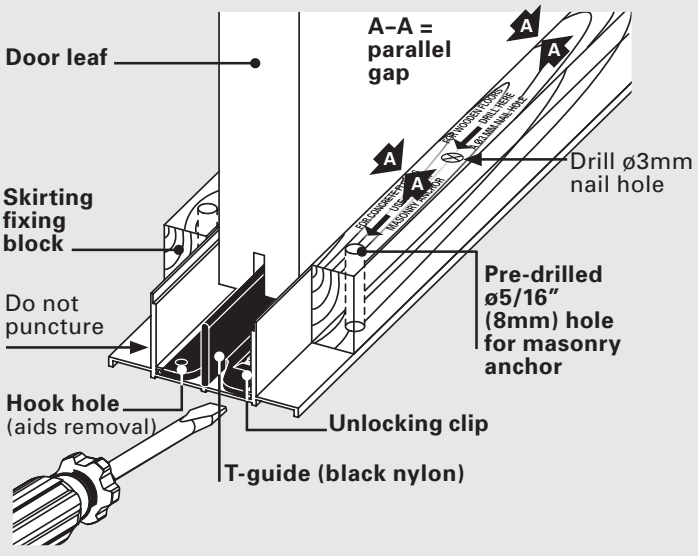
W TRACK CROSS SECTION

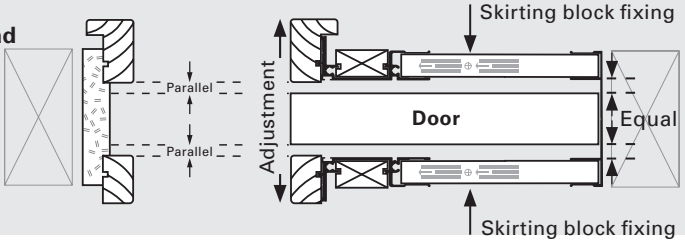
See points 3, 6, 10, 11, 12 and 15.



X BOTTOM PLATE ASSEMBLY

See points 8, 13 and 14.





12 If fitting architraves (drawing **W**).
Nail the architraves to the four vertical jambs and the two horizontal head jambs.
Use panel pins with a maximum length of 1″ (25mm) plus the thickness of the architrave.
Nail the back of the architrave to the split jamb blocks using panel pins with a maximum length of the combined thicknesses of the architrave and drywall plus 19/32″ (15mm).
Note: Nail the horizontal architraves to the head jambs but do not nail them to the timber pelmet blocks above the head jamb.

13 If fitting skirtings (drawing **X**).
When you fix the skirtings, make sure that you do **not** puncture the aluminum extrusion of the bottom plate assembly.
The maximum length of the panel pins are the combined thickness of the skirting and the wall lining **plus** 11/16″ **(**17mm).

Do not hammer too hard against the bottom plate. This may damage the channel through which the door leaf slides.

14 Removing the door leaf (drawing **V** & **Y**).
Slide the extended end of the wrench supplied down the threaded part of the hanger shaft of the carriage and fit it over the hexagonal nut at the bottom.
Use the extended part of the wrench to press down the plunger pin that points up from the mounting plate (drawing **Y**).
Once this pin is fully depressed you can slide the wrench sideways in the direction of that pin. The whole carriage, including the shaft will come loose from the mounting plate.
It is not always easy to slide the wrench sideways. You could relieve the weight of the door by putting a thin wedge between door and floor.
Do the same with the second carriage.
To remove the T-guide: lift the unlocking clip (drawing **X**) and pull the black nylon T-guide forward. Use a hook to aid removal if required.

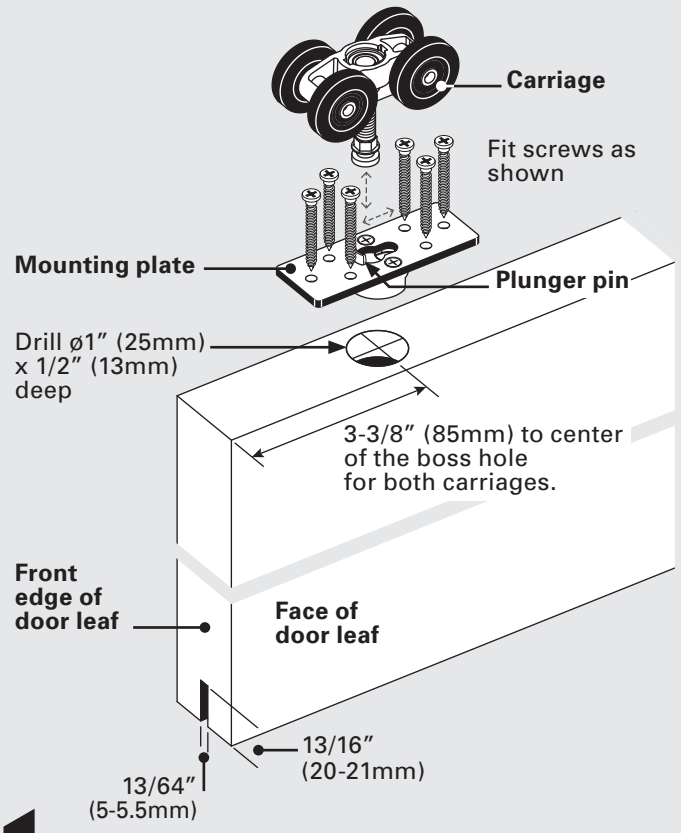
15 WARNING (drawing **V** and **W**).

CS Cavity Sliders require the track running surface to be clean and free of any contamination or damage. For smooth reliable service, the tires on the carriage should not be chipped, dented or have swarf embedded in the tire.

Please ensure you take extra care with the carriages to avoid any damage during the installation process.

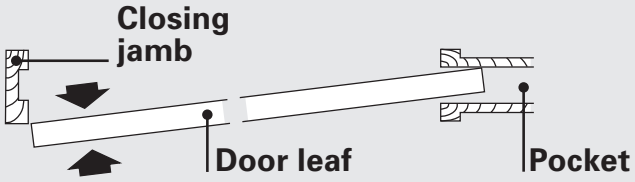
Y FITTING YOUR **OWN** DOOR

See points 1, 2 and 14.



Z DOOR REMOVAL

See point 14.



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