

HowTO install this FramelessGlass™ Single sliding door unit.



Before you start:

READ this HowTO(Installation Instructions) CAREFULLY!

(It could save you
lots of work!)

Other CS FramelessGlass units
are covered by this HowTO.
They are:

Serveries™ (SERV)

Check out the full range of products and use
our online calculator at: www.csfordoors.co.nz

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

Another quality product from:

FOR DOORS

WHAT YOU NEED TO KNOW FIRST.

Construction of the wall.

The wall referred to in these instructions is ex 100mm x 50mm wooden framework. In reality this may mean a 94mm x 47mm or 90mm x 45mm 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 100mm x 50mm timber fixing plate into the opening on both sides and under the head. Fix these in place with ø10mm x 98mm long countersunk masonry anchors at 400mm centres.

Lintel or trimmer sizes.

CS CavitySliders 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.

Timber lintels sized from NZS3604 are acceptable if the weight of the door leaf/leaves is less than 75kg/m total door width. If heavier, specific design is required for all other kinds of structural components and for the timber lintels.

The hole in the wall.

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

CS FramelessGlass Single unit

Height = door height (glass + clamp) + 95mm

Width = (door width x 2) - 70mm
(for 100mm door protrusion)

Standard clearances under the door.

With this CS FramelessGlass unit sitting hard on top of the concrete or timber floor, the clearance under the door leaf ranges between 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 30mm clearance under the door: pack the CS FramelessGlass unit off the floor by the extra amount you need.

If you need **less** than 22mm clearance under the door leaf (e.g. for polished timber floors) there are two options to do this:

- A A door leaf up to 15mm taller can be fitted.
- B The whole cavity can be made up to 15mm shorter (only available when pre-ordered.)

Contamination of the top track.

Never drill, nail or screw through the centre section of the track. Make sure no dirt, grit or aluminium swarf gets into the track. This could impair the smooth running of the carriages.

Fixing cavity slider to the floor

Installing the cavity slider 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 cavity slider behind the split jambs) is only secured once you have ensured door is running parallel to the cavity pocket.

Go to page **3** (overleaf) →

NOW FOR THE INSTALLATION.

1 Remove packaging & check components.

Lay the CS FramelessGlass unit flat on the ground in front of the door opening.

Remove the transportation cleat (if still fitted) from the bottom plate assembly. (Take out the two screws and the three staples.)

Check for any obvious product defects.

If anything looks out of specification or you are unsure, contact CS before beginning your install.

2 Fit the glass (if not already fitted).

Refer to 'Hanging your own glass' (Instruction 16).

Note: This CS FramelessGlass unit has been supplied with woolpile seals fitted to the split jambs only. Seals for the head jambs and closing jamb are supplied loose. Please prepare and paint the jambs before installing the seals, glass and cavity slider. This will ensure paint does not damage the seals.

3 Fit the closing jamb to the unit (drawing X & W).

Use 2 screws 8 gauge x 25mm long, as supplied. If you wish to install the closing jamb guide to help guide the door, you will need to trim the woolpile seal (instruction 10, drawing Y).

4 Place the whole unit into the framed opening in the wall.

Check that the jack studs on both sides of the door opening are plumb in both directions.

5 Fix the aluminium back stud.

Plumb-up the two timber split jambs (drawing W). Use a level!

While keeping the timber split jambs plumb, pack behind the aluminium back stud as shown. Screw the aluminium back stud including the packing to the 100mm x 50mm jack stud through the pre-punched holes.

Timber studs: use 8 gauge x 29mm wood screws.

Steel studs: 8 gauge x 29mm self-tapping screws.

(For NCJ detail option the track should butt into the finished wall lining. Refer to the Additional HowTO Information sheet).

6 Level the track (drawing X).

The track must be fitted level and straight.

The track for all units with doors over 910mm wide must be fixed to the lintel at 600mm centres through the aluminium flanges on both sides of the track.

Counter bore the timber pelmet blocks (drawing X) so that the screw heads pull hard up under the aluminium flanges.

Fit the first screws 100mm back from the closing jamb end of the track.

Note: you need to remove the 'removable pelmet block' first.

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

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

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

For **Full-Height** (FH) detail option: The bottom of the track should finish flush with the underside of the finished ceiling (refer to the Additional HowTO Information sheet).

7 Fix the closing jamb (if required) (drawing W).

Plumb closing jamb. Use a level!

Pack and nail at 500mm centres to the jack stud through the recessed centre section of the closing jamb and packing.

First: fix the top of the closing jamb (drawing W).

Second: fix the bottom of the closing jamb.

- 7 For **timber**: use ø2.8mm x 60mm nails.
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 level to make sure that the closing jamb is straight and plumb.

8 Fix the bottom plate assembly (drawing U).

Before fixing bottom plate assembly, ensure U-guide carrier and U-guide are in position. The U-guide will need to be removed temporarily if fitting your own glass.

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 bottom plate assembly to the floor as follows:

■ To **concrete** floors: Fix with 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 ø3.15mm x 75mm nails on either side in the centre of the skirting fixing block thickness. (See the red stamped ⊕ on the timber).

Pre-drill ø3mm holes for these nails.

9 Adjust the door height (drawing V).

Use the small end of the spanner supplied to rotate the hexagonal nut at the bottom of the carriage hanger shaft. Adjust the door for plumb.

To **raise** door: Rotate spanner from **left to right**.

To **lower** door: Rotate spanner from **right to left**.

Note: The top of the hanger shaft screws into a self-locking nut. If the hexagonal nut is turned downwards too far, the shaft will become loose from the self-locking nut. If the turning resistance suddenly feels much easier, you have gone too far.

10 Fit the closing jamb U-Guide

(if required, drawing Y).

Pull the wool pile seal inside the closing jamb up 5mm out the top of the jamb.

Use a knife and cut this extra seal off to fit the guide into the closing jamb.

Align the U-guide with the closing jamb. Fit guide by squeezing the sides together and sliding into the jamb (drawing Y).

11 Fit the head jambs (drawing X).

(if not already fitted). Before fitting head jambs, check that you have the desired clearance under the door (instruction 9) and that the door is plumb. Slide the head jamb into place between the vertical jambs. When installing a unit with NCJ detail scribe to suit the distance between the split jamb and opposing wall. (Refer to the Additional HowTO Information sheet.)

Flush up the joints, then screw them into place with the 8 gauge x 32mm long countersunk head screws (as supplied).

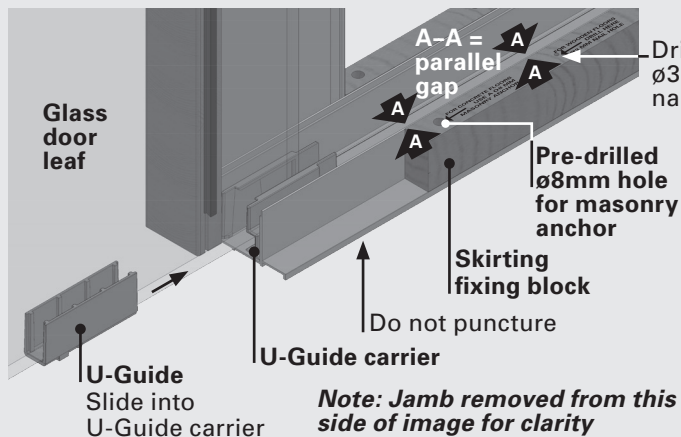
Gently tap wooden plugs to cover the screw heads.

For Serveries units (SERV) the sill (if requested) should not be thicker than 25mm and fit neatly between the vertical jambs.

FINISHING THE INSTALLATION.

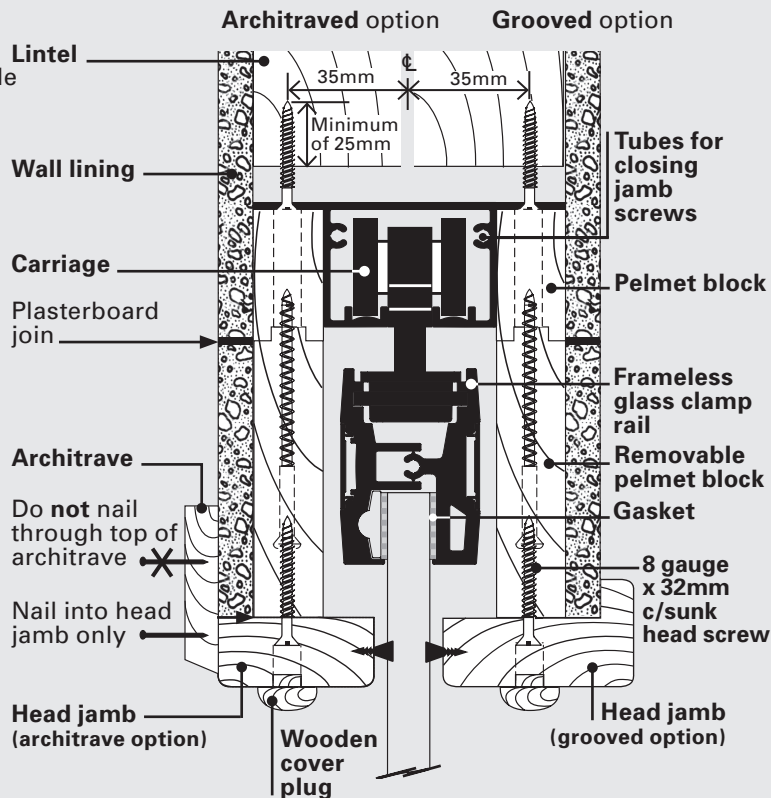
U BOTTOM PLATE ASSEMBLY

See points 8, 14, 15 and 16.



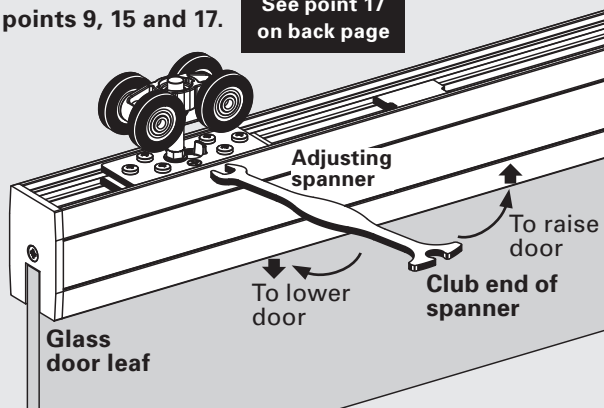
X TRACK CROSS SECTION

See points 3, 6, 11, 12, 13 and 16.



V ADJUSTING & REMOVING CARRIAGES

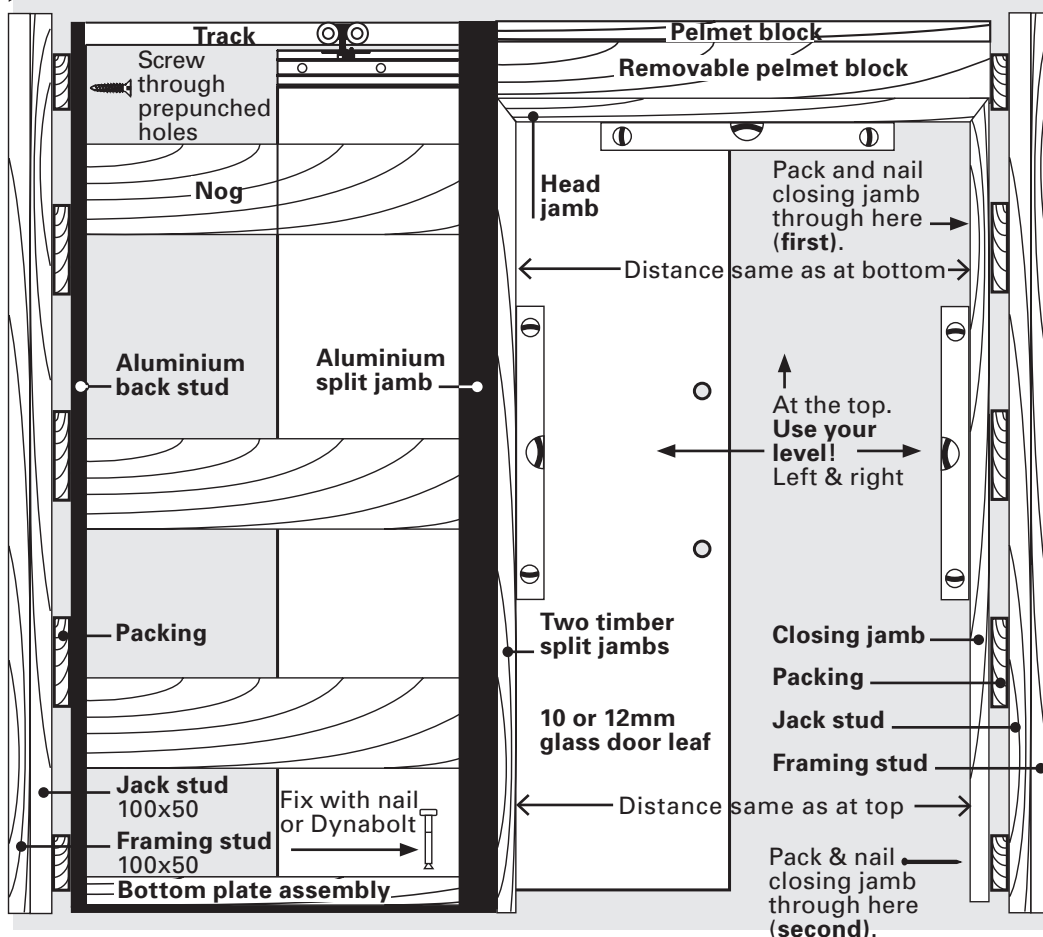
See points 9, 15 and 17.



WARNING
See point 17
on back page

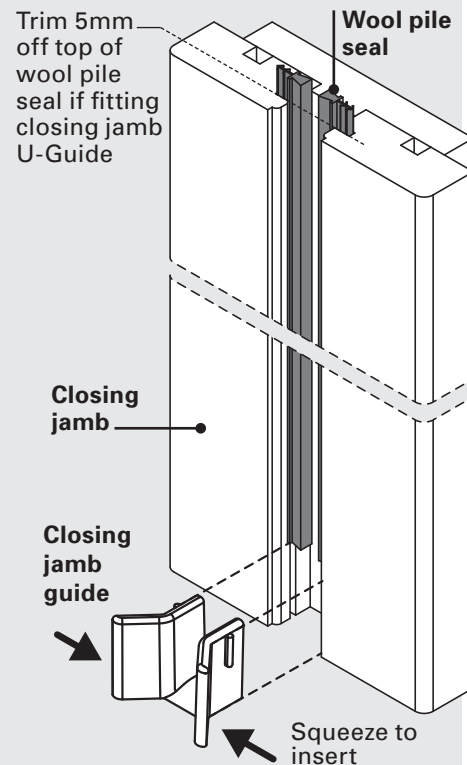
W ELEVATION

See points 5 and 7.



Y CLOSING JAMB GUIDE

See points 3 & 10.



12 Fix the wall linings.

Wherever possible, linings should only be glued on. Use short plasterboard fixing screws to hold linings in place until glue is dry. For 10mm linings use maximum 25mm long plasterboard fixing screws. We recommend sealing the inside of all plasterboard linings and mdf architraves. When fixing linings over the pelmet area, ensure you create a plasterboard join over the pelmet where the removable pelmet meets the smaller fixed pelmet (drawing X).

13 If fitting architraves (drawing X).

Nail the architraves to the four vertical jambs and the two horizontal head jambs. Use panel pins with a maximum length of 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 wall linings **plus** 15mm. Note: Nail the horizontal architraves to the head jambs; however do **not** nail them to the timber pelmet blocks above the head jamb.

14 If fitting skirtings (drawing U).

When you fix the skirtings, make sure that you do **not** puncture the aluminium extrusion of the bottom plate assembly. The maximum length of the panel pins are the combined thicknesses of the skirting and the wall lining **plus** 17mm.

15 Removing the door leaf (drawing U & V).

Slide U-guide out from carrier before removing the door (drawing U). Fit the club end of the adjusting spanner over the hexagonal nut at the bottom of the hanger pin (drawing V). Use the extended part of the spanner to press down the plunger pin that protrudes up from the mounting plate. Once this plunger is fully depressed, slide the spanner sideways towards the plunger pin. The whole carriage (including the shaft) will now disengage from the mounting plate. It is not always easy to slide the spanner sideways. You may need to relieve the door's weight by putting a wedge between door and floor. To remove the carriages: Slide them out of the notched end of the track.

16 Hanging your own glass (drawing U, Y & Z).

Temporarily remove the U-Guide from the U-Guide carrier (drawing U). Ensure glass clamp gaskets (supplied by CS) are in place on both sides of the clamp assembly as shown (drawing X). The M8 bolts have been lubricated in preparation for the torque tightening. Loosen off the M8 x 30mm countersunk machine bolts enough to slide glass into position so that the top edge of the glass is in the clamp. You may need to loosen the machine screws holding the mounting plate in place to do this. Check notch position before hanging glass: When wide notch on clamp spacers sits as shown (drawing Z), the clamp suits 10mm glass. Rotate 90° for 12mm glass. Clamp spacers must be in line with bolts. Once in place, tighten bolts off using a torque wrench to 27Nm. Re-tighten mounting plate screws. Fit end cap(s) and bolt head cover extrusion if required. These may be required for aesthetic purposes when Full-Height detail option is chosen. Use a mallet and block of wood when fitting bolt head cover extrusions to avoid denting the extrusion.

16 Load the carriages through the notched end of the track.

Position the door underneath the carriages. Raise the door up so that the round head of the wheel hanger shaft lines up with the keyhole shaped hole in the mounting plate.

Depress the plunger using the wheel hanger shaft head and slide sideways until it snaps into locked position. Repeat for the other carriage.

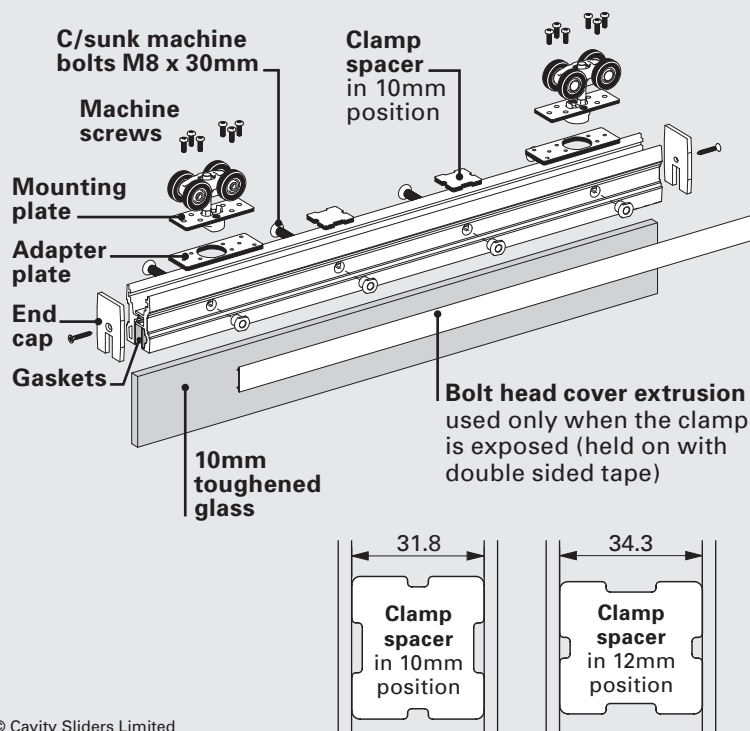
Slide U-Guide into U-Guide carrier after door is installed (drawing U).

17 WARNING (drawing X).

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

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

Z HANGING YOUR OWN GLASS See point 15.



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CS FOR DOORS

Cavity Sliders Limited
Auckland Head Office

5 - 7 Rakino Way
Mt Wellington

PO Box 112349, Penrose
Auckland 1642, NZ

T 09 276 0800
F 09 276 2525

CavitySliders®

CaviLock®
Handles & Locks for Sliding Doors

info@csfordoors.co.nz
www.csfordoors.co.nz

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*Guarantee conditions apply. Contact CS FOR DOORS for details

HowTO install this FramelessGlass™ Bi-Parting sliding door unit.



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FOR DOORS

WHAT YOU NEED TO KNOW FIRST.

Construction of the wall.

The wall referred to in these instructions is
ex 100mm x 50mm wooden framework.

In reality this may mean a 94mm x 47mm or
90mm x 45mm 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 100mm x 50mm timber fixing plate into the
opening on both sides and under the head.

Fix these in place with ø10mm x 98mm long
countersunk masonry anchors at 400mm centres.

Lintel or trimmer sizes.

Our cavity sliders are non-loadbearing units.

They require the lintel (or trimmer, ceiling joist
or whatever structural component) directly above
the track to span the full trim size opening width.

Timber lintels sized from NZS3604 are acceptable
if the weight of the door leaf/leaves is less than
75kg/m total door width. If heavier, specific
design is required for all other kinds of structural
components and for the timber lintels.

The hole in the wall.

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

CS FramelessGlass Bi-Parting unit

Height = door height (glass + clamp) + 95mm

Width = (door leaf width x 4) - 190mm
(for 100mm door protrusion)

Standard clearance under the door.

With this CS FramelessGlass unit sitting hard on
top of the concrete or timber floor, the clearance
under the door leaf ranges between 22 - 30mm
(adjustable). The majority of this standard
clearance is taken up by the floor covering
(e.g. carpet, tiles etc.).

Modified clearance under the door.

If you require **more** than 30mm clearance under
the door: pack the CS FramelessGlass unit off
the floor by the extra amount you need.

If you need **less** than 22mm clearance under the
door leaf (e.g. for polished timber floors) there
are two options to do this:

A A door leaf up to 15mm taller can be fitted.

B The whole cavity can be made up to 15mm
shorter (only available when pre-ordered).

Contamination of the top track.

Never drill, nail or screw through the centre section
of the track. Make sure no dirt, grit or aluminium
swarf gets into the track. This could impair the
smooth running of the carriages.

Fixing cavity slider to the floor

Installing the cavity slider 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 cavity slider behind the
split jambs) is only secured once you have
ensured door is running parallel to the cavity
pocket.

Go to page **3** (overleaf) →

NOW FOR THE INSTALLATION.

1 Remove packaging & check components.

Lay the units flat on the ground in front of the door opening.

Remove the transportation cleat (if still fitted) from the bottom plate assembly. (Take out the two screws and the three staples.)

Check for any obvious product defects.

If anything looks out of specification or you are unsure, contact CS before beginning your install.

2 Fit the glass (if not already fitted).

Refer to 'Hanging your own glass' (Instruction 13).

Note: This CS FramelessGlass unit has been supplied with woolpile seals fitted to the split jambs only.

Seals for the head jambs are supplied loose. Please prepare and paint the jambs before installing the seals, glass and cavity slider. This will ensure paint does not damage the seals.

3 Prepare and place both units as a pair into the framed opening in the wall.

Check that the jack studs on both sides of the door opening are plumb in both directions (drawing Z).

Ensure that the tracks are connected neatly together with alignment pins provided (drawing Y). These fit into the track screw tubes.

4 Fix the aluminium back studs. Plumb-up the two timber split jambs (drawing W). Use a level! While keeping the timber split jambs plumb, pack behind the aluminium back studs as shown. Screw the aluminium back studs including the packing to the 100mm x 50mm jack stud through the pre-punched holes.

Timber studs: use 8 gauge x 29mm wood screws.

Steel studs: 8 gauge x 29mm self-tapping screws.

5 Level the tracks (drawing W).

The tracks must be fitted level and straight.

The tracks must be fixed to the lintel at 600mm centres through the aluminium flanges on both sides, starting 50mm back from the track meeting point.

Counter bore the timber pelmet blocks (drawing Y) so that the screw heads pull hard up under the aluminium flanges.

Note: you need to remove the 'removable pelmet block' first.

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

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

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

For **Full-Height** (FH) detail option:

The bottom of the track should finish flush with the underside of the finished ceiling (refer to the Additional HowTO Information sheet).

6 Fix the bottom plate assembly (drawing U).

Before fixing bottom plate assembly, ensure U-guide carrier and U-guide are in position. The U-guide will need to be removed temporarily if fitting your own glass.

The doors 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 they do.

The doors should now slide smoothly and butt neatly together when both doors are closed in the centre. Fix the bottom plate assembly to the floor as follows:

6 To **concrete** floors: Fix with 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 ø3.15mm x 75mm nails on either side in the centre of the skirting fixing block thickness. (See the red stamped ⊕ on the timber). Pre-drill ø3mm holes for these nails.

7 Adjust the door heights (drawing X). Use the small end of the spanner supplied to rotate the hexagonal nut at the bottom of the carriage hanger shaft.

Adjust the doors for plumb, making sure they butt neatly together when closed (no gaps).

To **raise** door: Rotate spanner from **left to right**.

To **lower** door: Rotate spanner from **right to left**.

Note: The top of the hanger shaft screws into a self-locking nut. If the hexagonal nut is turned downwards too far, the shaft will become loose from the self-locking nut. If the turning resistance suddenly feels much easier, you have gone too far. With the head jambs not yet fitted, now is a good time to adjust where the doors stop.

The black plastic stop fitted to the mount plate is what contacts the track stop.

Using a 4mm Allen key, loosen the track stops and push them towards the cavity pockets. Gently slide each door towards the centre closed position (where the tracks meet) and then open again. Lock the track stops in place and test that the doors finish where you need them to stop.

8 Fit the head jambs

(if not already fitted) (drawing Y).

Before fitting head jambs, check that you have the desired clearance under the door, and that the two doors meet neatly together and are plumb (instruction 7). Slide the head jambs into place between the vertical jambs.

Flush up the joints, then screw them into place with the 8 gauge x 32mm long countersunk head screws (as supplied). Gently tap wooden plugs to cover the screw heads.

For Serveries units (SERV) the sill is not included unless asked for.

FINISHING THE INSTALLATION.

9 Fix the wall linings.

Wherever possible, linings should only be glued on. Use short plasterboard-fixing screws to hold linings in place until glue is dry. For 10mm linings use maximum 25mm long plasterboard-fixing screws. We recommend sealing the inside of all plasterboard linings and mdf architraves. When fixing linings over the pelmet area, ensure you create a plasterboard join over the pelmet where the removable pelmet meets the smaller fixed pelmet (drawing Y).

10 If fitting architraves (drawing Y).

Nail the architraves to the four vertical jambs and the two horizontal head jambs. Use panel pins with a maximum length of 25mm plus the thickness of the architrave.

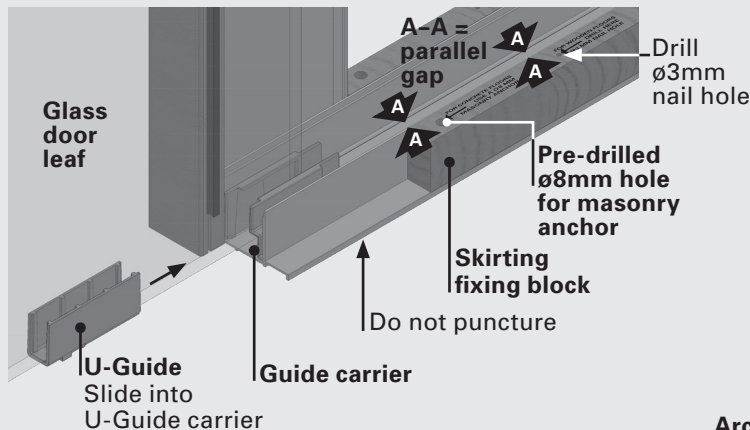
Nail the back of the architrave to the split jamb blocks using panel pins with a maximum length of the combined thickness of the architrave and wall linings **plus** 15mm.

Go to page **4** (overleaf) →

U BOTTOM PLATE ASSEMBLY

See points 6 and 11.

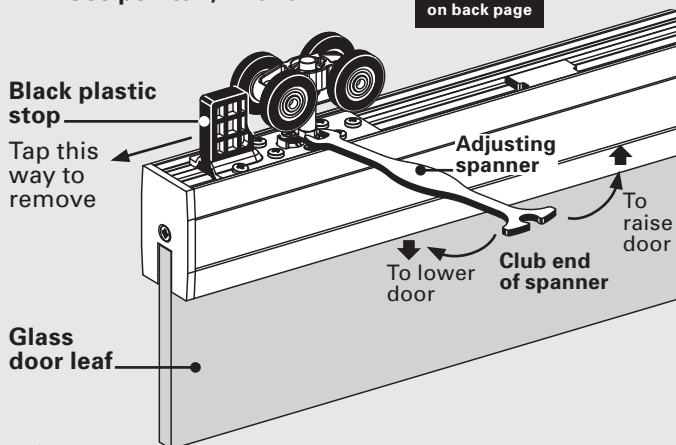
Note: Jamb removed from this side of image for clarity



X ADJUSTING & REMOVING CARRIAGES

See points 7, 12 and 14.

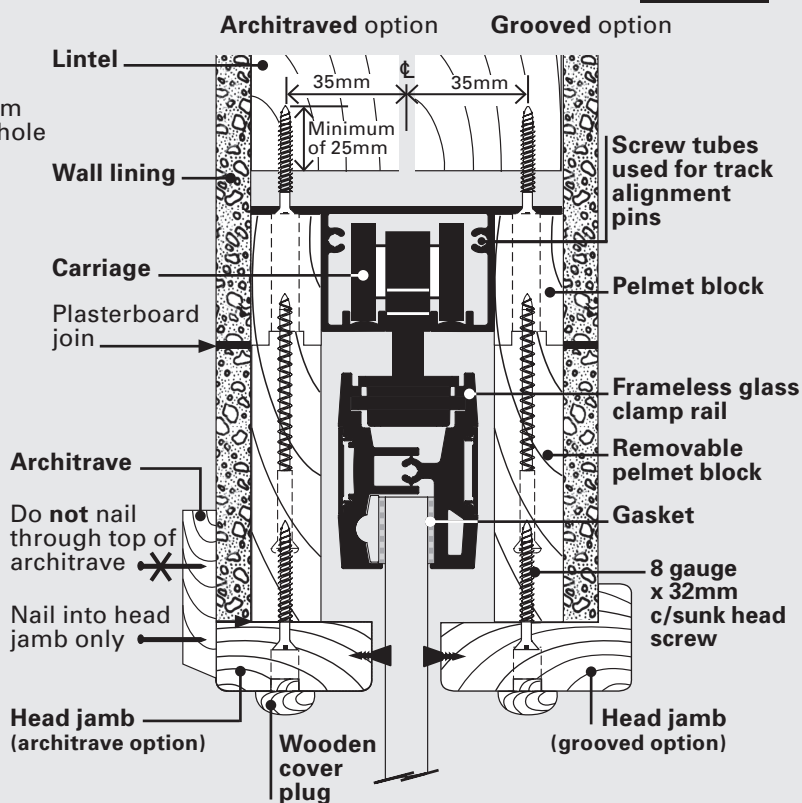
WARNING
See point 14 on back page



Y TRACK CROSS SECTIONS

See points 3, 5, 8, 9, 10 and 14.

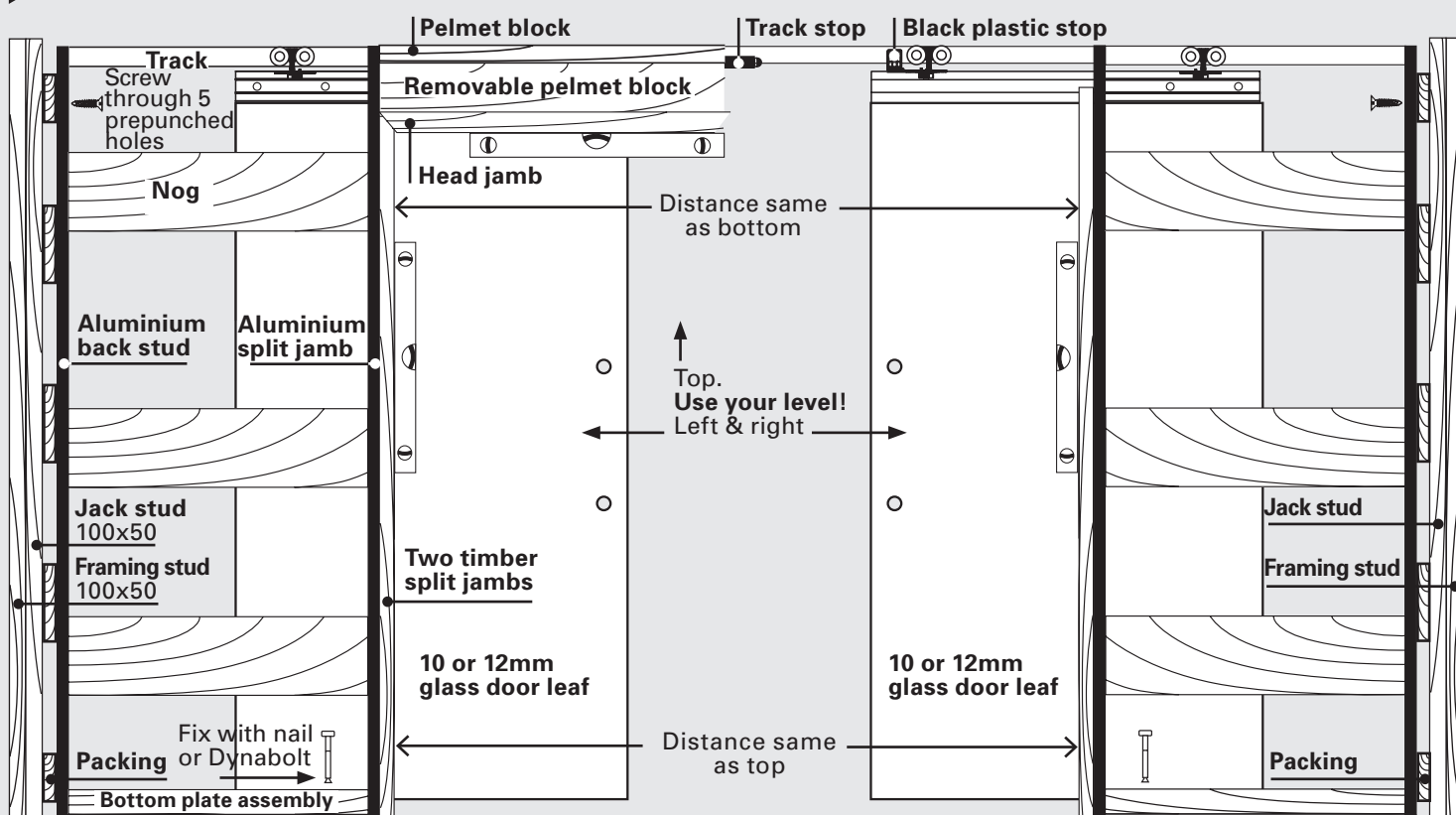
WARNING
See point 14 on back page



90	Real length of the nails, screws and bolts used in this HowTO.
75	
32	
30	
29	
25 mm	

W ELEVATION

See points 3, 4 and 5.



10 Note: Nail the horizontal architraves to the head jambs; however do **not** nail them to the timber pelmet blocks above the head jamb.

11 If fitting skirtings (drawing U).

When you fix the skirtings, make sure that you do **not** puncture the aluminium 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** 17mm.

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

12 Removing the door leaf (drawing X).

Slide U-guide out from carrier before removing the door (drawing U).

Remove the head jamb from one side (if fitted).

Fit the club end of the adjusting spanner over the hexagonal nut at the bottom of the hanger pin (drawing X).

Use the extended part of the spanner to press down the plunger pin that protrudes up from the mounting plate. Once this plunger is fully depressed, slide the spanner sideways towards the plunger pin.

The whole carriage (including the shaft) will now disengage from the mounting plate.

It is not always easy to slide the spanner sideways.

You may need to relieve the door's weight by putting a wedge between door and floor.

Do the same with the other carriages.

Finally, remove the black plastic stop that is tightly fitted into the mounting plate at the front of each door leaf. Remove this by tapping it out in the direction shown using a hammer and drift. If you want to take the carriages out: Slide them towards the centre of the opening.

Use a 4mm Allen key to remove the track stops fitted in the middle where the doors meet.

13 Hanging your own glass (drawing Y, Z & U).

Temporarily remove the U-Guide from the U-Guide carrier (drawing U).

Ensure glass clamp gaskets (supplied by CS) are in place on both sides of the clamp assembly as shown (drawing Y).

The M8 bolts have been lubricated in preparation for the torque tightening. Loosen off the M8 x 30mm countersunk machine bolts enough to slide glass into position so that the top edge of the glass is in the clamp.

You may need to loosen the machine screws holding the mounting plate in place to do this.

Important: Glass doors are weak along the narrow edge. Please ensure the supplied edge protector is fitted prior to bringing the doors together.

Check notch position before hanging glass:

When wide notch on clamp spacers sits as shown (drawing Z), the clamp suits 10mm glass. Rotate 90° for 12mm glass. Clamp spacers must be in line with bolts. Once in place, tighten bolts off using a torque wrench to 27Nm.

Re-tighten mounting plate screws.

Fit end cap(s) and bolt head cover extrusion if required. These may be required for aesthetic purposes when Full-Height detail option is chosen. Use a mallet and block of wood when fitting bolt head cover extrusions to avoid denting the extrusion.

Load the carriages into the track through the notch in the track.

4
PAGE

13 Position the door underneath the carriages. Raise the door up so that the round head of the wheel hanger shaft lines up with the keyhole shaped hole in the mounting plate.

Depress the plunger using the wheel hanger shaft head and slide sideways until it snaps into locked position. Repeat for the other carriages.

Re-fit the track stops to the tracks with each rubber buffer part pointing towards the cavity pocket. Temporarily tighten the cap screws.

Slide U-Guide into U-Guide carrier after door is installed (drawing U).

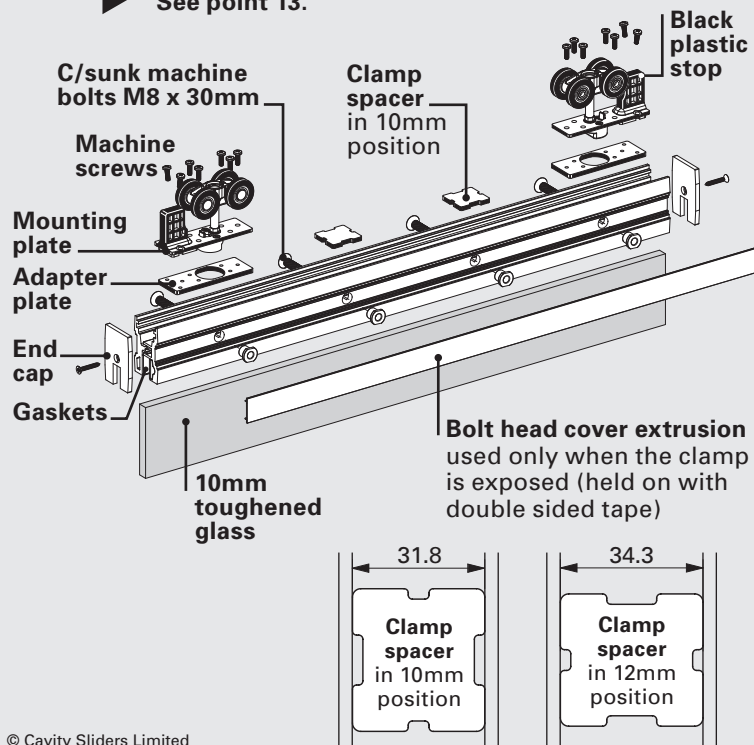
14 WARNING (drawing X and Y).

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

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

5
PAGE

Z HANGING YOUR OWN GLASS
See point 13.



CS FOR DOORS

Cavity Sliders Limited
Auckland Head Office

5 - 7 Rakino Way
Mt Wellington

PO Box 112349, Penrose
Auckland 1642, NZ

T 09 276 0800
F 09 276 2525

CavitySliders®

CaviLock®
Handles & Locks for Sliding Doors

info@csfordoors.co.nz
www.csfordoors.co.nz

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