

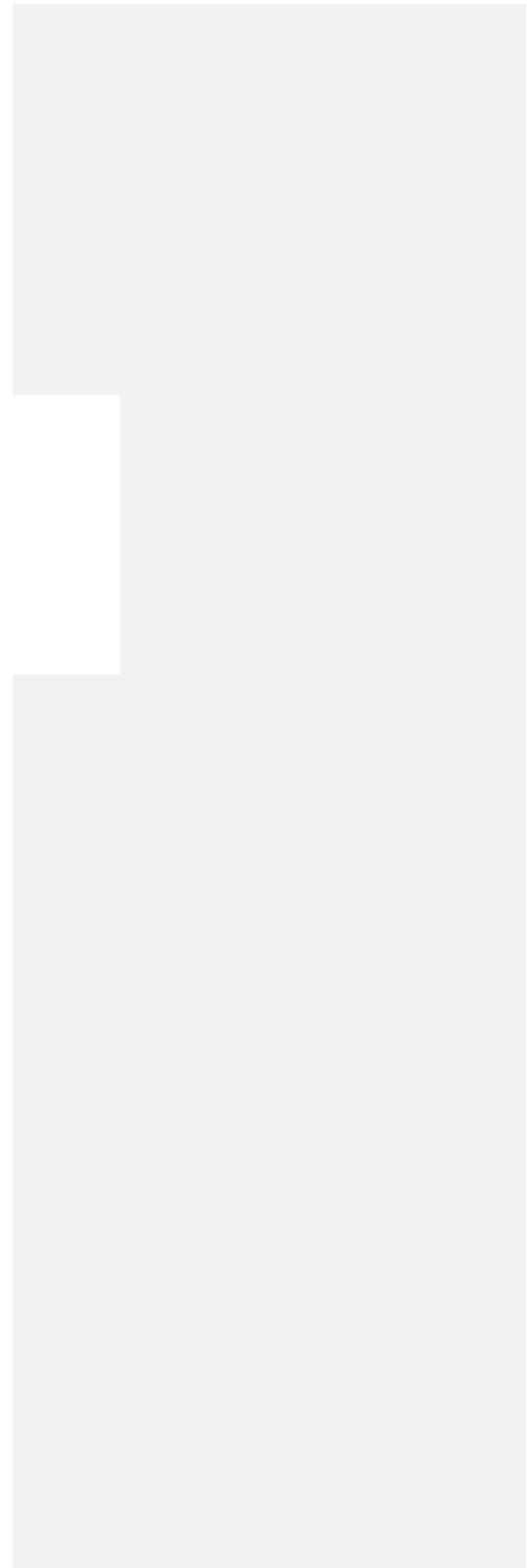
# **Installation Instructions**

**Easy Slide Doors  
Easy Slide Windows**

innotech

Version 1.0

**Receiving  
Handling  
Storage  
Installation**



## Contents

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Product details and specifications are subject to change without notice.

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## Caution

Failure to follow the following instructions or provide proper care and maintenance may void the product warranty. For the most recent version of these instructions and additional product care resources, visit [www.innotech-windows.com/resources](http://www.innotech-windows.com/resources) or contact your Innotech representative.

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## WARNING!

**Warranty does not cover damage to products.**

**Permanent fasteners penetrating door flanges after installation can result in damage to the doors.**

**Exterior cladding that restricts differential movement between the cladding and the door frames can result in damage to the doors.**

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## Videos

Innotech has several how-to videos that provide additional information for the successful installation and maintenance of our products. Visit [www.innotech-windows.com/resources](http://www.innotech-windows.com/resources) to watch the videos.

# 1 Before you start

## 1.1 Innotech products—different by design

You are receiving high quality fenestration products that have unique operating features. The instructions for handling, storing, and installing these products may be different from other sliding door products you have installed. **Please read these instructions carefully before you begin installation.**

## 1.2 Shop drawings

If you have received Innotech shop drawings, refer to them for **specific installation instructions** that may differ from this document. Shop drawings contain important information about the products such as the spacing and type of anchoring method to be used.

## 1.3 Exterior finishes and Innotech products

The flanges on Innotech Easy Slide Doors and Easy Slide Windows are **not** nailing flanges. They must not be used to anchor the doors to the wall structure. They are only intended to help position the product against the wall. **Fasteners penetrating the flanges can cause operating problems and product damage that is not covered by warranty. No permanent fasteners are to penetrate door flanges after door installation. Builder shall notify all trades of this requirement.**

Exterior cladding must not impose loads on door frames or restrict thermal movement. **Exterior cladding details must allow for differential movement between the cladding and the door frames.** A recommended 3/8" dynamic expansion joint is required between fenestration products and cladding products.

As these requirements may differ from local construction practice, Innotech strongly recommends that the builder and building designer review exterior finishing details and coordinate the work of trades to ensure that fasteners used to attach exterior finishes and flashings do not penetrate Innotech mounting flanges and to ensure that cladding details allow for differential movement between the cladding and the door frames.

## 1.4 Building codes

Innotech manufactures quality products designed according to information provided by the purchaser. It is the responsibility of the owner, architect or builder to select and install products in compliance with all applicable laws, regulations and building codes.

## 1.5 Building interface detailing

These instructions show you how to place, shim and anchor the Easy Slide Door or Easy Slide Window to the building. They do not show you how to apply all the sealants, flashings, or barrier membranes required for a code compliant and weather-sealed installation.

Before installation consult the **authority having jurisdiction** (architect, building envelope consultant, local building department and/or building inspector) about requirements for weather-tight installation, including use of flashings, sealants and barrier membranes.

## 1.6 Second Plane of Protection

In a door and window installation the exterior sealants and barrier membranes create the first plane of protection against water penetration. Some building codes require doors to be installed with a **Second Plane of Protection** to prevent water that penetrates the first plane of protection from entering the wall or the building interior.

Innotech agrees with the consensus of most building envelope professionals that the most effective way to provide a second plane of protection is to **seal the interior plane of the fenestration product to the rough opening on all four sides** to prevent the passage of air and wind driven water.

There are several best practice methods applied by industry to achieve an effective second plane of protection. Consult with the authority having jurisdiction for the optimal method for your specific project.

## 1.7 Key installation principle

**Innotech products must be installed plumb, level and square to operate properly.** The installer must install them this way even if openings are not square and/or walls are not straight or plumb.

### Caution

Damage to Innotech products caused by inadequate clearances or building structure deformations is not covered by warranty.

## 1.8 Clearances and rough opening tolerances

To allow for potential building movement and construction tolerances, Innotech recommends the following clearances between the door frame and the rough opening:

For Easy Slide doors up to 16' wide:

- **Minimum clearance at the header 3/4" (19 mm)**
- **Minimum clearance at the jambs 1/2" (12 mm)**

For Easy Slide doors over 16' wide with a steel beam header:

- **Minimum clearance at the header 5/8" (19 mm)**
- **Minimum clearance at the jambs 1/2" (12 mm)**

For Easy Slide doors over 16' wide with a wood header:

- **Minimum clearance at the header 1" (25 mm)**
- **Minimum clearance at the jambs 1/2" (12 mm)**

## 1.9 Inter-storey deflection

The structure above all door openings must be designed to limit deflection due to dead loads and live loads.

**The maximum allowable deflection of the structure above or below the Innotech window or door is  $\pm 3/8"$  (10 mm).**

## 1.10 Rough opening condition

Inspect all rough openings to see if they are square, have a level sill, and plumb (vertical) jambs. Use a long level or laser level vertically to see if the outside face of the wall is straight and plumb at door jambs.

If a rough opening is out-of-square, adjust the thickness of the support shims to make sure that you install the door frame in a square, level and plumb way, even if the rough opening is not. If the outside face of a wall is bowed or leaning, install the door to be vertical.

Thoroughly inspect the subsill base for the door. The sill must be perfectly level both along the long width and across the depth of the wall. Maximum tolerance of the subsill base must not exceed 1/16" (1.6 mm) across the entire width. The depth of the subsill must be exactly level to prevent torsion forces affecting the door sill.

Sometimes rough openings or wall conditions need to be corrected to achieve a satisfactory installation. **If you see any rough openings that are not acceptable for door installation, notify the general contractor or the party responsible for the construction.** Explain to the general contractor that a satisfactory rough opening must allow you to install the frame level, square, straight in every direction and plumb, and must provide a minimum of clearance as indicated in heading 1.9.

### WARNING!

**Inspect the rough openings and notify the general contractor or the responsible party of rough opening defects BEFORE you start installation.**

**In many jurisdictions start of installation work indicates acceptance of existing conditions.**

**Installer will be responsible for operating problems arising from improper installation.**

## 1.11 Compatibility of materials

Sealants, adhesives, adhesive tapes and barrier membranes used with Innotech doors must be **compatible and safe for use with rigid PVC and painted or laminated colour finishes**. Installer or authority having jurisdiction is responsible to select compatible materials. The Innotech warranty does not cover damage to Innotech products or surrounding materials arising from the use of incompatible or unsuitable products.

For information about sealants known by Innotech to be compatible with Innotech finishes, see heading 5.1 *Compatible sealants*.

If you are not sure what the finishes are on the Innotech products you are installing, contact your Innotech representative.

## 1.12 Protecting Innotech products

You are responsible for damage to the products from the time they are delivered until they are installed and turned over to the owner.

### 1.12.1 Protecting installed products

**Protect doors from all construction damage.** Do not block sashes in the open position with lumber or other materials.

Keep door sills free of dust, dirt and construction debris. Ensure gaskets are not damaged or dislodged. Ensure drain slots are not blocked.

Protect doors and windows (frames, glass, sill and handles) from welding spatter, grinding sparks, concrete, mortar, stucco, drywall mud, paint and other harmful construction materials and practices.

**Protect installed doors and windows from acid solutions used to wash masonry. These solutions are corrosive and will damage door framing, glass, hardware, and flashings.** If acid solution comes in contact with doors or windows, immediately rinse all surfaces with clean water.

Do not use metal scrapers, paint thinners, chemical solvents or abrasive cleaners to clean any part of the glass or framing on Innotech products during or after construction.

### 1.12.2 Protective tapes and protective films

Innotech door frames may have protective plastic tape applied to interior and exterior surfaces to protect them during manufacturing and handling. Glass surfaces may have protective film applied to interior and exterior surfaces. *Protective tapes and films may not be present on some products for specific technical reasons.*

- Protective tape on EXTERIOR frame surfaces must be removed as soon as products are installed.
- Protective film on EXTERIOR glass surfaces must be removed within six months of installation.

Protective tape left on exterior frame surfaces can begin to fuse to the product surface from warm temperatures and exposure to the sun. Failure to remove the protective plastic tape at the time the frames are installed

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### WARNING!

**Removal of protective film can cause sparks of static electricity and can ignite combustible liquids used nearby.**

may cause the tape to bond to the frame and may permanently damage the frame finish.

Protective film must be removed very carefully in the presence of flammable and explosive chemicals and gases. Removal of protective film can cause **sparks of static electricity** and can ignite combustible liquids used nearby.

To reduce potential for creating sparks do one or more of the following:

- Mist the surface of the film with a light water spray.
- Remove film slowly.
- Touch film to glass surface often while you are removing it.

For more information on protective films, visit:  
<https://www.cardinalcorp.com/products/insulating-glass/preserve-protective-film/>

### 1.12.3 Final Cleaning and Commissioning

After installation, clean and commission doors following the Final Cleaning and Care and Maintenance instructions found at **[www.innotech-windows.com/resources](http://www.innotech-windows.com/resources)**.

Innotech products must only be cleaned with a mild soap solution, non-abrasive rags or sponges, and rinsed with clean water.

- Do not use metal scrapers to remove substances from frames or glass.
- Do not use abrasive cleaners.
- Do not use any kind of chemical solvent on any surfaces of the product.
- Do not use lubricants containing silicone or graphite. Use of such products may permanently damage the hardware and product finishes.

## 1.13 Notice of field testing and validity of field test results

Innotech will honour performance guarantees made in writing but insist that our product performance must be verified in a fair and responsible manner.

Field testing for water penetration is ONLY valid if the test unit(s) is correctly installed, free of construction damage, cleaned of construction debris, and adjusted to operate properly. **Innotech SHALL BE NOTIFIED in advance of such tests and be given adequate opportunity to inspect products to be tested if Innotech so chooses.**

**INNOTECH SHALL NOT BE BOUND BY THE RESULTS OF TESTS PERFORMED BY UNCERTIFIED OR UNQUALIFIED TEST AGENTS, BY TESTS THAT ARE NOT FULLY DOCUMENTED ACCORDING TO THE REFERENCED TEST SPECIFICATIONS, OR BY TESTS CARRIED OUT WITHOUT PROVISION OF ADEQUATE ADVANCE NOTICE.**

### TIP

If the protective film is removed, make sure not to remove the glass sticker that indicates the product ID and location of the glass.

### WARNING!

**Metal scrapers, chemical solvents and acidic masonry cleaning solutions will permanently damage door finishes. Damage from inappropriate cleaning methods is not covered under warranty.**

## 2 Materials and tools required

### 2.1 Materials and tools required


Spirit levels	24", 48" and 72" levels. Long levels are more accurate and allow you to also check the straightness of walls and window/door products.
Laser level	
Multi tool	
Glazing spoon (shovel)	
Soft rubber (glazing) mallet	
Tape measure	
Power drill	with Phillips drill bit (PH2 bit)
Flat pry bar	
Silicone gun	
Silicone	Tremco Spectrem® 2 translucent silicone
Vacuum (suction) cups	Minimum two vacuum cups are recommended for handling large heavy windows and doors. See heading 3.3.5 <i>Use vacuum cups to carry frames with glass</i> on page 14.

#### WARNING!


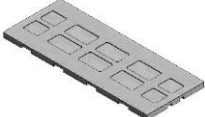
Treated wood products can be corrosive to many commonly used fasteners.

Installer or authority having jurisdiction is responsible for selecting fasteners that are compatible with the substrates into which they are fastened.

### Installation Instructions

	
Sealants and membranes	Sealants and barrier membranes for air and water seal at perimeter joints shall be compatible with rigid PVC, with building substrates, and with one another.
Jamb installation shims, various thicknesses	Installation shims made of composite or plastic.

## 2.2 Materials supplied by Innotech

Fasteners for pre-drilled installation holes (one per hole)	Screw 7.5x102 AMO III Type 2 (head 8.0mm) with AW30 (Torx), for window/door installation 
Glazing shims	
Handles and keys	Handles and screws are in a box with plastic bags. Keys are supplied for doors that have key lock cylinders.

## 3 Receiving, handling and storage

### 3.1 Receiving and inspection

Carefully inspect the products when you receive them. Any visible defects of must be reported to the Innotech representative or dealer within 24 hours of receiving them.

Inspect products again before you install them to make sure they have not been damaged on the jobsite. Report any jobsite related damages to your Innotech representative to determine if product can be safely installed.

### 3.2 Safely unloading products from steel racks

Innotech products are delivered on steel racks and secured with ratchet straps (tie-downs).

Products may have shifted during transportation. Always use extreme caution when unloading doors and windows from steel racks.

**To mitigate potential accidents, always evaluate and take precaution of surface, steel rack and product conditions before starting to unload.**

#### 3.2.1.1 Place steel racks on level surface to attain safe lean angle

To prevent steel rack from tipping, place steel rack on a level surface. Due to varying product weight and surface conditions, it may be necessary to use small wooden shims (about 1-1 ½" thick) to attain a safe lean angle.

To begin, place the steel rack on a level and even surface. If surface is not level, place shims or blocks under the front legs of the steel rack to *slightly* distribute the weight of the product to the back. Do not exceed safe lean angle as this may cause the steel rack to tip backwards.

#### 3.2.1.2 Carefully remove ratchet straps

Steel racks are loaded with largest and heaviest product(s) at the back. Unload front product(s) first. While unloading front product(s), back product(s) must remain secured to the rack.

With at least two or more people, carefully remove the ratchet straps one at a time, starting with the most forward ratchet strap. Depending on the size of the product(s), at least one person should hold the product(s) while the other slowly loosens and removes the ratchet strap. Only remove the ratchet strap if necessary; when possible, leave ratchet strap secured to the back product(s) while unloading the front product(s).

**Never remove all ratchet straps at once. Never leave product unsecured or unattended on the steel rack.**

**WARNING!**

Use extreme caution when handling and unloading products from steel racks.

Always unload steel racks with at least two people.

Never leave product unsecured or unattended on steel racks.



### 3.3 Handling and moving products

Handle doors and windows carefully. Mishandling frames can cause cracks and can separate screwed connections. Cracked, bent, and damaged frames are signs that the products have not been handled correctly – damage due to mishandling is not covered by warranty.

#### 3.3.1 Safe handling practices

**The installer is responsible for safe handling of heavy products,** for selecting appropriate handling equipment, and for the safety of the installation crew. The guidelines that follow are provided to help the installer to follow practices that will prevent damage to the products due to mishandling.

#### 3.3.2 Use two or more people to carry frames

Innotech products are heavy. Always use at least two people to carry them; most large products will require at least four people to carry them. Do not drop these products. Use slow and gentle movements.

#### 3.3.3 Carry products vertically

Products are delivered in a vertical position and resting on one edge that has support blocks attached. Make sure doors and windows are vertical when you move them and when you put them down. Always lift frames safely and gently.

Avoid the following handling practices:

- Do not carry Innotech products tilted at a sharp angle or in a horizontal position for an extended period or without proper support.
- Do not lay Innotech products flat on any surface for an extended period or without proper support.
- Never lift units by the top framing member.
- Do not attempt to bend, twist or distort frames to go around corners or other barriers.

#### 3.3.4 Carrying frames with no glass

Frames with no glass are heavy. Always carry frames by supporting the frame weight from the bottom or by grasping vertical members near the quarter points. Lift frames safely and gently.

Avoid the following handling practices:

- Never lift units by the top framing member.
- Never lift units by a horizontal framing member.
- When lifting frames with vertical mullions, support the joints between mullions and the horizontal framing members. Do not lift the frames by the ends only.

**TIP**

Vacuum cups such as **Wood's Powr-Grip**® can make handling of smooth sided heavy objects easier and safer.

For more information see [www.powrgrip.com](http://www.powrgrip.com).



**Be mindful when removing plastic film as it can cause static discharge that can ignite flammable materials.**

**3.3.5 Use vacuum cups to carry frames with glass**

Most installers consider vacuum cups to be the safest way to carry heavy glass and door units with glass.

Innotech doors may have the glass surfaces covered with protective plastic film. When using vacuum cups remove the film before applying vacuum cups. Refer to heading 1.13.2 for instructions on how to safely remove the protective plastic film.

**3.3.5.1 Carrying glazed units (frames with glass)**

Carry frames by supporting the frame weight from the bottom at quarter points or use vacuum cups.

When using vacuum cups, place cups at quarter points from either end of unit. For glass surfaces with protective plastic film, remove the protective film before using vacuum cups.

**3.3.5.2 Carrying partially glazed units**

Use vacuum cups to lift the part of the frame with glass. Support the unglazed part of the frame, especially the joints between mullions and the bottom frame.

**3.4 Storing Innotech products**

Store doors indoors. You must protect them from rain, wind, direct sunlight, and temperature extremes. You must ensure they are well ventilated, and that heat cannot be trapped under protective coverings.

Store door units on an edge that has support blocks attached, and always on a flat, level surface. The horizontal distance from the base of the unit to the wall must not be greater than 25 cm (10 inches). Frames may lean against each other, always at the same angle, but never more than four frames deep.

Do not stack doors against each other without soft protective material between them. Use the foam blocks that keep frames separate during shipping (or similar resilient material) to separate frames from each other. Allow gaps between frames for ventilation.

Protect stored doors from welding splatter, grinding sparks, concrete, mortar, stucco, drywall mud, paint and other harmful construction materials.

Do not cover stored doors with transparent poly, use opaque or white poly. This will prevent excessive heat build up that could damage products.

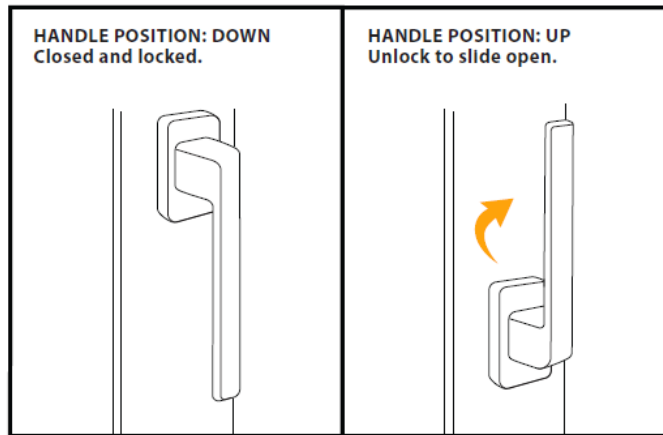
COLD WEATHER CAUTION	WARM WEATHER CAUTION
Cold weather makes products brittle. When handling or installing at temperatures below 5° C (40° F), avoid any impact to frames, sash or glazing bead. Even small impacts can crack frames under these conditions.	Very warm temperatures and/or exposure to direct sunlight can damage products stacked against one another. Heat trapped between surfaces and reflected by glass coatings can lead to permanent damage of frames, finishes, and glass.

### 3.5 Removing sashes before installation

Before installing doors or windows, it is helpful to remove the sash or sashes (operable panel/s) to make them easier to handle. Before removing the sash/es you need to install the handles.

#### 3.5.1 Hardware operating modes

Easy Slide Doors and Easy Slide Windows operate with a single handle. When the handle is down, the door is locked. When the handle is up, the door is unlocked.



#### Tip

The door can be locked (handle down) when the sash is partially opened. This operating feature allows the door to be partially opened for ventilation when in the locked position. **Never attempt to slide the door open or closed if the handle is in the locked position.**

#### Tip

Easy Slide doors are available with a key lock cylinder. If the handle does not operate, the key lock cylinder may be locked or require an adjustment. For adjustment instructions, visit [www.innotech-windows.com/resources](http://www.innotech-windows.com/resources) or contact your Innotech representative.

#### Warning

**When sliding the door opened or closed, always make sure the handle is vertically up. Never attempt to slide (open or close) the door when the handle is at an angle; this will damage the operating hardware and void the warranty due to mishandling.**

#### 3.5.2 How to install the handles

Door handles are shipped in a box and typically attached to the sash.

Each handle is in a plastic bag with two installation screws: two 64mm (2.5 inches)

Depending on the hardware configuration of the door, it is recommended that the handles are installed on the doors before moving the door from the steel rack to its storage location or to the rough opening for installation.

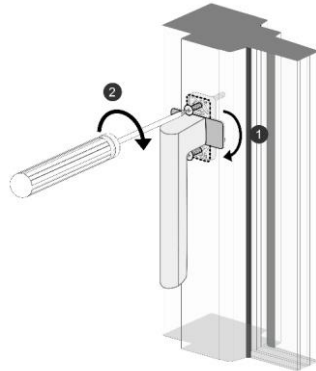
For doors with an interior handle and exterior recessed pull handle, install the interior handle using the following steps.

For doors with an interior and exterior handle, use the interior handle and pin to operate the sash, but do not install the handle until the sash is reinstalled on the door in section 4.6.

## Installation Instructions

Follow the steps below to install the handles:

1. Pull the top and bottom edges of the handle face plate towards you and rotate to one side.
2. Insert handle shaft into the center hole with the handle pointing downwards (locked position) then fasten it with the provided screws
3. Rotate the handle faceplate to cover the screws.



### 3.5.3 Remove the sash rear cover cap

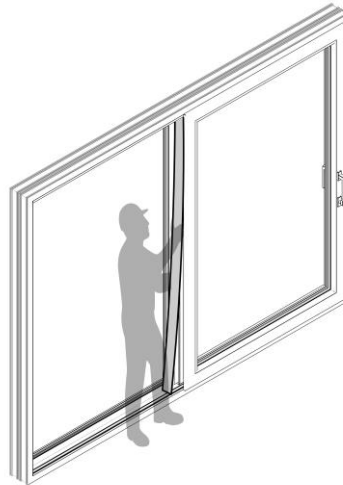
Using a multi tool, remove the cover cap at the rear (non handle side) of the sash. Be careful not to damage the frame finish when wedging the tool between the cover cap and the frame.

Make note of the orientation of the factory install. Set the cover cap aside in a safe area.

Depending on the configuration of the door or window, it will have one or two sash rear cover caps that need to be removed.

Carefully and slowly wedge the multi tool between the frame and cover cap/s.

Slowly slide the multi tool along the length of the cover cap/s until it easily snaps off. Do not forcefully remove the cover cap/s



**TIP!**

When possible, remove the sash or sashes from the frame/s when the product is on the steel racks. This will significantly reduce the weight of the door or window and simplify the installation.

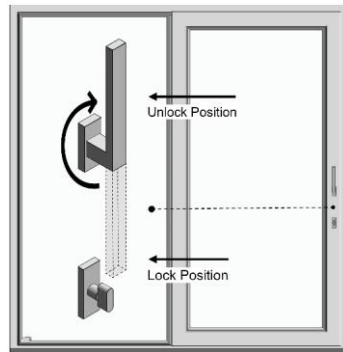
**WARNING!**

The sash is heavy! **DO NOT** try to remove the sash by yourself. Innotech recommends a crew of at least two people for this procedure.

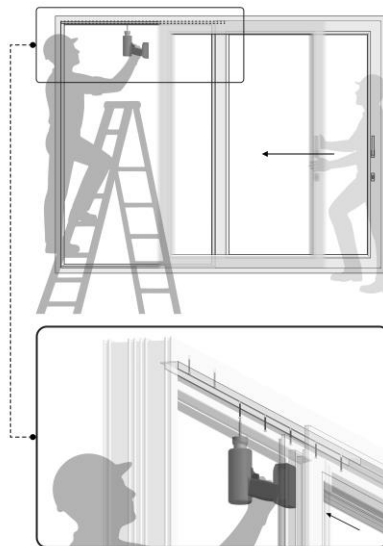
**3.5.4 Remove the top track from fixed panel**

Depending on the size of the door or window, this step requires a minimum of two people.

1. Once the interior handle is installed, move the handle to the up (unlocked) position.



2. While slowly sliding the door or window open, unscrew the top track on the fixed panel/s one screw at a time using a power drill with a PH2 bit. Make note of the orientation of the top track. Set screws and top track aside.



Remove the top track on the fixed panel/s. Do not lose the screws.

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**Installation** Instructions

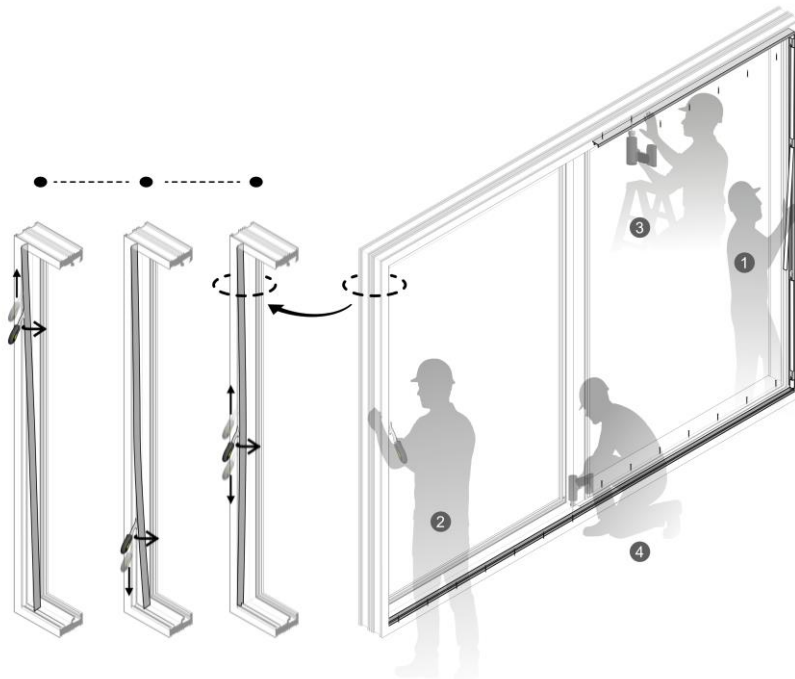
3. Once every screw has been removed from the top track and the door is fully opened, remove the sash with the top track from the frame.
4. Remove the sash and place it in a safe place, on support blocks, on a clean and dry surface. Make sure dirt and sand do not enter the underside of the sash.



### 3.5.5 Remove sash cover cap, fixed panel cover cap, remaining top track and bottom track

Once the sash is removed, carefully remove the cover cap on the latch side.

1. remove the cover cap on the latch side. The latch track stays in place (do not remove).
2. Using a multi-tool, remove the bumper side cover track.
3. Using a power drill with a PH2 bit, remove the remaining top track on the sash side. Make note of the orientation of the top track. Set screws and top track aside.
4. Using a power drill with a PH2 bit, remove the bottom track along the full length of the door or window. Do not lose the screws.



Carefully remove the cover caps and tracks in the indicated order. Safely put aside. Do not lose any of the screws.

## 4 Installing easy slide doors and easy slide windows

### 4.1 Inspect rough openings

#### 4.1.1 Building interface details

Before installing doors make sure flashings and barrier membranes are installed according to the requirements of the **authority having jurisdiction**.

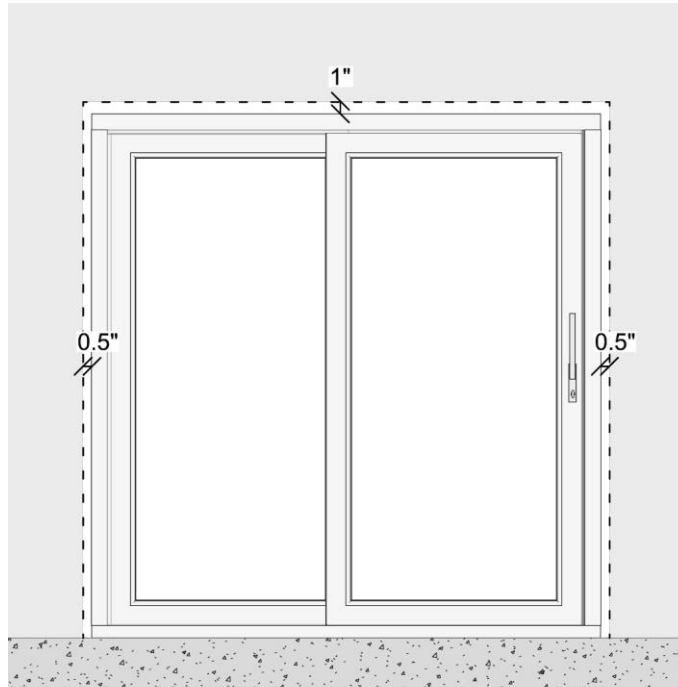
#### 4.1.2 Clearances

Measure the frame and the rough opening to see if the door can be installed with the required clearances, refer to heading 1.9.

Easy Slide doors can be installed with a recessed sill for a flush finish. To install the door with a recessed sill, know the finished floor height and shim the door 2" lower than the finished floor height at the interior. (The bottom of the door needs to be 2" lower than finished floor height.)

#### Caution

Do not install doors if you cannot provide minimum clearances at head and jambs. Refer to heading 1.9 for recommended clearances.



Refer to heading 1.9 for minimum clearances required at jambs and head.

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**Caution**

Avoid using torch on membranes at the sill. Thick membranes may cause the shims to sink into the membrane which may over time create an uneven surface that can impact the operation of the door.

Use other approved methods to waterproof the subsill that will not compromise the integrity of the sill over the life of the door.

---

**Caution**

Avoid the use of spray foam or expanding tapes. These products affect the required clearances as the structure moves and settles.

### 4.1.3 Leaning or uneven walls

When the face of the wall is not plumb, straight, or even on all four sides of an opening, it may need to be corrected before doors are installed.

Sometimes a wall is leaning in or out, is bowed, or is misaligned with the edge of the floor. Sometimes thick waterproofing membranes at sills project 1/4" or more from the face of the wall. In these cases, the face of the wall at all four sides of the opening are not in the same plane.

Because doors and windows must be installed plumb and straight to operate properly they cannot follow a misaligned wall.

**Innotech doors and windows must be installed plumb regardless of the wall condition.** When the gap between the flange and the wall is significant, it is often helpful to ask the builder to fur out the exterior wall surface at the door to provide a flat and plumb surface for the flange and for barrier membranes.

## 4.2 Prepare frames for installation

### 4.2.1 Shim door sill

Once the rough opening is verified to be the right size for the door *and* required clearances, shim the sill of the rough opening using composite shims. Shim the sill at a height of a minimum of 1/8" at every 6" on centre to achieve a perfectly level door sill.

Adjust the height of the shims to obtain a level sill, ensuring you will have the required clearance at the head (refer to heading 1.9).

Minimum shim size: 1-1/2" x 3-1/2". Use stackable plastic shims of different thicknesses to achieve the correct placement of the door in the rough opening. The shims should be the same width as the sill to provide the door with an even surface.

When the shims are in place, tape the shims into position.

### 4.3 Install frame in opening

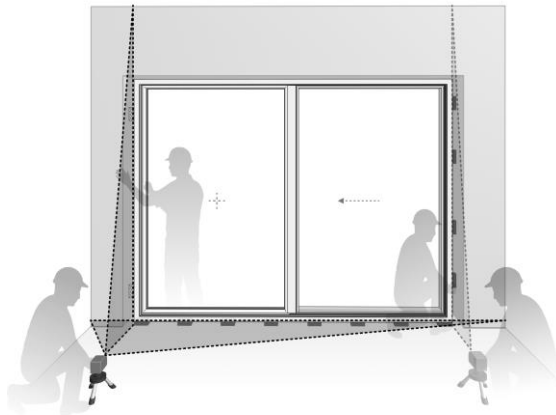
Follow the handling instructions in section 3.0 in this document.

#### 4.3.1 Tack frame to opening

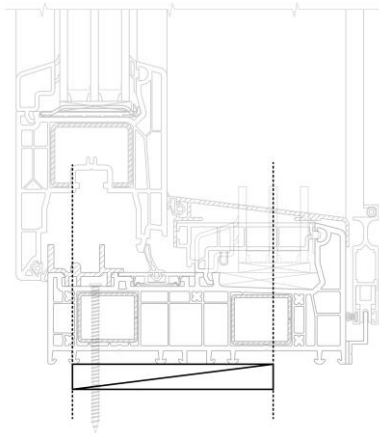
Center the frame in the opening ensuring a  $\frac{1}{2}$ " clearance at the jambs. Using wooden blocks, tack the frame to the opening.

#### 4.3.2 Level the door or window sill

To ensure a smooth operation, the sill must be level. When leveling the sill, add weight to the frame. On the interior, set a laser level or stringline to ensure the door is also straight at the sill and at the header. Insert shims at every 8" on center to level the sill.



The shims must extend from the center of the inside track to the center of the exterior fixed pane of glass.

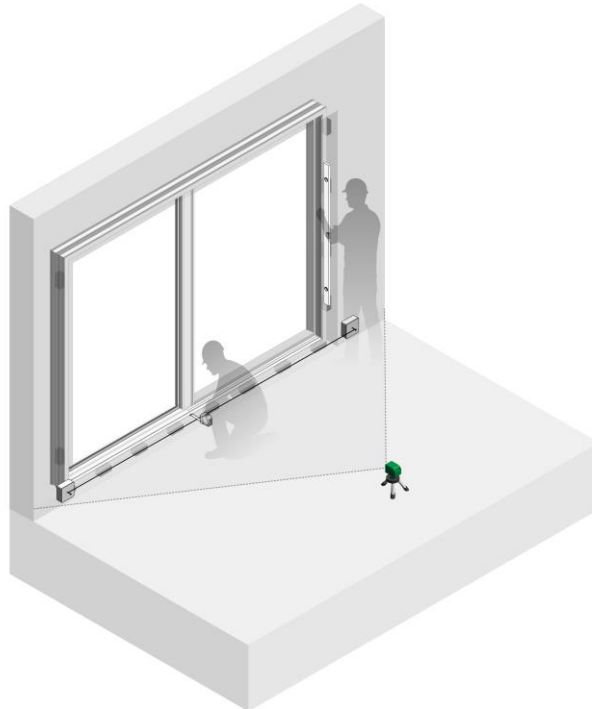
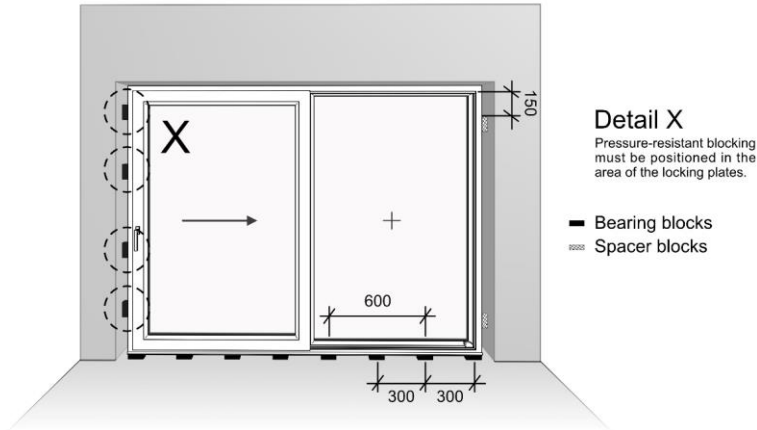


**WARNING!**

Failure to shim the products according to these instructions will cause operating problems and may permanently damage the products.

**4.3.3 Add shims to side-to-side level**

Add shims to side-to-side level to plumb the door.



---

**Caution**

DO NOT silicone installation holes unless you are sure frames are LEVEL, PLUMB and SQUARE.

**4.3.4 Fill screw holes with silicone**

Prior to filling the screw holes with silicone, make one final check that the door is level, plumb and square.

To prevent air leakage, fill every screw hole, including installation holes, locking point screw holes and track screw holes, with silicone, such as Tremco Spectrem® 2 translucent silicone. Wipe off any excess silicone.

Note: Once the screw holes are filled with silicone, do not pause or stop the installation of the door. Installation must be completed before the silicone cures.

**4.3.5 Fasten frame to opening**

Before fastening the frame to the rough opening make sure frame is **plumb, level and square, even if wall is not plumb or straight.**

Fasten the frame at the indicated fastening points. See section 4.3.1.

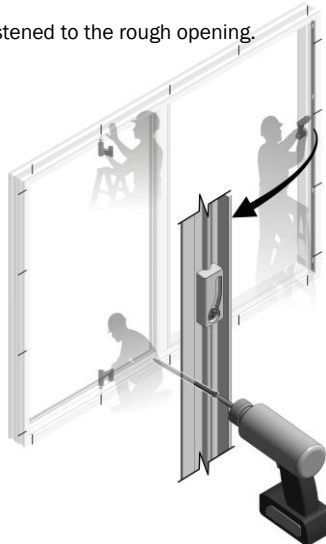
Before fastening the jambs to the opening, ensure the face (in-out) of the frame is level. Once the face is level, fasten each frame corner at the jamb using a S060 fastener [7.5x102 AMO III Type 2 (head 8mm) with AW30 (Torx)] into the holes you drilled out in section 4.3.1.

Every fastener must be tightly shimmed. Do not over fasten.

After fastening the corners, check to make sure the door or window is still plumb, level and square. If it is, fasten the remaining fasteners, starting with the jambs. Check plumb, level and square before fastening the head and sill. Do not over fasten. Do not install any shims at the header.

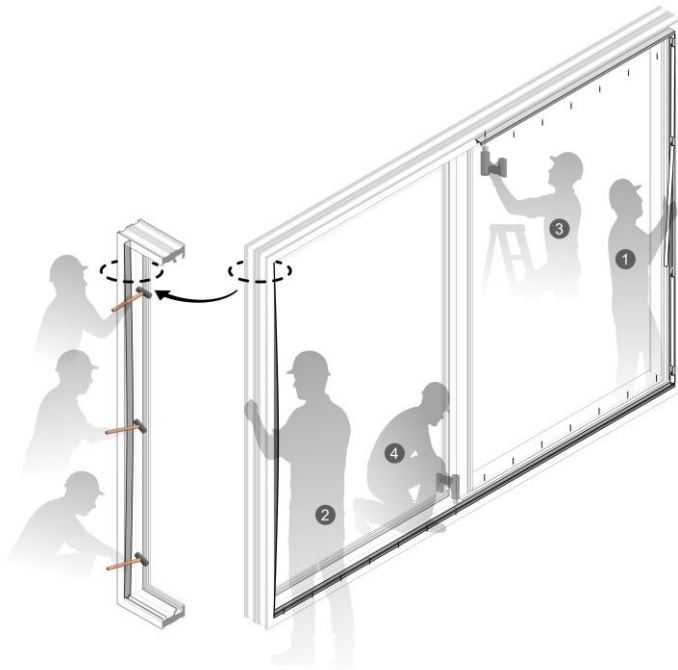
For single family installation in most jurisdictions, fastening at the sill is not required. For other types of installation, fastening at the sill may be required; refer to the supplied shop drawing or contact your Innotech representative.

The frame is now fastened to the rough opening.



#### 4.3.6 Install sash cover cap, fixed panel cover cap, remaining top track and bottom track

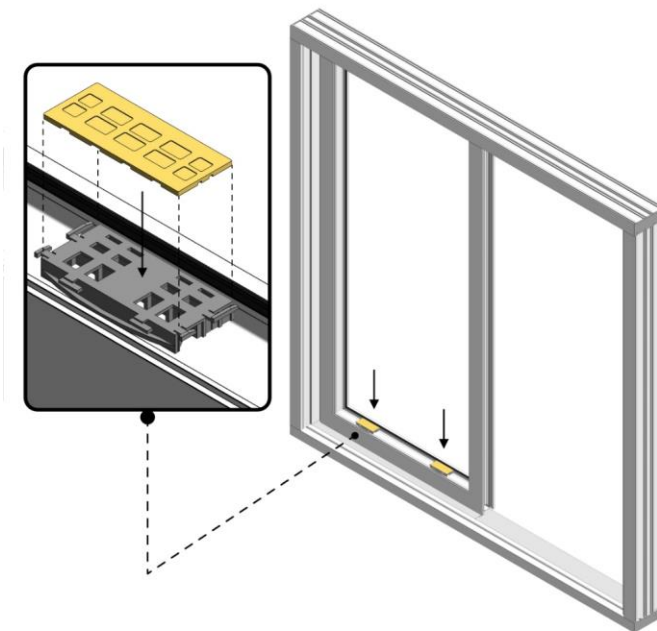
In the following order, carefully install the sash cover cap, fixed panel cover cap, sash top track and bottom track using the screws you safely put aside.



## 4.4 Install the IGU into passive (fixed) panel/s

### 4.4.1 Shim the glazing seats

Place the glazing shims at the sill in the glazing seats of the fixed panel/s. There are seats on each corner of the sill. Place one glazing shim on top of each seat.



#### **4.4.2 Place IGU into frame**

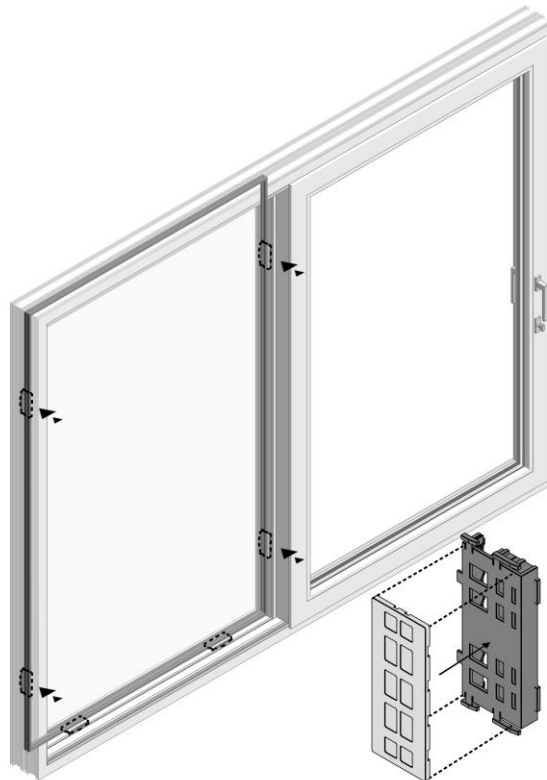
With a minimum of two people, use vacuum cups to carefully move and place the IGU into the frame opening. Keep an eye on the glazing shims to ensure they remain in the right position. Make sure the glass is pushed all the way in. If required, use a glazing spoon (glazing shovel) to gently lift the IGU to reposition the shims while someone is holding the IGU and/or helping lift the IGU.



**When placing the IGU into the frame, make sure the glazing shims remain in place on the glazing seats. Reposition the shims if necessary.**

#### 4.4.3 Insert shims at jambs

Insert shims at 6" from top and bottom on each jamb to adjust and maintain alignment. Do not place shims on top of the frame on the fixed panel.



#### 4.4.4 Insert glazing beads

Insert the glazing beads starting with the shorter beads first. (The longer beads are more flexible which makes them easier to install after the short beads.)

Install the glazing beads by positioning each end into the mitered corners.

Fit one side into the corner and gently tap it in using the glazing mallet.

Move to the other end and tap it in. Go back to the first corner, then gently

### Installation Instructions

tap along the length of the bead towards the end until the bead snaps into place.

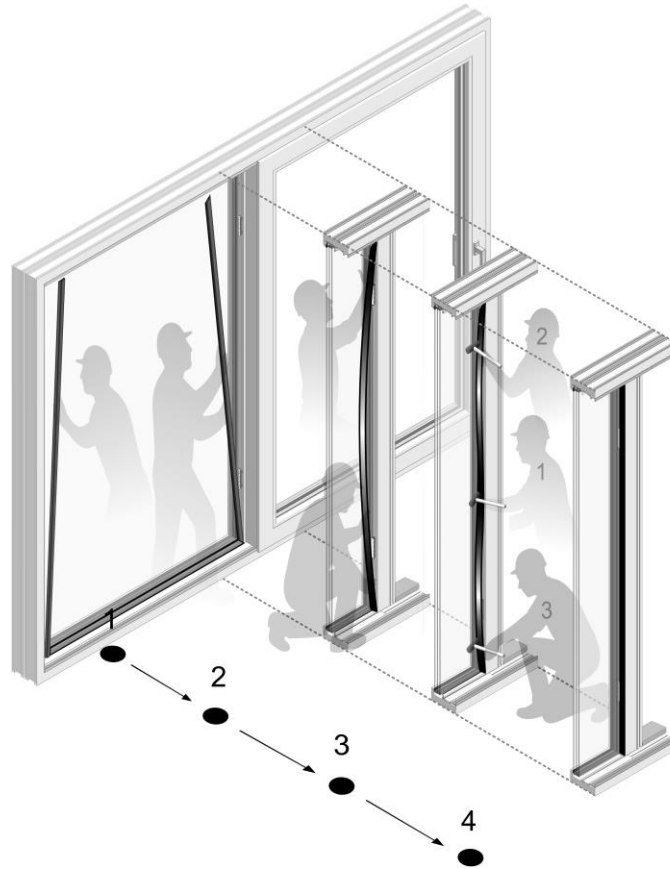
Do this to the glazing bead on each jamb. Ensure the sash remains straight on all sides after inserting the glazing beads.

Add silicone to corner joints before installing the longer glazing beads. Repeat steps above to install the longer glazing beads. Wipe off any excess silicone.

Commented [JO1]: I added the silicone bit.

### Caution

Only use soft rubber glazing mallet. Hard rubber glazing mallets could crack the glazing beads in cold weather.



For the longer glazing beads, insert both corners, one corner at a time. Gently hammer with a soft rubber glazing mallet until the glazing bead snaps into place.

#### 4.5 Install the IGU into the sash

1. Repeat the same glazing procedures as section 4.4 for the operable panel of the door or window.
2. Place bridges and shims where the IGU will sit, as done for the fixed section. Important: For the operable panel, install shims at the top of the sash as well
3. Insert the IGU and ensure it is properly supported by the shims.
4. Adjust alignment using shims to keep the IGU fixed and stationary.
5. Install the glazing beads following the same procedure as the fixed panel.

#### 4.6 Apply sealant for Second Plane of Protection

The Second Plane of Protection (see heading 1.6 *Second Plane of Protection* on page 5) is a continuous air and water seal **on all four sides of each door**. It is the best possible protection against unwanted air and water leakage.

There are several best practice methods applied by industry to achieve an effective second plane of protection. Consult with the authority having jurisdiction for the optimal method for your specific project.

#### 4.7 Remove protective tapes

Remove protective tape from frames.

## 5 Reference

### 5.1 Compatible sealants

Innotech has determined the sealants in the table below are chemically compatible with the listed Innotech surface finishes. The table indicates the adhesion of the sealants can be used safely with Innotech products.

**Note.** If you are not sure what the finishes are on the Innotech products you are installing, contact your Innotech representative.

Installers or authorities having jurisdiction that wish to use other sealant products must arrange for their own compatibility and adhesion testing. The Innotech warranty does not cover damage to Innotech products or surrounding materials arising from the use of incompatible or unsuitable products.

**Innotech makes no recommendations about the compatibility or suitability of the named sealants with other substrates.** Installers or authorities having jurisdiction are responsible to determine whether the named products are suitable for use with adjoining materials.

#### Adhesive properties of compatible sealants

	White uPVC Surfaces	Laminated Foiled Surfaces
<b>Dow 795 Silicone</b>	Very good	Good
<b>Tremco Spectrem 2 Silicone</b>	Very good	Good
<b>Tremco Dymonic FC</b>	Very good	Very good
<b>Henry 925</b>	Very good	<u>Untested</u>
<b>Dow 995</b>	Very good	Good
<b>Sikaflex NP1</b>	Good	Poor
<b>Mulco Supra Elite</b>	Very good	Very good
<b>Chemlink Duralink 50</b>	<u>Untested</u>	Poor

### 5.2 Definitions (Glossary)

The following terms are used in Innotech window and door publications. Many are common to all windows and doors. Definitions particular to Innotech are underlined.

#### WARNING!

**The Innotech warranty does not cover damage to Innotech products or surrounding materials arising from the use of incompatible or unsuitable products.**

#### WARNING!

**Use of incompatible sealants can result in failure of the second plane of protection and damage to adjacent surfaces.**

**Frame.** The structural member that surrounds the door and retains glass. A frame has a head (top member), sill (horizontal bottom member) and jambs (vertical members on the left and right edges).

**Glazing bead.** Every IGU is held into position with glazing beads.

**Glazing shims.** Plastic shims in various heights that shim the IGU into a sash or frame.

**Head.** The horizontal frame member at the top of the window or door.

**Installation shims.** Plastic or composite shims in various heights used to level the frame in the rough opening.

**Insulating Glass Unit (IGU).** A glass panel composed of two or more panes of glass assembled with spacers and sealants.

**Jamb.** Vertical members on the left and right edges of a window or door.

**Rail.** A horizontal member that binds a sash at the sill.

**Sill.** The horizontal frame member at the bottom of the door.

**Sash.** The operable element of a window or door that is opened and closed. A sash is composed of top and bottom rails (horizontal members), as well as stiles (vertical members). The hinge stile is the stile with hinges and the lock stile has the handle.

**Track.** Two or three horizontal members that bound a sash at the header.

### 5.3 Additional resources

To help ensure a long service life, additional product installation, alarm contact installation, hardware adjustments, cleaning and maintenance instructions are available for your windows and doors. How-to videos are also available. Visit [innotech-windows.com/resources](http://innotech-windows.com/resources) to download or view these resources, contact your local Innotech Dealer, or contact our service department at 1.866.854.1122 Ext 4.

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