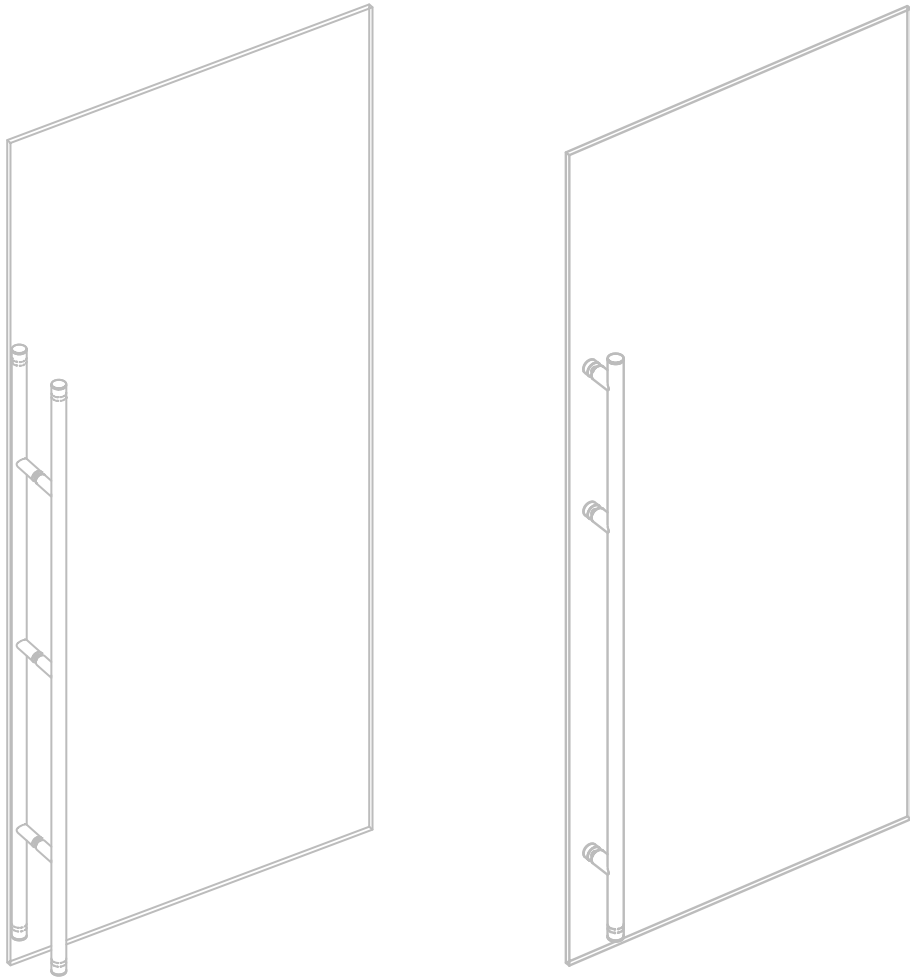
dormakaba

TG 9387 and TG 138 Non-locking ladder pulls

Back-to-back and single-sided for glass doors

Installation Manual



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Original document

EN

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1 Technical specifications

1.1 Overview

These instructions are for installation of TG9387and TG138 Back-to-Back and Single-Sided Non-Locking Ladder Pulls for the following mounting and style versions:

- **Glass door mount**
- **Wood door mount**

1.1.1 General information

- dormakaba requires use of tempered laminated or tempered monolithic glass.
- dormakaba glass hardware is not suitable for harsh environment; for example, applications where chemicals (e.g. chlorine) are used such as indoor swimming pools, saunas, or salt-water pools.
- Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
- Do not swing/slide doors with excessive force. Ensure proper installation of limiting stop to prevent door from opening too far.

1.1.2 Intended use

- For swinging/sliding doors in dry indoor areas only.
- For manual slow opening and closing only.

1.1.3 Door requirements/fittings/mounting

- When adjusting glass components, always adhere to the required clearance for the respective hardware. Adjust clearance so glass does not come in contact with any hard surfaces such as glass, metal or concrete.
- Do not use excessive force when installing the glass (avoid over tightening screws.)

1.1.4 Requirements for glass panel

- dormakaba requires use of fully tempered glass, which complies with ASTM C 1036 and ASTM C 1048. Secondary heat soaking processes are recommended but not required. This applies to both tempered monolithic and tempered laminated glass.
- Clamping area must be flat and uncoated (no self-cleaning coating!)
- Never use glass with conchoidal fractures and/or damaged edges.

1.1.5 Safety instructions

- Always wear protective clothing.
- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.
- Never clamp metal fitting hardware directly to glass surface.

1.1.6 Symbols used - Safety/Installation

CAUTION

Mounting components must meet the requirements of substructure/wall and door weight. Please read the technical information for fittings.

WARNING

Risk of breaking glass. When installing the door, support the door panel with a block of wood or similar object.

1.1.7 Maintenance, care, repair

- Immediately replace damaged parts.
- Always use original dormakaba parts.
- Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.
- Use a damp cloth for occasional cleaning.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check glass hardware at regular intervals for proper positioning, smooth operation and correct adjustment.
- High traffic door systems require inspection by properly qualified staff (specialized companies or installation firms.)

1.1.8 Disposal

Disposal in accordance with local, state and national regulations.

1.2 Tools required

Tools required	
9/32" [7] drill bit for wood doors (back to back)	drill
7/32" [5] drill bit for hard wood doors (single sided)	drill
13/64" [5] drill bit for softwood doors (single sided)	drill
1/8" hex key	
3/16" hex key	

2 Product overview – TG 138 non-locking ladder pull handles

2.1 TG 138 back-to-back pull handles – door assemblies

Fig. 2.1.1 60″ glass door

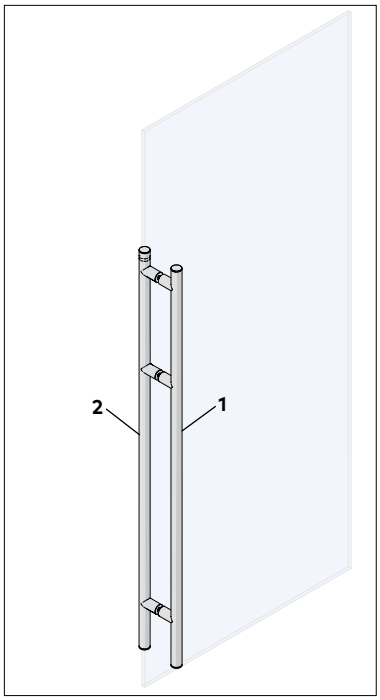
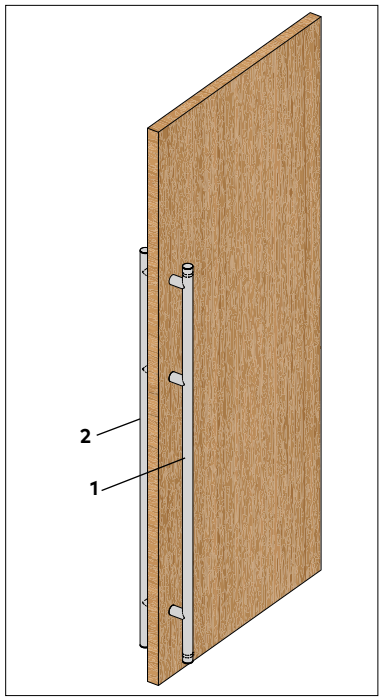


Fig. 2.1.2 60″ wood door



1	Pull handle, internal
2	Pull handle, external

2.2 TG 138 single pull handles – door assemblies

Fig. 2.2.1 60″ glass door

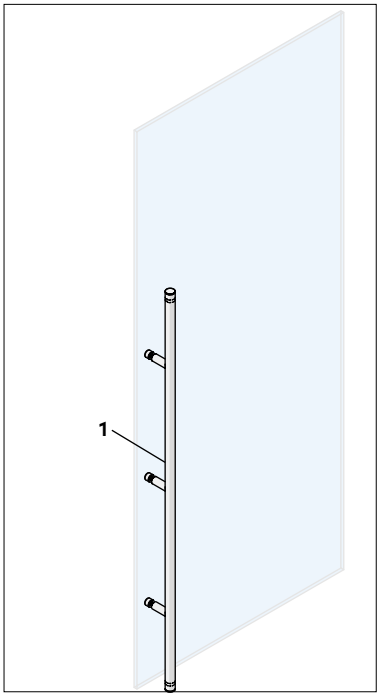


Fig. 2.2.2 60″ wood door

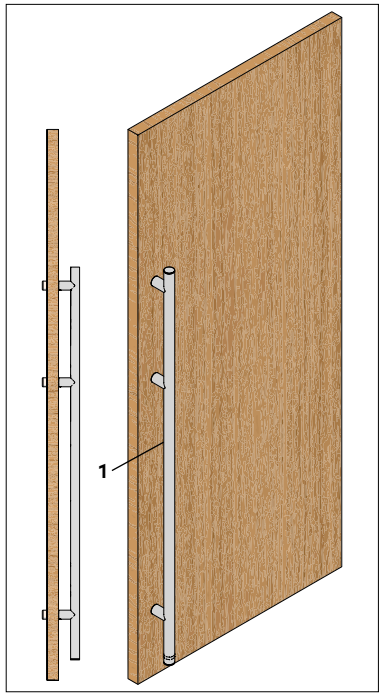
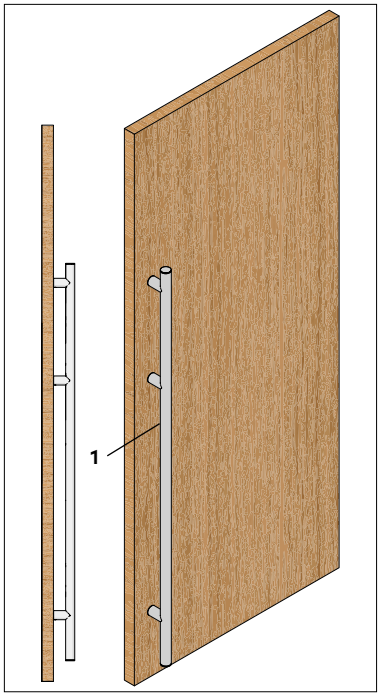


Fig. 2.2.3 60″ wood door -blind



2.3 TG 138 back-to-back pull handle assemblies

Table 2.3.1 Back-to-back pull handle hardware

	Description	49 -3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	TG 138 B2B GL pull handle, external	279-010	279-011	279-012	279-013
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010			
4	Anchor, threaded, M6-1.0 x 12.5 mm	979-028			
5	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031			
6	Rod, threaded M6-1.0 x 1-3/4"	979-032			
7	Rod, threaded M6-1.0 x 3-1/4" (for wood door)	970-030			
8	Connector, wood door	979-026			
9	1/4-20 x 1-5/8" socket head cap screw	900-203			
10	Gasket, 1-3/8" OD	979-006			
11	1/4-20 x 1/2" set screw, cone point, interior pull	900-201			

Fig. 2.3.1 Pull handle standoff detail

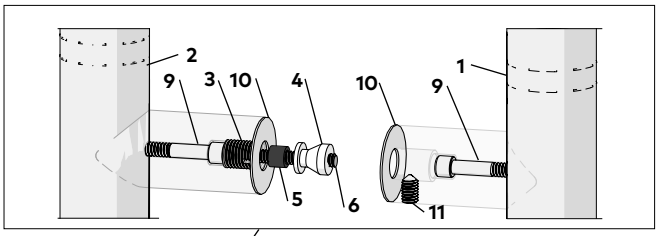


Fig. 2.3.2 Wood door threaded rod

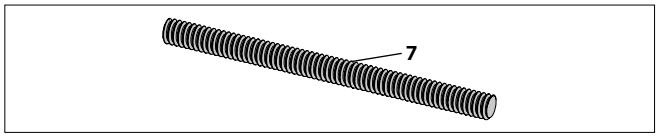


Fig. 2.3.3 Wood door connector, blind door

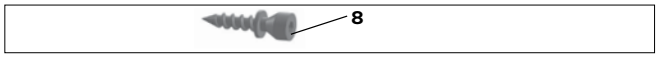


Fig. 2.3.4 49 - 3/16"

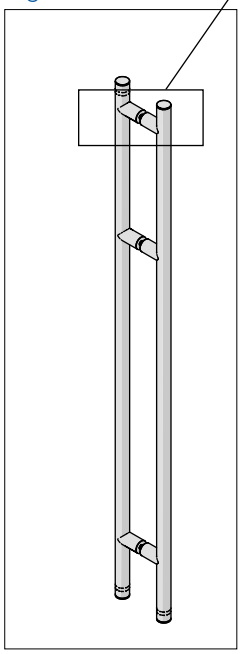


Fig. 2.3.5 60"

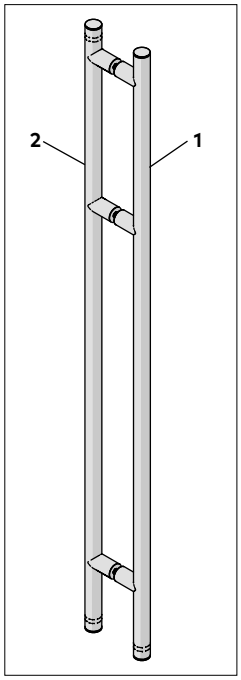


Fig. 2.3.6 72"

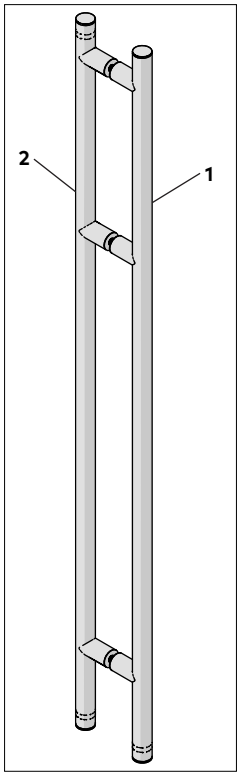
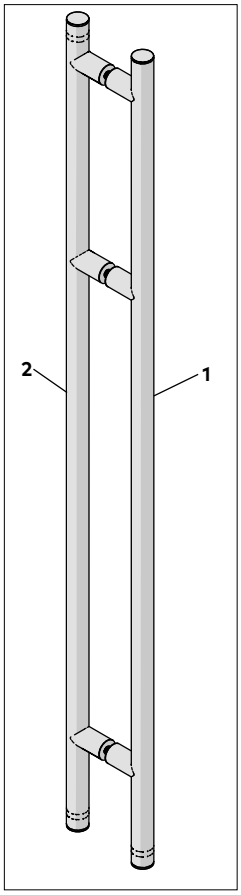


Fig. 2.3.7 84"



2.4 TG 138 single pull handle assemblies

Table 2.4.1 Single pull handle hardware

	Description	49 -3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	Rose, TG138 1-3/8" OD	979-004			
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010			
5	Anchor, threaded, M6-1.0 x 12.5 mm	979-028			
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031			
7	Rod, threaded M6-1.0 x 1-3/4"	979-032			
8	Rod, threaded M6-1.0 x 3-1/4" (for wood door)	970-030			
9	Gasket, 1-3/8" OD	979-006			
10	1/4-20 x 1-5/8" socket head cap screw	Preassembled into standoff at factory (Fig. 2.4.7).	900-203		
11	1/4-20 x 1/2" set screw, cone point, interior pull		900-201		
12	Connector, for blind wood door	979-026			

Fig. 2.4.1 Standoff and rose detail

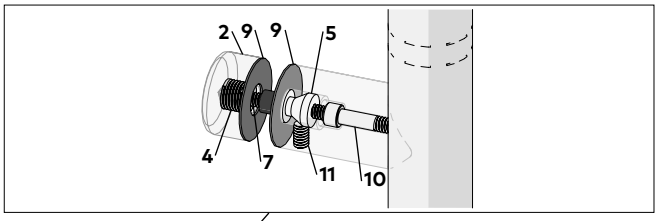


Fig. 2.4.2 Wood door threaded rod

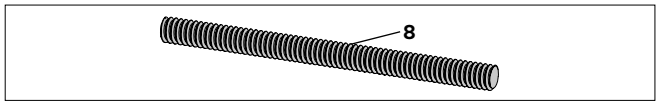


Fig. 2.4.3 Wood door connector, blind door

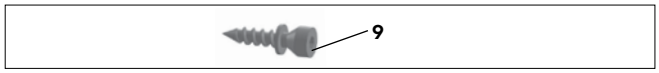


Fig. 2.4.4 49 - 3/16"

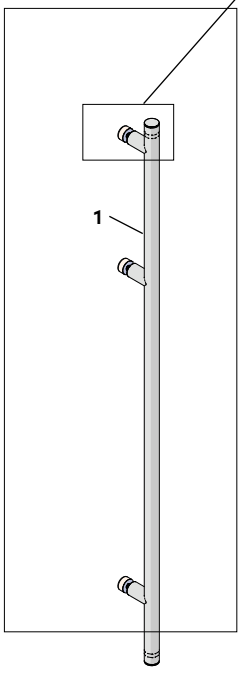


Fig. 2.4.5 60

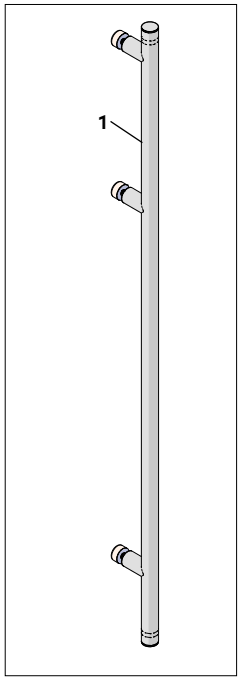


Fig. 2.4.6 72"

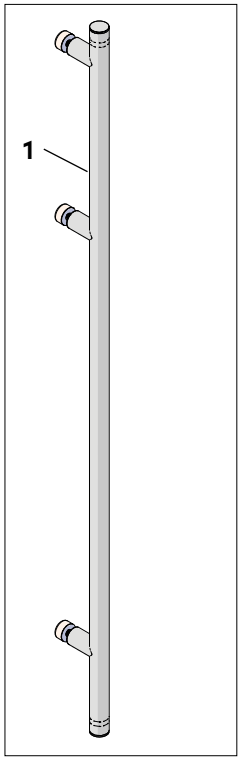
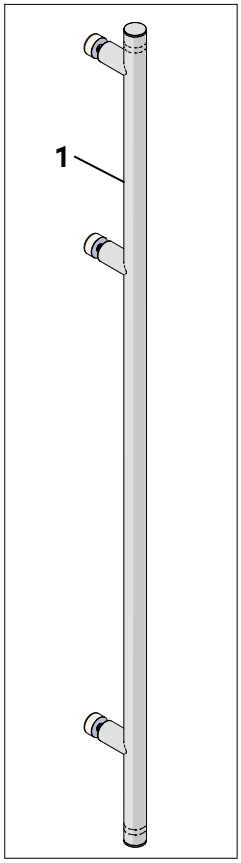


Fig. 2.4.7 84"



3 Installation Instructions Glass Door – TG 138 back-to-back non-locking pulls

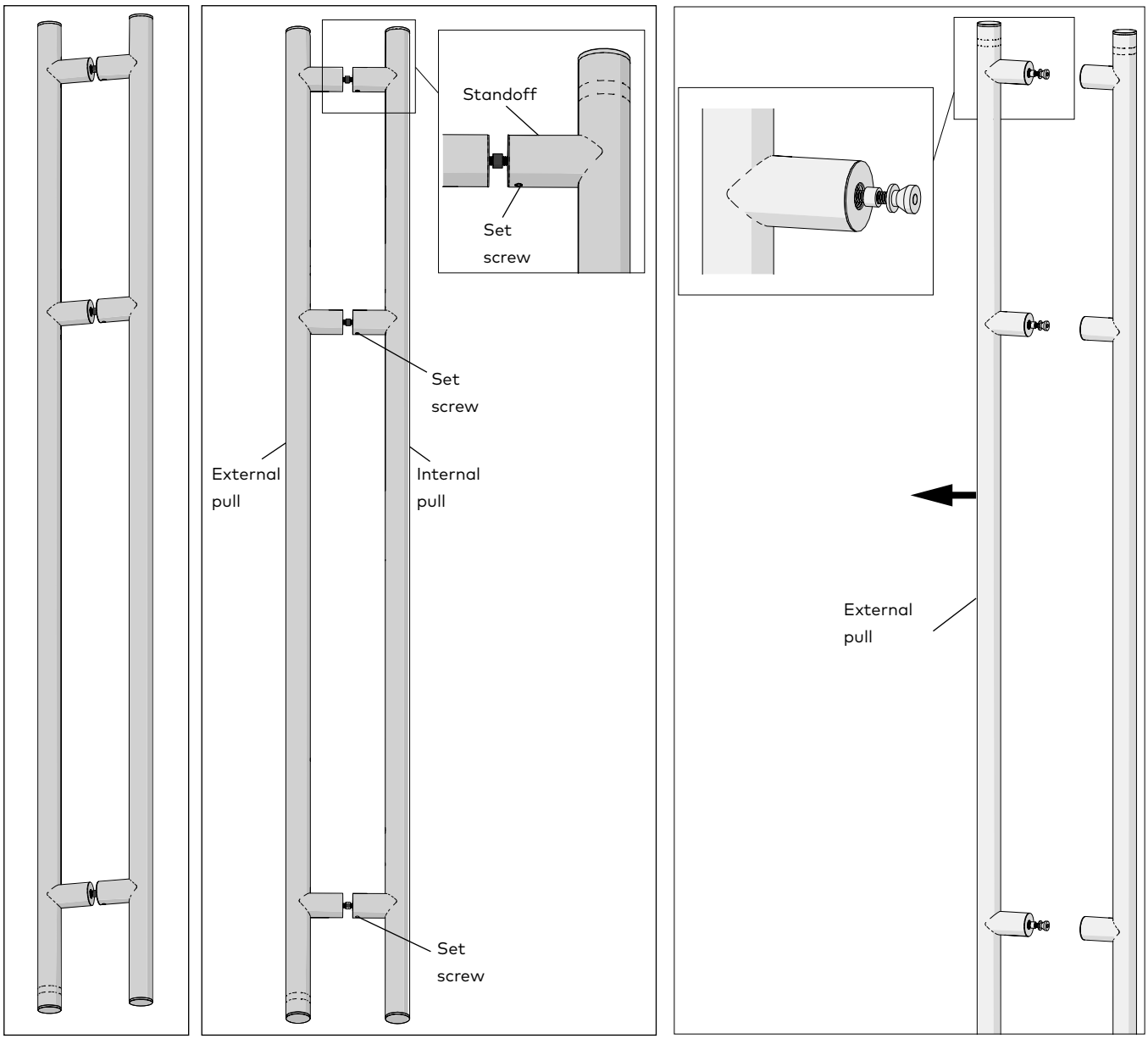
3.1 Disassemble pulls

NOTE: Pulls will come preassembled from factory with glass hardware for 3/8" [10] - 3/4" [19] glass**.**

3.1.1 Disassemble pulls on a flat surface.

1. Using a hex key, loosen set screw in each internal pull standoff.
2. Pull external pull assembly away from internal pull assembly.

Fig. 3.1.1 Back to back pulls disassembly

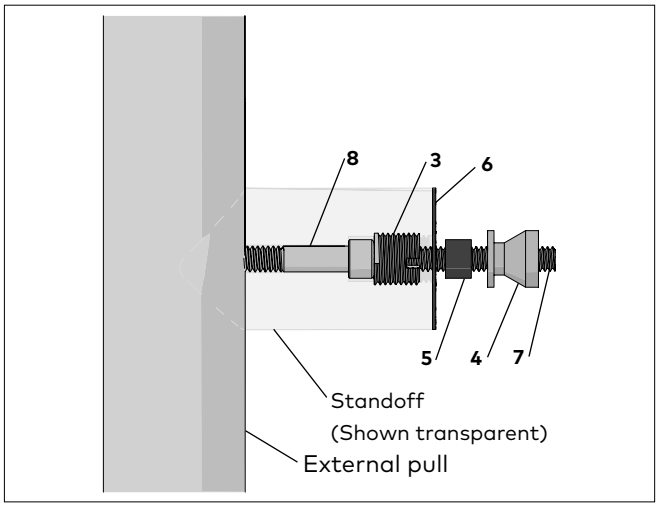


3.2 Prepare pull assemblies for glass installation

Table 3.2.1 External pull hardware

	Description	49 -3/16"	60"	72"	84"
2	TG 138 B2B GL pull handle, external	279-010	279-011	279-012	279-013
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP				
4	Anchor, threaded, M6-1.0 x 12.5 mm				
5	Bushing, plastic, TG 138 5/8 - 3/4 GL				
6	Gasket, 1-3/8" OD Permanently affixed to standoff at factory				
7	Rod, threaded M6-1.0 x 1-3/4"				
8	1/4-20 x 1-5/8" socket head cap screw				

Fig. 3.2.1 External pull standoff and hardware



NOTICE

Threaded rods.
Rod, threaded M6-1.0 x 1-3/4":
for 3/8" [10] - 3/4" [19] glass**.**

NOTICE

Pull hardware (Fig. 3.2.1) is factory assembled to the external pull handle standoffs.

3.2.1 Bushing installation on threaded rod.

1. Insure bushing (5) is installed on each threaded rod.

3.2.2 Check M6 threaded anchors are installed on their threaded rods.

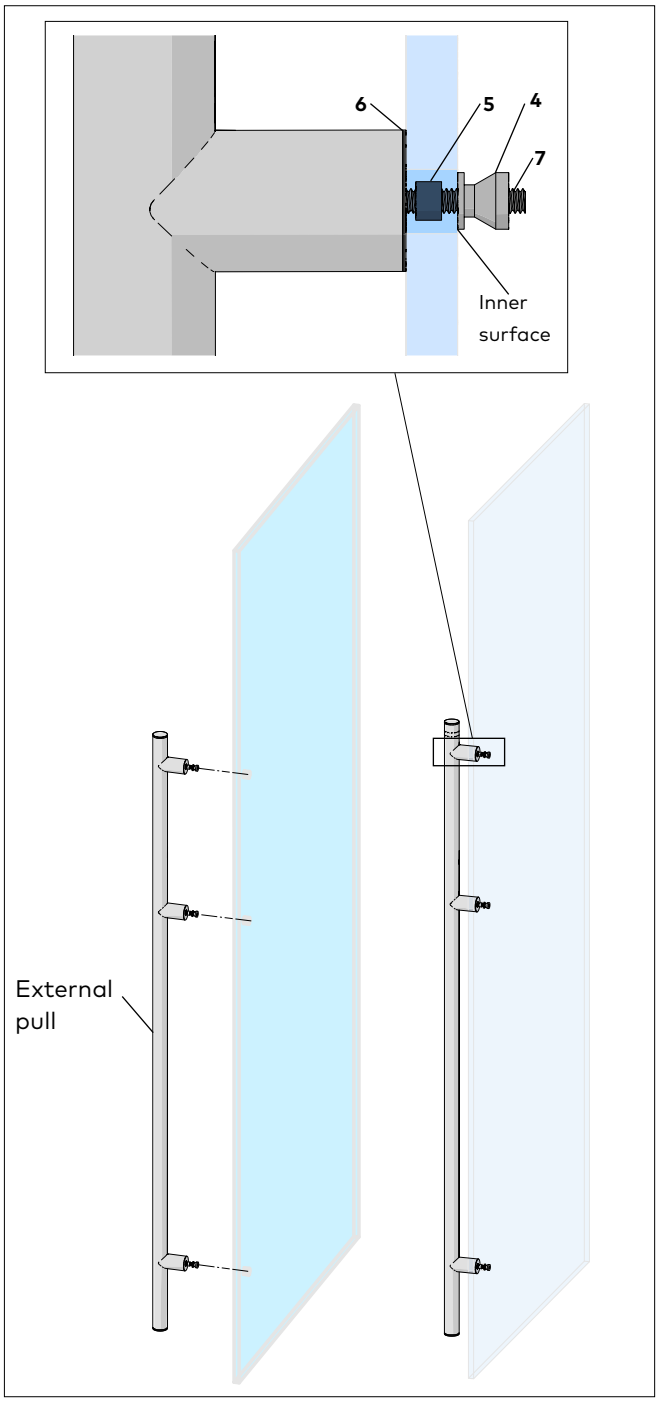
1. Threaded anchor (4) must be installed on its threaded rod in approximate location as shown in Fig. 3.2.1.

3.3 Assemble external pull assembly to glass

Table 3.3.1 External pull hardware

3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Bushing, plastic, TG 138 5/8 - 3/4 GL
6	Gasket, 1-3/8" OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 1-3/4"
8	1/4-20 x 1-5/8" socket head cap screw

Fig. 3.3.1 Exterior pull standoff against glass



CAUTION

Use caution when handling glass.

CAUTION

Back to back ladder pull installation.
It is recommended that two installers assemble back to back ladder pulls to glass.

3.3.1 Place external pull assembly against glass.

1. Align external pull standoffs with holes in glass and insert threaded anchors into holes in glass.
2. Push external pull assembly toward glass until standoff gaskets (6) are flush with glass surface.

3.3.2 Align threaded anchors with glass surface.

1. Rotate each threaded anchor (4) until its inner surface is approximately flush with the glass surface (Fig. 3.3.1).

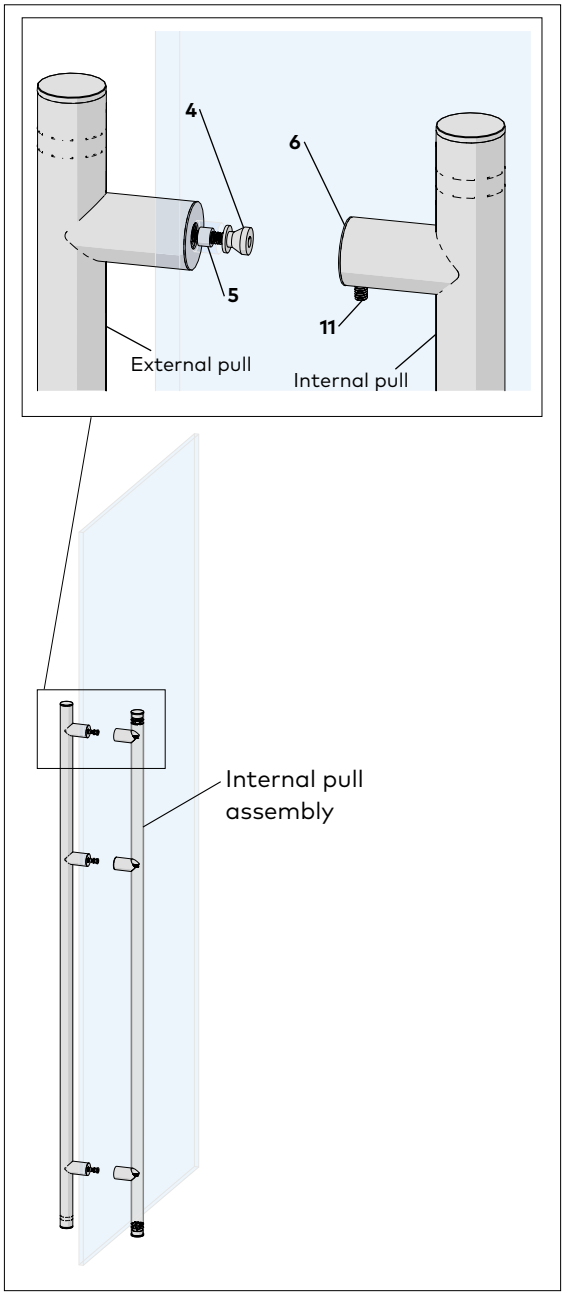
- This threaded anchor location will ensure that the setscrews in the interior pull handle standoffs are properly aligned with the threaded anchors (Para. 3.4).

3.4 Assemble internal pull assembly to glass

Table 3.4.1 External pull hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Bushing, plastic, TG 138 5/8 - 3/4 GL
6	Gasket, 1-3/8" OD Permanently affixed to standoff at factory
11	1/4-20 x 1/2" set screw, cone point, interior pull

Fig. 3.4.1 Internal pull in installation position



CAUTION

Use caution when handling glass.

3.4.1 Install internal pull assembly against glass.

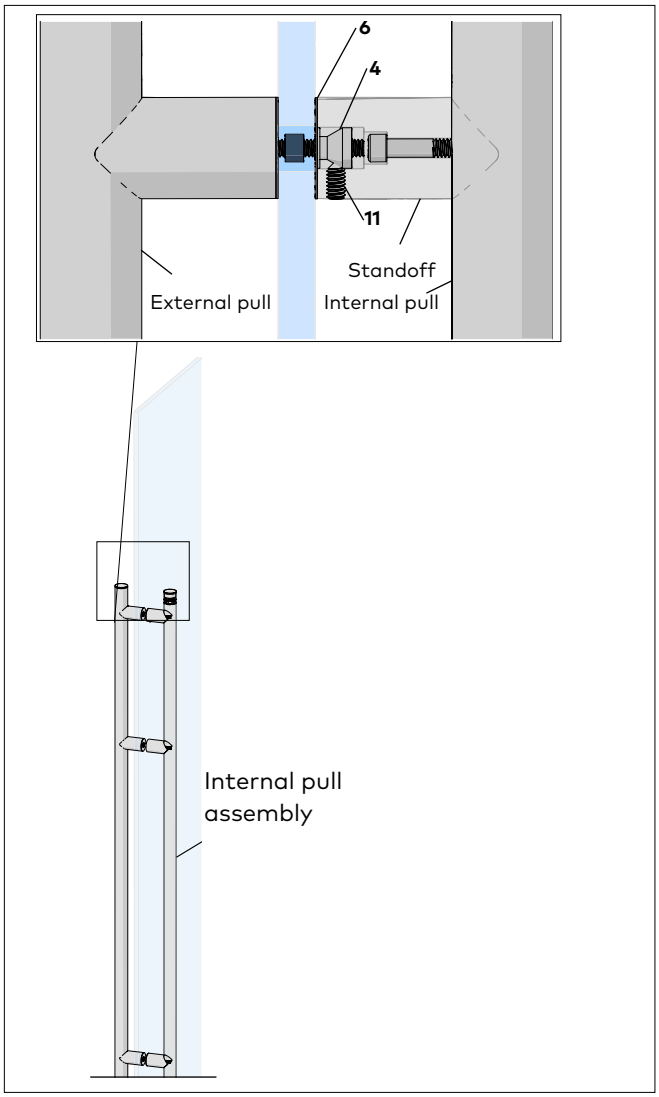
1. Align internal pull standoff gaskets with external pull threaded anchors.
2. Move internal pull assembly toward glass until standoff gaskets are flush with glass surface.

3.4.2 Tighten set screw in each standoff.

1. Using a 1/8" hex key, tighten set screws against threaded anchors.

- **Note that threaded anchor (4) must be positioned on threaded rod so that setscrew cone contacts tapered part of threaded anchor** (Fig. 3.4.2).

Fig. 3.4.2 Internal pull installed against glass



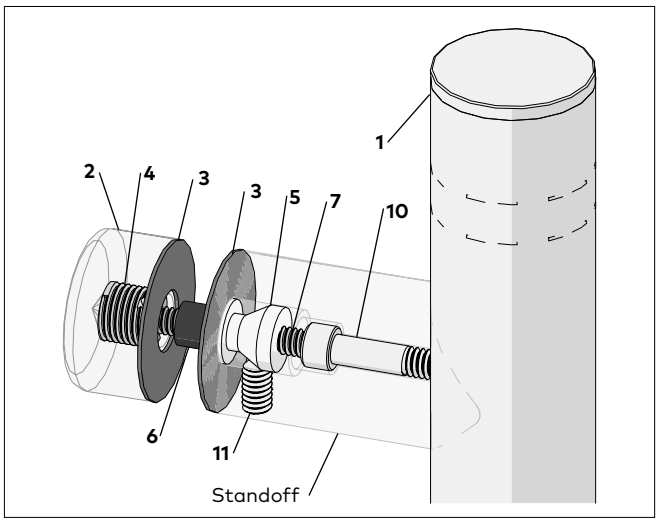
4 Installation Instructions Glass Door – TG 138 single-sided non-locking pull

4.1 Disassemble pull

Table 4.1.1 Single pull handle hardware

	Description	49-3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	Rose, TG138 -1-3/8" OD	979-004			
3	Gasket, 1-3/8" OD Permanently attached to standoff and rose at factory.	979-006			
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	Factory assembled	979-010		
5	Anchor, threaded, M6-1.0 x 12.5 mm		979-028		
6	Bushing, plastic, TG 138 5/8 - 3/4 GL		979-031		
7	Rod, threaded M6-1.0 x 1-3/4"		979-032		
10	1/4-20 x 1-5/8" socket head cap screw		900-203		
11	1/4-20 x 1/2" set screw, cone point, interior pull		900-201		

Fig. 4.1.1 Ladder pull and rose hardware

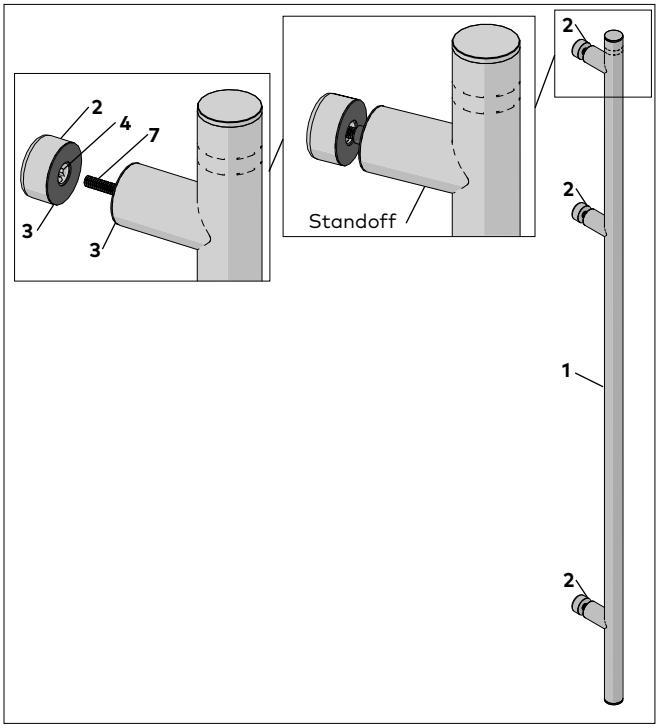


4.1.1 Remove rose assemblies from single pull handle.

1. Remove rose assemblies from single pull handle.

- Threaded insert (4) has Loctite® applied at factory. Insert is removed with rose.
- Gaskets (3) are secured to rose and to standoff at factory.

Fig. 4.1.2 Single pull assembly - rose removal

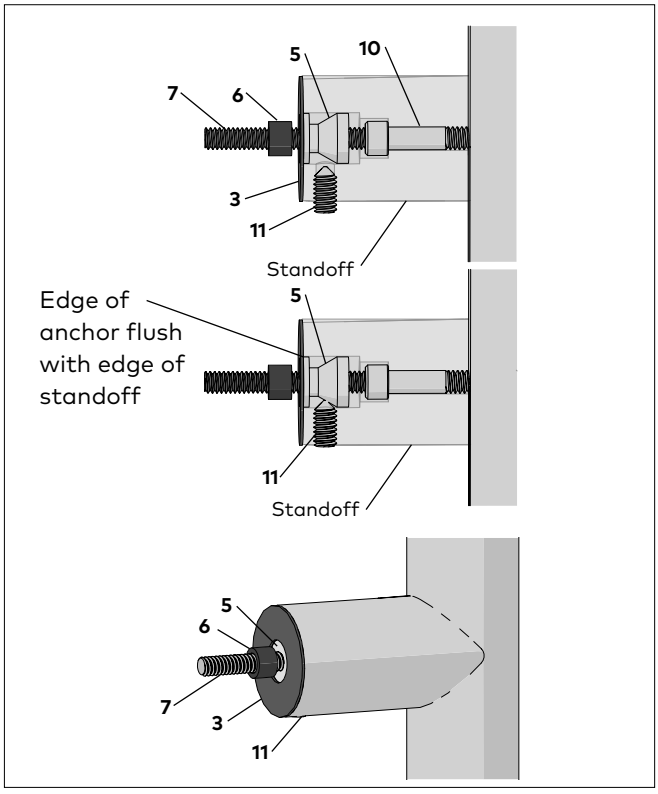


4.2 Prepare pull assembly for glass installation

Table 4.2.1 Single pull handle hardware

	Description	49 3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	Rose, TG138 -1-3/8" OD	979-004			
3	Gasket, 1-3/8" OD	979-006			
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010			
5	Anchor, threaded, M6-1.0 x 12.5 mm	979-028			
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031			
7	Rod, threaded M6-1.0 x 1-3/4"	979-032			
10	1/4-20 x 1-5/8" socket head cap screw	900-203			
11	1/4-20 x 1/2" setscrew, cone point, interior pull	900-201			

Fig. 4.2.1 Single pull assembly - rose removal



NOTICE

Threaded rods.
Rod, threaded M6-1.0 x 1-3/4":
for 3/8" [10] - 3/4" [19] glass**.**

NOTICE

Pull hardware (Fig. 4.2.1) is factory assembled to the pull handle standoffs.

4.2.1 Bushing installation on threaded rod.

1. Ensure bushing (6) is installed on each threaded rod.

4.2.2 Position M6 threaded anchors in standoffs.

1. Threaded anchor (5) must be positioned on its threaded rod so that it is flush with the edge of the standoff (Fig. 4.2.1).

4.2.3 Tighten setscrews.

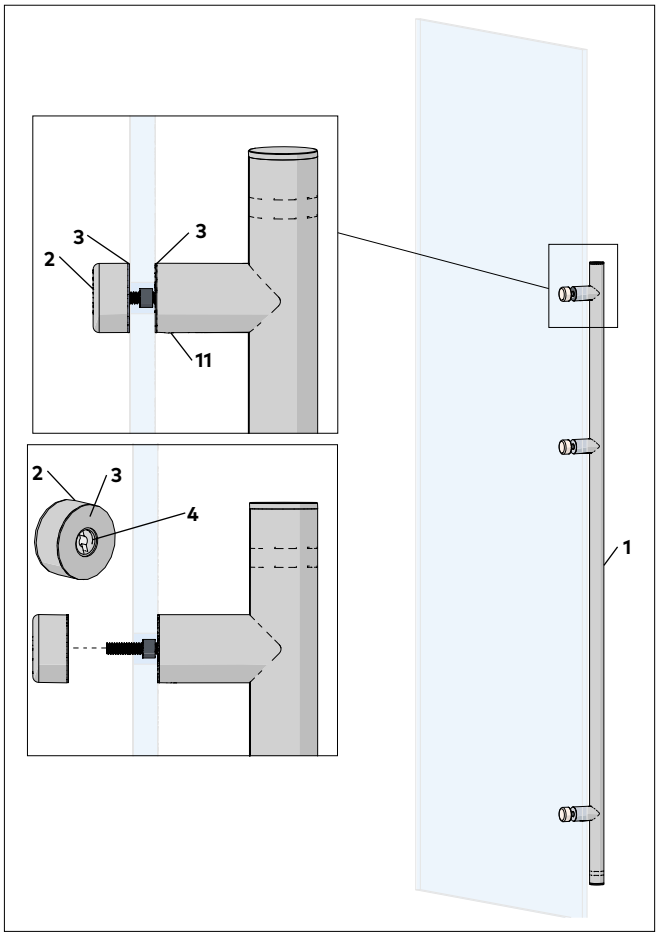
1. Using a 1/8" hex key, tighten each set screw against its threaded anchor.

4.3 Assemble pull assembly to glass

Table 4.3.1 Single pull handle hardware

	Description	49-3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	Rose, TG138 1-3/8" OD	979-004			
3	Gasket, 1-3/8" OD	979-006			
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010			
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031			
7	Rod, threaded M6-1.0 x 1-3/4"	979-032			
11	1/4-20 x 1/2" set screw, cone point, interior pull	900-201			

Fig. 4.3.1 Internal pull installed against glass



CAUTION

Use caution when handling glass.

4.3.1 Install internal pull assembly against glass.

1. Align pull standoffs with glass mounting holes.
2. Move internal pull assembly toward glass until standoff gaskets are flush with glass surface.

4.3.2 Install rose assemblies onto threaded rods.

1. Thread each rose assembly onto its threaded rod and tighten.

5 Installation Instructions Wood Door – TG 138 back-to-back non-locking pulls

5.1 Disassemble pulls

1	Rod, threaded M6-1.0 x 1-3/4"	979-032

5.1.1 Disassemble pulls on a flat surface.

1. Loosen set screw in each internal pull standoff.
2. Pull external pull assembly away from internal pull assembly.

Fig. 5.1.1 Back to back pulls disassembly

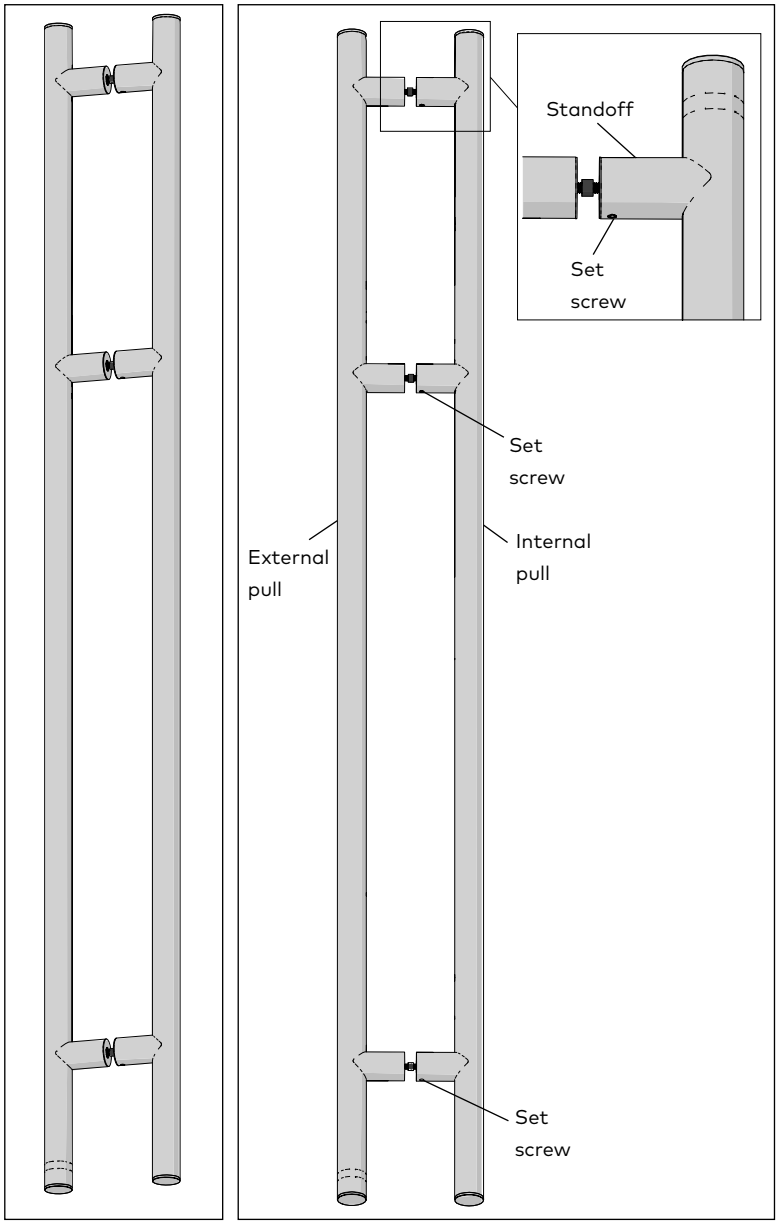
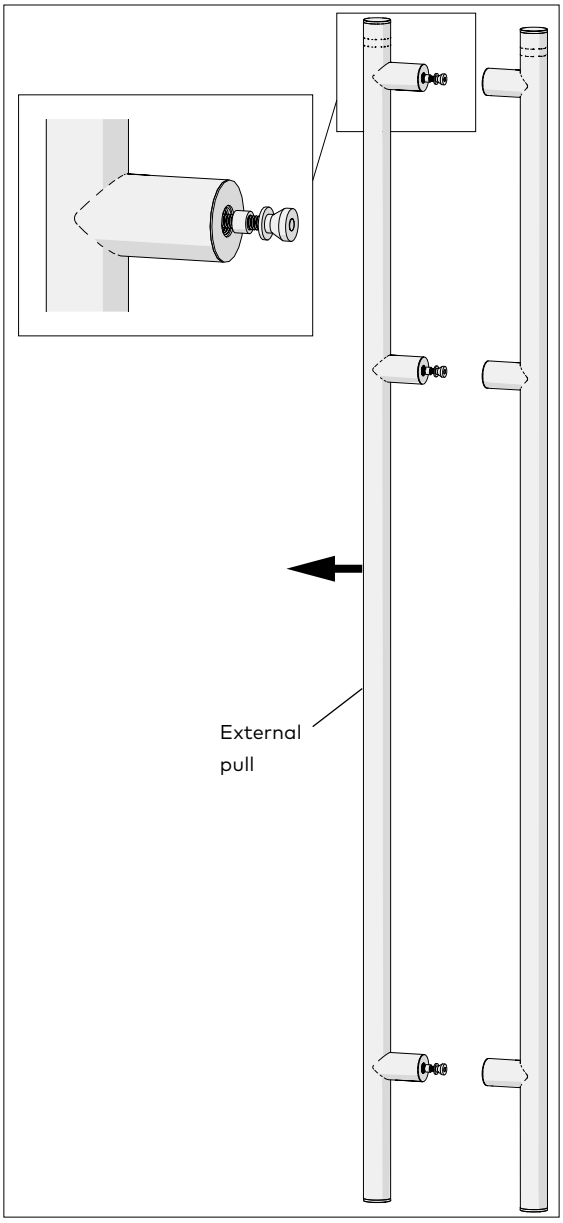


Fig. 5.1.2 Back to back pulls disassembly



5.2 Prepare pull assemblies for wood door installation

Table 5.2.1 External pull hardware

	Description	49-3/16"	60"	72"	84"
2	TG 138 B2B GL pull handle, external	279-010	279-011	279-012	279-013
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP				
4	Anchor, threaded, M6-1.0 x 12.5 mm				
5	Rod, threaded M6-1.0 x 1-3/4"				
6	Gasket, 1-3/8" OD Permanently affixed to standoff at factory				
7	Rod, threaded M6-1.0 x 3-1/4" (for wood door)				
8	1/4-20 x 1-5/8" socket head cap screw				
9	Bushing, plastic, TG 138 5/8 - 3/4 GL				

Fig. 5.2.1 Threaded rods

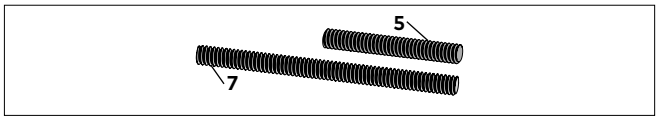


Fig. 5.2.2 External pull standoff and hardware with 1-3/4" threaded rod

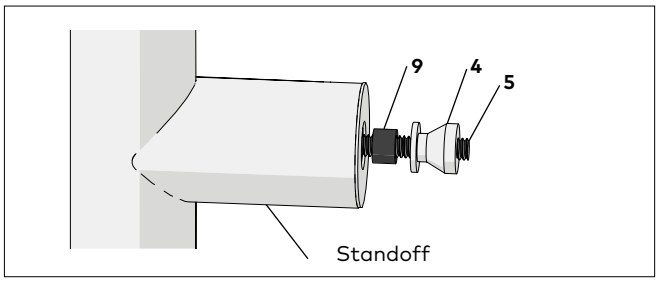
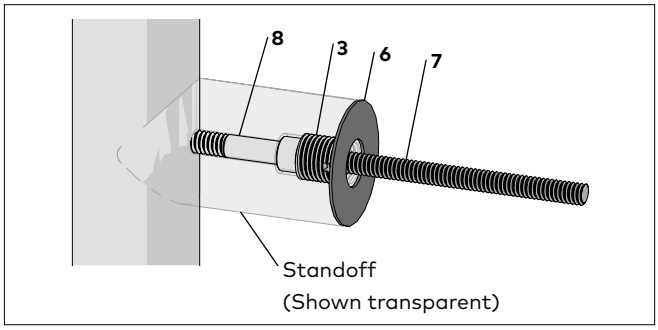


Fig. 5.2.3 External pull standoff and hardware with 3-1/4" threaded rod



NOTICE

Long threaded rods for wood door.
Ladder pulls are shipped from factory with 1-3/4" threaded rods.

3-1/4" threaded rods (item # 7) are required for wood doors. These rods will be in a hardware bag in the box.

NOTICE

Pull hardware (Fig. 5.2.2) is factory assembled to the external pull handle standoffs.

5.2.1 Remove 1 3/4" threaded rods, threaded anchors and bushings from each standoff.

1. Remove threaded anchor (4) and bushing (9) from 1-3/4" threaded rod.
2. Remove 1-3/4" threaded rod (5) from threaded insert (3) inside standoff.

5.2.2 Install 3 1/4" threaded rod into standoff.

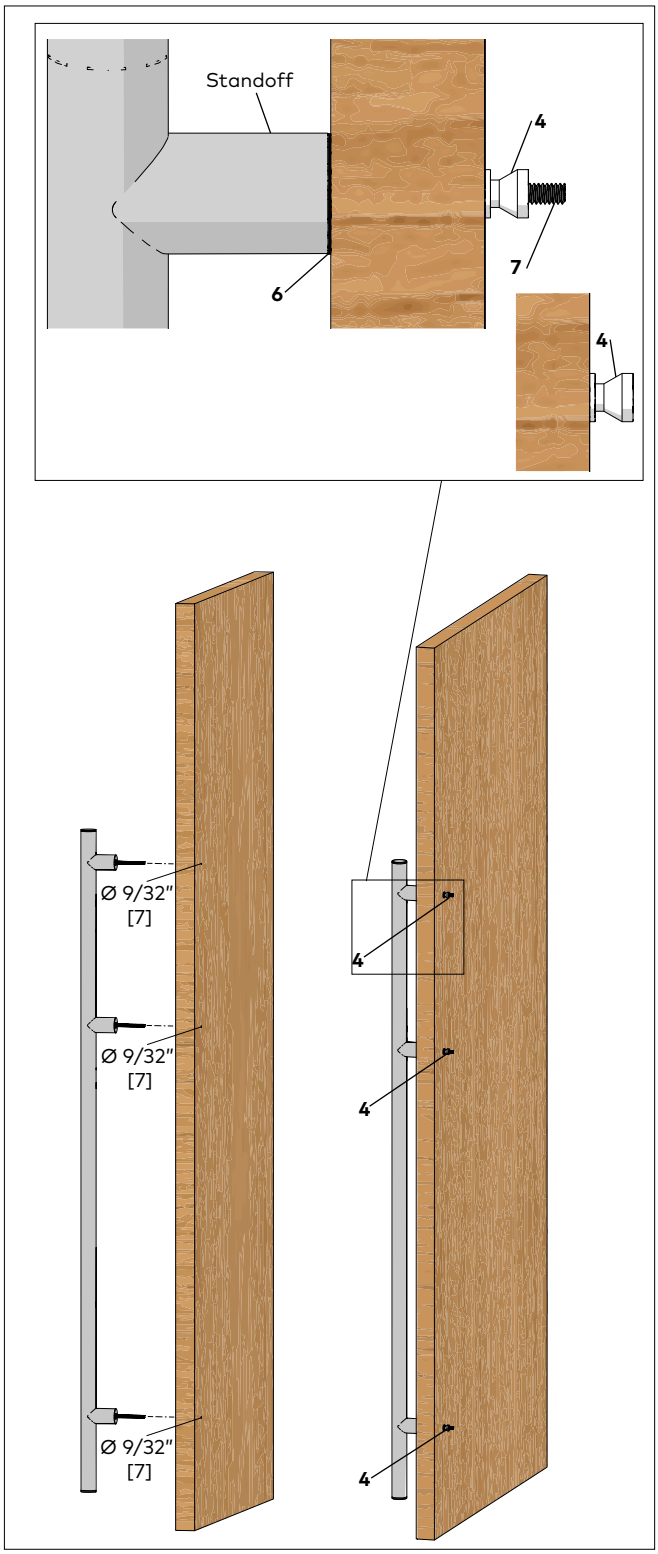
1. Thread the 3-1/4" threaded rod into the threaded insert (3) inside the standoff. Tighten threaded rod against socket head cap screw.
2. Bushing (9) is not required for wood doors.

5.3 Assemble external pull assembly to wood door

Table 5.3.1 External pull hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1-3/8″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)

Fig. 5.3.1 External pull installation



CAUTION

Use caution when handling wood door.

5.3.1 Drill holes for external pull threaded rods in door.

1. Reference the architectural drawings to determine hole locations in the door.
2. Drill a 9/32″ [9] thru-hole for each threaded rod.

5.3.2 Place external pull assembly against wood door.

1. Align external pull standoffs with holes in wood door and insert threaded rods into holes in door.
2. Push external pull assembly toward wood door until standoff gaskets are flush with wood door surface.

5.3.3 Trim threaded rods.

1. Trim excess length of threaded rods (7) to be flush with the threaded anchors (4).

5.3.4 Install threaded anchors on threaded rods.

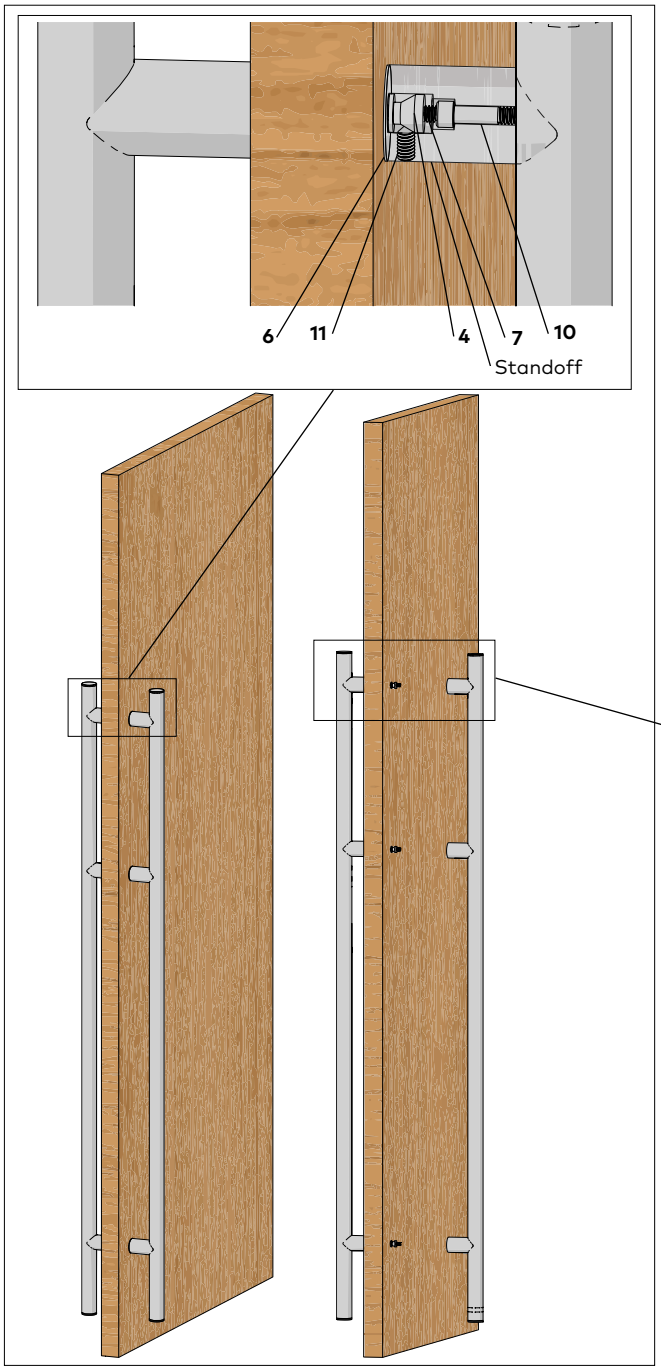
1. Install threaded anchor (4) onto each threaded rod. Tighten each threaded anchor (4) against the wood door.

5.4 Assemble internal pull assembly to wood door

Table 5.4.1 Pull handle hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1-3/8″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)
8	1/4-20 x 1-5/8″ socket head cap screw
10	1/4-20 x 1-5/8″ socket head cap screw (Factory installed)
11	1/4-20 x 1/2″ set screw, cone point, interior pull (Factory installed)

Fig. 5.4.1 Internal pull installation



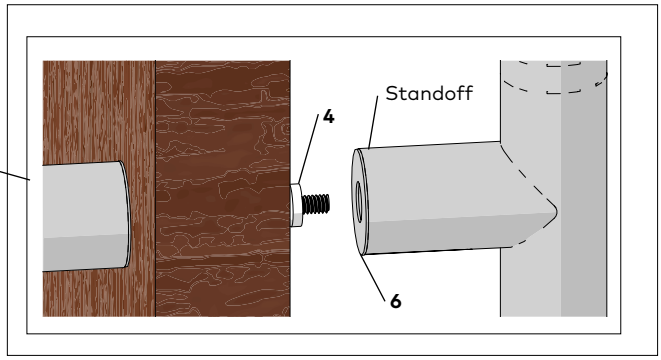
CAUTION

Use caution when handling wood door.

5.4.1 Install internal pull handle.

1. Ensure standoff set screws (11) are loosened or removed prior to internal pull installation.
2. Align internal pull handle standoffs with threaded anchors (4).
3. Slide pull handle standoffs onto threaded anchors until standoffs are flush with wood door surface.
4. Using a 1/8″ hex key, tighten set screws (11) against threaded anchors (4).

Fig. 5.4.2 Internal pull installation detail



6 Installation Instructions Wood Door – TG 138 single-sided non-locking pull

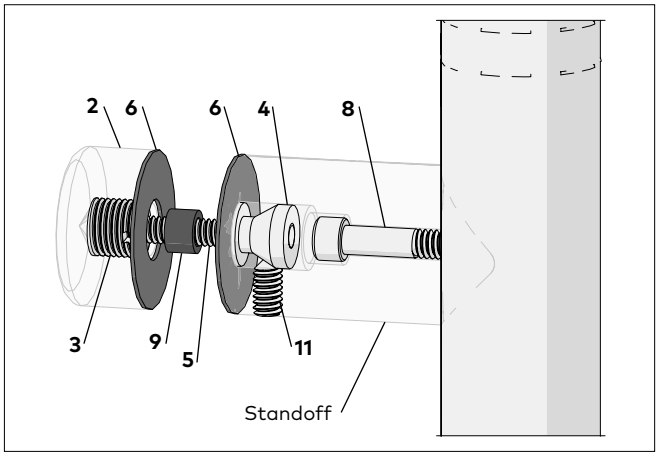
6.1 Remove rose assemblies from pull handle

Table 6.1.1 Single ladder pull hardware-wood door

	Description	49-3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal	279-005	279-006	279-007	279-008
2	Rose, TG138 -1-3/8" OD	979-004			
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010			
4	Anchor, threaded, M6-1.0 x 12.5 mm	979-028			
5	Rod, threaded M6-1.0 x1-3/4"	979-032			
6	Gasket, 1-3/8" OD Permanently attached to	979-006			
8	1/4-20 x 1-5/8" socket head cap screw	900-203			
9	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031			
11	1/4-20 x 1/2" set screw, cone point, interior pull	900-201			

Factory assembled in standoffs

Fig. 6.1.1 Single ladder pull hardware

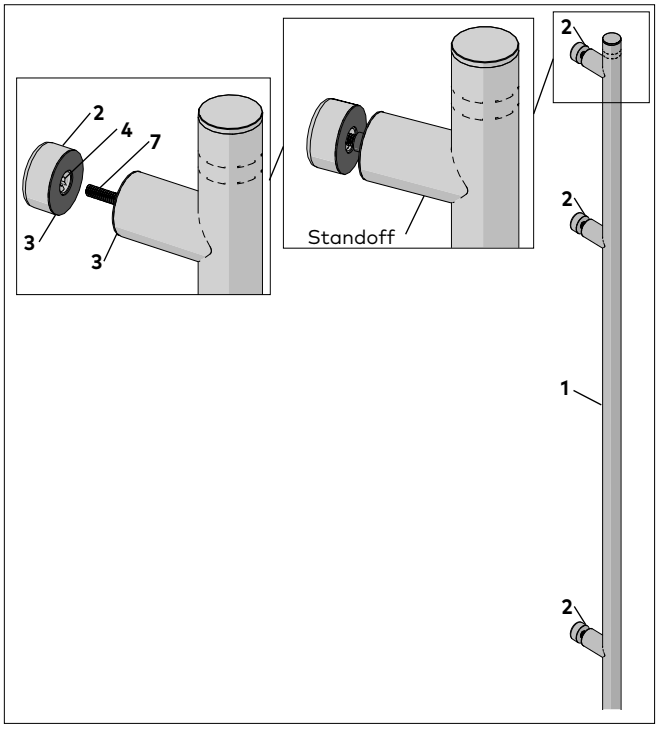


6.1.1 Remove rose assemblies from single pull handle.

1. Remove rose assemblies from single pull handle.

- Threaded insert (4) has Loctite® applied at factory. Insert is removed with rose.
- Gaskets (3) are secured to rose and to standoff at factory.

Fig. 6.1.2 Single pull assembly - rose removal



6.2 Prepare pull assembly for wood door installation

Table 6.2.1 Pull handle hardware

	Description
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Rod, threaded M6-1.0 x 1-3/4"
6	Gasket, 1-3/8" OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4" (for wood door)
8	1/4-20 x 1-5/8" socket head cap screw
9	Bushing, plastic, TG 138 5/8 - 3/4 GL

Fig. 6.2.1 Threaded rods

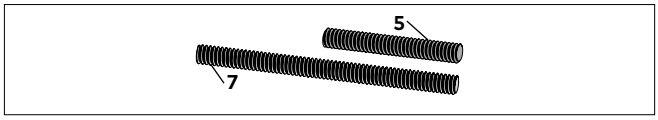


Fig. 6.2.2 Single pull standoff and hardware, 1-3/4 inch threaded rod

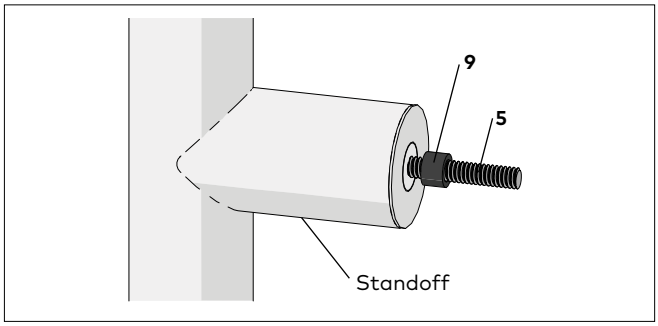
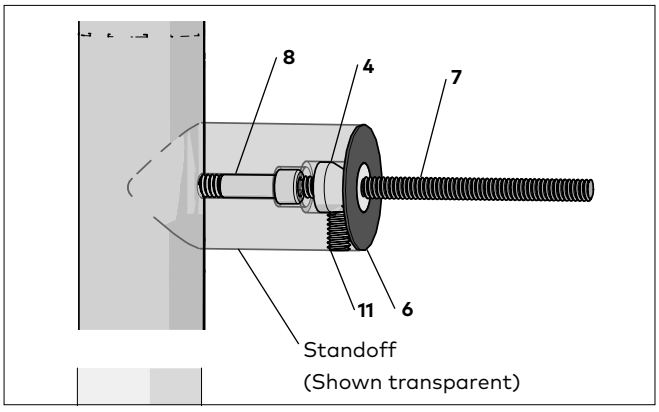


Fig. 6.2.3 Single pull standoff and hardware, 3-1/4" threaded rod for wood door



NOTICE

Threaded rods for wood door.
Ladder pulls are shipped from factory with 1-3/4" threaded rods.

3-1/4" threaded rods are required for wood doors.

NOTICE

Pull hardware (Fig. 6.2.2) is factory assembled to the external pull handle standoffs.

6.2.1 Remove 1 3/4" threaded rod, anchor and bushing from each standoff.

1. Using a 1/8" hex key, loosen setscrew (11) and remove 1-3/4" threaded rod (5) with anchor (4) and bushing (9) from standoff.
2. Remove 1-3/4" threaded rod (5) from anchor (4).

6.2.2 Install 3-1/4" threaded rod and anchor.

Thread the 3-1/4" threaded rod into the anchor (4) and move the assembly inside the standoff as shown in Fig. 6.2.3.

- Threaded rod must be against socket head cap screw (8) and anchor (4) positioned to be flush with end of standoff.

3. Using a 1/8" hex key, tighten setscrew (11) against threaded anchor (4).
4. Bushing (9) is not required for wood doors.

6.3 Assemble pull assembly to wood door

Table 6.3.1 Pull handle hardware

1	TG 138 GL pull handle, internal
2	Rose, TG138 1-3/8″ OD
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1-3/8″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)
8	1/4-20 x 1-5/8″ socket head cap screw
11	1/4-20 x 1/2″ set screw, cone point (Factory installed)

Fig. 6.3.1 Threaded rod trim length

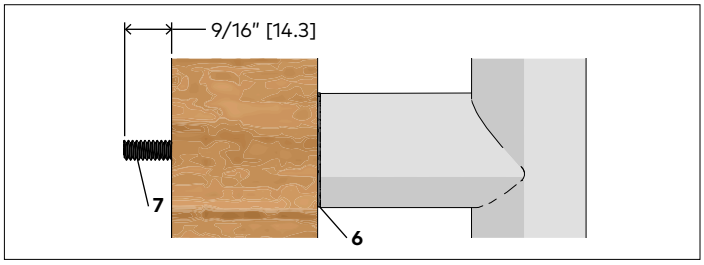
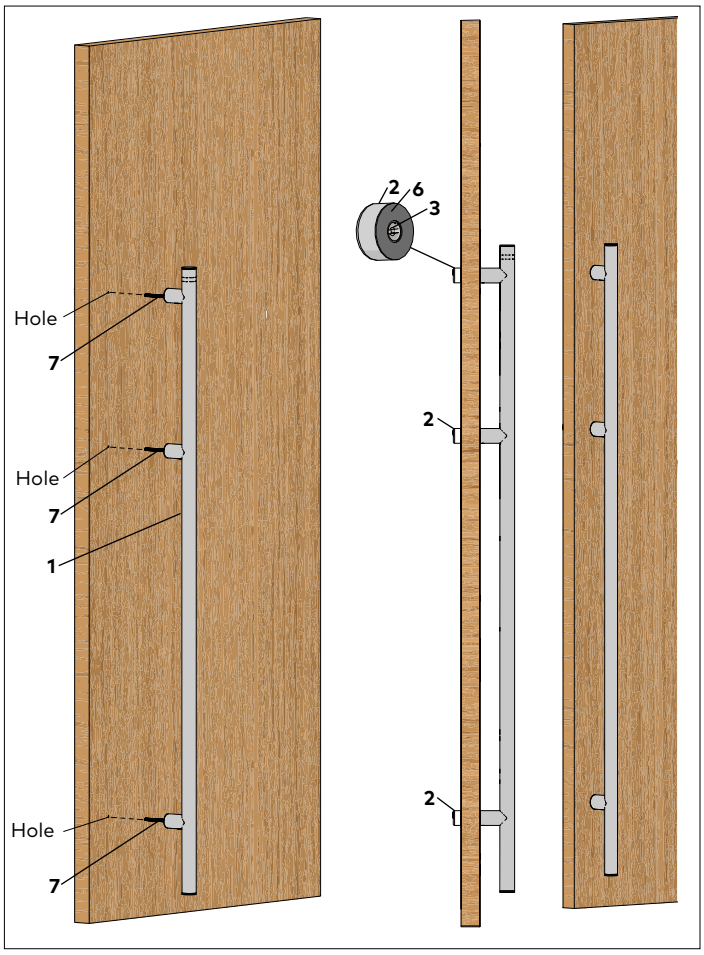


Fig. 6.3.2 Internal pull installed against wood door



CAUTION

Use caution when handling wood door.

6.3.1 Drill holes for ladder pull threaded rods in door.

1. Reference the architectural drawings to determine hole locations in the door.
2. Drill a 9/32″ [9] thru-hole for each threaded rod.

6.3.2 Place ladder pull assembly against wood door.

1. Align ladder pull standoffs with holes in wood door and insert threaded rods into holes in door.
2. Push internal pull assembly toward wood door until standoff gaskets are flush with wood door surface.

6.3.3 Trim threaded rods.

1. Trim each threaded rod so that a length of 9/16″ extends beyond the face of the door (Fig. 6.3.1)

- This is necessary to ensure the rose assembly (Para. 6.3.4) can pull and secure the ladder pull to the door.

6.3.4 Install rose assemblies.

1. Thread each rose assembly onto its threaded rod and tighten.

7 Installation Instructions Wood Door – TG 138 single-sided blind pull

7.1 Single sided blind pull assembly

Table 7.1.1 Single ladder blind pull hardware-wood door

	Description		49-3/16"	60"	72"	84"
1	TG 138 B2B GL pull handle, internal		279-005	279-006	279-007	279-008
3	Gasket, 1-3/8" OD Permanently attached to standoff and rose at factory.	Factory assembled in standoffs	979-006			
10	1/4-20 x 1-5/8" socket head cap screw		900-203			
11	1/4-20 x 1/2" set screw, cone point		900-201			
12	Connector, TG 138 wood door		979-026			

Fig. 7.1.1 Wood door ladder blind pull hardware

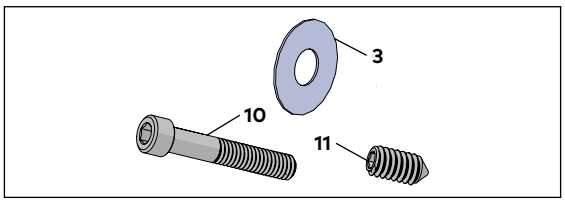


Fig. 7.1.2 Wood door connector

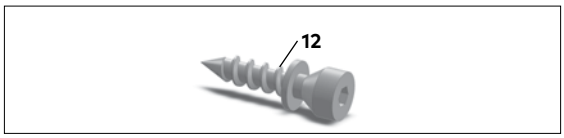
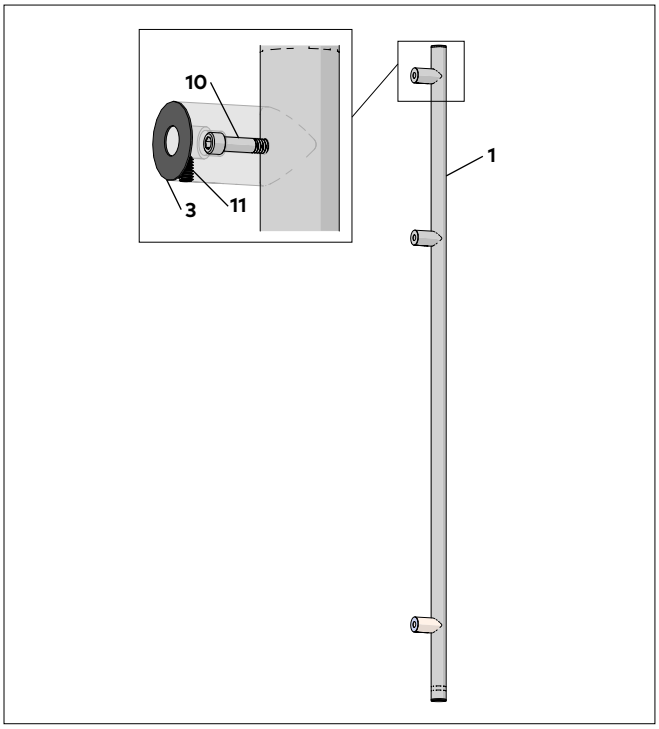


Fig. 7.1.3 Single blind pull assembly

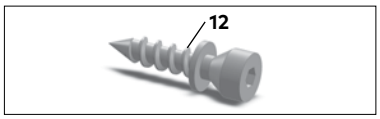


7.2 Install wood door connectors

Table 7.2.1 Single ladder blind pull hardware-wood door

	Description	49-3/16"	60"	72"	84"
12	Connector, TG 138 wood door, #18 wood screw		979-026		

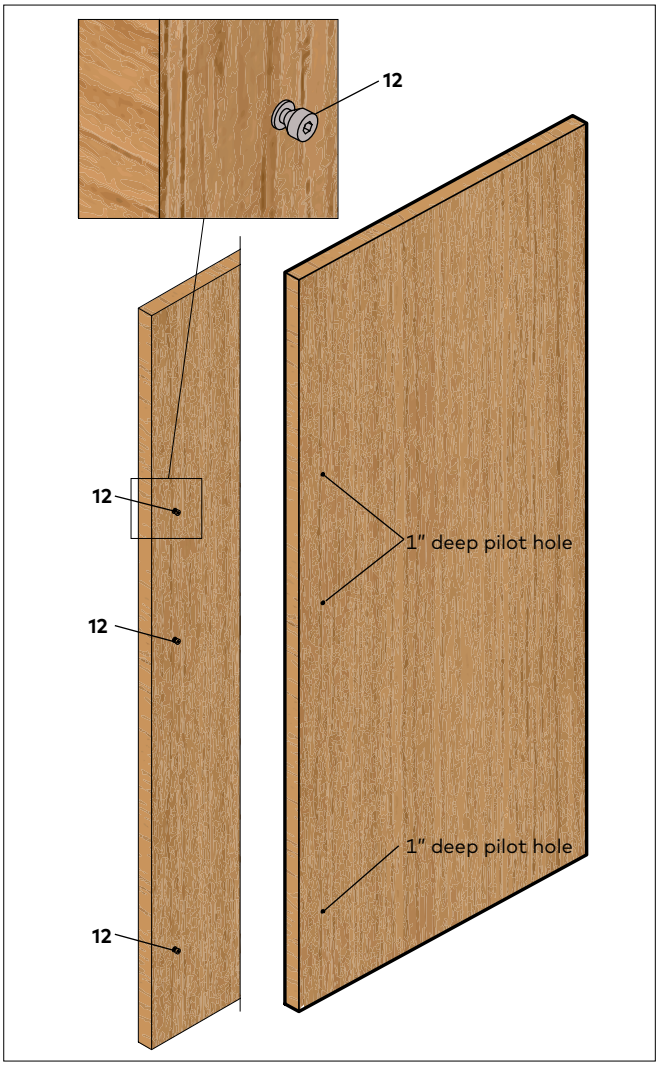
Fig. 7.2.1 Wood door connector



CAUTION

Use caution when handling wood door.

Fig. 7.2.2 Wood door connectors installed



7.2.1 Drill pilot holes in wood door for connectors (12).

1. Reference the architectural drawings to determine hole locations in the door.
2. Use applicable drill (Para. 1.2) to drill 1" deep pilot holes in wood door for connectors (12).

7.2.2 Thread connectors into wood door pilot holes.

1. Using a 3/16" T-handle hex key, screw each connector into its pilot hole until the wood door connector flange is tight against the door.

7.3 Install pull assembly onto wood door

Table 7.3.1 Single ladder blind pull hardware-wood door

	Description	49-3/16"	60"	72"	84"
1	TG 138 GL pull handle, internal	279-005	279-006	279-007	279-008
3	Gasket, 1-3/8" OD Permanently attached to standoff and rose at factory.	979-006			
10	1/4-20 x 1-5/8" socket head cap screw	900-203			
11	1/4-20 x 1/2" set screw, cone point	900-201			
12	Connector, TG 138 wood door, #18 wood screw	979-026			

Fig. 7.3.1 Wood door ladder blind pull hardware

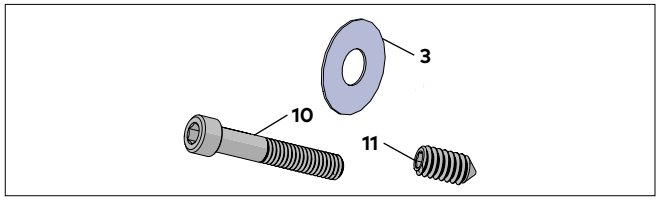


Fig. 7.3.2 Wood door connector

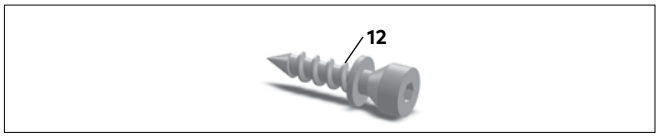
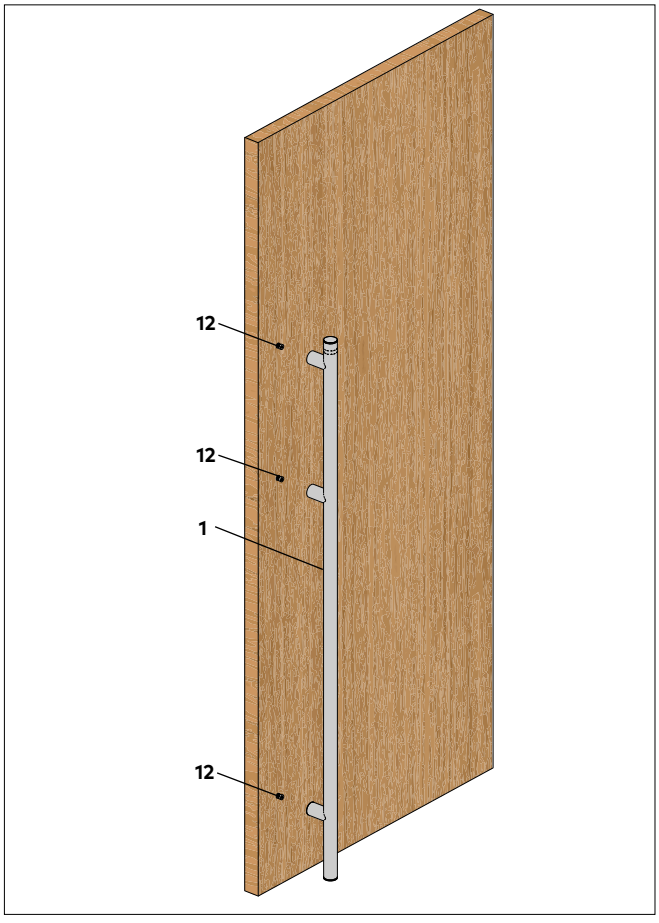


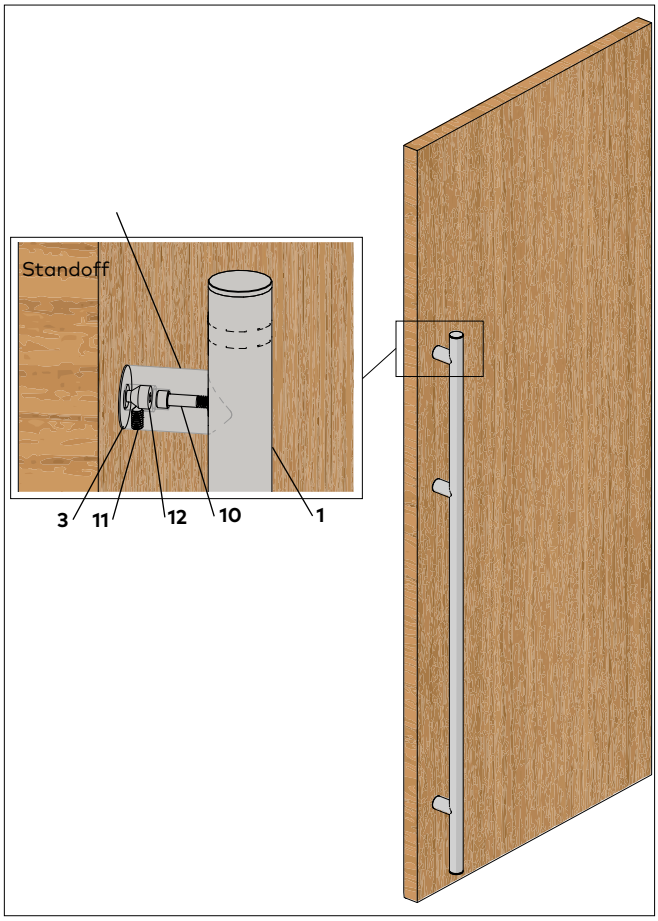
Fig. 7.3.3 Wood door connectors installed



7.3.1 Install pull assembly onto connectors.

1. Ensure standoff setscrews (11) are loosened.
2. Slide pull assembly standoffs onto threaded connectors (12) until standoff gaskets (3) are flush with wood door.
3. Using a 1/8" hex key, tighten each standoff setscrew (11) against its wood door connector (12).

Fig. 7.3.4 Pull assembly installed



8 Product overview – TG 9387 non-locking ladder pull handles

8.1 TG 9387 back-to-back pull handles – door assemblies

Fig. 8.1.1 60″ glass door

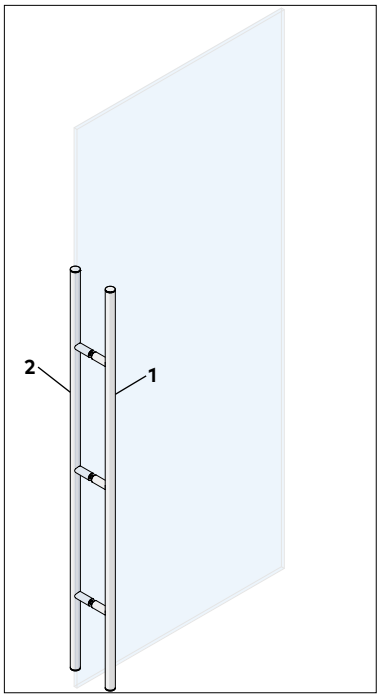
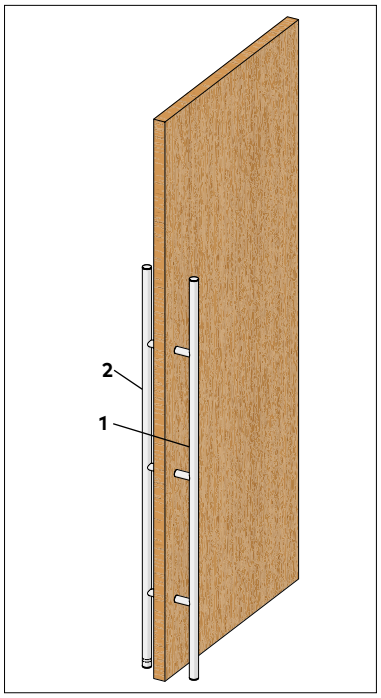


Fig. 8.1.2 60″ wood door



1	Pull handle, internal
2	Pull handle, external

8.2 TG 9387 single pull handle – door assemblies

Fig. 8.2.1 60″ glass door

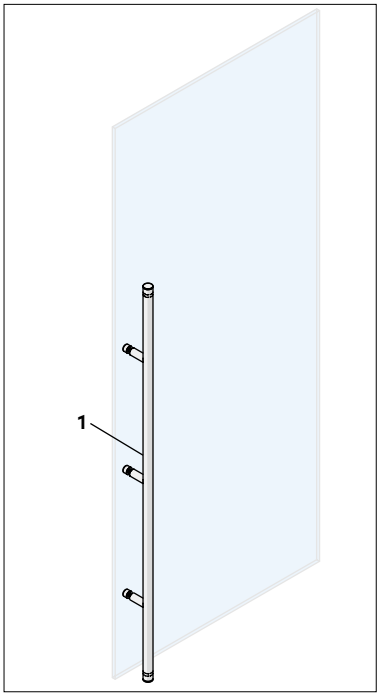


Fig. 8.2.2 60″ wood door

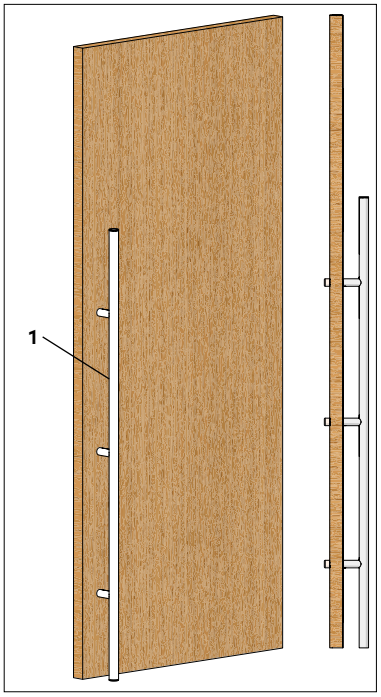
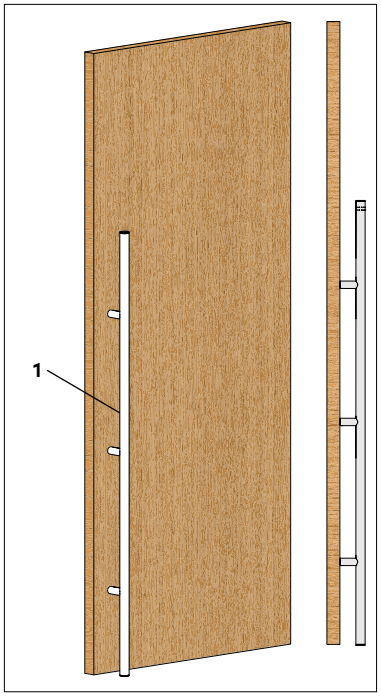


Fig. 8.2.3 60″ wood door -blind



8.3 TG 9387 back-to-back pull handle assemblies

Table 8.3.1 Back-to-back pull handles

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	TG 9387 B2B GL pull handle, external	279-111	279-112	979-125	279-113	279-114	279-120	279-115	279-118

Fig. 8.3.1 Back to back pull handles

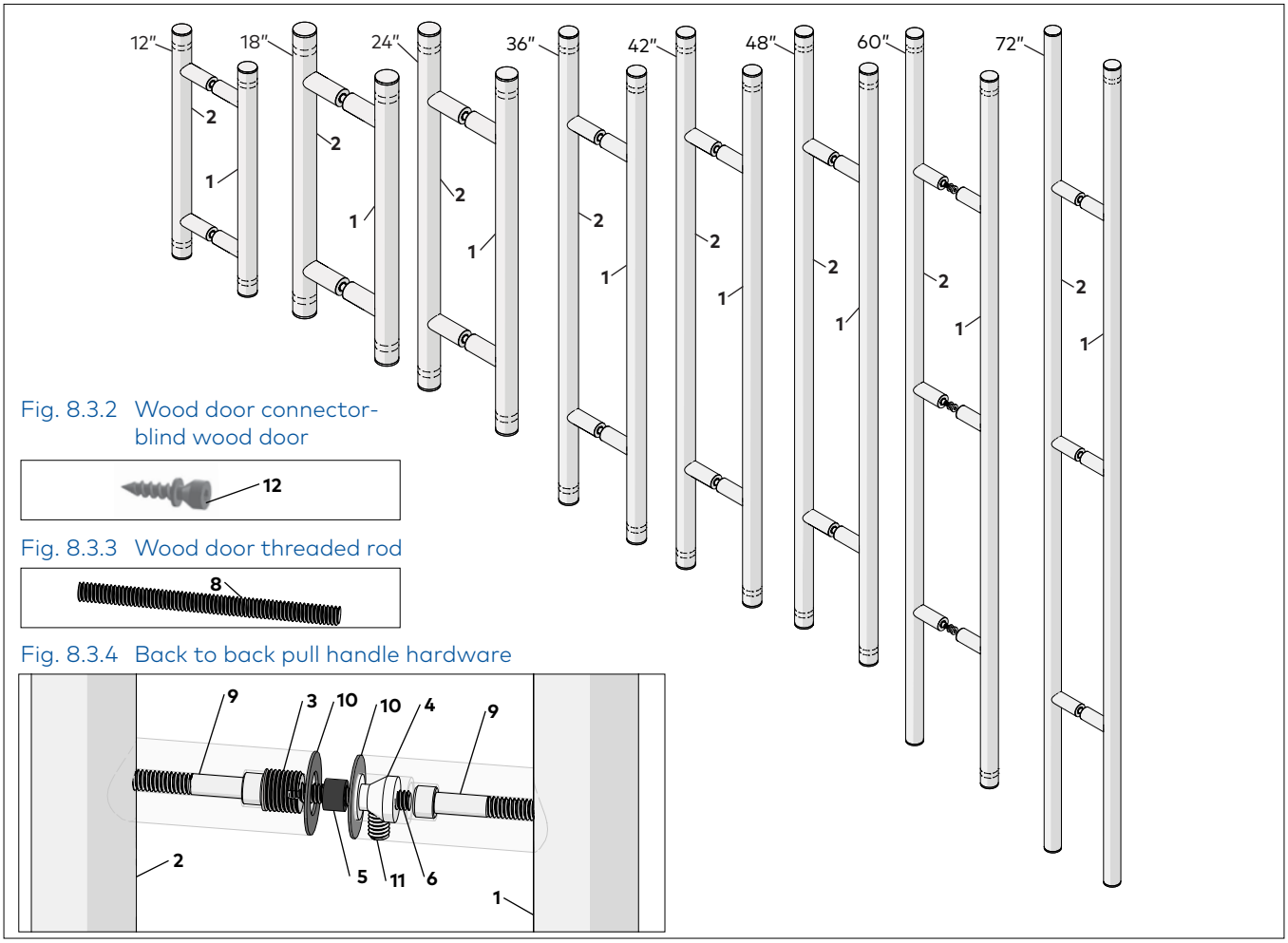


Fig. 8.3.2 Wood door connector-blind wood door

Fig. 8.3.3 Wood door threaded rod

Fig. 8.3.4 Back to back pull handle hardware

Table 8.3.2 Back-to-back pull handle hardware

3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP		979-010
4	Anchor, threaded, M6-1.0 x 12.5 mm		979-028
5	Bushing, plastic, 3/8-1/2 GL		979-031
6	Rod, threaded M6-1.0 x 1-3/4″		979-032
8	Rod, threaded M6-1.0 x 3-1/4″ (Wood door)		979-030
9	1/4-20 x 1-5/8″ socket head cap screw	Preassembled into standoffs at factory (Fig. 8.3.2)	900-203
10	Gasket, 1″ OD		979-107
11	1/4-20 x 3/8″ set screw, cone point, interior pull		900-202
12	Connector for blind wood door		979-026

8.4 TG 9387 single pull handle assemblies

Table 8.4.1 Single pull handles

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117

Fig. 8.4.1 Single pull handles

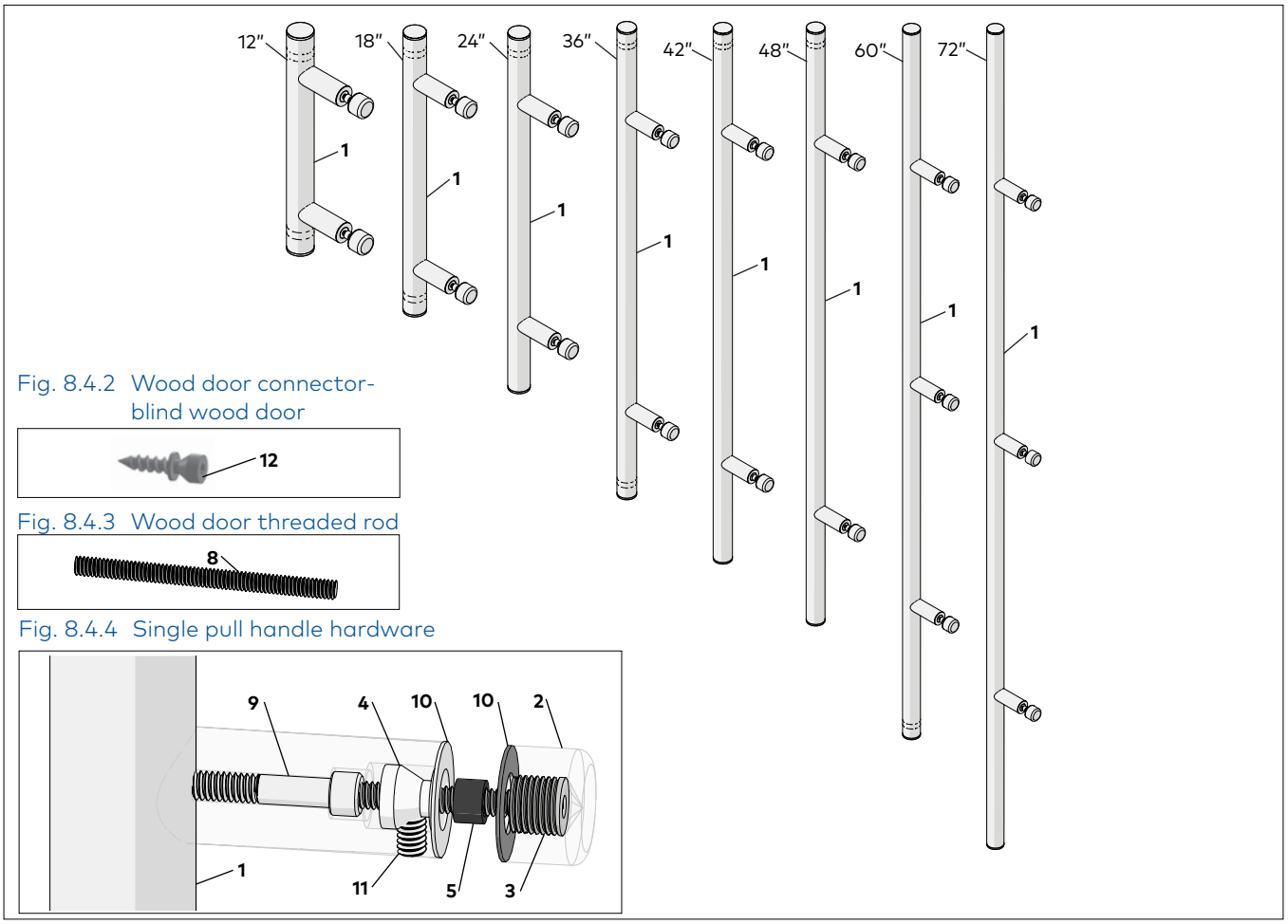


Fig. 8.4.2 Wood door connector-blind wood door

Fig. 8.4.3 Wood door threaded rod

Fig. 8.4.4 Single pull handle hardware

Table 8.4.2 Single pull handle hardware

2	Rose, TG9387 1″ OD	Preassembled at factory (Fig. 8.4.2)	979-104
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP		979-010
10	Gasket, 1″ OD		979-107
4	Anchor, threaded, M6-1.0 x 12.5 mm		979-028
5	Bushing, rubber, 3/8-1/2 GL		979-031
6	Rod, threaded M6-1.0 x 1-3/4″		979-032
8	Rod, threaded M6-1.0 x 3-1/4″ (Wood door)		979-030
9	1/4-20 x 1-5/8″ socket head cap screw	Preassembled into standoffs at factory (Fig. 8.4.2)	900-203
10	Gasket, 1″ OD		979-107
11	1/4-20 x 3/8″ set screw, cone point, interior pull		900-202
12	Connector for blind wood door		979-026

9 Installation Instructions Glass Door – TG 9387 back-to-back non-locking pulls

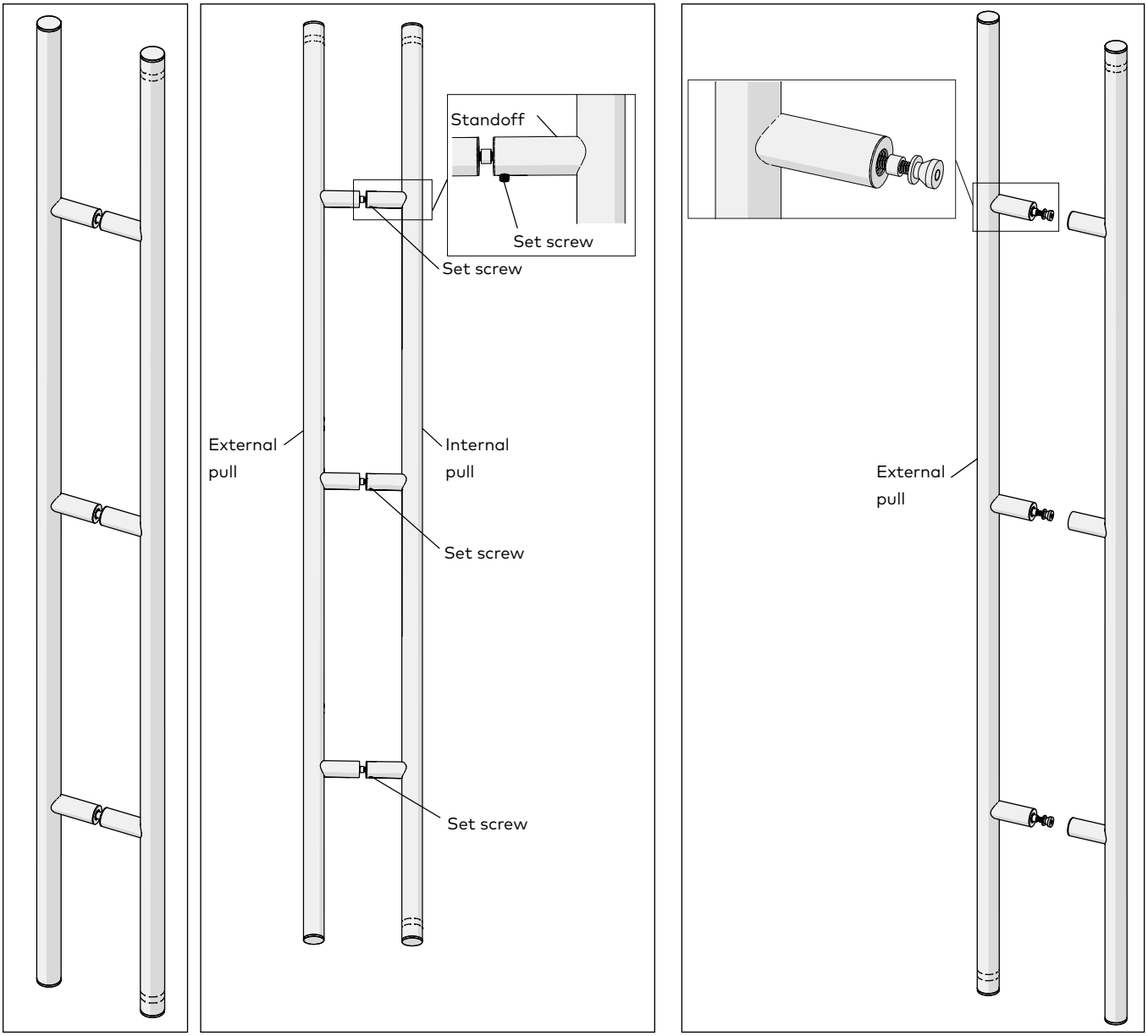
9.1 Disassemble pulls

NOTE: Pulls will come preassembled from factory with glass hardware for 3/8" [10] - 3/4" [19] glass**.**

9.1.1 Disassemble pulls on a flat surface.

1. Using a hex key, loosen set screw in each internal pull standoff.
2. Pull external pull assembly away from internal pull assembly.

Fig. 9.1.1 Back to back pulls disassembly



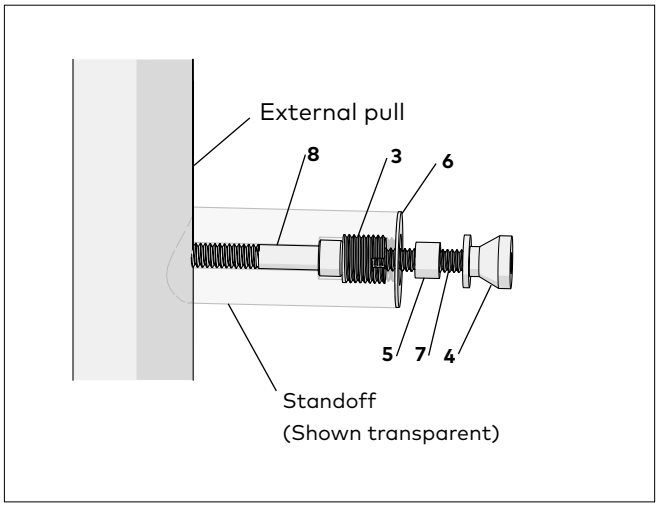
9.2 Prepare pull assemblies for glass installation

Table 9.2.1 External pull hardware

	Description	12″	18″	24″	36″	42″	48″	60″	72″
2	TG 9387 B2B GL pull handle, external	279-111	279-112	979-125	279-113	279-114	279-120	279-115	279-118

3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Bushing, plastic, TG 138 5/8 - 3/4 GL
6	Gasket, 1″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 1-3/4″
8	1/4-20 x 1-5/8″ socket head cap screw

Fig. 9.2.1 External pull standoff and hardware



NOTICE

Threaded rods.
Rod, threaded M6-1.0 x 1-3/4″:
for 3/8″ [10] - 3/4″ [19] glass**.**

NOTICE

Pull hardware (Fig. 9.2.1) is factory assembled to the external pull handle standoffs.

9.2.1 Bushing installation on threaded rod.

1. Ensure bushing is installed on each threaded rod.

9.2.2 Check M6 threaded anchors are installed on their threaded rods.

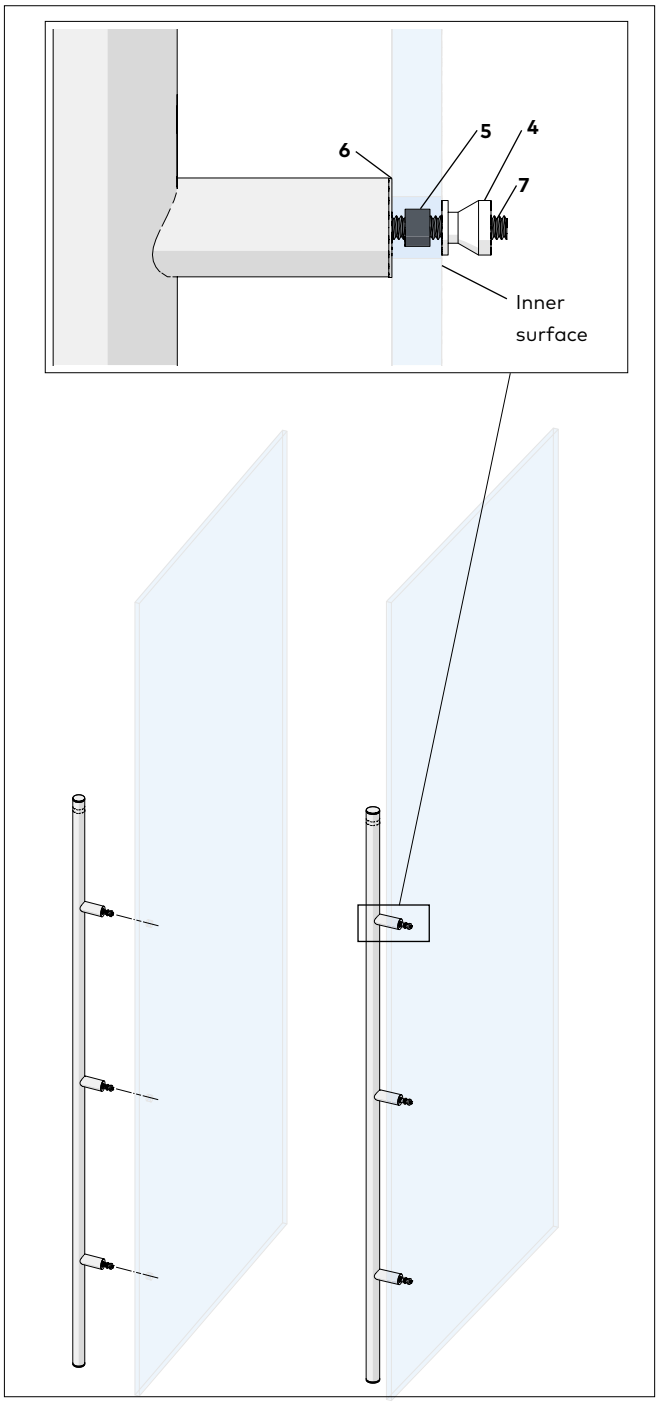
1. Threaded anchor (4) must be installed on its threaded rod in approximate location as shown in Fig. 9.2.1.

9.3 Assemble external pull assembly to glass

Table 9.3.1 External pull hardware

3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Bushing, plastic, TG 138 5/8 - 3/4 GL
6	Gasket, 1″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 1-3/4″
8	1/4-20 x 1-5/8″ socket head cap screw

Fig. 9.3.1 Exterior pull standoff against glass



CAUTION

Use caution when handling glass.

CAUTION

Back to back ladder pull installation.
It is recommended that two installers assemble back to back ladder pulls to glass.

9.3.1 Place external pull assembly against glass.

1. Align external pull standoffs with holes in glass and insert threaded rod with bushings and threaded anchors into holes in glass.
2. Move external pull assembly toward glass until standoff gaskets are flush with glass surface.

9.3.2 Align threaded anchors with glass surface.

1. Rotate each threaded anchor (4) until its inner surface is approximately flush with the glass surface (Fig. 9.3.1).

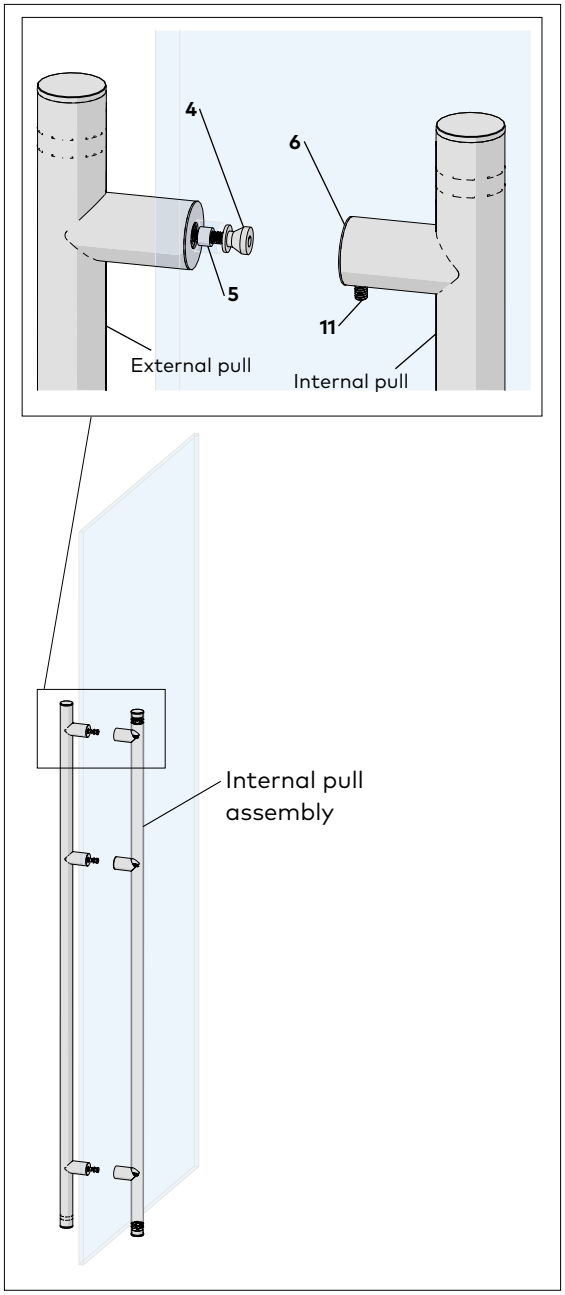
- This threaded anchor location will ensure that the setscrews in the interior pull handle standoffs are properly aligned with the threaded anchors (Para. 9.4).

9.4 Assemble internal pull assembly to glass

Table 9.4.1 External pull hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Bushing, plastic, TG 138 5/8 - 3/4 GL
6	Gasket, 1" OD Permanently affixed to standoff at factory
11	1/4-20 x 3/8" setscrew, cone point, interior pull

Fig. 9.4.1 Internal pull in installation position



CAUTION

Use caution when handling glass.

9.4.1 Install internal pull assembly against glass.

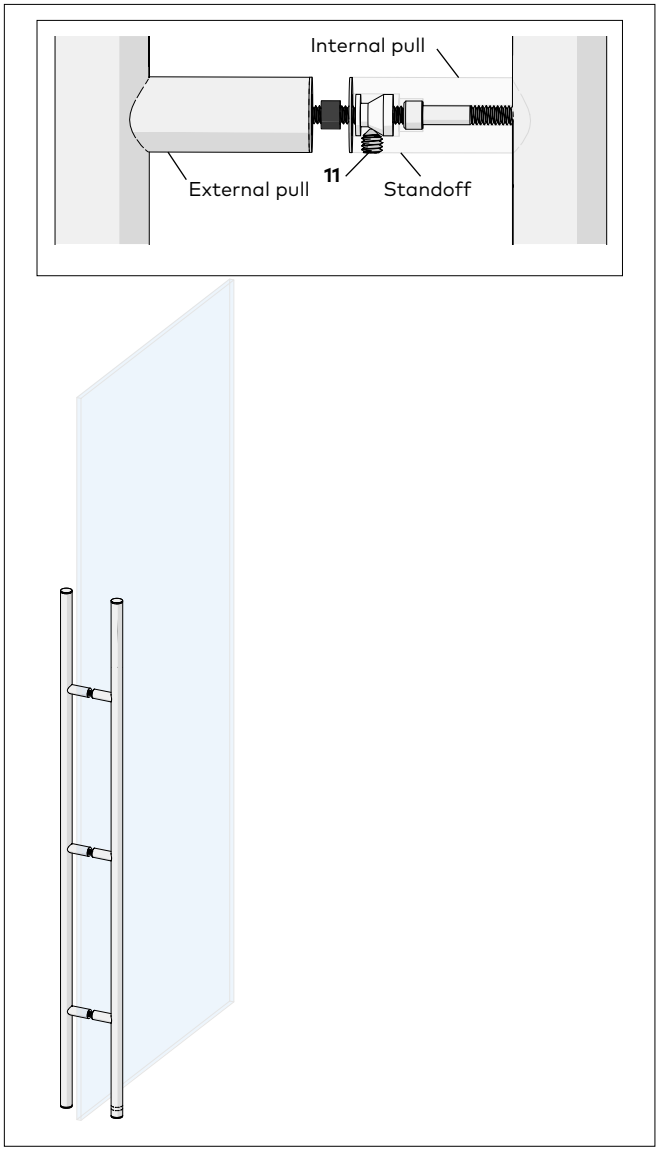
1. Align internal pull standoff gaskets (6) with external pull threaded anchors (4).
2. Move internal pull assembly toward glass until standoff gaskets are flush with glass surface.

9.4.2 Tighten set screw in each standoff.

1. Using a 1/8" hex key, tighten set screws against threaded anchors.

- **Note that threaded anchor (4) must be positioned on threaded rod so that setscrew cone contacts tapered part of threaded anchor** (Fig. 9.4.2).

Fig. 9.4.2 Internal pull installed against glass



10 Installation Instructions Glass Door – TG 9387 single-sided non-locking pull

10.1 Disassemble pull

Table 10.1.1 Single pull handle hardware

	Description	12"	18"	24"	36"	42"	48"	60"	72"
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Rose, TG9387 - 1" OD	Factory assembled				979-104			
3	Gasket, 1" OD Permanently attached to standoff and rose at factory.	Factory assembled				979-107			
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	Factory assembled				979-010			
3	Gasket, 1" OD Permanently attached to standoff and rose at factory.	Factory assembled				979-107			
5	Anchor, threaded, M6-1.0 x 12.5 mm	Factory assembled				979-028			
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	Factory assembled				979-031			
7	Rod, threaded M6-1.0 x 1-3/4"	Factory assembled				979-032			
10	1/4-20 x 1-5/8" socket head cap screw					900-203			
11	1/4-20 x 3/8" set screw, cone point, interior pull					900-202			

Fig. 10.1.1 Glass ladder pull hardware

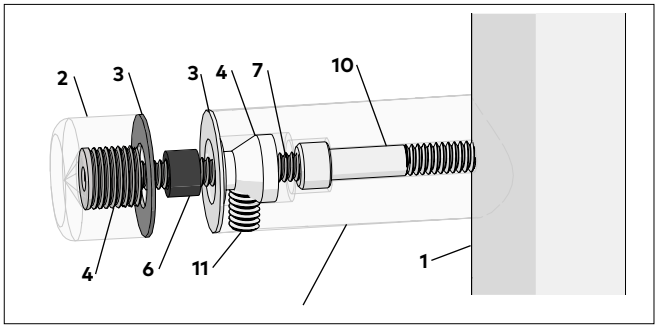
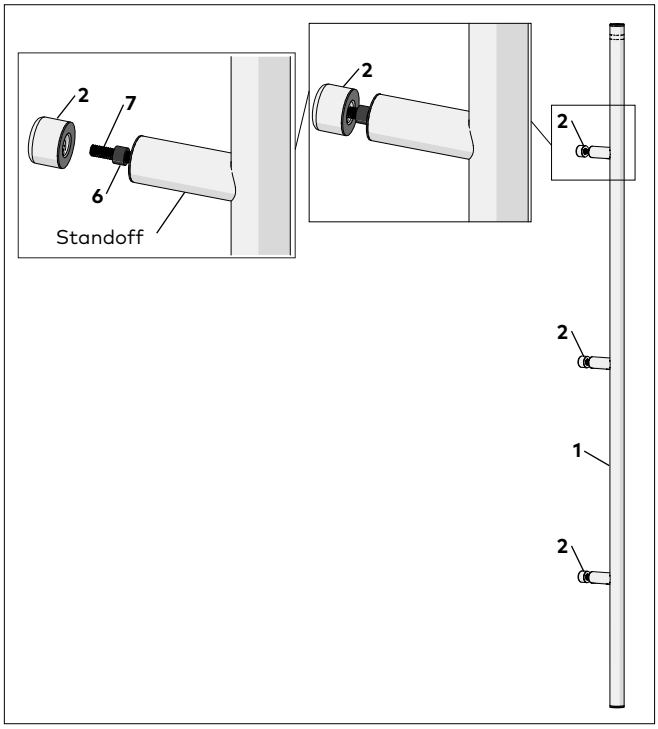


Fig. 10.1.2 Single pull assembly - rose removal



10.1.1 Remove rose assemblies from single pull handle.

1. Remove rose assemblies from single pull handle.

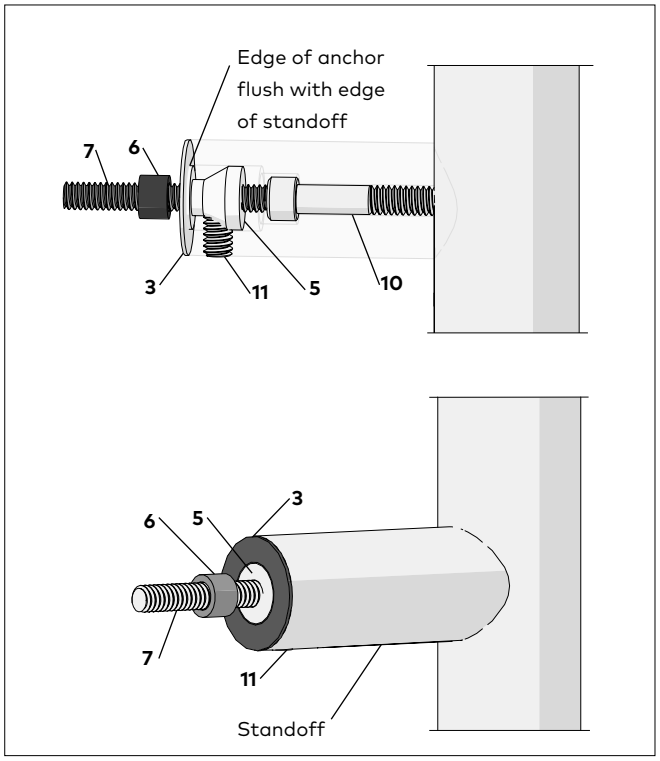
- Threaded insert (4) has Loctite® applied at factory. Insert is removed with rose.
- Gaskets (3) are secured to both the rose and the standoff at factory.

10.2 Prepare pull assembly for glass installation

Table 10.2.1 Single pull handle hardware

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Rose, TG138 -1″ OD	979-104							
3	Gasket, 1″ OD	979-107							
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010							
5	Anchor, threaded, M6-1.0 x 12.5 mm	979-028							
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031							
7	Rod, threaded M6-1.0 x 1-3/4″	979-032							
10	1/4-20 x 1-5/8″ socket head cap screw	900-203							
11	1/4-20 x 3/8″ setscrew, cone point, interior pull	900-202							

Fig. 10.2.1 Single pull assembly



NOTICE

Threaded rods.
Rod, threaded M6-1.0 x 1/3/4″:
for 3/8″ [10] - 3/4″ [19] glass**.**

NOTICE

Pull hardware (Fig. 10.2.1) is factory assembled to the internal pull handle standoffs.

10.2.1 Position M6 threaded anchors in standoffs.

1. Threaded anchor must be positioned on its threaded rod so that it is flush with the edge of the standoff (Fig. 10.2.1).

10.2.2 Bushing installation on threaded rod.

1. Ensure bushing (6) is installed on each threaded rod.

10.2.3 Tighten setscrews.

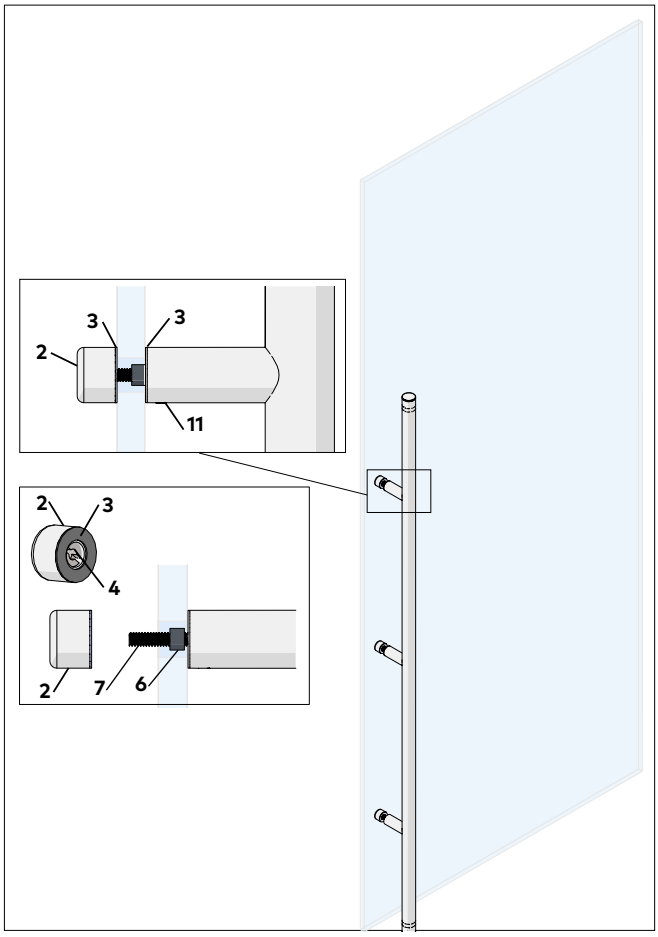
1. Using a 1/8″ hex key, tighten each set screw against its threaded anchor.

10.3 Assemble pull assembly to glass

Table 10.3.1 Single pull handle hardware

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Rose, TG138 1″ OD	979-104							
3	Gasket, 1″ OD	979-107							
4	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010							
6	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031							
7	Rod, threaded M6-1.0 x 1-3/4″	979-032							
11	1/4-20 x 3/8″ set screw, cone point, interior pull	900-202							

Fig. 10.3.1 Internal pull installed against glass



CAUTION

Use caution when handling glass.

10.3.1 Install internal pull assembly against glass.

1. Align pull standoffs with glass mounting holes.
2. Move internal pull assembly toward glass until standoff gaskets are flush with glass surface.

10.3.2 Install rose assemblies onto threaded rods.

1. Thread each rose assembly onto its threaded rod and tighten.

11 Installation Instructions Wood Door – TG 9387 back-to-back non-locking pulls

11.1 Disassemble pulls

11.1.1 Disassemble pulls on a flat surface.

1. Loosen set screw in each internal pull standoff.
2. Pull external pull assembly away from internal pull assembly.

Fig. 11.1.1 Back to back pulls disassembly

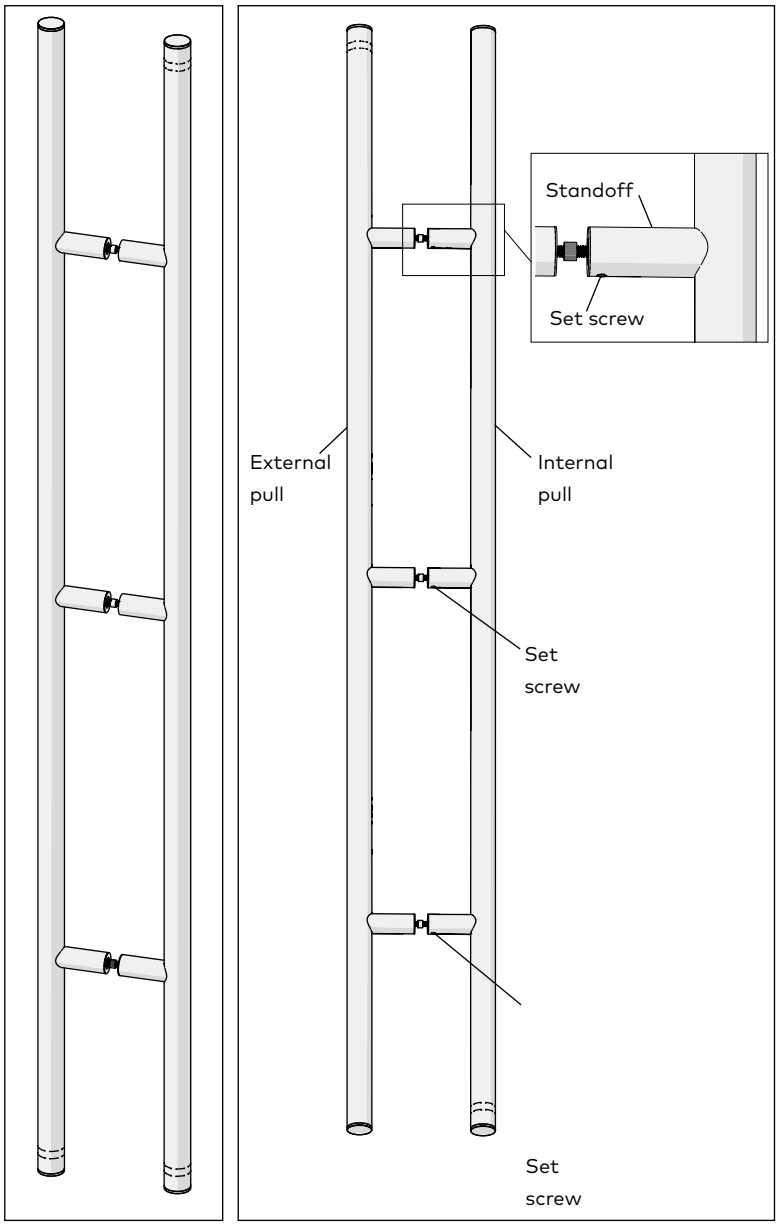
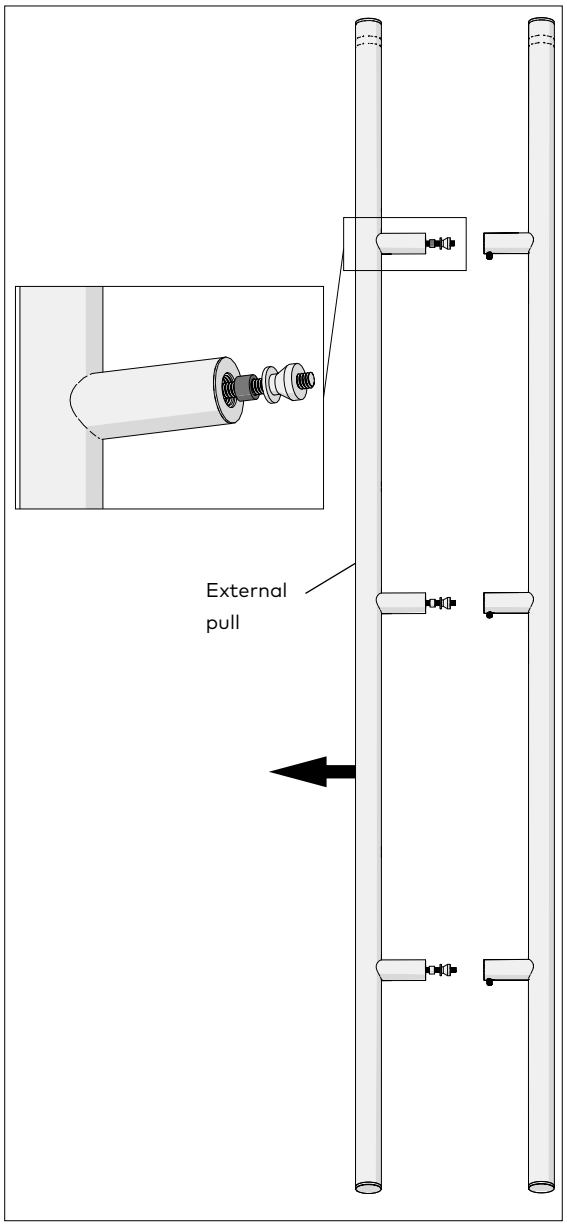


Fig. 11.1.2 Back to back pulls disassembly



11.2 Prepare pull assemblies for wood door installation

Table 11.2.1 External pull hardware

	Description	12″	18″	24″	36″	42″	48″	60″	72″
2	TG 9387 B2B GL pull handle, external	279-111	279-112	979-125	279-113	279-114	279-120	279-115	279-118
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP								
4	Anchor, threaded, M6-1.0 x 12.5 mm								
5	Rod, threaded M6-1.0 x 1-3/4″								
6	Gasket, 1″ OD Permanently affixed to standoff at factory								
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)								
8	1/4-20 x 1-5/8″ socket head cap screw								
9	Bushing, plastic, TG 138 5/8 - 3/4 GL								

Fig. 11.2.1 Threaded rods

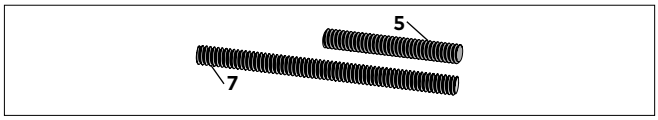


Fig. 11.2.2 External pull standoff and hardware with 1-3/4″ threaded rod

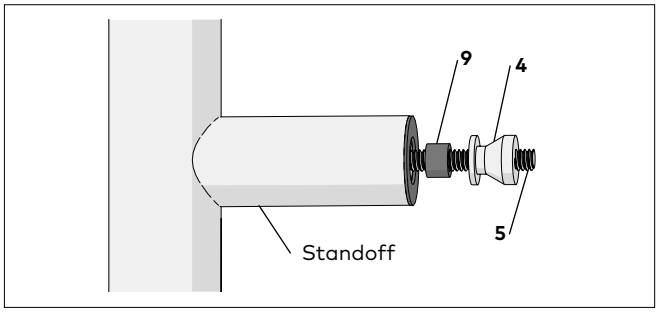
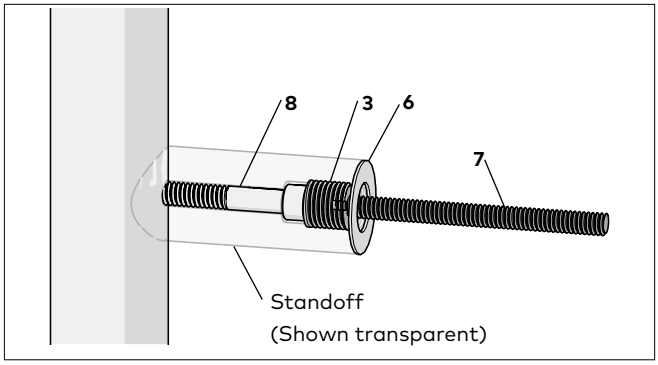


Fig. 11.2.3 External pull standoff with 3-1/4″ threaded rod



NOTICE

Long threaded rods for wood door.
Ladder pulls are shipped from factory with 1-3/4″ threaded rods.

3-1/4″ threaded rods (item # 7) are required for wood doors. These rods will be in a hardware bag in the box.

NOTICE

Pull hardware (Fig. 5.2.2) is factory assembled to the external pull handle standoffs.

11.2.1 Remove threaded anchors.

1. Remove threaded anchors (4) and bushings (9) from 1-3/4″ threaded rods.
2. Unscrew 1-3/4″ threaded rods (5) from threaded inserts inside standoffs.

11.2.2 Install 3-1/4″ threaded rods into standoffs.

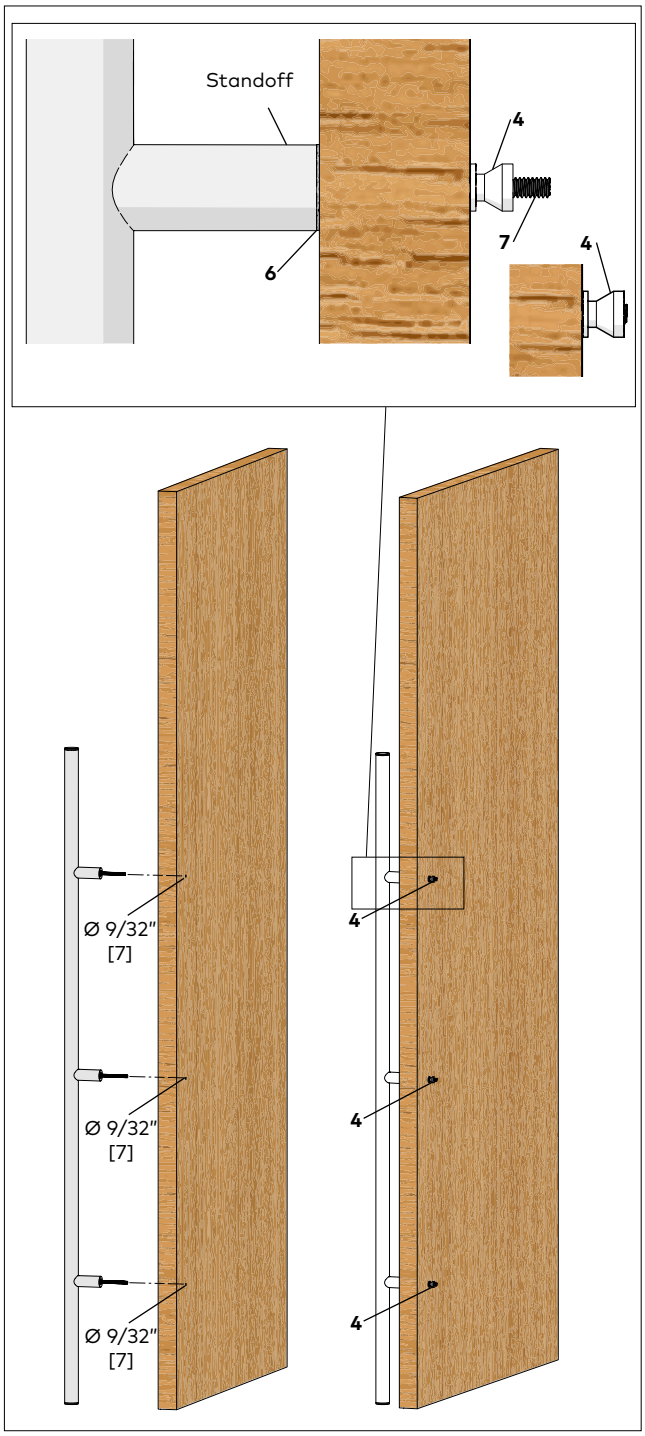
1. Thread the 3-1/4″ threaded rods into the threaded inserts (3) inside the standoffs. Tighten threaded rods against socket head cap screws (8).
2. No bushing (9) is required for wood doors.

11.3 Assemble external pull assembly to wood door

Table 11.3.1 External pull hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)

Fig. 11.3.1 External pull installation



CAUTION

Use caution when handling wood door.

11.3.1 Drill holes for external pull threaded rods in door.

1. Reference the architectural drawings to determine hole locations in the door.
2. Drill a 9/32″ [9] thru-hole for each threaded rod.

11.3.2 Place external pull assembly against wood door.

1. Align external pull standoffs with holes in wood door and insert threaded rods into holes in door.
2. Push external pull assembly toward wood door until standoff gaskets are flush with wood door surface.

11.3.3 Install threaded anchors on threaded rods.

1. Install threaded anchor (4) onto each threaded rod. Tighten each threaded anchor (4) against the wood door.

11.3.4 Trim threaded rods.

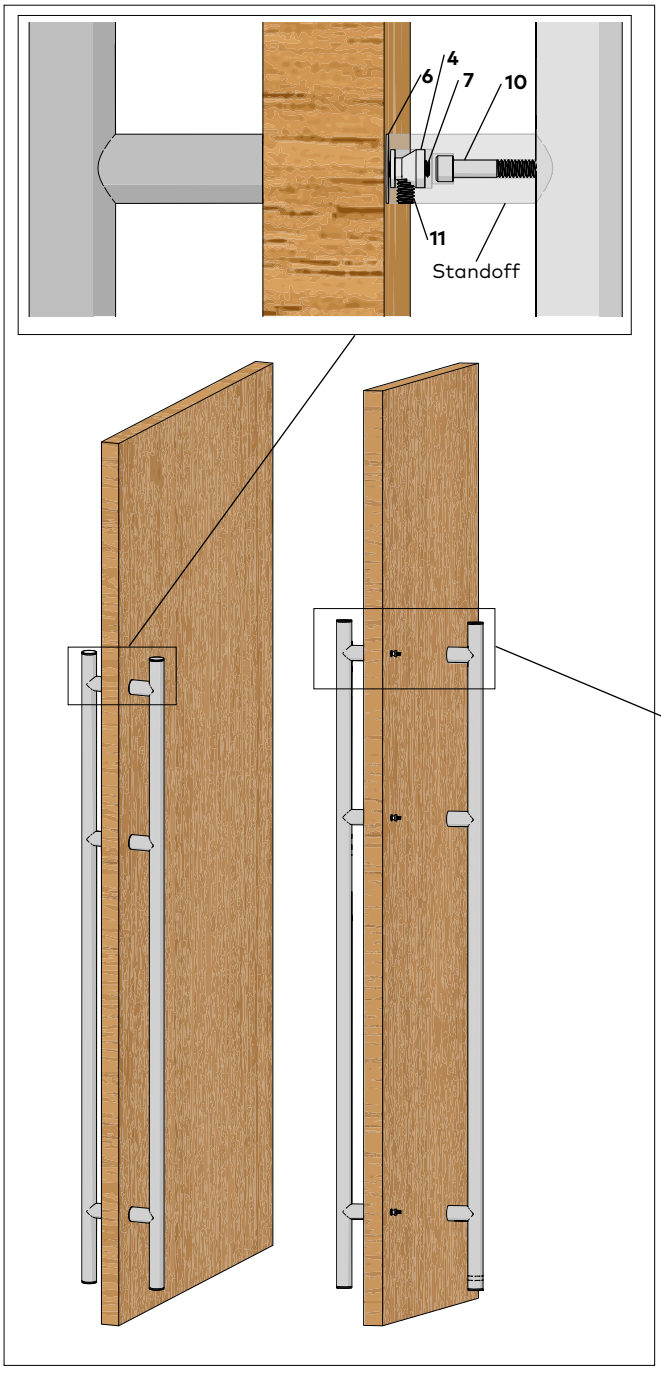
1. Trim excess length of threaded rods (7) to be flush with the threaded anchors (4).

11.4 Assemble internal pull assembly to wood door

Table 11.4.1 Pull handle hardware

4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1″ OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4″ (for wood door)
10	1/4-20 x 1-5/8″ socket head cap screw (Factory installed)
11	1/4-20 x 3/8″ set screw, cone point, interior pull (Factory installed)

Fig. 11.4.1 Internal pull installation



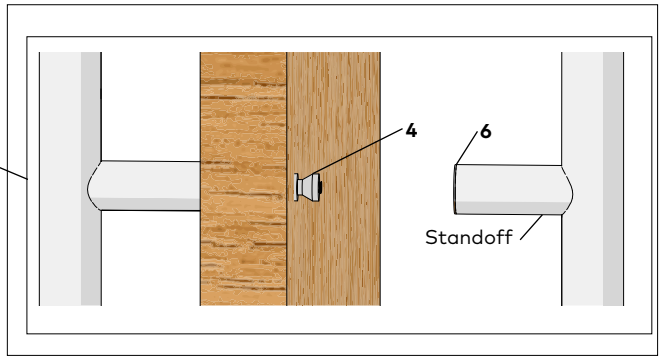
CAUTION

Use caution when handling wood door.

11.4.1 Install internal pull handle.

1. Ensure standoff set screws (11) are loosened or removed prior to internal pull installation.
2. Align internal pull handle standoffs with threaded anchors (4).
3. Slide pull handle standoffs onto threaded anchors until standoffs are flush with wood door surface.
4. Using a 1/8″ hex key, tighten set screws (11) against threaded anchors (4).

Fig. 11.4.2 Internal pull installation detail



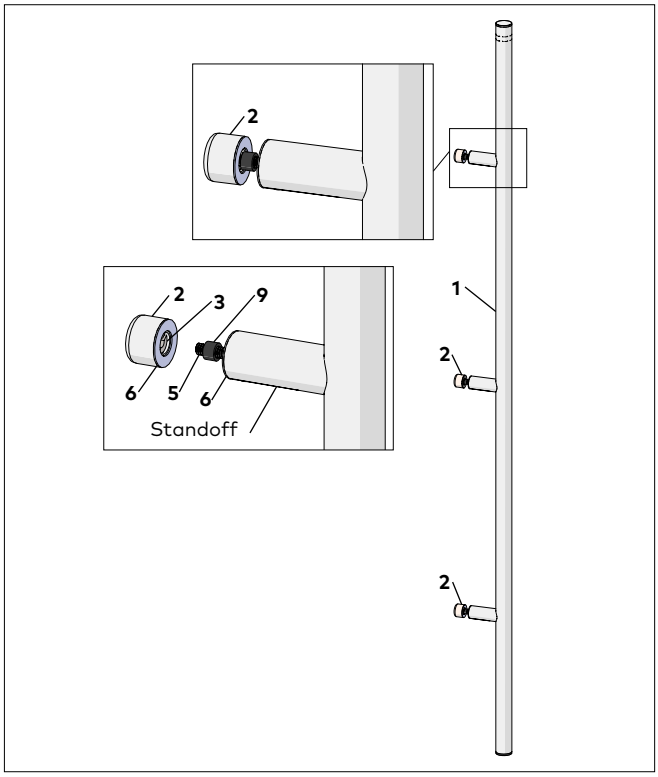
12 Installation Instructions Wood Door – TG 9387 single-sided non-locking pull

12.1 Disassemble pull

Table 12.1.1 Single ladder pull hardware-wood door

	Description	12"	18"	24"	36"	42"	48"	60"	72"
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Rose, TG138 -1" OD	979-104							
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP	979-010							
4	Anchor, threaded, M6-1.0 x 12.5 mm	979-028							
5	Rod, threaded M6-1.0 x1-3/4"	979-032							
6	Gasket, 1" OD Permanently attached to standoff and rose at factory.	979-107							
8	1/4-20 x 1-5/8" socket head cap screw	900-203							
9	Bushing, plastic, TG 138 5/8 - 3/4 GL	979-031							
11	1/4-20 x 3/8" set screw, cone point, interior pull	900-202							

Fig. 12.1.2 Single pull assembly - rose removal

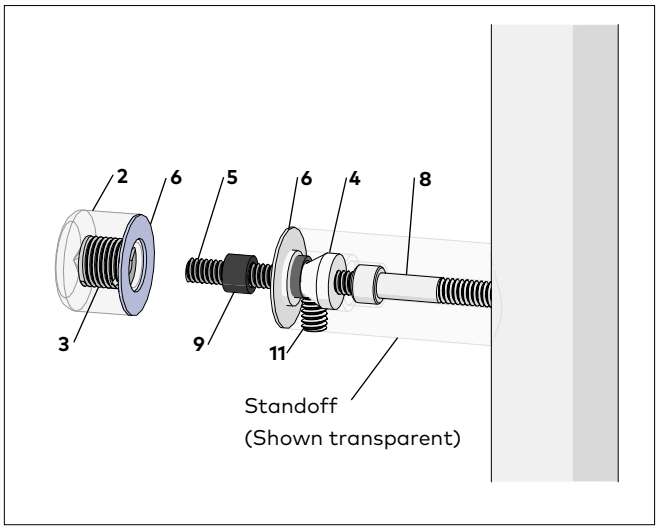


12.1.1 Remove rose assemblies from single pull handle.

1. Remove rose assemblies from single pull handle.

- Threaded insert (3) has Loctite® applied at factory. Insert is removed with rose.
- Gaskets (6) are secured to rose and to standoff at factory.

Fig. 12.1.2 Wood door single ladder pull hardware



12.2 Prepare pull assembly for wood door installation

Table 12.2.1 Pull handle hardware

	Description
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
5	Rod, threaded M6-1.0 x 1-3/4"
6	Gasket, 1" OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4" (for wood door)
8	1/4-20 x 1-5/8" socket head cap screw
9	Bushing, plastic, TG 138 5/8 - 3/4 GL
11	1/4-20 x 3/8" set screw, cone point, interior pull

Fig. 12.2.1 Threaded rods

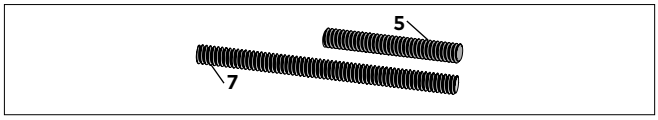


Fig. 12.2.2 Single pull standoff and hardware, 1-3/4 inch threaded rod

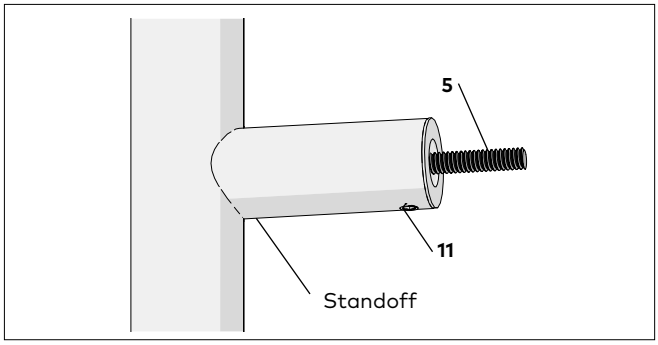
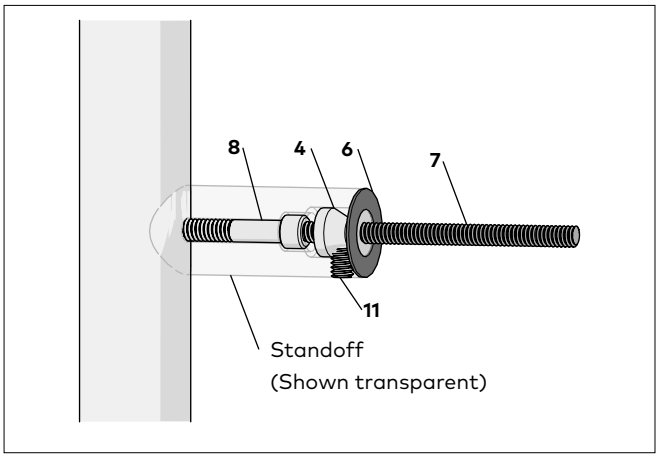


Fig. 12.2.3 Single pull standoff and hardware, 3-1/4" threaded rod for wood door



NOTICE

Threaded rods for wood door.
Ladder pulls are shipped from factory with 1-3/4" threaded rods.

3-1/4" threaded rods (item # 7) are required for wood doors. These rods will be in a hardware bag in the box.

NOTICE

Pull hardware (Fig. 6.2.2) is factory assembled to the external pull handle standoffs.

12.2.1 Remove 1-3/4" threaded rod, anchor and bushing from each standoff.

1. Using a 1/8" hex key, loosen setscrew (11) and remove 1-3/4" threaded rod (5) with anchor (4) and bushing (9) from standoff.
2. Remove 1-3/4" threaded rod (5) from anchor (4).

12.2.2 Install 3-1/4" threaded rod and anchor.
Thread the 3-1/4" threaded rod into the anchor (4) and move the assembly inside the standoff as shown in Fig. 12.2.3.

- Threaded rod must be against socket head cap screw (8) and anchor (4) positioned to be flush with end of standoff.

3. Using a 1/8" hex key, tighten each set screw (11) against its threaded anchor (4).
4. Bushing (9) is not required for wood doors.

12.3 Assemble pull assembly to wood door

Table 12.3.1 Pull handle hardware

1	TG 9387 GL pull handle, internal
2	Rose, TG 9387, 1" OD
3	Threaded Insert, 1/2-20 UNF, M6 x 1.0 NLLP
4	Anchor, threaded, M6-1.0 x 12.5 mm
6	Gasket, 1" OD Permanently affixed to standoff at factory
7	Rod, threaded M6-1.0 x 3-1/4" (for wood door)
8	1/4-20 x 1-5/8" socket head cap screw
11	1/4-20 x 3/8" set screw, cone point (Factory installed)

Fig. 12.3.1 Threaded rod trim length

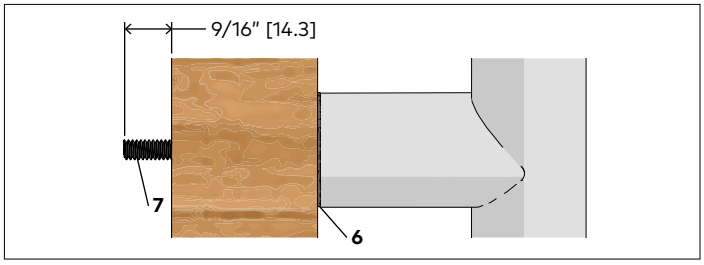
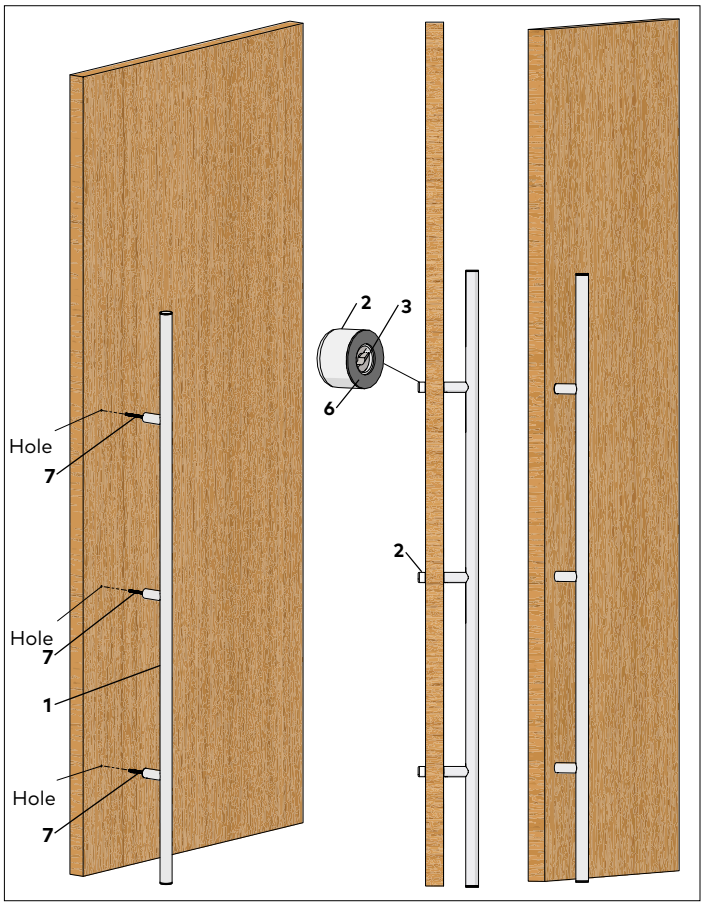


Fig. 12.3.2 Internal pull installed against wood door



CAUTION

Use caution when handling wood door.

12.3.1 Drill holes for ladder pull threaded rods in door.

1. Reference the architectural drawings to determine hole locations in the door.
2. Drill a 9/32" [9] thru-hole for each threaded rod.

12.3.2 Place ladder pull assembly against wood door.

1. Align ladder pull standoffs with holes in wood door and insert threaded rods into holes in door.
2. Push internal pull assembly toward wood door until standoff gaskets are flush with wood door surface.

12.3.3 Trim threaded rods.

1. Trim threaded rods to a length of 9/16". This is necessary to ensure the rose assembly can pull and secure the ladder pull to the door.

12.3.4 Install rose assemblies onto threaded rods.

1. Thread each rose assembly onto its threaded rod and tighten.

13 Installation Instructions Wood Door – TG 9387 single-sided blind pull

13.1 Single pull assembly - wood door blind fasteners

Table 13.1.1 Single ladder pull hardware-wood door

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Gasket, 1″ OD Permanently attached to standoff and rose at factory.						979-107		
3	1/4-20 x 1-5/8″ socket head cap screw						900-203		
4	1/4-20 x 3/8″ set screw, cone point, interior pull						900-202		
12	Connector, TG 138 wood door						979-026		

Fig. 13.1.1 Wood door connector

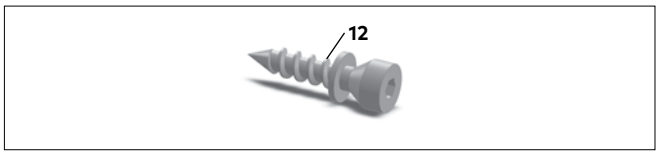
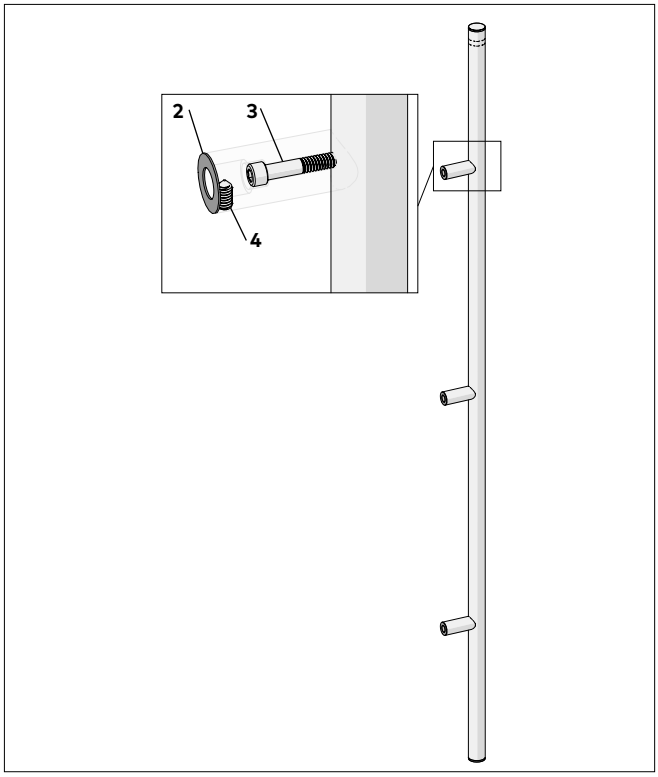


Fig. 13.1.2 Wood door single ladder pull hardware



13.2 Install wood door connectors

Table 13.2.1 Single ladder blind pull hardware-wood door

	Description	49-3/16"	60"	72"	84"
12	Connector, TG 138 wood door, #18 wood screw		979-026		

Fig. 13.2.1 Wood door connector

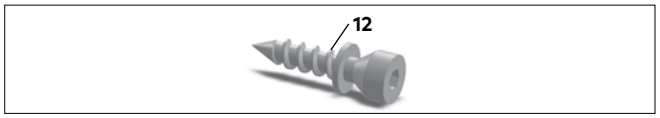
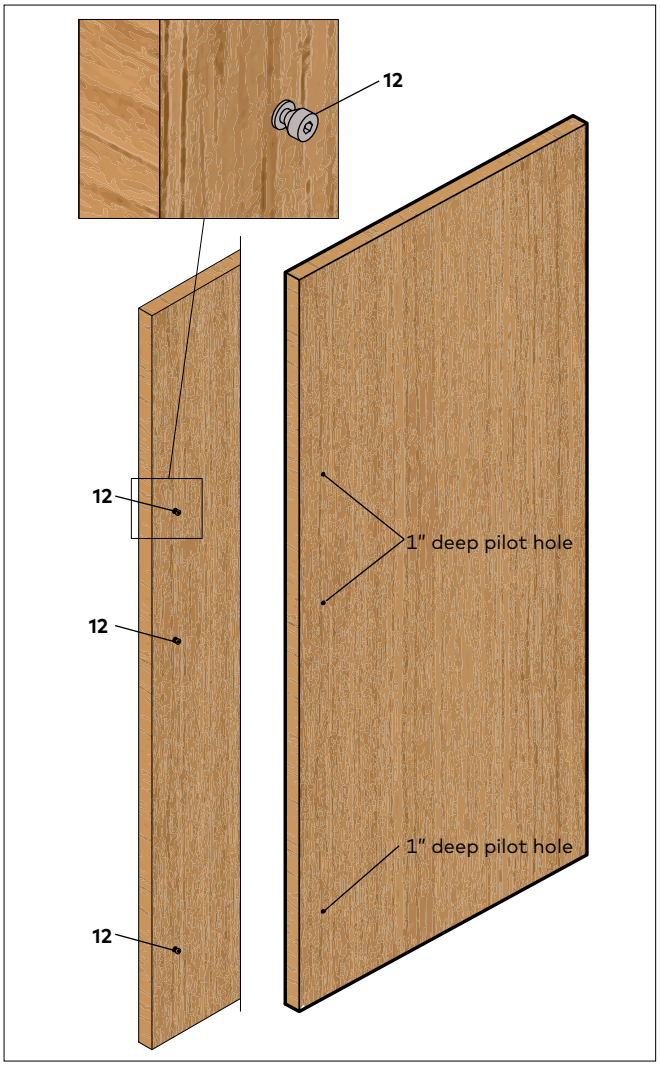


Fig. 13.2.2 Wood door connectors installed



CAUTION

Use caution when handling wood door.

13.2.1 Drill pilot holes in wood door for connectors (12).

1. Reference the architectural drawings to determine hole locations in the door.
2. Use applicable drill (Para. 1.2) to drill 1" deep pilot holes in wood door for connectors (12).

13.2.2 Thread connectors into wood door pilot holes.

1. Using a 3/16" T-handle hex key, screw each connector into its pilot hole until the wood door connector flange is tight against the door.

13.3 Install pull assembly onto wood door

Table 13.3.1 Single ladder blind pull hardware-wood door

	Description	12″	18″	24″	36″	42″	48″	60″	72″
1	TG 9387 B2B GL pull handle, internal	279-105	279-106	279-124	279-107	279-108	279-119	279-109	279-117
2	Gasket, 1″ OD Permanently attached to standoff and rose at factory.	979-107							
3	1/4-20 x 1-5/8″ socket head cap screw	900-203							
4	1/4-20 x 3/8″ set screw, cone point, interior pull	900-202							
12	Connector, TG 138 wood door	979-026							

Fig. 13.3.1 Wood door connector

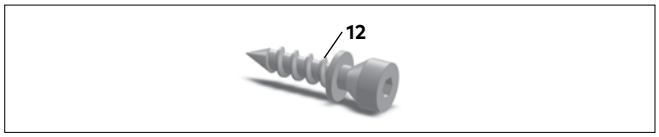
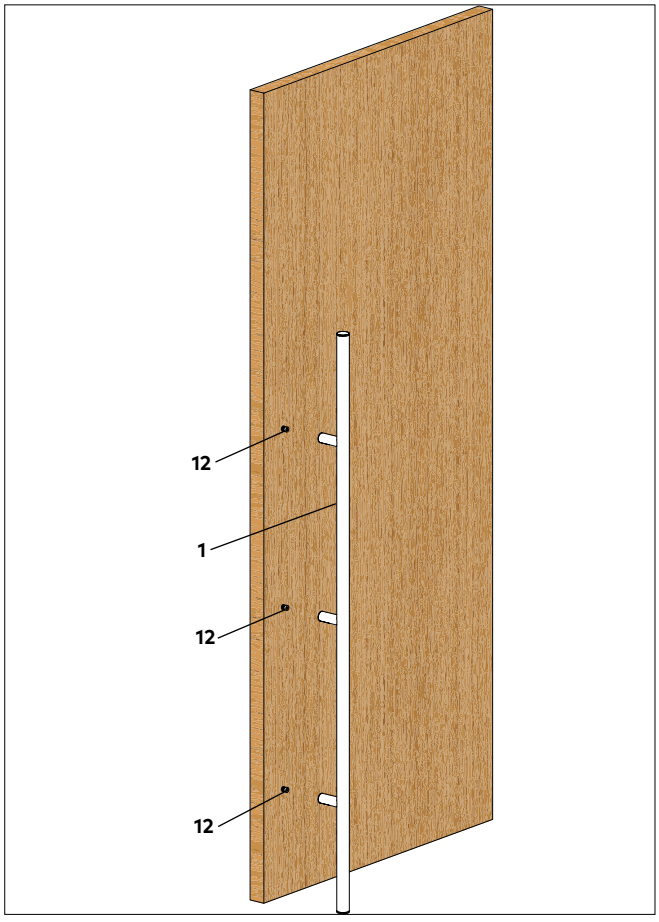


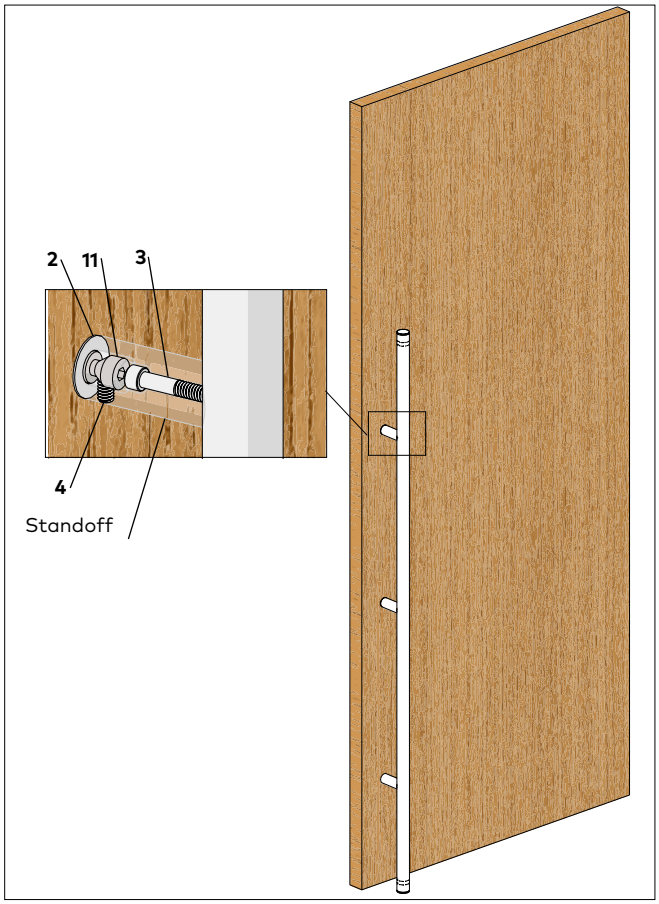
Fig. 13.3.2 Wood door connectors installed



13.3.1 Install pull assembly onto connectors.

1. Ensure standoff setscrews (4) are loosened.
2. Slide pull assembly standoffs onto threaded connectors (12) until standoff gaskets (2) are flush with wood door.
3. Using a 1/8″ hex key, tighten each standoff setscrew (4) against its wood door connector (12).

Fig. 13.3.3 Wood door pull assembly installed



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