INSTALLATION INSTRUCTIONS

WINDCODE® Supplemental Instructions

Things to Know Before You Begin

To obtain a drawing for your door, visit:

http://www.clopaydoor.com/residential/windcode-residential-information/wind-code-drawings

This is a supplement to the Residential Garage Door Instructions (Referred to as MANUAL). These supplemental instructions cover important information unique to WINDCODE doors. For all other information and safety warnings concerning your WINDCODE garage door, see the MANUAL. Read all of the information below before beginning installation.

WINDCODE door models have three different reinforcement configurations:

- Up to 9'0" wide
- 9'2" to 16'0" wide
- 16'2" to 18'0" wide

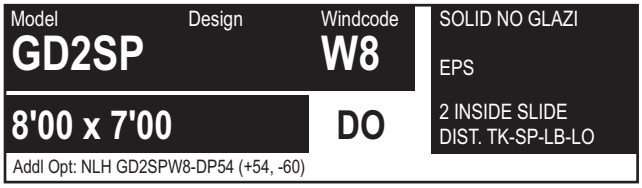
WINDCODE doors require additional struts and hinge attachments beyond what is required on standard doors. The installation and attachment of these struts and hinges are outlined in this manual. Specifically, these instructions cover the following:

1) Bottom Bracket Installation
2) End Hinge Installation
3) Top Bracket Installation
4) Strut/C-channel Installation
5) Roller and Push Nut Installation
6) Jamb Configuration
7) Track Configuration
8) Operator Reinforcement

WINDCODE garage doors not installed with the proper reinforcement (struts, hinges, jamb brackets, track, fasteners) will not perform as desired to meet building code requirements.

An electric or pneumatic impact gun is strongly recommended for installation of WINDCODE doors.

To determine what door you have, locate the identification sticker found on the end of the door package (See Fig. 1). This sticker will identify the door size, door model and WINDCODE category. **NOTE: It is the buyer's responsibility to purchase the garage door required to meet local building codes.**



IDENTIFICATION STICKER (Located on Package)
(Example: Model GD2SP WINDCODE Category W8:
8'0" Wide x 7'0" High;
Design Pressures +54. –60 P SF)

Fig. 1

Place the enclosed WINDCODE sticker on the inside bottom section of your door. This sticker may help eliminate questions during building inspection.

Reinforcement Attachment

Reinforcements are placed lengthwise across the door to add strength. Reinforcement configurations vary depending on WINDCODE category and door size. Refer to the WINDCODE drawing for your door for specific reinforcement configuration and detailed technical information. To obtain specifications and drawings, please visit http://www.clopaydoor.com/residential/windcode-residential-information/wind-code-drawings. Once you have opened the link, please refer to the drop-down boxes and follow these instructions:

- Select the door model.
- Select the WINDCODE rating.
- Select the door width.
- Click on the search button.

These drawings include specific strut configuration and detailed technical information for each door. After reviewing the strut configuration, you may begin installation.

FR Français

La version française de ce supplément peut être accédée en ligne à l'adresse suivante : http://www.clopaydoor.com/owners-manuals

ES Español

Se puede acceder a la versión en español del presente suplemento en la siguiente dirección: http://www.clopaydoor.com/owners-manuals

Bottom Bracket Installation

Doors with Single End Stiles:
Install single bottom brackets according to the procedure described in the MANUAL.

Doors with Double End Stiles:
Position the bottom bracket as shown in the MANUAL. Align the roller support bracket tube with the roller holes in the bottom bracket, so that the long stem roller can be inserted through the bottom bracket and roller support bracket. Attach with (2) 1/4" x 3/4" self-tapping screws. (Fig. 2)

NOTE: A second roller support bracket can be used as a shim to allow the long stem roller free movement.

Bottom Section U-Bar/T-Strut Installation
Position the bottom bracket as shown in MANUAL. Position the U-bar/T-strut on the bottom section according to the WINDCODE® drawing for your specific door. If the holes in the U-bar/T-strut do not already align, drill one 5/32" hole at the top and one 5/32" hole at the bottom of the U-bar/T-strut at all stile locations. If an electric impact gun is used, no holes need to be drilled beforehand. Attach U-bar/T-strut to door section with a 1/4" x 3/4" self-tapping screw at each drilled hole. (Figs. 3 & 4)

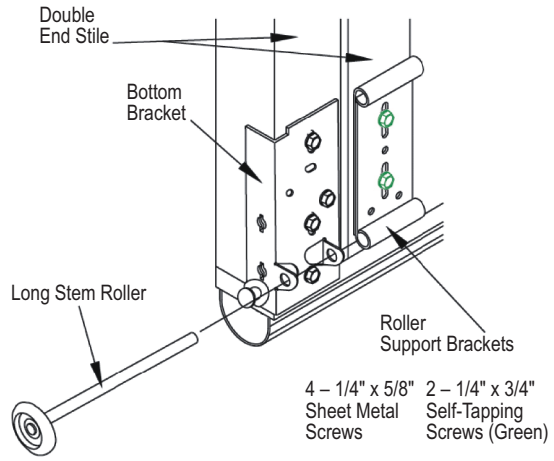


Fig. 2 Double End Stile Bottom Bracket Installation

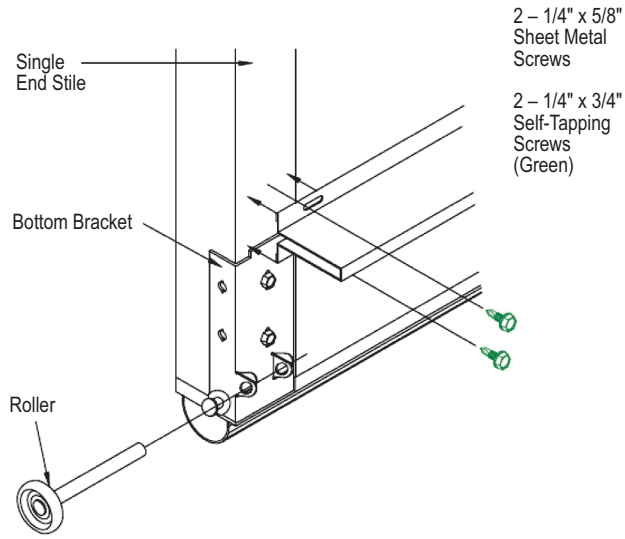


Fig. 3 Bottom Section U-Bar Installation

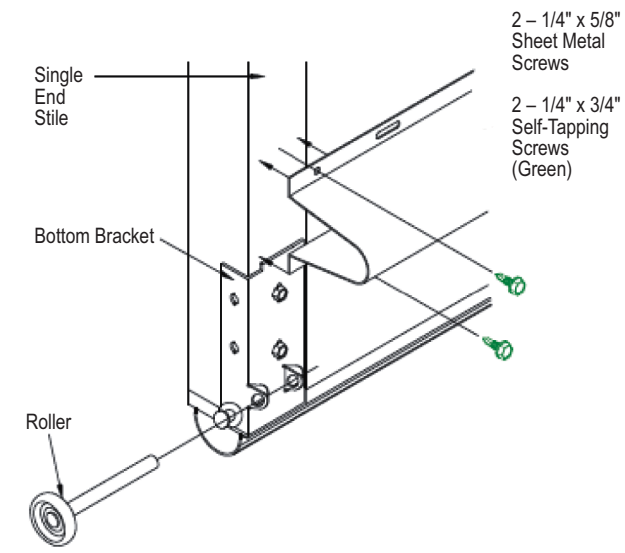


Fig. 4 Bottom Section T-Strut Installation

End Hinge Installation

Doors with Single End Stiles:
14 gauge hinges are used at all end stile locations (for more detail see MANUAL). Insert the (4) sheet metal screws as indicated in the MANUAL. Insert the (4) 1/4" x 3/4" self-tapping screws per hinge as shown. You may have to pilot drill 5/32" holes before installing self-tapping screws. (Fig. 5)

Doors with Double End Stiles:
Place two end hinges on the double end stile as shown. Attach each end hinge to end stile by inserting (4) #14 x 5/8" sheet metal screws through the prepunched holes in the end stile. Insert (2) 1/4" x 3/4" self-tapping screws per hinge as shown. (You may have to pilot drill 5/32" holes before installing self-tapping screws.) (Fig. 6)

Intermediate Section U-Bar/T-Strut Installation

Position the U-bar/T-strut on the section according to the WINDCODE® drawing for your specific door. If the holes in the U-bar/T-strut do not already align, drill a 5/32" hole at the top and a 5/32" hole at the bottom of the U-bar/T-strut at all stile locations. Attach the strut to the door section with 1/4" x 3/4" self-tapping screws through the drilled holes. Note that the U-bar overlaps the hinge leafs. (Figs. 7 & 8)

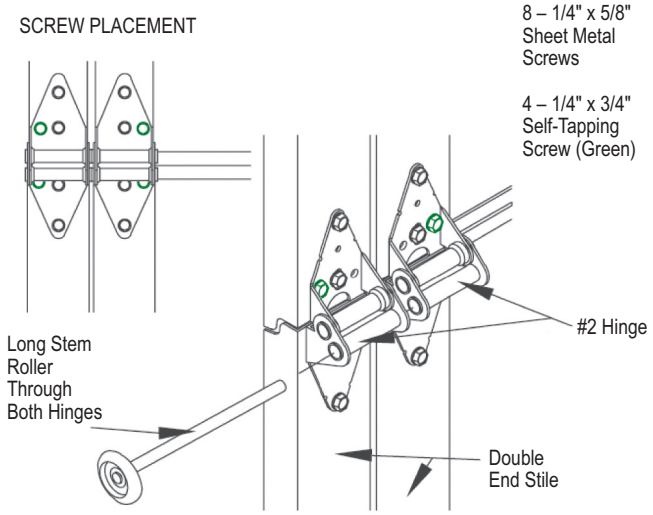


Fig. 6 Double End Stile Hinge Installation

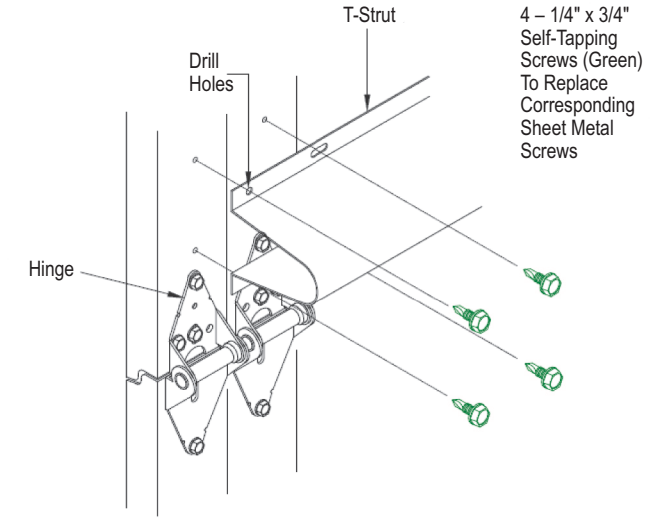


Fig. 7 Intermediate Section T-Strut Installation (Double End Hinges Shown)

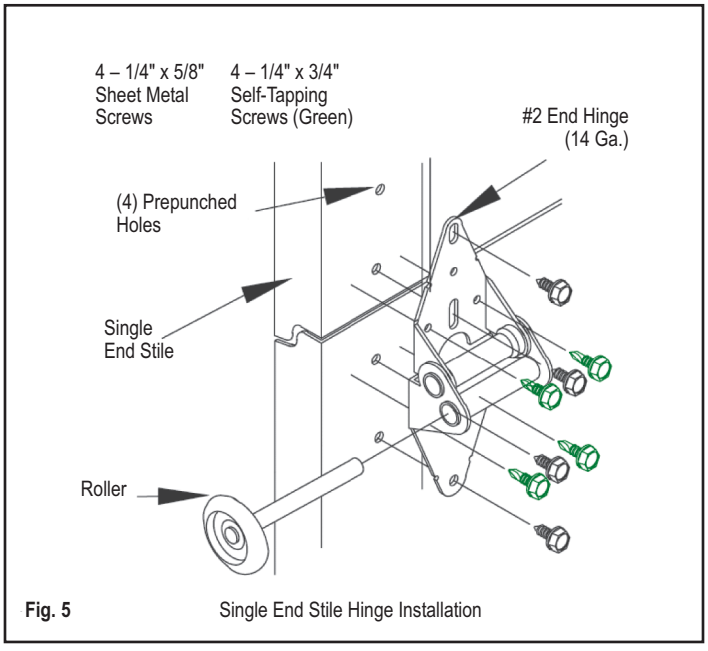


Fig. 5 Single End Stile Hinge Installation

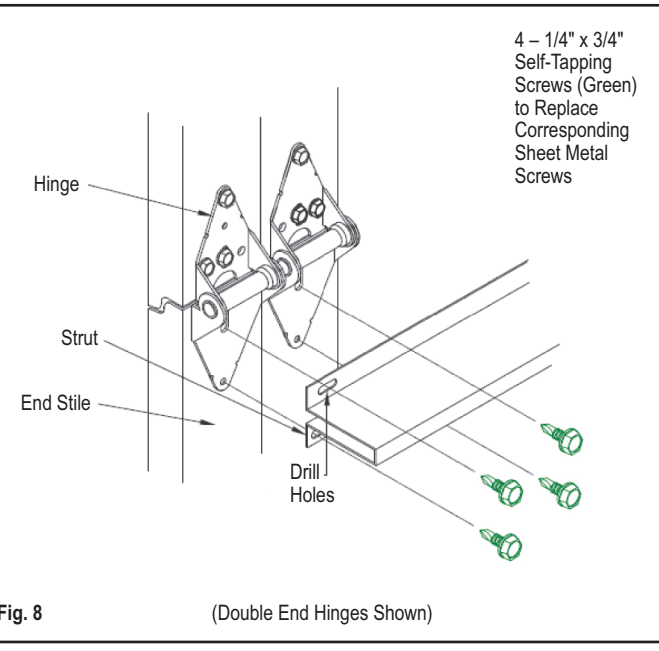


Fig. 8 (Double End Hinges Shown)

Top Bracket Installation

Doors with Single End Stiles:
In most instances, WINDCODE® doors use a heavier gauge top bracket. Due to this, the holes in the bracket will not line up with the holes in the stiles. Install the top of the top brackets approximately 4-1/4" below the top of the section (So that the bracket does not obstruct the strut installation) with (4) 1/4" x 3/4" self-tapping screws. Once installed, the slide adjustments must be aligned so that the roller lines up with the track so the door will close flush to the door jamb. (Fig. 9)

Doors with Double End Stiles:
If your door has double end hinges, then install two top brackets instead of one. Double top brackets are installed side-by-side. Each top bracket is installed exactly like a single top bracket. Once installed, the slide adjustments must be aligned so that the long stem roller can be inserted through both slide adjustments. (Fig. 9)

Top Section U-Bar/T-Strut Installation

Depending on the strutting configuration of your WINDCODE door, a U-bar/T-strut may be required on the top section (see WINDCODE drawing for your door). To attach a U-bar/T-strut at the top of the top section it must be placed above the top roller bracket. If the holes in the U-bar/T-strut do not already line up, drill one 5/32" hole at the top and one 5/32" hole at the bottom of the U-bar/T-strut at all hinge locations. If an electric impact gun is used, no holes need to be drilled beforehand. Attach U-bar/T-strut to door section with 1/4" x 3/4" self-tapping screws at each drilled hole. (Figs. 10 & 11)

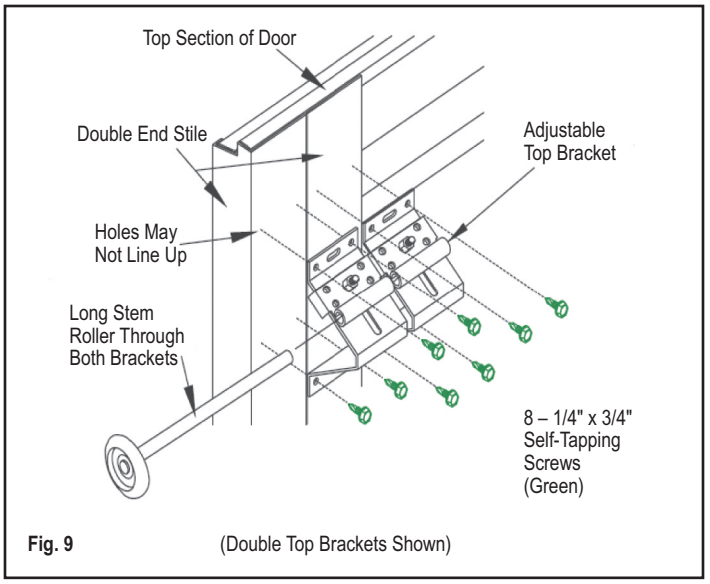


Fig. 9 (Double Top Brackets Shown)

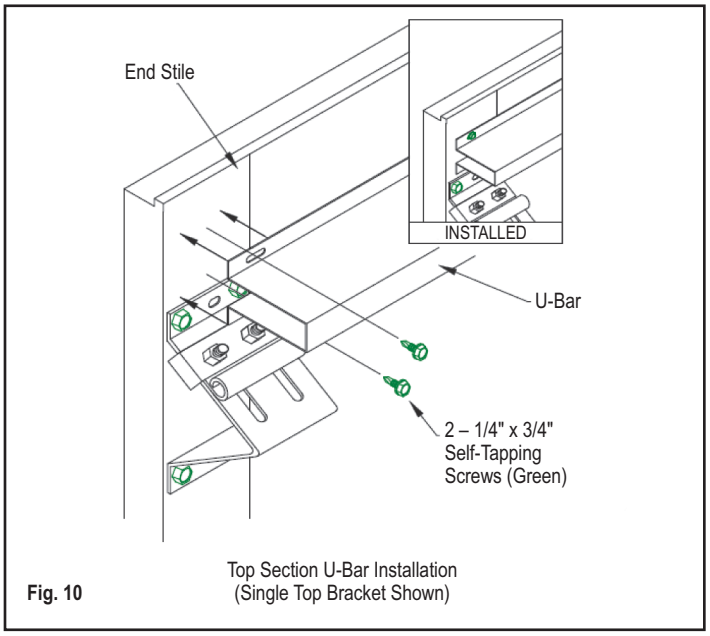


Fig. 10 Top Section U-Bar Installation (Single Top Bracket Shown)

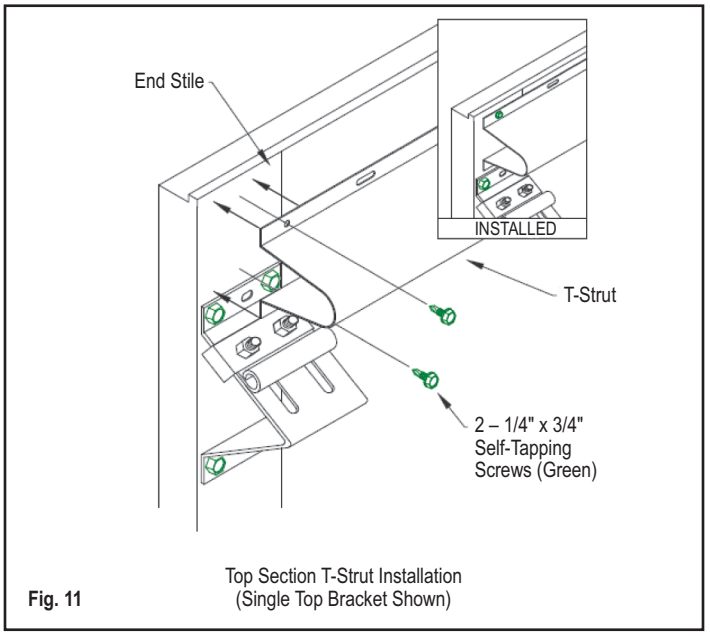


Fig. 11 Top Section T-Strut Installation (Single Top Bracket Shown)

Roller and Push Nut Installation

Rollers with push nuts may be necessary on WINDCODE® doors (Fig. 12). Check the WINDCODE drawing to determine if push nuts are required.

Pushnuts should be attached after the rollers are in place and the track has been installed. To install, force the push nut onto the stem of the roller and slide it up until it is within 1/8" to 1/4" of the end hinge, top bracket, and bottom bracket. You may find it useful to use a 9/16" wrench and a hammer to force the push nuts along the roller stem.

C-channel Installation

Depending on the configuration of your WINDCODE door, C-channel reinforcement may be required (see the WINDCODE drawing for your specific door). Position the C-channel on the door and attach to the door section with (1) 1/4" x 3/4" self-tapping screw through the drilled holes at each stile location. Then attach one C-channel strap at each center hinge and end hinge location. C-channel straps are attached to the C-channel with (1) 1/4" x 3/4" self-tapping screw, and attached to the door with (2) 1/4" x 3/4" self-tapping screws. (Figs. 13 & 14)

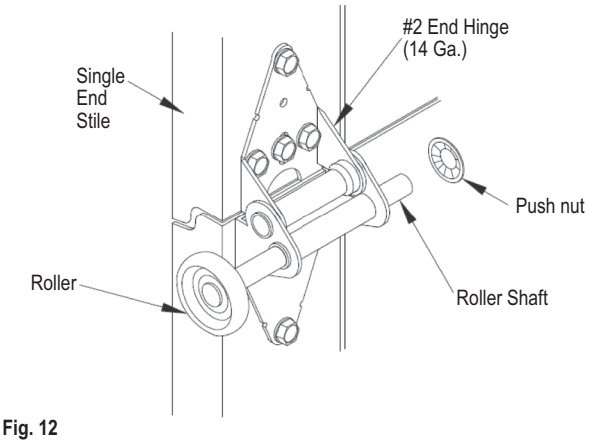


Fig. 12

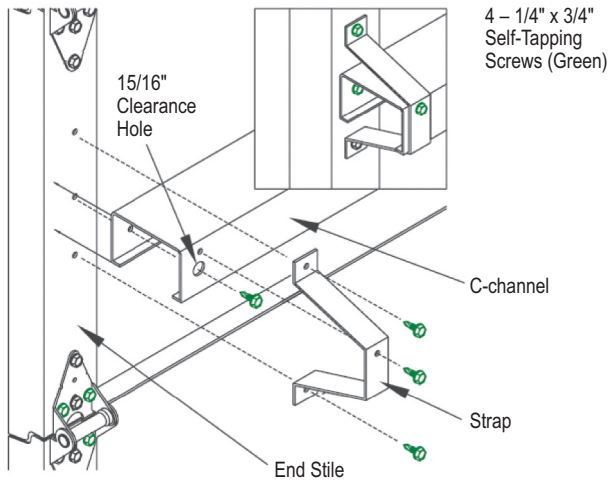


Fig. 13 Single End Stile C-channel Installation

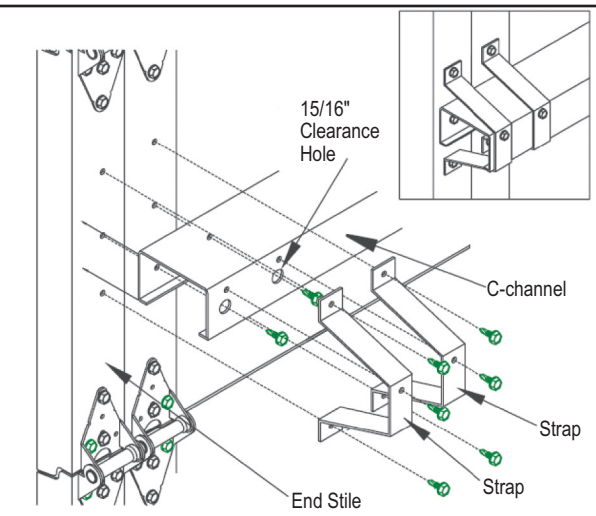


Fig. 14 Double End Stile C-channel Installation

Jamb Configuration

⚠IMPORTANT

The design of the supporting structural elements (i.e., door jamb) shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the technical drawing for the specific model. It is also important that the vertical 2 x 6 wood jambs are attached to the supporting structure in a method that is sufficient to transfer the loads exerted by the wind pressures. Suggested vertical jamb attachment methods are included in the WINDCODE® drawing.

Track Configuration

Track bracket placement is configured differently according to height. Refer to the WINDCODE drawing for your specific door to determine the required bracket placement. Typically, WINDCODE doors require more track brackets than non-WINDCODE doors. However, each track bracket is attached to the track and jamb using the same fasteners and method of attachment as shown in the MANUAL.

If the track is to be mounted with continuous angle and track clips instead of track brackets, be sure the track is well secured to the track clips. The bolts through the slots in the track clips may be loosened to adjust the track if necessary. It is important that a fastener be placed in each mounting hole present in the angle. If mounting to concrete or steel jambs, the installer is responsible for supplying the appropriate fasteners. 3/8" x 4" long sleeve anchors should be used for concrete, and 1/4" x 3/4" self-tapping screws should be used when mounting to steel.

Operator Reinforcement

Refer to the MANUAL for installation instructions. If the Clopay WINDCODE door requires a strut across the top section, this takes the place of any horizontal angle iron required by the MANUAL. The vertical angle as shown in the MANUAL is still required on WINDCODE doors.

Operator Reinforcement with C-channel:
See Fig. 15 illustrating vertical angle attachment if your door requires C-channel reinforcement on the top section.

Operator Reinforcement with T-Strut:
An automatic opener requires top section reinforcement, even with a T-strut across the top of the door. Opener reinforcement can be achieved with either (a) punched angle iron (2" x 2" angle iron preferred), or (b) with a WINDCODE opener reinforcement bracket.

Figure 16 shows the reinforcement with punched angle iron. The opener arm is attached to the punched angle iron with a 3/8" x 1-1/2" hex bolt and two 3/8" nuts back-tightened. See page 18 of the MANUAL for opener arm attachment.

Figure 17 shows the installation with a WINDCODE opener reinforcement bracket. This opener bracket comes with its own clevis and cotter pin to attach the opener arm.

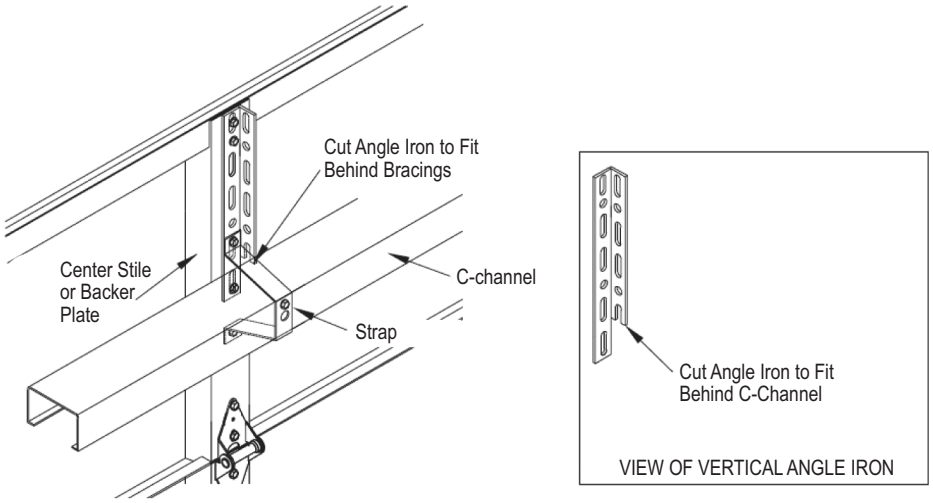


Fig. 15 Operator Reinforcement with C-channel

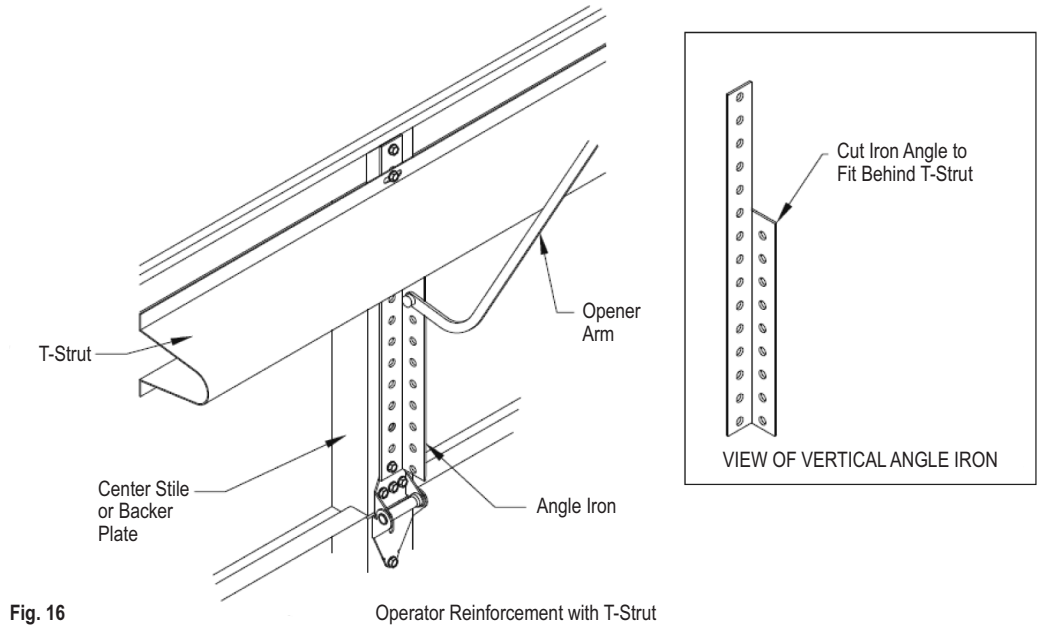


Fig. 16 Operator Reinforcement with T-Strut

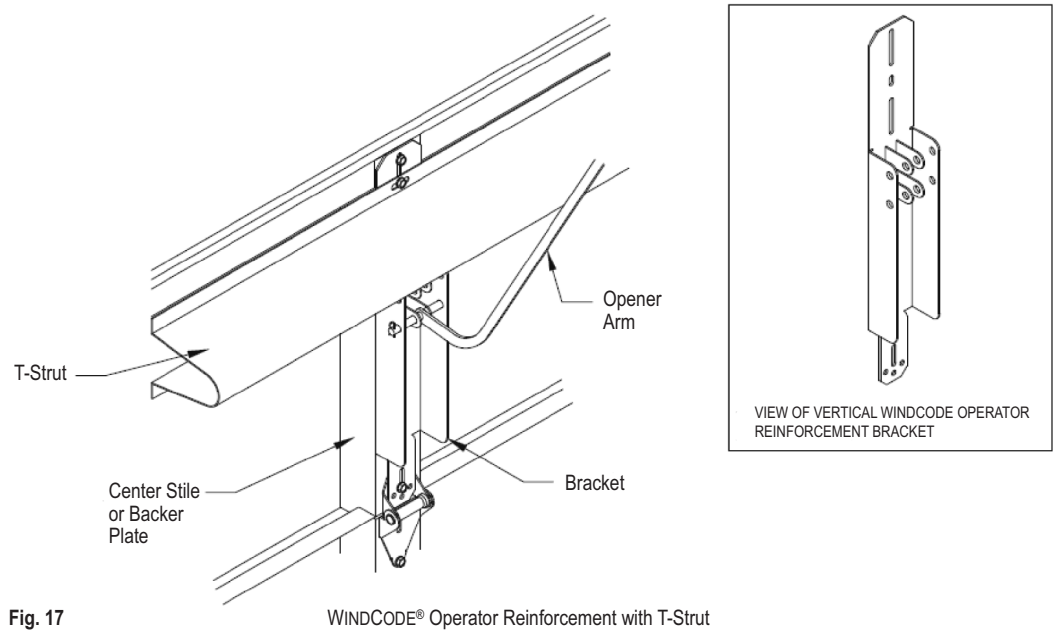


Fig. 17 WINDCODE® Operator Reinforcement with T-Strut

Cleaning and Care Instructions for Impact Windows

Impact windows are designed to resist large flying debris in the event of a hurricane, and must be cleaned to the instructions on this page. Failure to follow these instructions may ruin the look of the impact windows and/or lessen their ability to survive a hurricane. The clear visible area of the impact window is made from polycarbonate.

Cleaning Instructions:
Wash using a mild soap or detergent (see list of approved cleaning products below) and lukewarm water, using a clean sponge or a soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots. Do not scrub or use brushes on this product.

The following cleaning agents have been found compatible with polycarbonate:
- Joy[1]
- Top Job[1]
- Palmolive Liquid[2]

[1] Registered Trademarks of Procter & Gamble
[2] Registered Trademark of Colgate Palmolive

Minimizing Hairline Scratches:
Scratches and minor abrasions can be minimized by using a mild automobile polish. It is recommended that a small area be tested with the product selected following the manufacturer's recommended instructions prior to use on a complete window. Listed below are three products that are marketed to polish and fill scratches:
- Johnson Paste Wax
- Novus Plastic Polish #1 & #2
  (Novus, Inc., Minneapolis, MN)
- Mirror Glaze Plastic Polish (M.G. M10)
  (Mirror Bright Polish Co., Pasadena, CA)

Graffiti and Paint Removal:
The following products can be used for removing graffiti or paint from the polycarbonate panel:
- Butyl Cellosolve [1]
- Masking tape, adhesive tape or lint removal tools work well for lifting off old weathered paints

[1] Registered Trademark of Union Carbide Corporation

Important Cleaning "DON'TS":
- DO NOT use abrasive or highly alkaline cleaners.
- Never scrape polycarbonate with squeegees, razor blades or other sharp instruments.
- Benzene, gasoline acetone or carbon tetrachloride should never be used.
- DO NOT clean polycarbonate in hot sun or at elevated temperatures.