DE Frame with C Series Sidelight
Installation Steps

TOOLS REQUIRED

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape measure</td>
<td>For measuring the rough opening dimensions.</td>
</tr>
<tr>
<td>Screw gun with clutch adjusted</td>
<td>Assisted in rotating screws for installation.</td>
</tr>
<tr>
<td>#2 Phillips tip</td>
<td>For adjusting the frame and using oval slots.</td>
</tr>
<tr>
<td>3' Magnetic level</td>
<td>Leveling tool for aligning the frame.</td>
</tr>
<tr>
<td>#3 Phillips tip</td>
<td>For adjusting the frame and using oval slots.</td>
</tr>
<tr>
<td>Pry Bar</td>
<td>Pry Bar used to remove any protruding parts from the sides of the frame.</td>
</tr>
<tr>
<td>Powder Actuated Fastener Gun</td>
<td>For anchoring the floor channel to concrete on full height sidelight.</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>For adjusting screws.</td>
</tr>
<tr>
<td>Wood Dowel</td>
<td>Same diameter as door undercut dimension.</td>
</tr>
</tbody>
</table>

INSTALLATION GUIDELINES

1. Remove foam backing from strike cutout and hinge back-plates prior to placing jambs on the wall.
2. The frame should always rest on the finished floor. If the floor is not finished, shim the bottom of the jamb to compensate for flooring material.
3. The casing can be damaged if struck directly in the center. Apply pressure to the outer edges of the casing when installing.
4. Frames used for exterior exposures must be installed in areas with an overhang or in an opening properly flashed to direct moisture to the outside of the frame.
5. For best results, install the door, frame and hardware as a complete unit.

ROUGH OPENING DIMENSIONS

Verify the rough opening. Measure the wall thickness at the top, middle, and bottom on both sides. The jamb depth must be within 1/8” (plus or minus) of the wall width.

The \( W \) (ROUGH OPENING WIDTH): must be total of nominal door widths plus the width(s) of sidelight glass area + 2” for each mullion + 2 1/2” for clearance.

The \( HD \) (ROUGH OPENING HEIGHT): must be the net door area height + 3/4” for adjustment.

The \( HG \) (ROUGH OPENING HEIGHT): For partial height sidelight, the rough opening height, \( (HG) \) equals the glass area + 1 1/4”

\[ W = \text{total of nominal door widths} + \text{width(s) of sidelight glass area} + 2” \]
\[ \text{for each mullion} + 2 1/2” \]
\[ HD = \text{net door area height} + 3/4” \]
\[ \text{for adjustment.} \]
\[ HG = \text{equals the glass area} + 1 1/4” \]
PARTS LAYOUT
Position parts in relationship to each other to confirm that all parts are correct and conform to the shop drawing.

NOTE: Sidelight Mullion uses a DE Hinge Jamb and a C Sidelight Mullion Insert
3 VERIFY HARDWARE REQUIREMENTS
Check the hardware schedule to confirm that hardware reinforcements are in place for surface mounted hardware and preparations are correct for mortised hardware. Verify wiring location and frame access if using electronic hardware components.

4 INSTALL THE FLOOR CHANNEL
(Used only with full height sidelight)
Locate the sidelight area by snapping a chalk line along the opening between the studs on each side of the wall. If soft (carpet) flooring is in place, remove the soft material so floor channel is installed on a solid surface. Locate the floor channel area by measuring from the sidelight area stud a distance equal to the sidelight area plus 2". Use appropriate fasteners to attach the channel to the floor tight to the sidelight stud and between the chalk lines. Securely anchor the end supporting the mullion by using additional fasteners. Other fasteners should be at 12" intervals on both sides of the floor channel.
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5 DETERMINE THE “HIGH” SIDE OF THE OPENING

Since few floors are perfectly level, the high side (starting point) for the installation must be determined. Use a 6’ level placed on the floor to determine which side of the opening is highest. The complete frame must be installed using this point as the “low” point for the jambs. If the bubble points toward the sidelight area, the hinge jamb must be raised so the bottom matches the bottom of the sidelight area. To determine the jamb location, mark the wall with the level on the floor. Raise the level to the “level” location and mark the wall again. The difference between these two marks is the amount the jamb must be raised. If the bubble points to the partial height sidelight side of the opening, there is no need to raise the hinge jamb and installation can proceed with the hinge jamb resting on the finished floor.

6 SIDELIGHT SILL(S) AND SIDELIGHT UPRIGHTS

Place the sidelight sill(s) over the wall and/or floor channel with the “ears” over the wall on the sidelight end. Place the sidelight upright(s) on the wall and interlock with the alignment tab on the sill(s).
HORIZONTAL MULLIONS (If Used)
If using horizontal mullions, they must be installed in the sidelight area before the sidelight jamb is anchored. Install mullion brackets on the sidelight jamb in hinge mullion. Place the sidelight upright into position tight against the rough opening to allow enough clearance for the mullion to be installed. Attach the mullion to the sidelight upright.

Header and Jamb – Interlock
Place a piece of masking tape vertically at the top of the opening at the center. Measure the center of the rough opening and mark the masking tape. Make a mark on the header at the center. Sleeve header over the wall with the mark on the wall lined up with the mark on the header. Support the header with one of the hinge mullions inserting the tabs on the mullion into the slots in the header. Insert the tabs on the second hinge mullion into the header slots. Move both mullions into position interlocked with the sidelight sill. If wiring access is required, make sure wires are pulled through jambs or can be easily accessed once the jambs are in position.
LEVEL HEADER AND ANCHOR
Level the header using the magnetic level and fasten both ends of the header on both sides of the opening. Remove the tape with the center mark now that the header has been properly centered in the opening.

HANG THE DOOR
Hang the door on the “high” side hinge mullion using the wood dowel with the door open at 90° to support the door. Attach the hinges to the door using the proper fasteners. For commercial weight hinges, use a #3 phillips screwdriver tip. Place a wood dowel of diameter equal to the door undercut at a position 90° from the wall and approximately one half the door width. Rest the door on the dowel and move it into position to attach the top hinge to the frame. Remove the dowel from under the door and secure the remaining hinges using machine screws.
HINGE JAMB – HIGH SIDE, PLUMB AND ALIGN
Move the jamb at the bottom using a pry bar on the jamb to position the door. The top gap between the door and header should be even across the top. When the jamb is in position, place a fastener at the bottom of the jamb into the wall or floor channel.
12. **HINGE JAMB - LOW SIDE, PLUMB AND ALIGN**

Move the jamb at the bottom using a pry bar on the jamb to position the door. The top gap between the door and header should be even across the top. When the jamb is in position, place a fastener at the bottom of the jamb into the wall or floor channel.

- **Equal Gap along header**
- **View: opposite side of Frame**
- **Hinge jamb, low side**
- **Finish floor**

Move bottom of jamb using a pry bar to position the door.

Place a fastener at the bottom of the jamb into the wall or floor channel.
13 SLEEVE THE SIDELIGHT HEADER(s)
Sleeve the sidelight header(s) over the wall and place in position with the alignment tab interlocked with the sidelight uprights.

14 SIDELIGHT HEADER(s)
With the sidelight header interlocked with the sidelight upright and move the opposite end of the header into position tight to the end of the DE header making sure the top of the casing clips on the sidelight header line up with the casing clips on the DE header. Place a fastener in the header in one of the holes closest to the hinge mullion. Level the sidelight header with the DE header and place a fastener at the sidelight end of the sidelight header. Install the opposite sidelight header (if used) in the same manner making sure the top of the casing clips line up on all three header sections.
14 SECURE THE SIDELIGHT UPRIGHT THEN SECURE THE SIDELIGHT SILL
Raise the sidelight upright tight to the sidelight header and fasten at the top. Raise the sidelight sill into position tight to the mullion insert and sidelight upright to establish even sidelight width. Fasten the bottom of the sidelight upright. Raise the sidelight sill tight to the sidelight upright and apply a fastener. Raise the opposite end of the sill (toward the mullion) and fasten to the wall or floor channel. Apply fasteners to the sidelight upright and sidelight sill at each casing clip.

15 SECURE THE OPPOSITE SIDE OF THE FRAME
Check for proper door operation and adjust if necessary. Fasten the opposite side of the frame with a drywall screw at each casing clip.
APPLY CASINGS

Beginning with the header casing, hook the casing over the top of each clip. Center the casing between the outer jambs and snap on to one clip in the center of the opening. Insert upright casing using Miter guard corner or appropriate corner aligner to connect the upright casing with the header casing. Position casings so miters are tight and snap the casing over the clips at each top corner. Roll header casing onto each clip and snap in place.

Beginning at the top, secure the jamb casings into position by hooking the outside (toward the wall) of the casing over the clip and snapping onto the inside. Apply the strike mullion casing making sure the longer casing leg rests on the insert side of the mullion. Apply the sidelight sill casing using the appropriate corner aligner. When using TA-8 casing, the ends of mullion cut casing are coped and must be installed in a specific order.

Once the casing has been installed on the perimeter of the sidelight, install mullion casings (if used) on mullions in the sidelight area. Install all vertical casings first, then install horizontal casings. All mullion casings must be installed with the longer leg of the casing resting on the insert section of the mullion. Apply casings to the opposite side of the frame using the same procedure.

TA-8 Casing is mitered at both ends, and rolled onto each casing clip and snapped into place.
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1. **Casing Order**
   1. Header
   2. Sidelight Upright(s) or hinge jamb
   3. Sidelight Jamb
   4. Hinge Mullion - no strike on DE frame
   5. Sidelight Sill(s)
   6. Vertical mullions within sidelight area
   7. Horizontal mullions within sidelight area

2. **OPPOSITE SIDE CASING**
   Apply casing to the opposite side of the frame using the same procedure.

TA-6 MiterGard corner connector comes installed in upright TA-8 casing

1) Casing is coped
2) Which fits snug to rounded edge of TA-8 Casing
INSTALL BALANCE OF HARDWARE
Install the balance of the hardware on the door and frame to complete the opening.