Design1 Sidelight Installation Instructions

General Installation Guidelines

FRAME MUST BE INSTALLED PLUMB, LEVEL AND SQUARE

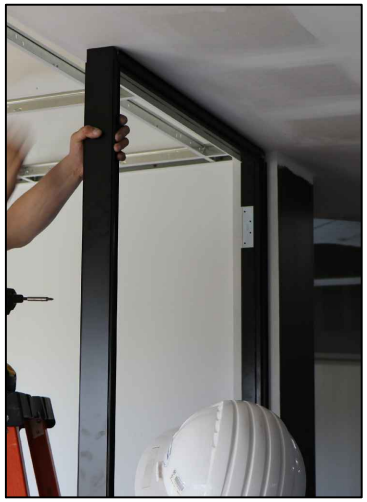
A

B

C

D

E



1. Check finished opening width and height dimensions. Measure and cut hinge side flat insert (DES002) to overall finished opening height. Apply flat insert to the wall on the door side using dry wall screws (By Others) make sure you use two screws side by side on top and bottom then offset them every 8" – 10" apart [See Box A].

2. Use the small flat insert (DES002) and apply it underneath finished header/ fur down. Make sure to abut the vertical flat insert [See Box B]. Use dry wall screws (By Others) make sure you use two screws side by side on top and bottom then offset them every 8" – 10" apart

3. Place header jamb (DES001) over flat insert at the head, make sure to keep it lined up to the end of the flat insert then level and add one screw (ST066) to hold in place while you get your measurements for your hinge jamb.

4. Measure and cut hinge jamb (DES001). Place hinge jamb over vertical flat insert. Apply RA108 clip on both sides at joint to secure hinge jamb and header [See Box C] making sure the jamb is plumb, level, and squared. Use ST066 screws 8"– 10" apart to attach.

5. After hinge jamb is leveled and secured measure and mark door opening width at floor from the face of the hinge jamb.

6. (Strike Jamb) measure from face of header to your floor mark to get the height for your strike jamb. Once it fits remove so that you can add (EH82200 anchor) our structural jamb support.

7. Attach (EH82200 anchor) to the bottom of strike jamb using ST360 screw only on the back side of door stop (See Box D). Place strike jamb back in its opening and add your RA108 clips at the top attaching your header and strike jamb. Maintain door opening width and level before anchoring to floor using 3/16"x 1 ¼" Tapcons (By others).

8. Measure and cut flat insert (DES002) at strike jamb to overall height, bottom of fur down to top of finished floor [See Box E]. After it is cut to size insert it to the back of the strike jamb and attach using ST066 screws 8" – 10" apart on both sides [See Box F]. Add RA108 clips on each side to secure strike jamb and header at the top.

9. Measure and cut DES Trim (RN413) and apply to both sides of the frame to complete the door frame before going to the side light portion.

10. Before starting the side light verify location and direction of glazing. [See Box G].

RACO INTERIORS

ST137 SCREW

DESASCR1 SCREW

ST360

SHEETROCK SCREWS (BY OTHERS)

ST066 SCREW

DESRA10100 PERIMETER CLIP

DESRA10200 HORIZONTAL CLIP

RA108 CLIP x (4)

DES002 FLAT INSERT

DES001 DOOR JAMB

DESTRIM (RN413)

DES005 T-BAR

DES006 CAP

DES007 RECEIVER

GLASS POCKET

DES004 GLASS STOP

DES003 STARTER

SCREW POCKET

NOT TO SCALE

Revised 2/18/2025

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11. Measure and Mark (chalk recommended) Floor to align square with wall. [See Box H].

12. When starting your side light it is recommended to start with the vertical glass starter pieces (DES003), working from the frame first, and then the head & sill starter pieces. Measure and Cut (starter DES003) to overall height, bottom of fur down to top of finish floor. Make sure to pre-drill holes (5" – 7" apart) and clean any burs left behind so that it won't leave you any gaps while attaching. Use ST360 screws only on strike side and for the rest use sheet rock screws (By Others) [See Box I & J]

13. Measure vertical glass receivers as needed and notch each end for clips [See DESRA10100 Clip Preparation]. Level and square before attaching at head and base using ST137 screws.

14. Horizontals (DES007) are measured between vertical mullions and wall or strike jamb (Des003) then minus an – 1/8" of overall width for your clips (DESRA10200 Horizontal clips & DESRA10100 Vertical clip). [See Vertical mullion preparation to notch horizontals for DESRA10100 on one end.] Pre-drill holes for the DESASCR1 screw on the vertical and horizontal DES007.

15. Pre-drill from the back side of the DES007 for compression screws (DESASCR1) every 5" to 7" apart. Clean any burs left behind.

16. Clean and prep framing for 3M VHB tape. Use 3M Adhesion Promoter & Primer or denatured alcohol. See RACO OFFICE Youtube channel, contact RACO directly, or see 3M's website (https://www.3m.com/3M/en_US/vhb-tapes-us/resources/applying-3m-vhb-tapes/) for detailed instructions on how to apply the VHB tape to the DES003 and DES007 framing members.

    Note: the 3M VHB tape comes in 3/8" width with a red backing. Bumper tape will come 3/8" thick with a blue backing

17. Cut vertical glass stop (DES004) to run full height. Horizontal glass stop to run inbetween. Apply double sided bumper tape prior to snapping on glass stop.

18. Cut T-bar (DES005) and cap (DES006) for vertical and horizontal mullions. Apply double sided bumper tape prior to attached to glass receiver (DES007) with compression screws (DESASCR1). Once secured, slide on cap to back side of receiver.

19. Please wait 48–72 hours after application of the VHB tape to clean the glass.

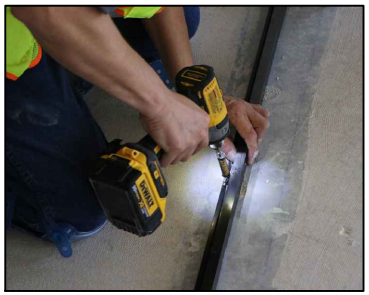
F

G

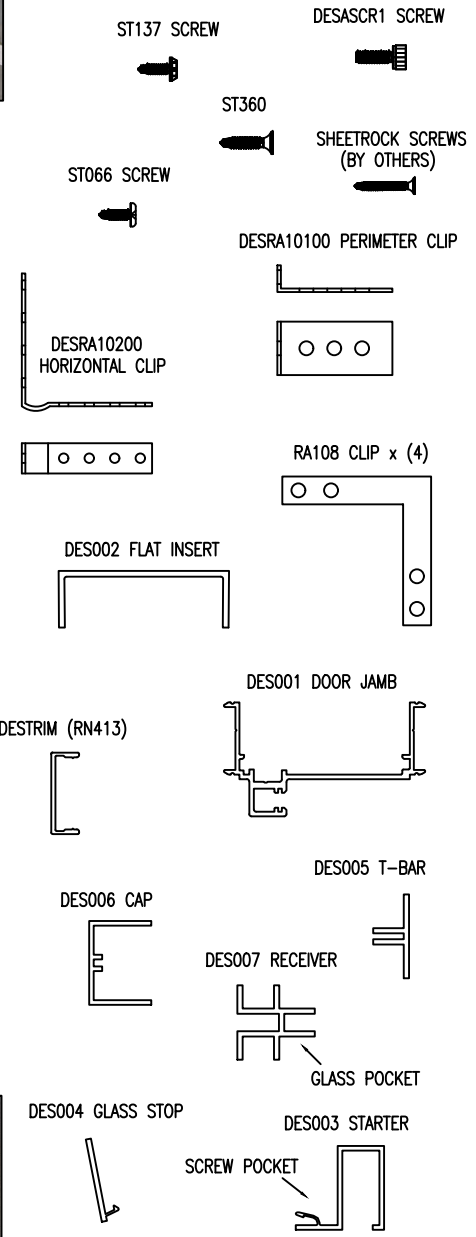
H

I

J



RACO INTERIORS

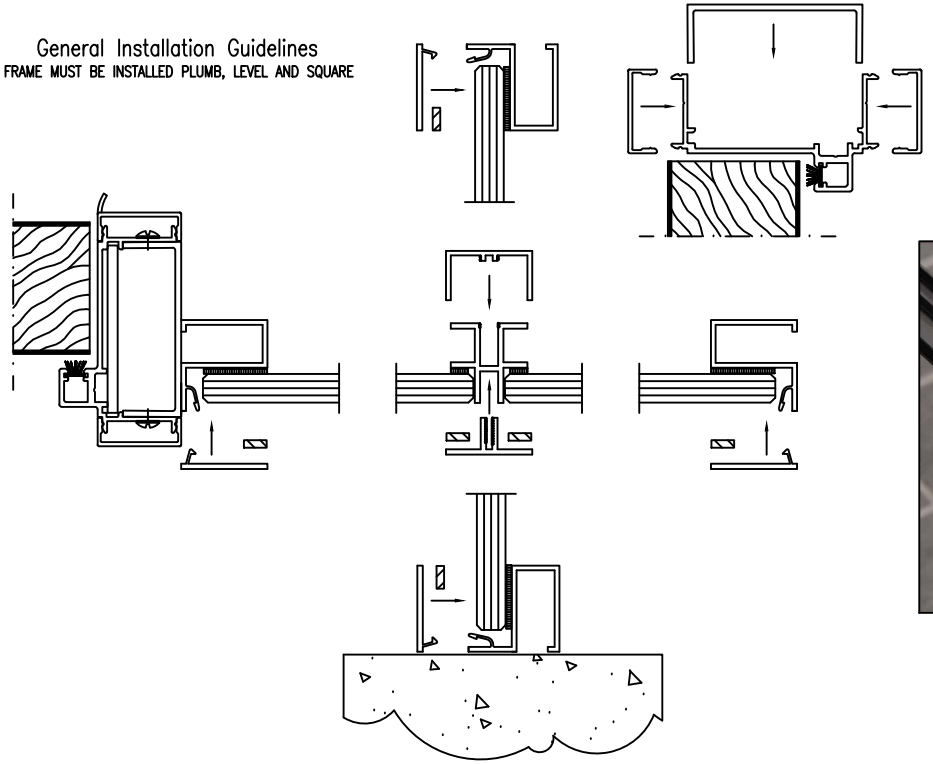


NOT TO SCALE

Revised 2/18/2025

General Installation Guidelines

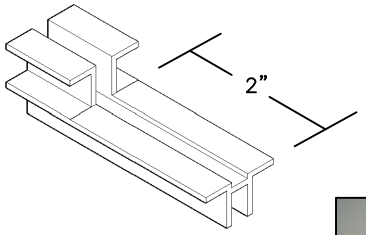
FRAME MUST BE INSTALLED PLUMB, LEVEL AND SQUARE



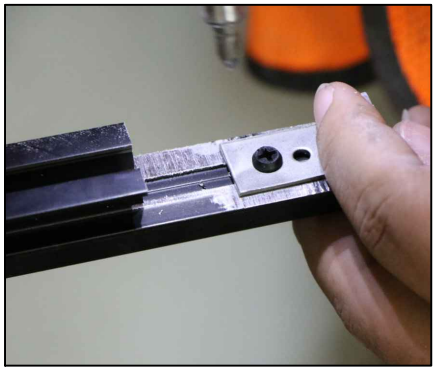
SEE RACO TYPICAL DETAIL SET FOR DIMENSION AND WOOD BLOCKING REQUIREMENTS

DESRA10100 CLIP PREPARATION

ALL VERTICAL MULLIONS (DES007 RECEIVERS) SHOULD BE NOTCHED AT THE TOP AND BOTTOM 2"
ALL HORIZONTAL MULLIONS (DES007 RECEIVERS) SHOULD BE NOTCHED ON END(S) CONNECTING TO DES003



NOTCH & CLIP ASSEMBLY



ATTACH (DESRA10100) CLIP

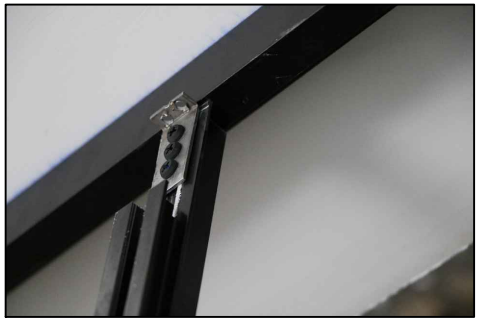
HORIZONTAL AT DOOR FRAME

THIS SYSTEM REQUIRES 3/8" GLASS THICKNESS

HORIZONTAL TO VERTICAL

ATTACH VERTICAL TO HORIZONTAL WITH (DESRA10200)

VERTICAL AT HEAD



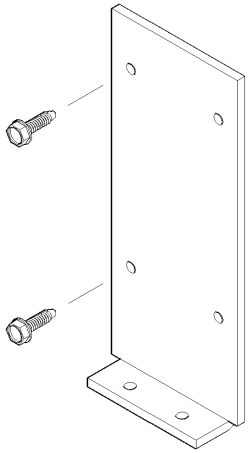
ATTACH DESRA10100 CLIP TO (DES003 STARTER) HEAD

VERTICAL AT BASE

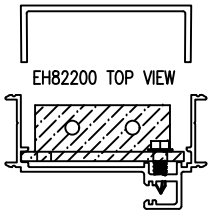
ATTACH DESRA10100 CLIP TO (DES003 STARTER) BASE

EH82200 ANCHOR

STRUCTURAL STRIKE SUPPORT



Tapcons (By Others)



5/32" Hammer Drill Bit then
3/16" x 1-1/4" Tapcons

FREQUENT ASKED QUESTIONS

WHAT GLASS THICKNESS DOES THIS SYSTEM REQUIRE?

3/8" GLASS

WHAT IS THE MAXIMUM HEIGHT PER ELEVATION?

120"

WHAT IS THE MAXIMUM WIDTH BETWEEN VERTICALS?

40"

FINISHED OPENING INFORMATION

DOOR FRAME ONLY

FINISHED OPENING WIDTH = OVERALL WIDTH + 1/8"
FINISHED OPENING HEIGHT = OVERALL HEIGHT + 1/8"

FRAME WITH SIDELITE/BORROWED LITE

FINISHED OPENING WIDTH = OVERALL WIDTH
FINISHED OPENING HEIGHT = OVERALL HEIGHT + 1/8"

NOT TO SCALE

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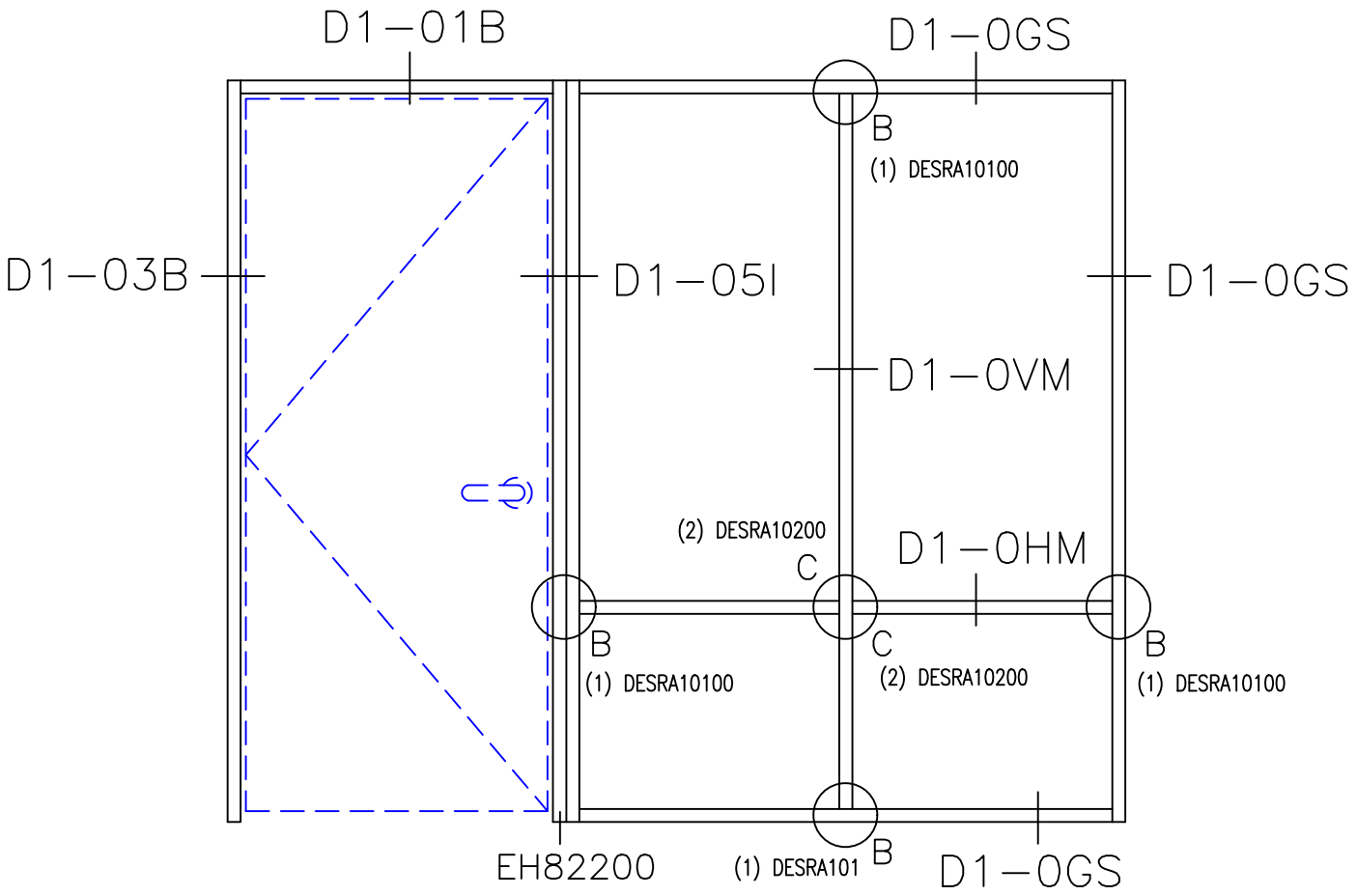
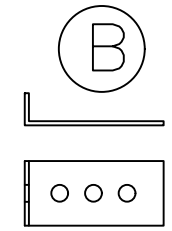
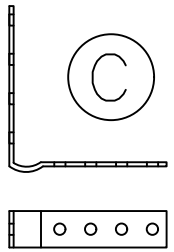
THIS SYSTEM REQUIRES 3/8" GLASS THICKNESS





DESRA10100 PERIMETER CLIP



DESRA10200
HORIZONTAL CLIP

ELEVATION DETAIL GUIDE

SEE TYPICAL DETAILS ON PAGE FOUR OF THESE INSTRUCTIONS

NOT TO SCALE

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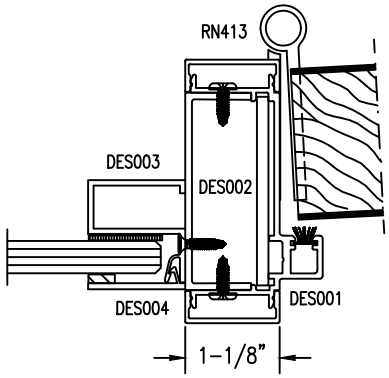
RACO INTERIORS

RACO Design1 Opt 1

Typical Door, Frame & Sidelite Details

THIS SYSTEM REQUIRES 3/8" GLASS THICKNESS

D1-06I



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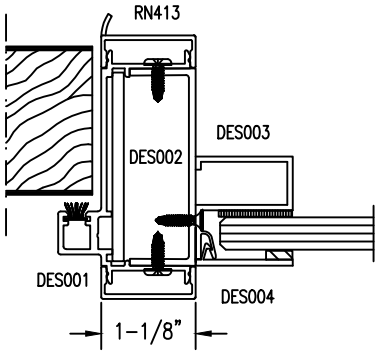

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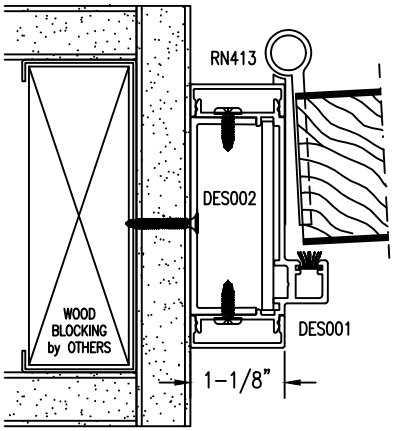

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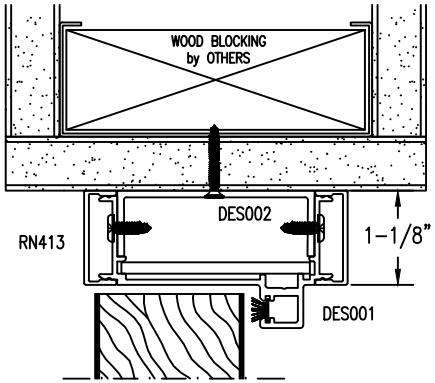

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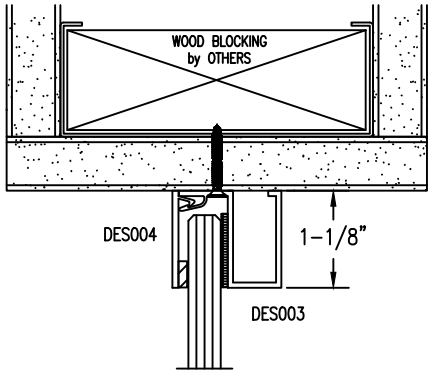

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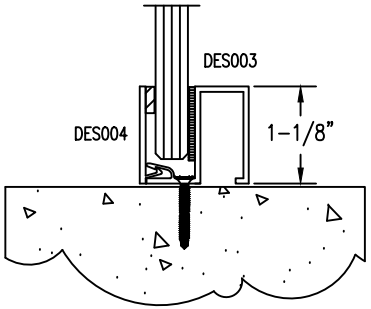

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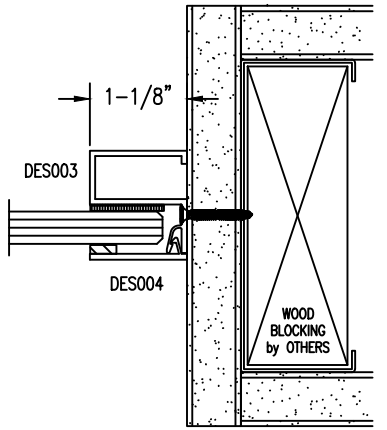

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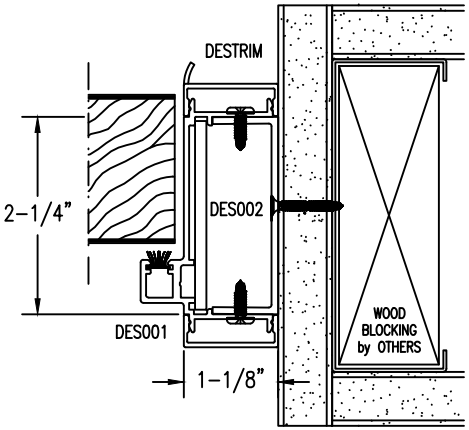
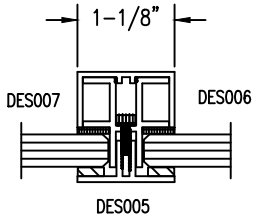
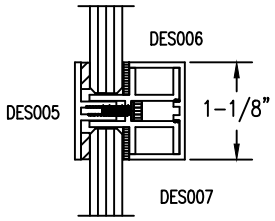


D1-0VM



Vertical Mullion

D1-0HM



Horizontal Mullion

SHEETROCK SCREWS (BY OTHERS)

THIS SYSTEM REQUIRES 3/8" GLASS THICKNESS

Revised 2/18/2025