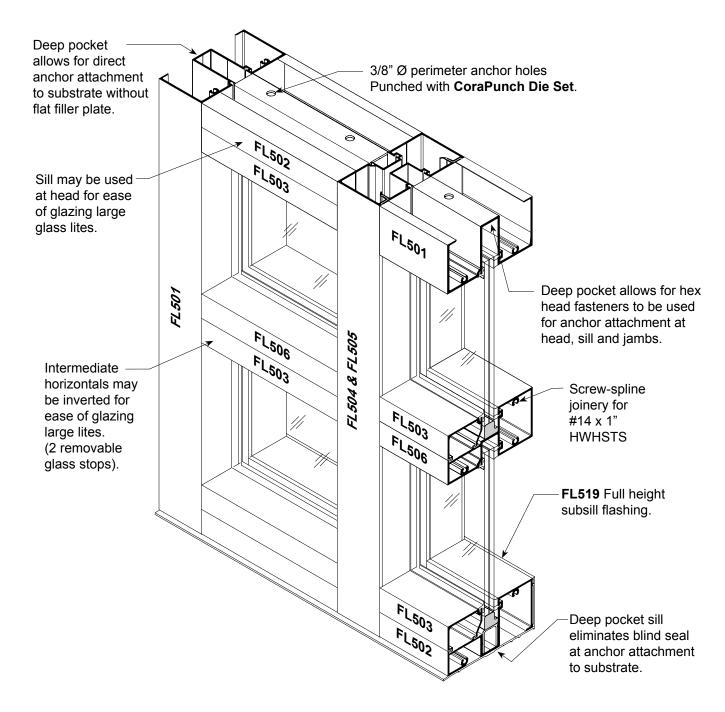


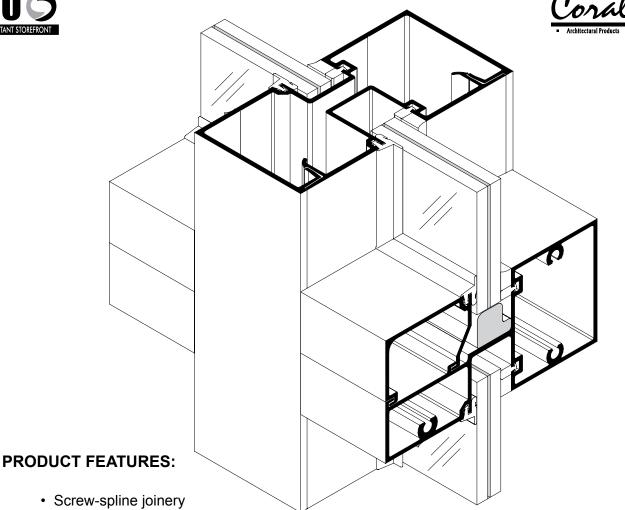


INSTALLATION INSTRUCTIONS 2 1/2" x 5" for 9/16" Laminated Glass









- Screw-spline joinery
- · CoraPunch or drill jig fabrication
- Panelized assembly
- Deep pocket perimeter sections:
 - Eliminates drilling access holes with blind seals
 - Eliminates flat filler plate at head and wall jambs
 - Allows for 3/8" diameter hex head anchor bolt attachment to substrate
 - Intermediate horizontals may be inverted for ease of glazing large lites
 - Sill may be used at head for ease of glazing large lites
- · Heavy wall mullion option without steel
- · Steel reinforcing attachment to mullions at head and sill only
- · Tested with and without steel reinforcement at various design pressures
- Tested with 84" x 96" **Series 381 M.S.** impact-resistant entrance doors
- Tested with 72" x 84" **Series 281 N.S.** impact-resistant entrance doors
- Anodized finishing or factory applied thermosetting fluorocarbon powder coating option

To download 3-part specification, go to: www.coralind.com

January 2012 2 • FL500 - HIR Storefront



STOREFRONT SYSTEMHurricane Impact-Resistant



These instructions are for typical conditions. Reference the Dade County Applications (Options and Limitations) for FL500 framing and for Series 281 or 381 impact resistant entrance doors. Always check www.coralind.com for the latest updates to these instructions prior to installation".

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INSTALLATION INSTRUCTIONS - General Notes -

Coral Series **FL500** (2-1/2" x 5") hurricane impact-resistant system was especially designed to meet the stringent Dade County, FL Building Codes for impact-resistant glass and framing systems. Series **FL500** successfully passed a series of large missile impact and cyclic wind tests with multiple impact-resistant glass compositions.

RECOMMENDED GUIDELINES FOR ALL INSTALLATIONS:

- 1. REVIEW CONTRACT DOCUMENTS. Check shop drawings, installation instructions, architectural drawings and shipping lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project. Field verified notations shown within shop drawings must be resolved prior to installation. These installation instructions are of general nature and cover most conditions.
- 2. INSTALLATION. All materials shall be installed plumb, level and true.
- **3. BENCHMARKS.** All work should start from established benchmarks and column center lines established by the architect and general contractor.
- **4. FIELD WELDING.** All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.
- 5. SURROUNDING CONDITIONS. Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with work.
- 6. ISOLATION OF ALUMINUM. Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.

7. STRUCTURAL SEALANTS.

- A. **DOW 995** structural sealant was used on the Series **FL500** test specimen approved by Dade County for glass to metal adhesion. To comply with Dade County, FL Building Code Protocols, **DOW 995** sealant must be used for glass to metal adhesion with Series **FL500**.
- B. Perimeter Sealants: Due to varying job conditions, all perimeter sealants used should be approved by the sealant manufacturer to ensure the sealant will function for the conditions shown on these instructions and shop drawings. Sealants must be compatible with all surfaces in which adhesion is required, including other sealants. Use primers where directed by sealant manufacturer. Be sure to properly store sealants at recommended temperature and check container for remainder of shelf life before using. *DOW* 795 structural silicone was the perimeter sealant used on the Series FL500 test specimen approved by Dade County.
- **8. FASTENING.** This framing system must be assembled with the same type fasteners specified within these instructions. **FL500** framing system must be attached to the substrate(s) with the quantity and type fasteners shown in the anchor charts contained within these instructions. It is the installer's responsibility to ensure that the framing configuration selected conforms to all applicable state and/or local building codes for High





INSTALLATION INSTRUCTIONS - General Notes -

Velocity Wind Zones. Please reference the **Options and Limitation Charts for FL500 Framing** and **Approved Glass Types**. Where entrance doors are requried, please reference the **Options and Limitation Charts for Series 281 and Series 381 Entrance Doors** for the proper slection that meets your job requirements. These Options and Limitation Charts are shown in the CORAL ARCHITECTURAL MANUAL and also maybe found at www.coralap.com. Select Products and then for Hurricane Impact-Resistant Products.

- 9. BUILDING CODES. Due to the diversity in state, local and national codes that govern the design and application of architectural products, it is the responsibility of the architect, owner and installer to assure that products selected for use on each project comply with all the applicable building codes and laws. CORAL ARCHITECTURAL PRODUCTS exercises no control over the use or application of it's products, glazing materials and operating hardware and assumes no responsibility thereof.
- **10. EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and shop drawings are shown at normal size. Expansion mullion gaps should be based on temperature at time of installation.
- **11. WATER HOSE TEST.** After a representative amount of the storefront system has been glazed (250 square feet) and the sealant has cured, a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. This test should be repeated every 500 square feet during the glazing operation. Note: This test procedure should not be used for entrance doors.
- **12. COORDINATION WITH OTHER TRADES.** Coordinate with the general contractor and sequence with other trades items which offset the storefront installation such as back-up walls, partitions, ceilings and mechanical ducts.

13. MATERIAL HANDLING:

A. SHOP

- 1. Cardboard wrapped or paper interleaved material must be kept dry.
- 2. Immediately remove aluminum from cardboard wrapped or paper interleaved materials should it get wet to prevent staining or etching aluminum finish.
- 3. Check arriving materials for quantity and keep record of where various materials are stored.

B. JOB SITE

- Material at job site must be stored in a safe place well removed from possible damage by other trades.
- 2. Cardboard wrapped or paper interleaved material must be keep dry. (See 13.A.2)
- 3. Keep record of where various materials are stored.
- 4. Protect materials after erection. Cement, plaster, mortar and other alkaline solutions are very harmful to the finish.
- **14. CARE AND MAINTENANCE.** Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA. 609.1 for anodized aluminum and 610.1 for painted aluminum.
- **15. CORAL ARCHITECTURAL PRODUCTS.** It is the responsibility of CORAL ARCHITECTURAL PRODUCTS to supply a system to meet the architect's specifications.
- **16. GLASS.** Glazing gaskets are designed for a compression fit against glass and can accommodate (+/- 1/32"). Be sure to check overall size of glass size and thickness.





PRODUCT APPLICATION AND INSTALLATION

Series **FL500** hurricane impact-resistant storefront system was designed with screw spline joinery for simple fabrication and panelized installation, but should only be installed by glazing contractors employing personnel with the necessary installation and project management experience to handle these type projects.

FL500 hurricane impact-resistant storefront system requires the installer to pay close attention to the details shown within these *Instructions* and *General Notes*. All critical seal areas must be done as shown.

OPTIONS and LIMITATIONS

The laminated glass and mullions function as an integral unit. The combinations shown in the **Options and Limitation Charts** for **FL500** framing and **Series 281** and **381** entrance doors are based on actual performance testing and cannot be altered without sacrificing the integrity of the system.





FRAME FABRICATION

Establish Frame Size and Cut Metal to Length

STEP 1.

Measure width of rough opening.

- A. Measure opening at bottom.
- B. Measure opening at center.
- C. Measure opening at top.

The frame width will be the smallest dimension less 1/2" allowing for a minimum 1/4" caulk joint at each jamb.

Note: Maximum caulk joint for Dade County, FL installation is 1/4".

Repeat process to determine frame height.

- A. Beginning on left side of opening, measure dimension from top to bottom.
- B. Repeat at center.
- C. Repeat at right side of opening.

The frame height will be the smallest dimension less 5/8".

This allows 1/8" for subsill and a 1/4" caulk joint at the sill and head.

STEP 2.

Cut members to size.

- A. Cut subsill to frame dimension plus 1/4". The subsill at entrance locations butt tight against door jambs and is cut 1/8" longer than width of side lights on either side of door frame.*
- B. Wall jambs and intermediate vertical mullions are cut to frame height.
- C. Horizontal members are cut to D.L.O.
- D. Snap-on glass stops are cut D.L.O. minus (-) 1/16".

Abreviations used within these instructions:

D.L.O. = Day Light Opening

D.O.W. = Door Opening Width

D.O.H. = Door Opening Height

C.O.C. = Concealed Overhead Closer

C.V.R. = Concealed Vertical Rod

Ø = Diameter

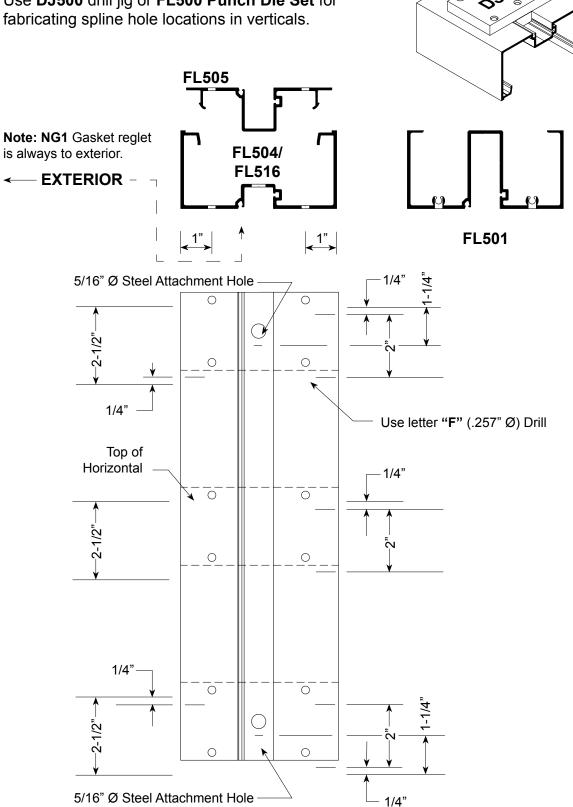
^{*} **Note:** See **Page 30** for subsill condition abutting door frame.





FRAME FABRICATION Joinery Hole Locations





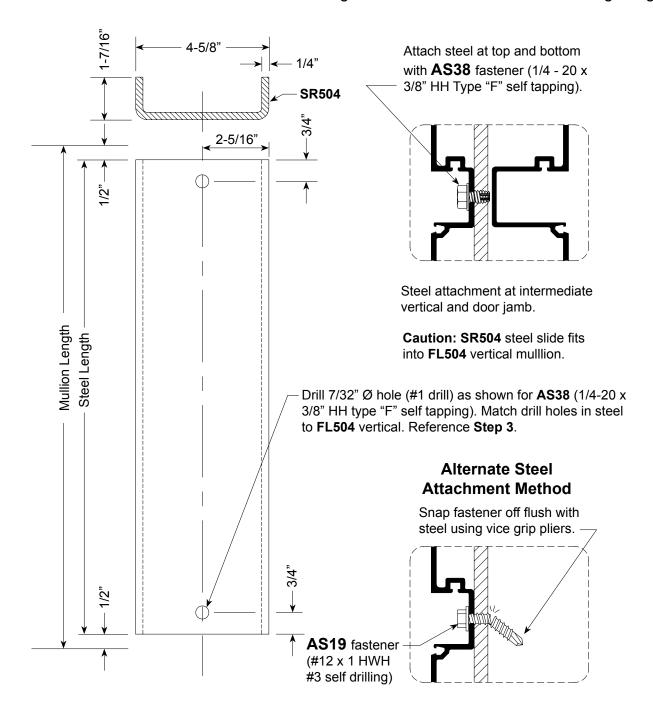




FRAME FABRICATION Steel Reinforcement

STEP 4.

Fabricate steel reinforcement where required. Cut steel 1" less than length of vertical mullion. **Note: AS38** hex head fastener location is below glass line and does not interfere with glazing.



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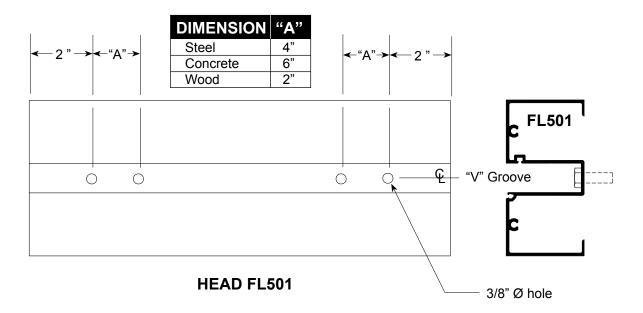




FRAME FABRICATION Head / Sill

STEP 5.

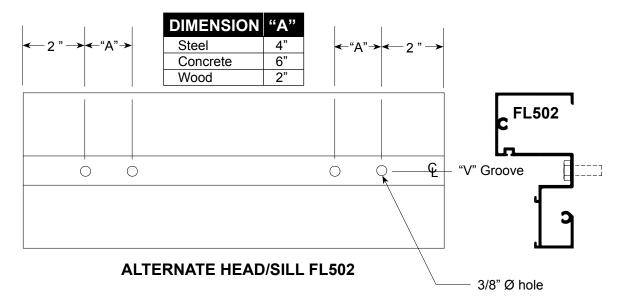
Drill head and sill anchor holes as shown or punch using **FL500 Punch Die Set**. Number of anchor holes required is based on substrate material conditions. Reference **CAP anchor charts**, (**Pages 51-56**) for number of anchor holes and locations for various substrates. First hole is always 2" from end. Each additional fastener hole is at required minimum spacing "**A**" between fasteners as shown in fastener charts.



Note: Removable glass stop at head facilitates glazing of large lites.

(Reference Page 21)

Note: Anchor holes may be punched using FL500 Punch Die Set.



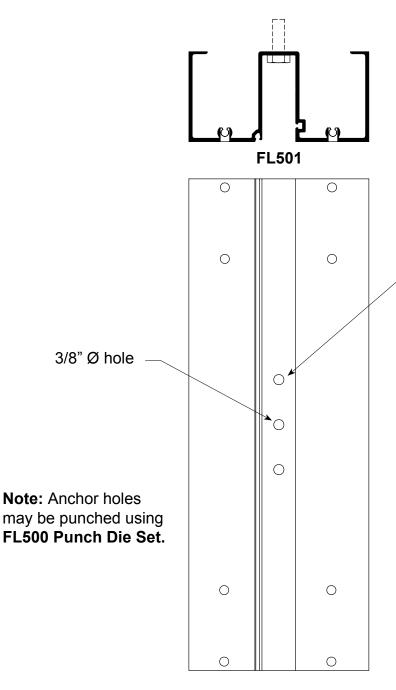




FRAME FABRICATION Wall Jamb

STEP 6.

Fabricate wall jamb for anchor holes, when required. Number of anchors required is dependent on mullion length and substrate material. Reference **CAP Anchor Chart**, (**Pages 51-56**).



Compare charted anchor hole locations with intermediate horizontals dimensions on shop drawings. Should charted anchor holes be shown at same location as intermediate horizontal, then drill holes directly above or below horizontal to avoid fastener installation interference.

Note: Locate anchors as close to charted dimensions as possible.

Wall Jamb

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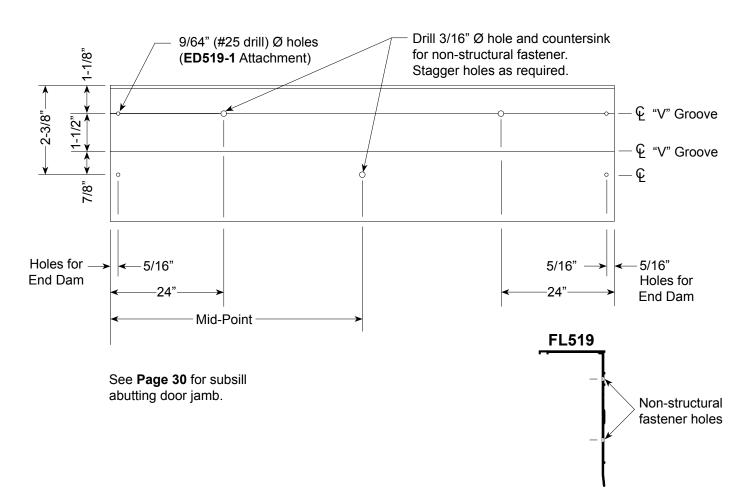




FRAME FABRICATION Subsill Flashing

STEP 7.

Fabricate **FL519** subsill flashing for end dams and non-structural fastener holes. Hole location dimensions for non-structural fasteners in subsill are approximate.



- **1.** Drill 3/16" dia. hole for non-structural fasteners used for temporarily attaching subsill to substrate as shown. Repeat this hole pattern for each additional 12'-0" of length or as required until structural fasteners are installed.
- Drill two each 9/64" dia. holes (#25 drill) at each end (except end abutting at door jamb) for attaching ED519-1 end dams. Note: Subsill terminates at door jamb. Reference Page 30.





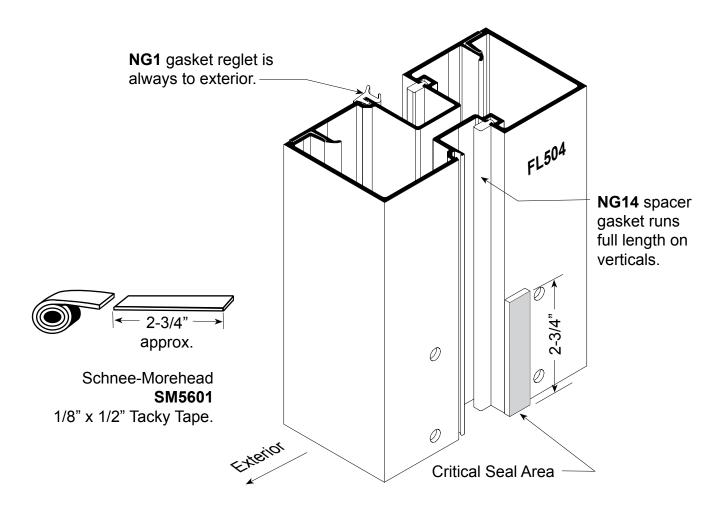
FRAME ASSEMBLY Joinery Tape Application

STEP 1.

GLAZING TAPE INSTALLATION PROCEDURES:

Ref. Step 2 for location.

- 1. Cut **SM5601** 1/8" x 1/2" Tacky Tape approximately 2-3/4" long.
- 2. Clean surfaces where tape is to be applied with isopropyl alcohol or solvent to remove all dirt and cutting oils. Allow surface to dry before applying tape.
- **3.** Position tape on vertical mullions at horizontal joint intersections, as shown on **Page 14**.
- **4.** Just prior to frame assembly, remove protective cover and screw joints together.
- **5.** Use a box knife to trim excess sealant tape where exposed. Do not pull tape to trim.

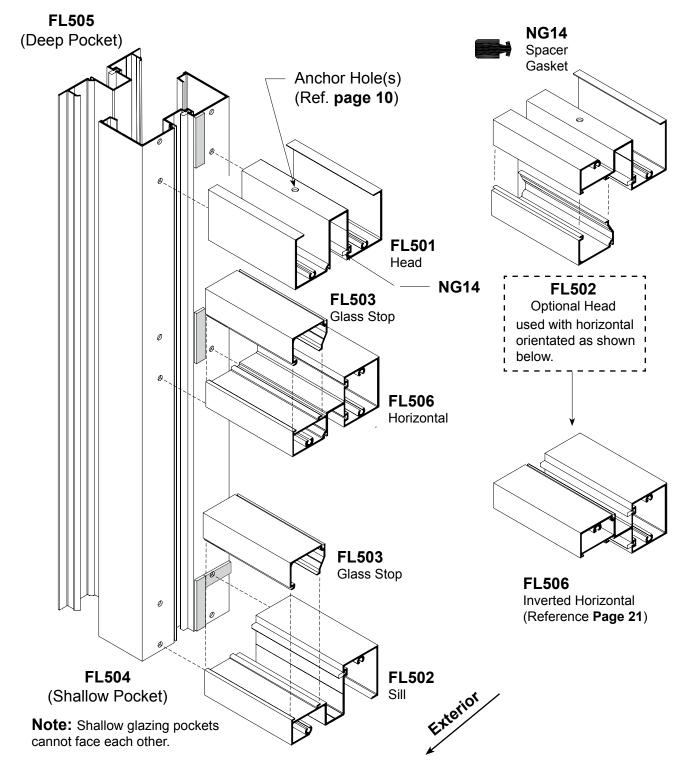






CAPTURED FRAME ASSEMBLY Vertical to Horizontal Joinery

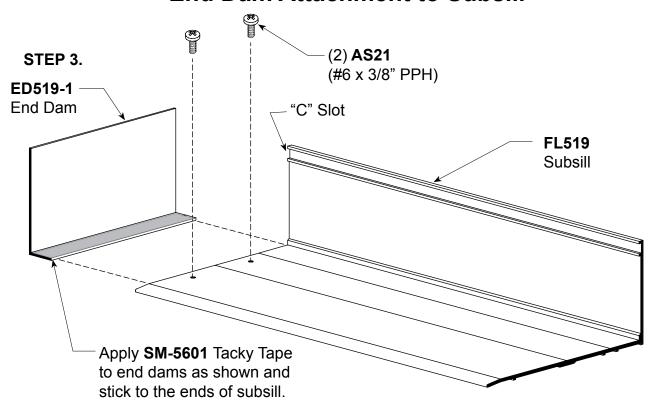
STEP 2. Install **NG14** interior spacer gaskets into vertical and horizontal members prior to frame assembly. Cut spacer gaskets to D.L.O. dimensions.



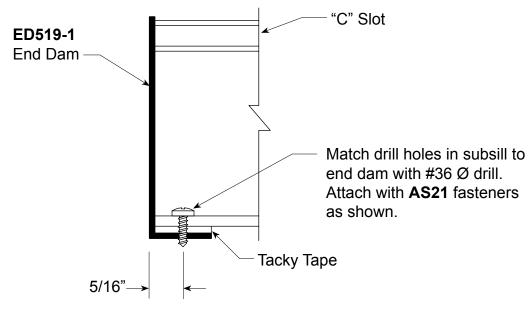




FRAME ASSEMBLY End Dam Attachment to Subsill



Note: Reference **Page 30** for subsill abutting the door jamb where entrance doors occur.



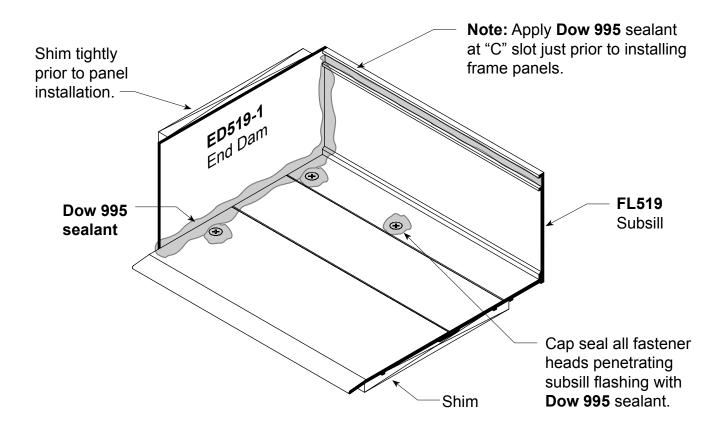




FRAME INSTALLATION Subsill Installation and Sealant Application

STEP 1.

Position fabricated subsill with end dams into opening. Center into opening allowing shim space at jambs. (See **Page 30** for openings with entrance frames).



Shim beneath subsill to be a maximum of 1/4". Attach subsill flashing to structure with non-structural fasteners using attachment holes shown on **Page 12**. Wedge shims tightly between end dams and jamb substrate at each end prior to installing frame panels. These shims prevent the end dams from being dislodged while frame panels are being installed. Completely seal end dams as shown.

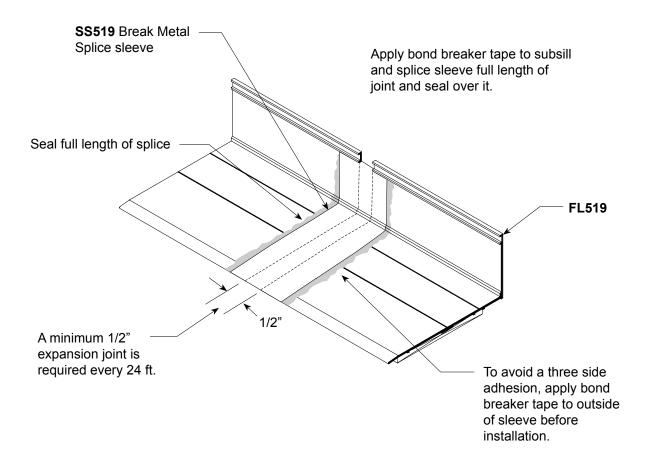
Run a continuous bead of **Dow 995** sealant along the full length of the subsill "C" slot as shown above just prior to installing frame panels. Do not allow sealant to harden prior to installing frame panels. Remove excess sealant after panels are installed.





SPECIAL CONDITIONS SPLICE SLEEVE AT SUBSILL

STEP 1. Locate splice sleeves near center of D.L.O. at panel positioned over splice.



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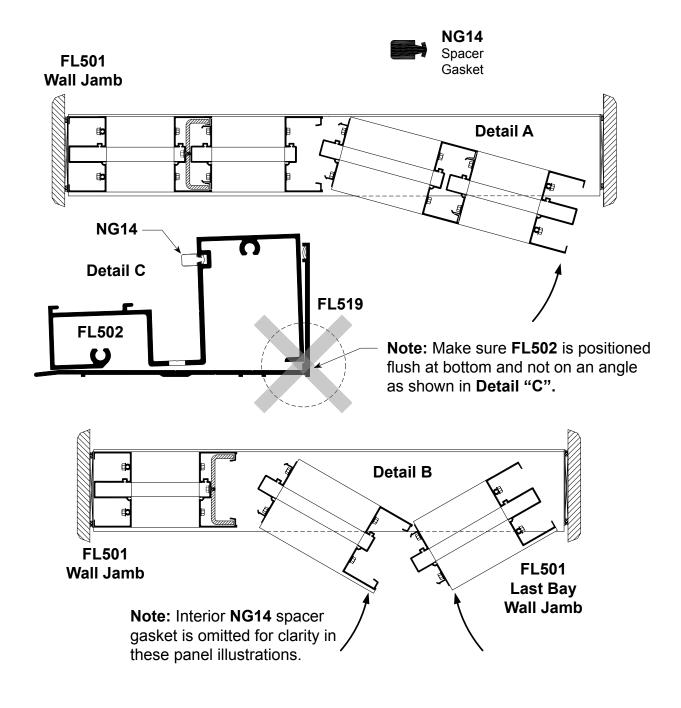




FRAME INSTALLATION Panelized Assembly

STEP 1.

Install assembled frame panels into opening starting with jamb and continue working toward the last bay. Reference illustrations shown below. Use option "A" or "B" as required. **Caution:** SR504 steel slide fits into **FL504** and must be inserted and attached prior to installing panels.



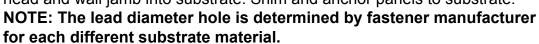




FRAME INSTALLATION Panelized Frame Attachment to Substrate

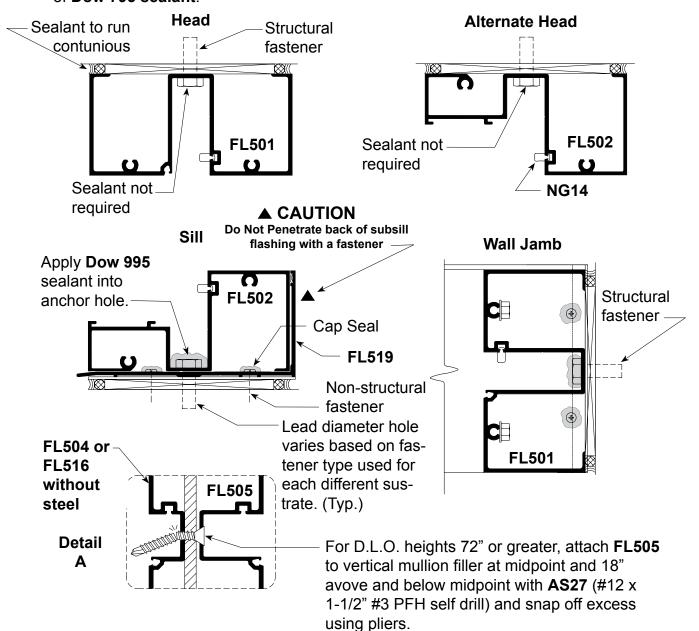
STEP 2.

Shim beneath subsill as required at fasteners. Match drill lead holes through sill into substrate for perimeter fasteners. Match drill lead diameter holes in head and wall jamb into substrate. Shim and anchor panels to substrate.





STEP 3. Completely seal exterior and interior perimeter with a continuous bead of **Dow 795 sealant**.



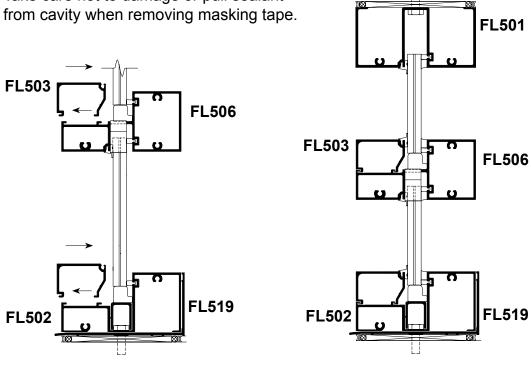


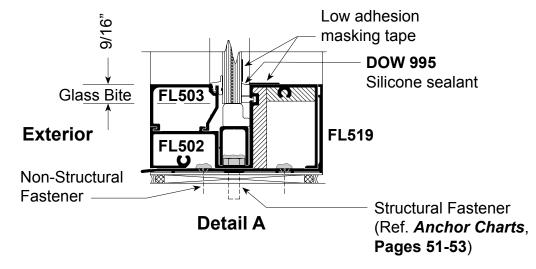


GLAZING

- 6. Continue glazing following the four step procedure.
- 7. Install FL503 hook-in glass stops as shown.
- 8. Prepare **NG1** top load gaskets and install as instructed on **Page 23**.
- 9. Mask off glass and aluminum with 2" wide low adhesion masking tape. Fill cavity with **Dow 995** sealant as shown, **Detail "A"** and tool. Remove masking tape immediately after installation of sealant and tooling. Take care not to damage or pull sealant from cavity when removing masking tape



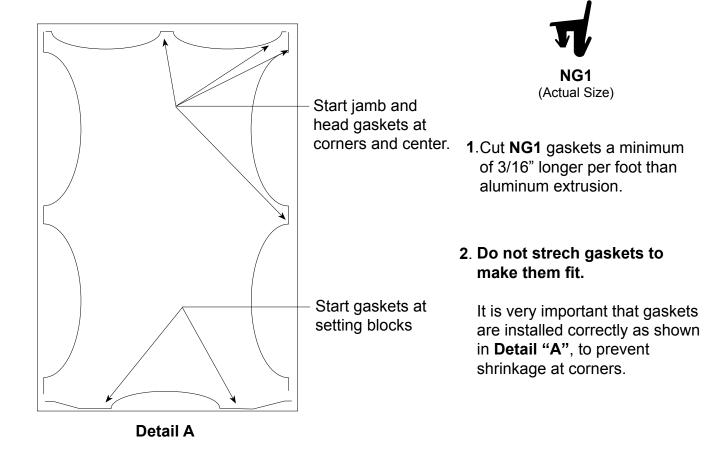


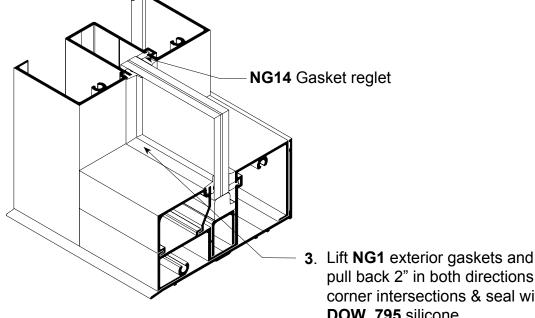






INSTALLATION OF TOP LOAD GLAZING GASKETS





pull back 2" in both directions at corner intersections & seal with DOW 795 silicone.



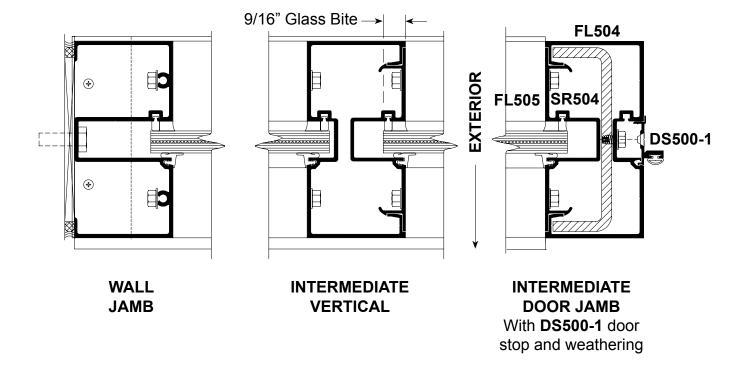


GLASS SIZE FORMULAS

Glass Sizes for FL500 System:

Glass Width and Height = D.L.O. + 1-1/8"

Note: Glass tolerances are not addressed in the above formula. Consult glass manufacturer for glass tolerances prior to ordering.

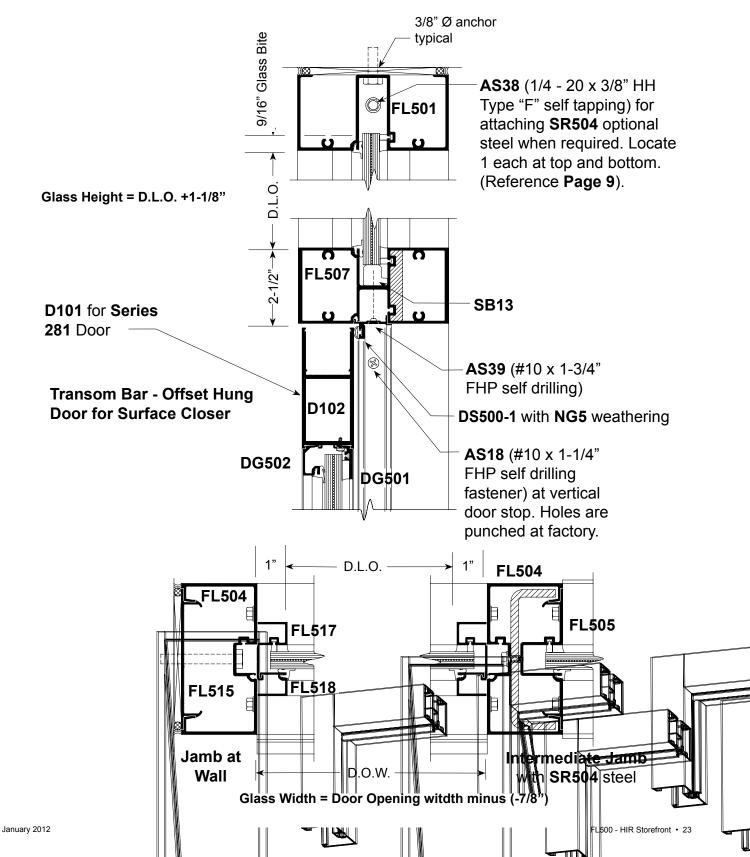






TRANSOM GLASS SIZE FORMULA FT5 Frame for Offset Hung Door for Surface Closer

(See Glazing for Glass Installation)

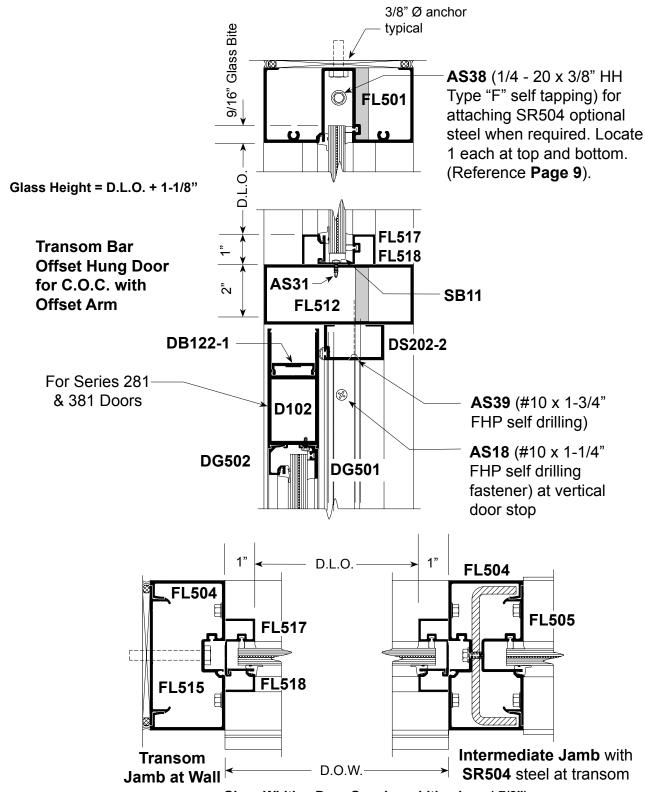






TRANSOM GLASS SIZE FORMULA FT5 Frame for Offset Hung Door with C.O.C.

(See Glazing for Glass Installation)

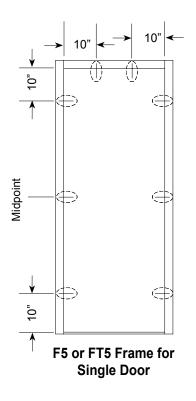


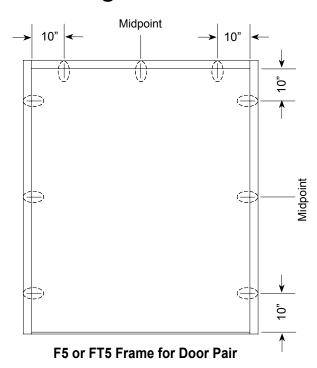
Glass Width = Door Opening width minus (-7/8")





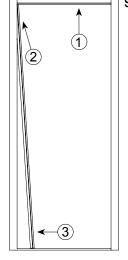
DS500-1 Door Stop ATTACHMENT LOCATIONS For 84" or 96" Door Height



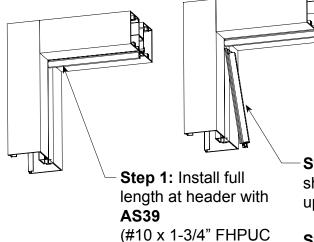


DS500 Door Stop INSTALLATION

Caution: Do not attach **DS500-1** until frame has been anchored to structure. See **Door Frame Anchor Charts** (**Pages 51-53**).



Detail A



self drill) fasteners in

factory punched

holes.

Step 2: Tilt vertical door stop as shown in **Detail "A"** and push up into slot.

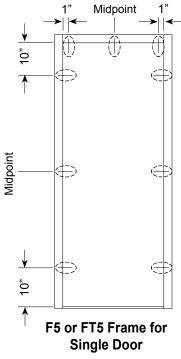
Step 3: Push in at bottom. Attach with **AS18** (#10 x 1-1/4" self drill) fasteners in factory punched holes.

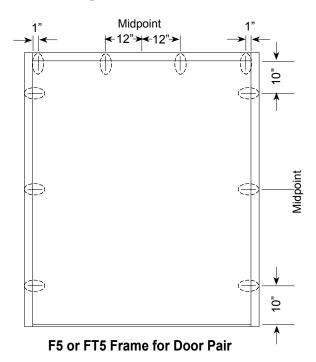
Step 4: Repeat steps 2 and 3 on opposite side.





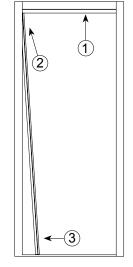
DS202-1 Offset Arm Door Stop at Head and DS500-1 at Jambs For 84" or 96" Door Height



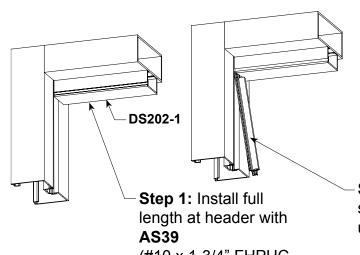


DS202-1 Door Stop at Head with DS500-1 at Jambs

Caution: Do not attach until frame has been anchored to structure. See Door Frame Anchor Charts (Pages 51-53).

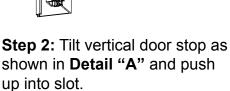


Detail A



(#10 x 1-3/4" FHPUC

self drill) fasteners in factory punched holes.



Step 3: Push in at bottom. Attach with AS18 (#10 x 1-1/4" self drill) fasteners in factory punched holes.

Step 4: Repeat steps 2 and 3 on opposite side.



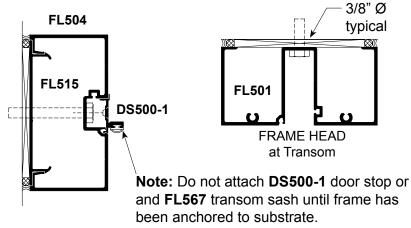


TYPE "FT" FRAME

TYPICAL ASSEMBLY & INSTALLATION For F5 or FT5 Door Frames

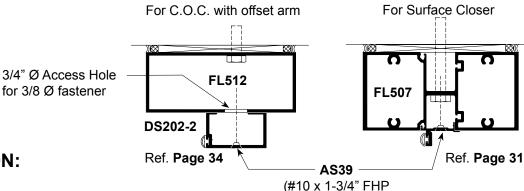
ASSEMBLY:

- **1.** Verify opening size. Allow for 1/4" minimum sealant space at jambs and frame head.
- Reduce frame transom height when required. Use drill jig for drilling spline hole locations for frame head.
- **3.** Attach **TH403** threshold clips to jambs using **AS24** fasteners.
- **4.** Assemble head and transom bar to jambs as shown.
- Install FL517 sash with NG14 gasket in transom.



TYPE "F" FRAMES

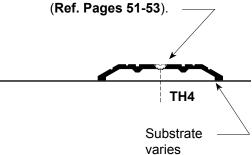
self drilling)



INSTALLATION:

- 1. Drill 3/8 Ø anchor holes in wall jamb and frame head as shown on **Anchor Charts**, (**Pages 51-53**), prior to assembly.
- 2. Set frame plumb and square into opening.
- **3.** Anchor frame to substrate with fastener types as shown in anchor charts.
- Attach DS500-1 door stop with NG5 weathering to jambs and transom bar or door header.
- 5. Position setting blocks in door header at quarter or eighth points as required and glaze transom. Glazing sash is required in transom. See details on Pages 25 and 26.

Field fabricate holes in locations as shown in anchor charts and anchor threshold to substrate.

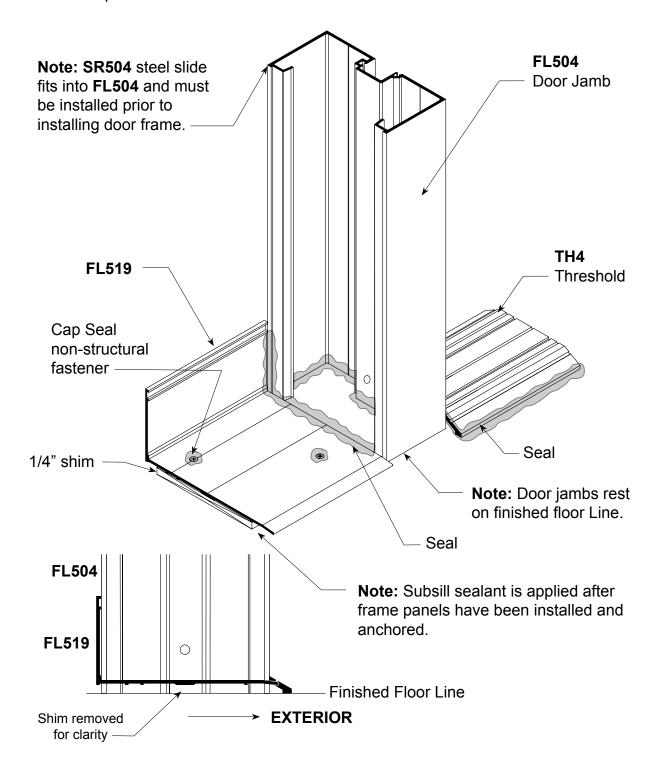






ENTRANCE DOOR FRAME INSTALLATION With Subsill for Sidelights

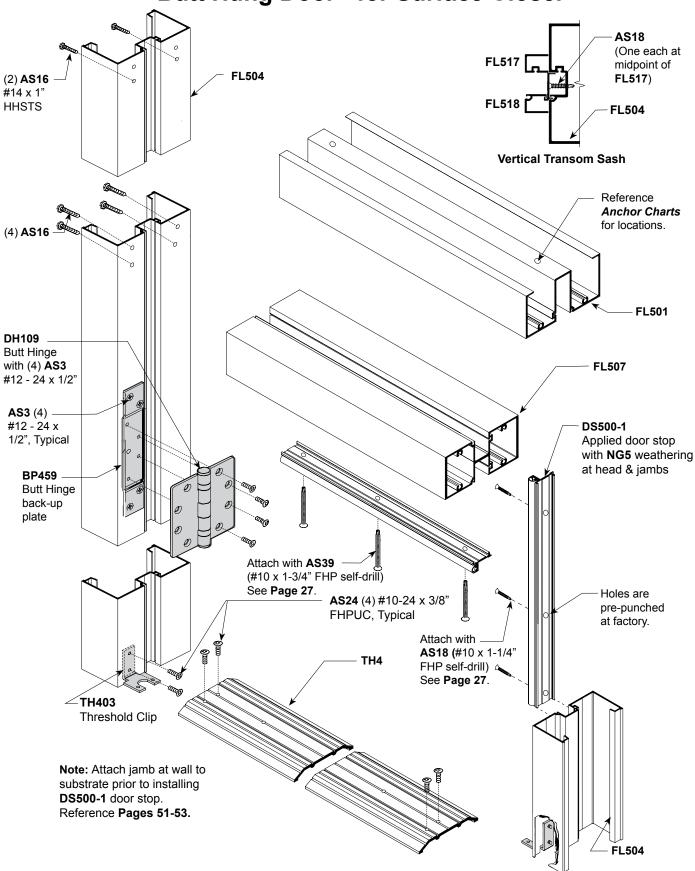
When entrances occur, install entrance frames first. Subsill butts against door jamb(s). The subsill abutting the door jamb does not require an end dam.







F5 or FT5 FRAME with Transom - Butt Hung Door - for Surface Closer



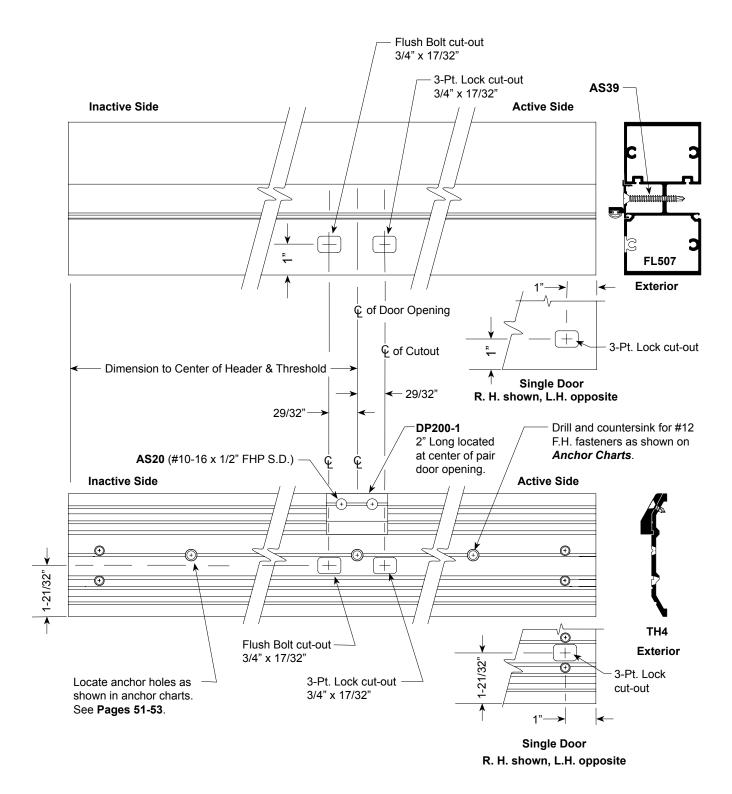




FLUSH BOLT & 3 PT. LOCK STRIKE LOCATIONS

F5 or FT5 Open Back Frame - Butt Hung Door - For Surface or Concealed Overhead Closer

FL507 Header Fabrication Shown for Surface Closer. **FL512** Header Fabrication Similar for C.O.C.

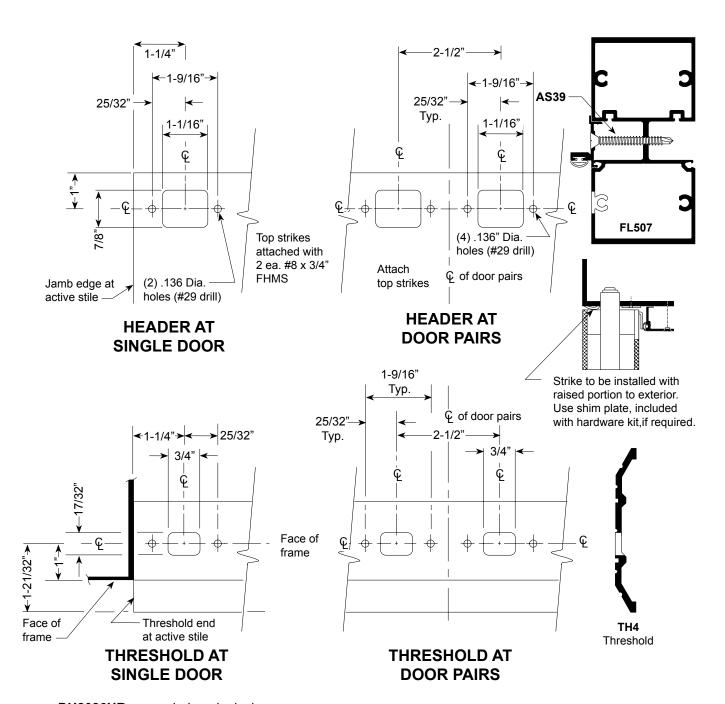






STRIKE LOCATIONS At Door Header and Threshold For DH2086HR Concealed Panic

(Top and bottom strikes must be installed)



DH2086HR concealed panic device is factory installed in "Panic doors".

Panic is shipped in dogged position and must be undogged. This can be done with the use of flat head screwdriver.

Note: FL507 header for surface closer shown. FL512 header for C.O.C. similar.





F5 or FT5 FRAME - OFFSET BUTT HUNG DOOR - C.O.C. and Offset Arm **AS18** FL504 FL517 FL501 FL518 AS16 #14 x 1" H.H.S.T.S. **Vertical Transom Sash AS31** (#6 x HC100 Header 3/8" PPH) FL517 mounting clip. **FASTENER CHART** Closer clip not **AS19** #12 x shown but included HWH Spacing from end in closer package. Single Door (See Hardware 3/4", 16-3/4", 33-1/2" **Installation Pages** Spacing from each end 35-38).* toward center FL518 Pair * Repeat this 3/4", 16-3/4", 33-1/2" connection on FL517 opposite jamb (2) **AS17** #10-32 x 3/4" FH for pair. FL512 AS3 (4) Attach HC100 #12 - 24 x 1/2" header mounting **DH117** bracket to jamb with (2) AS19 (#12 x 1" HWH #3 self drilling typical) BP459 **Butt Hinge** Connection for Back-Up single door shown. Plate **AS39** (#10 x 1-3/4" FPH self drilling) DH109 See Page 27. Butt Hinge FL504 w/ **AS3** (4) #12 - 24 x 1/2" DS202-1 Applied door stop with NG5 AS24 (4) #10-24 x 3/8" weathering at head FHPUC, Typical DS500-1 Applied door stop with TH4 NG5 weathering AS18 See Page 27. TH403 Threshold Clip FL504 Note: FL512 is header AS24 #10-24 x 3/8" for F5 frame

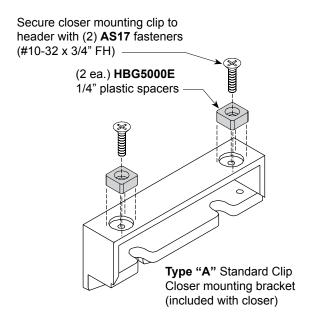
FHPUC, Typical





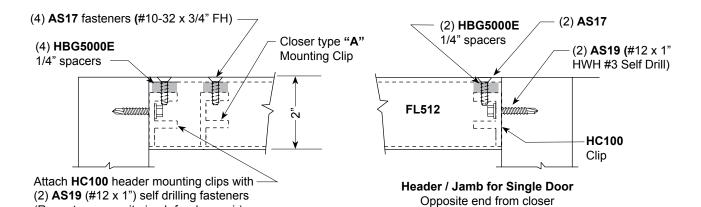
FT5 FRAME WITH FL512 HEADER for C.O.C. with Offset Arm

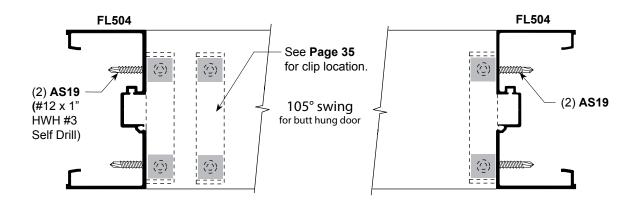
To mount closer into **FL512** headers, **HBG5000E** 1/4" plastic spacers are required. For balance of header installation, see **pages 36-38.**



(Repeat on opposite jamb for door pair)

Note: HC100 header mounting clip is identical to Type "A" standard clip. HC100 is used as a header / frame joinery clip.



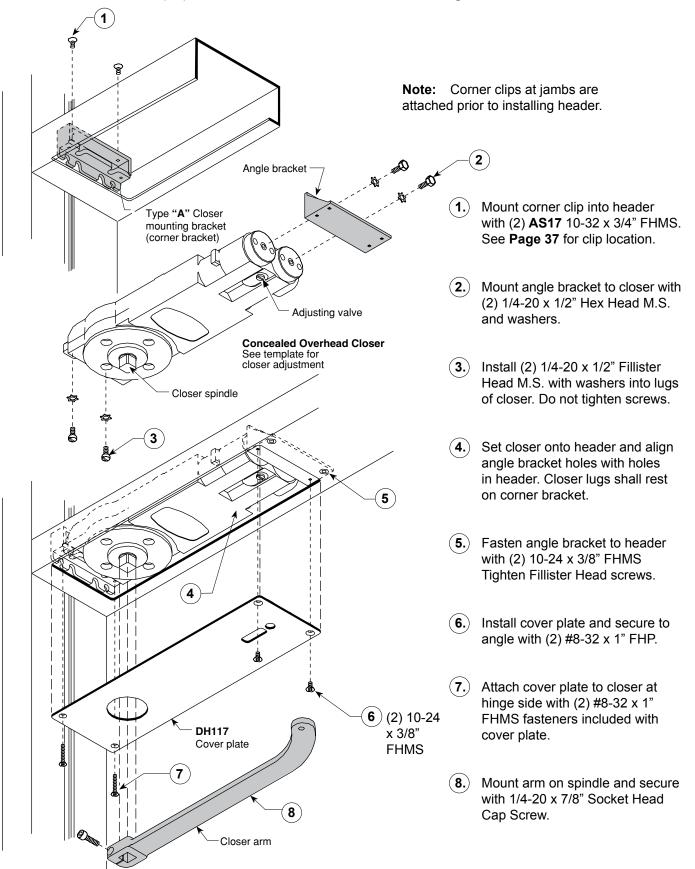






C.O.C. FOR BUTT HUNG DOOR With 105° Swing for F5 or FT5 Frame

For door preparation and slide channel installation, see Pages 38-39.

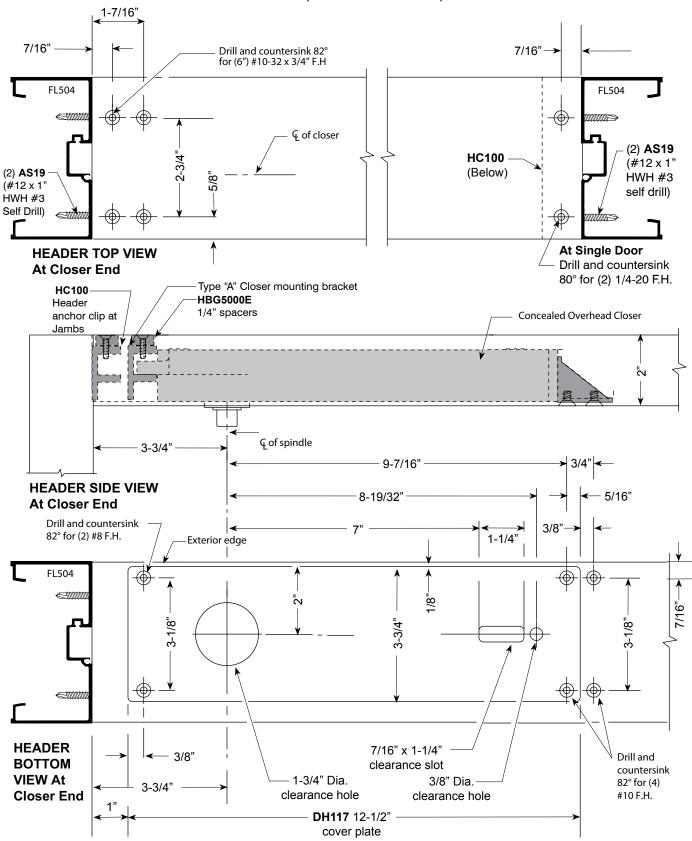






HEADER FOR C.O.C. -Butt Hung Door - with 105° Swing

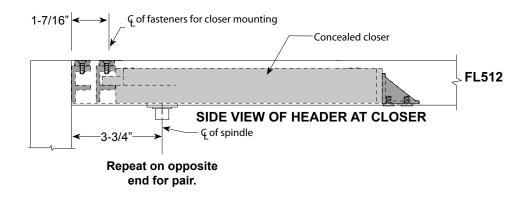
FL512 Header Preparation Header requires **HBG5000** 1/4" spacers.



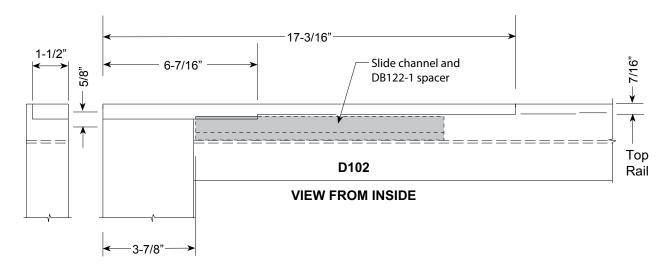




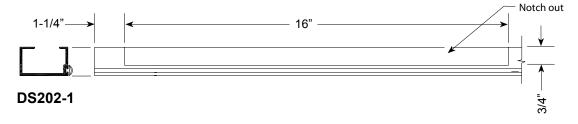
C.O.C. Closer Location in FL512 Header for 105° Swing



SLIDE CHANNEL LOCATION IN DOOR TOP RAIL FOR OFFSET ARM



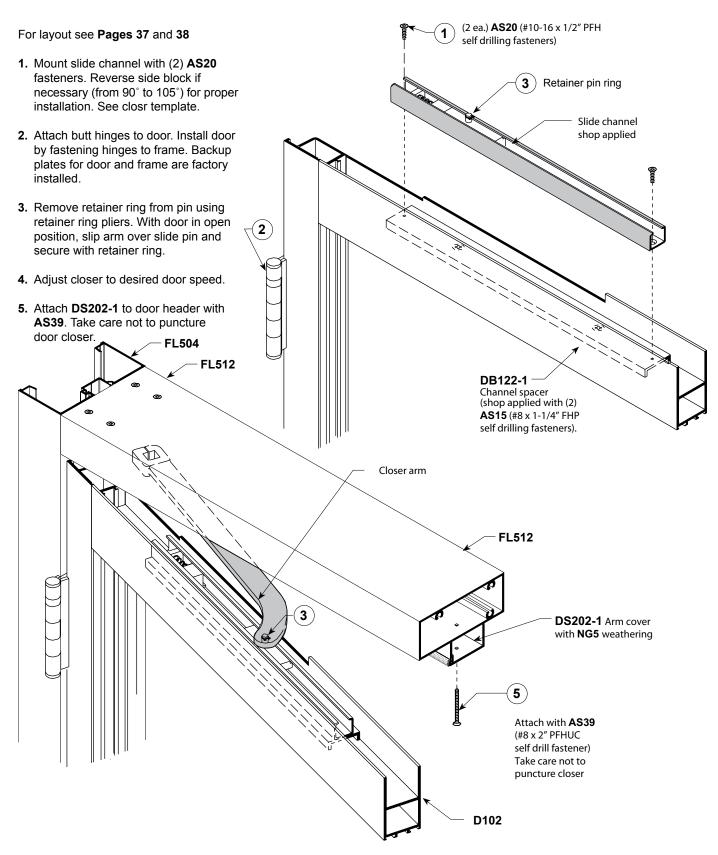
OFF-SET ARM COVER CHANNEL LEFT HAND SHOWN RIGHT HAND OPPOSITE







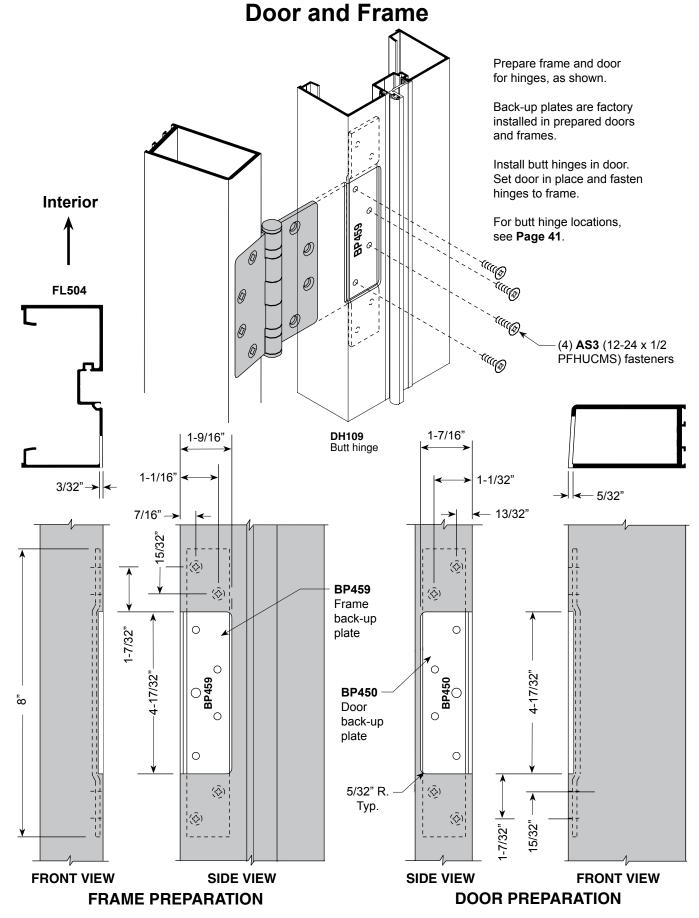
BUTT HINGE DOOR WITH JACKSON C.O.C. FOR 105° SWING





BUTT HINGE INSTALLATION

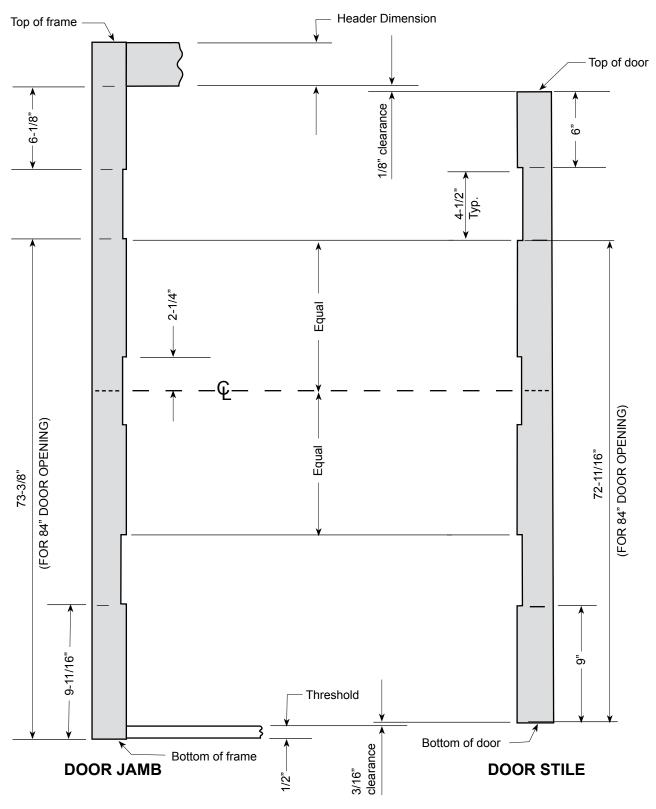








STANDARD DH109 BUTT HINGE LOCATION For F5 Frame and Series 381 Door

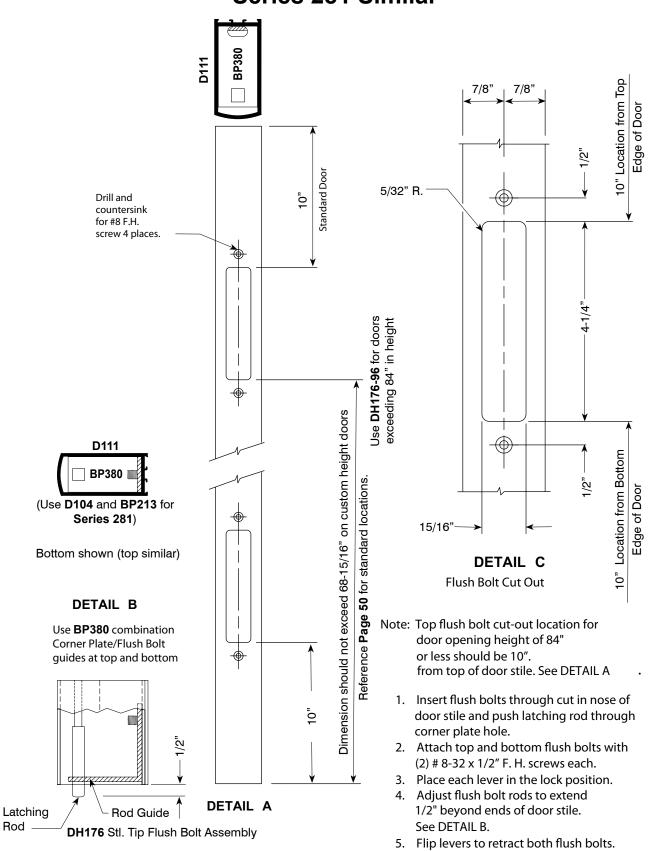


Note: Reference **Page 50** for other standard hardware locations.



FLUSH BOLTS Series 381 Inactive Leaf Shown Series 281 Similar

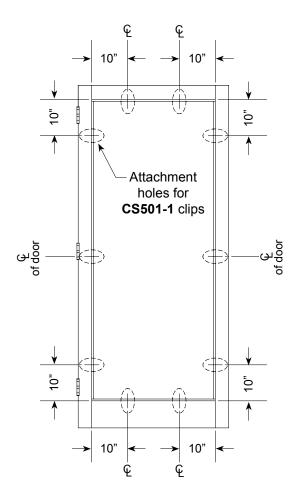








Series 281 and 381 Doors ATTACHMENT LOCATIONS For CS501-1 Glass Stop Clip



CS501-1 Glass Stop Clip Attachment for 84" or 96" Door Height

- 1. Position DG501-1 with NG13 spacer gasket as instructed on Page 44.
- 2. Positon CS501-1 clips as shown above and attach with AS7 fasteners. Reference Detail A on Page 44.





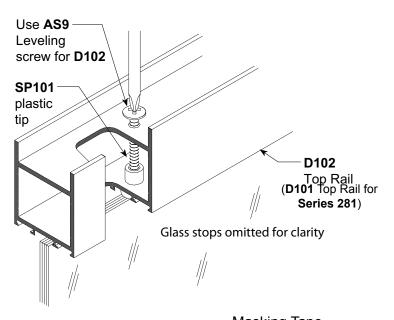
SERIES 381 DOOR GLAZING INSTRUCTIONS

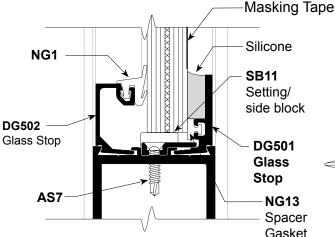
- 1. Raise leveling screw to maximum retracted position.
- 2. **DG501** glass stop may be installed on either interior or exterior side of door. It is recommended that **DG501** be installed on the interior side of doors receiving panic devices to allow for re-glazing without removing the panic bars.
- 3. Determine side of door you desire to place **DG501** and secure with **CS501-1** anchor clips. Match drill holes in stop into door and attach as shown below in **Detail "A"** with **AS7**.
- 4. Position SB11 setting/side blocks in locations as shown.
- 5. Center glass into opening on setting blocks and align with side blocks.
- **6.** Once the glass is in the correct position, lightly screw the glass jack down on top of the glass to create a uniform clearance between the top rail and header.

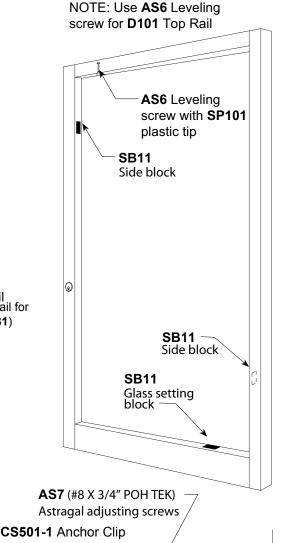
SP100

Spring

- 7. Adjust astragal screws for proper clearance between meeting stiles.
- **8.** Install horizontal **DG502** glass stops first. Now install the vertical **DG502** glass stops.
- 9. Roll NG1 gasket into DG502.
- 10. Mask off glass with 2" wide low adhesive masking tape and apply Dow 995 sealant into the cavity between the glass and DG501 glass stop. Remove masking tape immediately after installation of sealant taking care not to damage or pull sealant from the cavity.





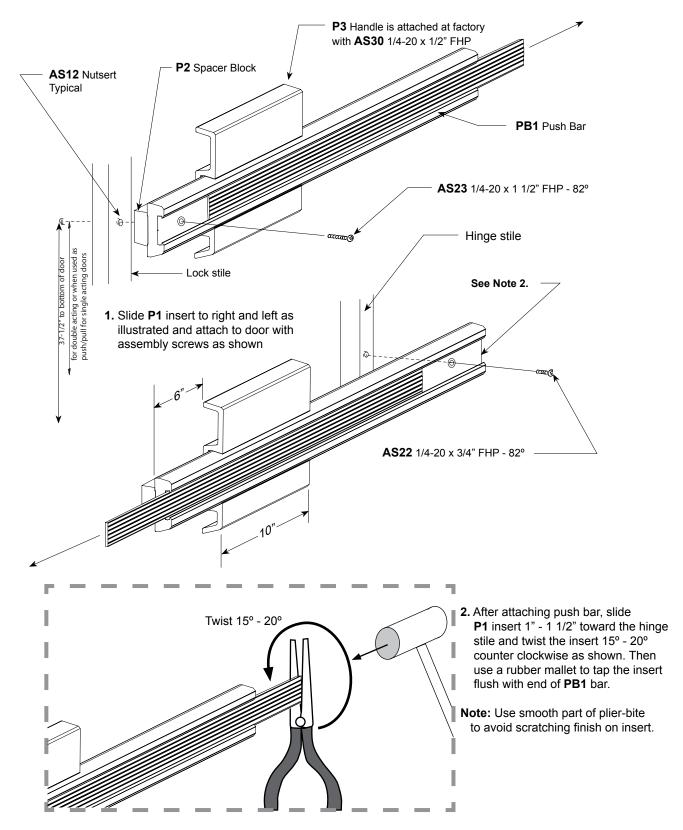






CANCILLECLASSIC

INSTRUCTIONS FOR ATTACHING DH300 SERIES PUSH BAR WITH P1 INSERT TO DOOR

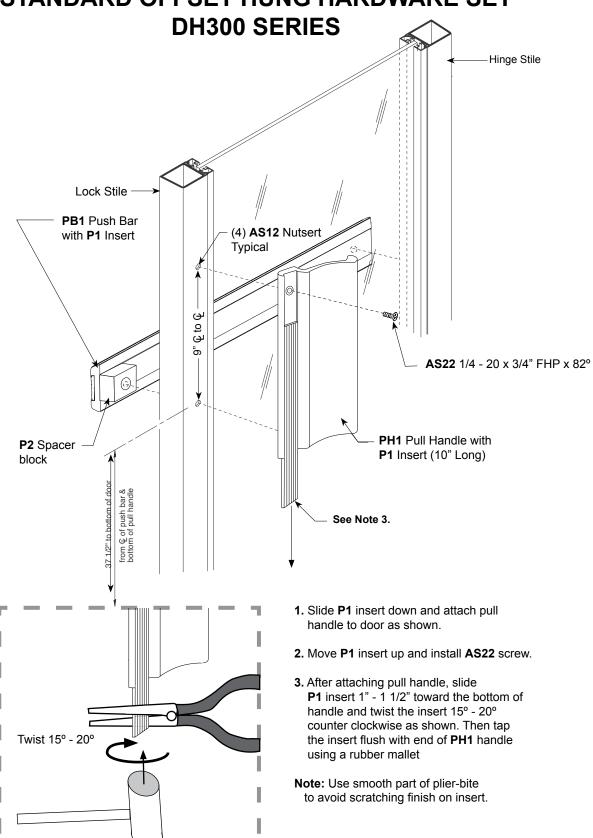






CANCELLASSIC

STANDARD OFFSET HUNG HARDWARE SET

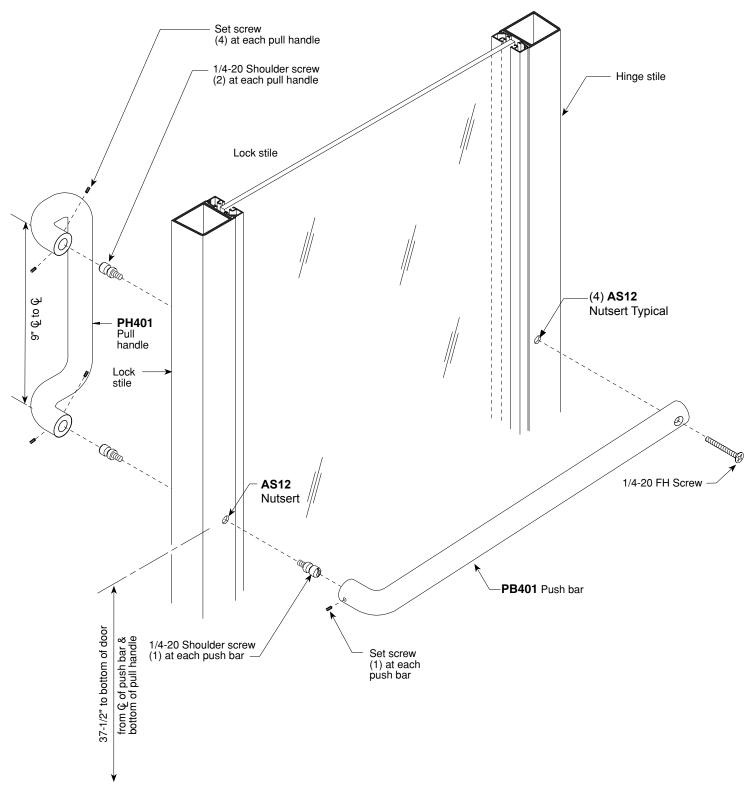






CANCETVI FTRADITIONAL

OFFSET HUNG DOOR HARDWARE SET DH400 (OPTIONAL)



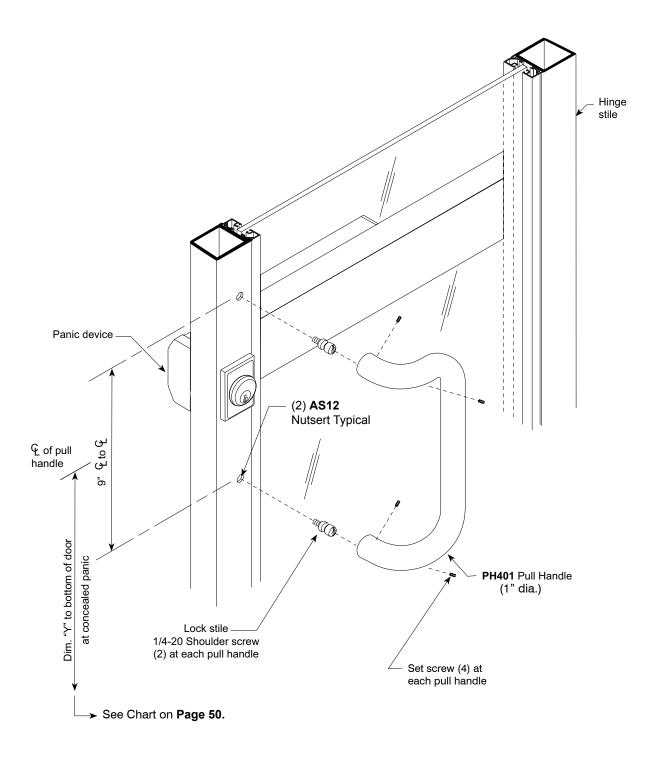




CAPSTYLE TRADITIONAL

PULL HARDWARE SET FOR PANIC DOOR

DH40P (STANDARD FOR PANIC DOORS)



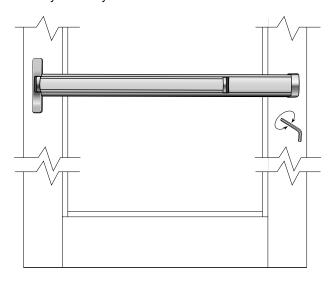




PANIC DOORS WITH DH2086HR PUSH PAD EXIT DEVICE with Optional Dogging Feature

Concealed panic device is factory installed with Hurricane-Impact rod guides.

Panic is shipped in dogged position and must be undogged. This can be done with the use of an allen wrench (supplied) or the cylinder key.



Dogging Instructions:

To dog: Depress panic bar, hold down and turn

dogging key 1/4 clockwise.

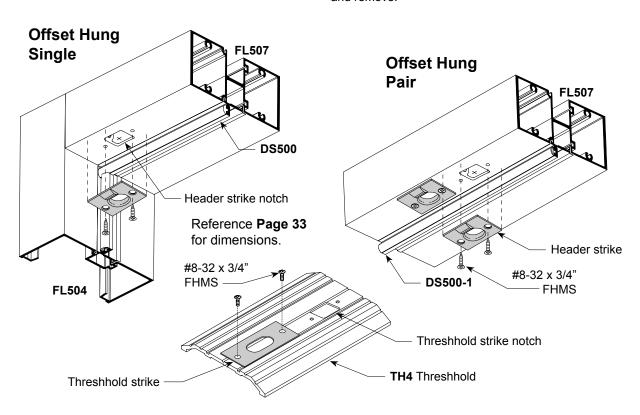
To undog: Turn dogging key counterclockwise.

Installation Procedure

- Hang door, as required. The clearance between top of door and bottom of header must not exceed 1/8".
- 2. Undog panic.
- **3. Note:** Panic devices are preset at the factory. Due to various field conditions, they may require minor adjustment.

Outside Key Functions

The **DH2086HR** panic is factory installed for key entry with dogging key option. To key dog device for continued outside entry, hold bar in fully depressed position and turn key approximately one quarter turn clockwise; then, return key to vertical position and remove. To lock door again, fully depress bar and turn key approximately one quarter turn counter clockwise; then return key to vertical position and remove.

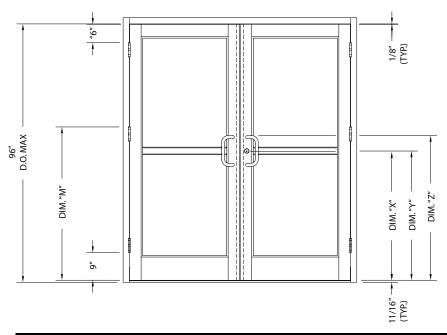






STANDARD HARDWARE LOCATIONS

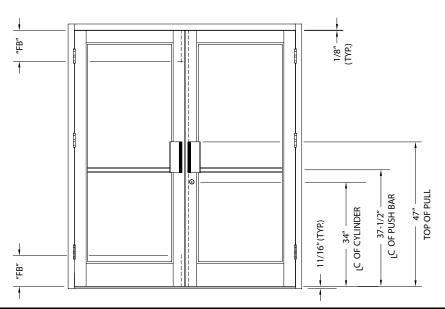
Series 381 and 281 Hurricane Impact-Resistant Doors



INTERMEDIATE HINGE				
D.O. HEIGHT	DIM. "M" BUTT HUNG			
84"	45-11/32"			
96"	51-11/32"			

Note: All doors require an intermediate hinge.

HARDWARE LOCATIONS FOR PANIC DOORS								
MANUFACTURER	PANIC DEVICE	DIM "X" ♀ OF CYLINDER	DIM "Y" & OF PANIC	DIM "Z" TOP OF PULL				
JACKSON	2086 C.V.R.	37 - 7/8"	38 - 5/32"	42 - 7/8"				



STANDARD HARDWARE LOCATIONS, LOCK & FLUSH BOLT				
PART NO.	DESCRIPTION	DIM. "FB"		
DH176-96	TOP FLUSH BOLT (FOR 96" DOOR)	22"		
DH176	TOP FLUSH BOLT (FOR 84" DOOR)	10"		
DH176	BOTTOM FLUSH BOLT (FOR 84" / 96" DOOR)	10"		



TYP. INSTALLATION INTO: 2,500 PSI CONCRETE SUBSTRATE

3/8" X 4-1 EMBEDMENT

 \boxtimes X 6" MIN. SPACING @ 3/8"ø TAPCON 3" MIN. SPACING @ 1/4"ø TAPCON

1/4" X 2-1/2" PFH TAPCON, MIN. EMBEDMENT LENGTH OF MULLION 3/8" X 2-1/2" LDT, 2" MIN. EMBEDMENT

MAX. DESIGN PRESSURE: +70/80 P.S.F.



42" .. D.O.W.

MAX.

84" MAX. D.O.W.

60" MAX

MAX. D.O.W.

4"(TYP.) —

◁

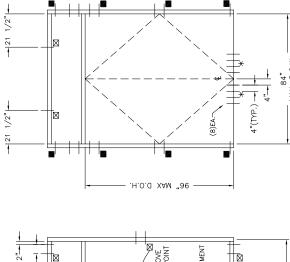
PERIMETER FASTENER LOCATIONS

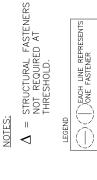
CONCRETE SUBSTRATE MIN. 2,500 P.S.I. TYPICAL INSTALLATION INTO:

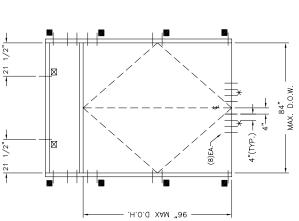


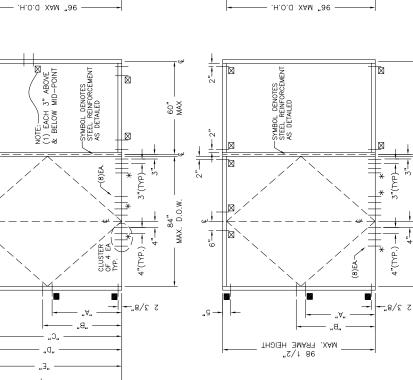
					\perp
ONS	DOOR ANCHOR LOCATIONS FOR "LETTER" DIM.	"Ł"	.36	106"	
CAI		"Е"	68	100"	
בי בי		"D"	82"	94"	
T T		"C"	76"	88"	
FAS		"B"	51"	51"	
T T T		\	45"	45"	
Z Z Z	DOOR OPENING	HEIGHT	8	.96	











42" :. D.O.W.

MAX.

◁



3/8"-16 X 3 1/2" HWH TYPE FILLER PLATE FULL LENGTH OF

MULLION 3/8"-16 X 1 1/2" HWH ⁻ SCREW



PERIMETER FASTENER LOCATIONS



\boxtimes X 106" 95, 100" .68 82, 94" 76" 88 51, 51" 45" 45, 84" .96



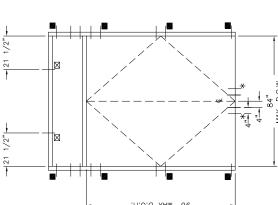
MAX. DESIGN PRESSURE: +70/80 P.S.F.

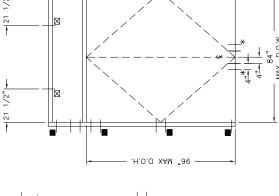
뉥 TYPE

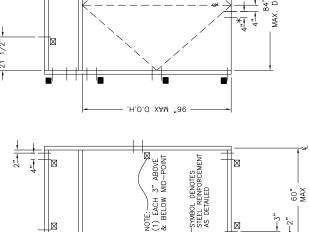
#3

1/2" PFH SPACING











42" MAX. D.O.W.

◁

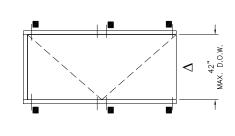
-″8/ε ઽ

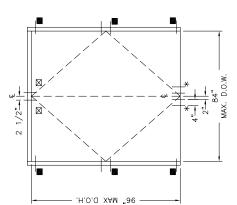
"В"

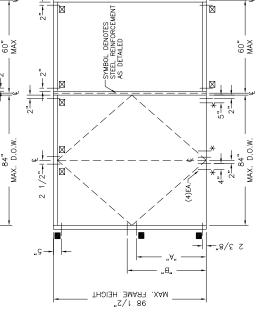
120 3/8" MAX. FRAME HEIGHT

NOTES: П

 \triangleleft







-- | 21 1/2"

2"-

ⅳ

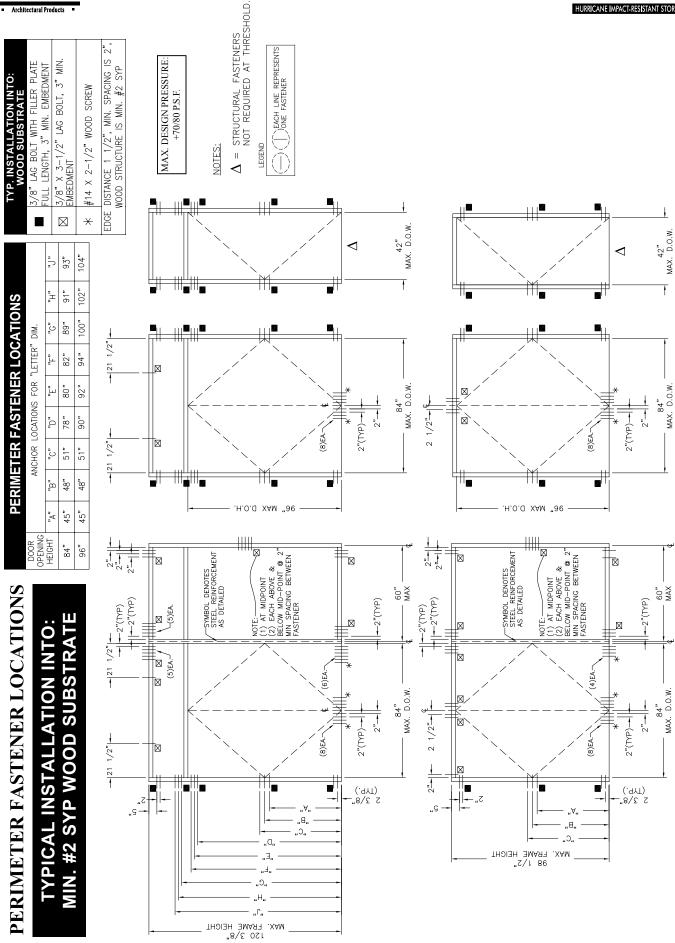
 \boxtimes

"G-





TYPICAL INSTALLATION INTO:

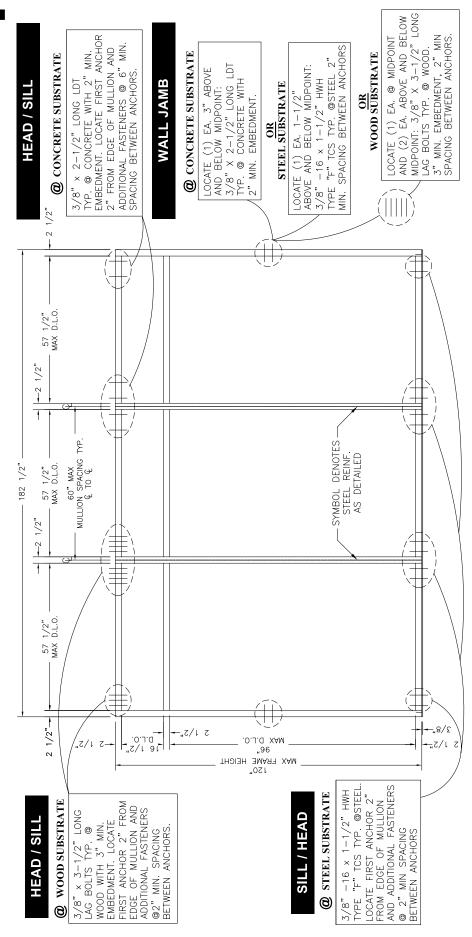






PERIMETER FASTENER LOCATIONS TYPICAL ATTACHMENT TO: WOOD/STEEL/CONCRETE SUBSTRATE

BASED ON 2500 P.S.I. CONCRETE



TYPICAL ELEVATION LIGHT ALUM. MULLION WITH STEEL REINFORCEMENT-LONG SPAN

NOTE: WOOD STRUCTURE: MIN. #2 SYP.

() EACH LINE REPRESENTS () ONE FASTENER

EGEND

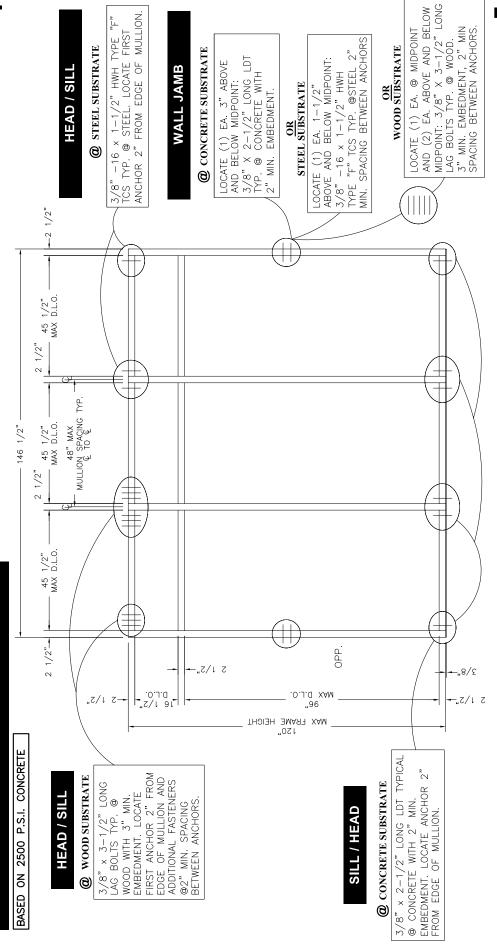
DESIGN PRESSURE +70/-80 PSF





PERIMETER FASTENER LOCATIONS

TYPICAL ATTACHMENT TO: WOOD/STEEL/CONCRETE SUBSTRATE



) (() EACH LINE REPRESENTS

EGEND

TYPICAL ELEVATION HEAVY ALUM. MULLION WITHOUT STEEL

- LONG SPAN -

NOTE: WOOD STRUCTURE: MIN. #2 SYP.

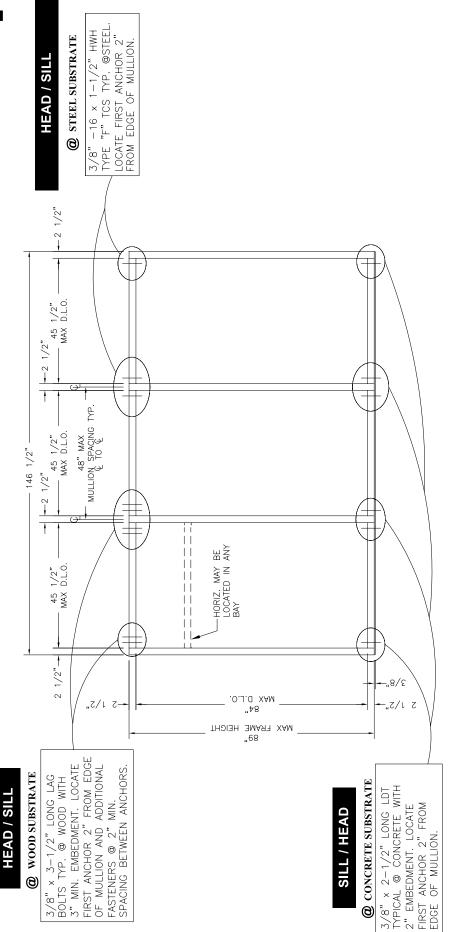
DESIGN PRESSURE +60/-60 PSF



PERIMETER FASTENER LOCATIONS

WOOD/STEEL/CONCRETE SUBSTRATE TYPICAL ATTACHMENT TO:

BASED ON 2500 P.S.I. CONCRETE



TYPICAL ELEVATION LIGHT ALUM. MULLION WITHOUT STEEL REINFORCEMENT

-SHORT SPAN-

() EACH LINE REPRESENTS

SYP.

NOTE: WOOD STRUCTURE: MIN. #2

DESIGN PRESSURE +65/-65 PSF