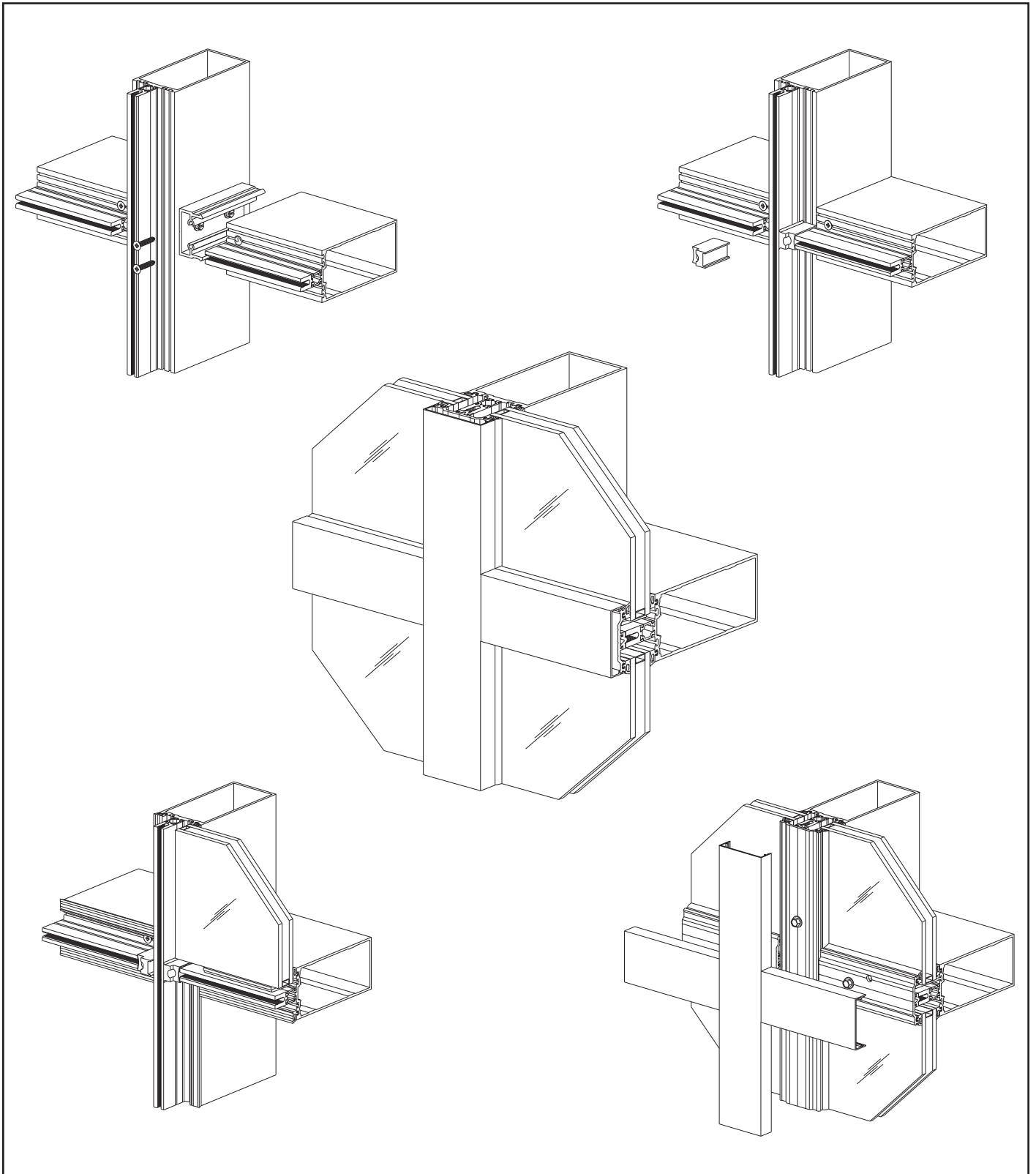


YCW 750 XT High Performance Curtain Wall System



Installation Manual

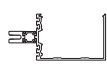

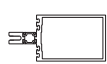

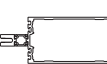



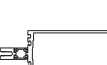
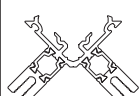


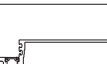








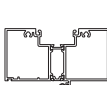

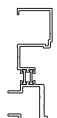
TABLE OF CONTENTS

Installation Notes	Page ii
PARTS DESCRIPTION	
YCW 750 XT Framing Members / Accessories.....	Page 1 to 12
FRAME FABRICATION	
Vapor Barrier	Page 13
Anchoring Methods/Framing Types.....	Pages 14 & 15
Fabricate Vertical Mullions	Pages 16 & 17
Using Steel Reinforcing	Page 18
Attach Shear Blocks/Clips for Horizontals	Page 19
Attach “J” Anchors	Page 20
Fabricate Horizontal Members	Pages 21 & 22
Fabricate Pressure Plates	Pages 23
Fabricate Face Covers	Page 24
Fabricate Sill Flashing	Page 25
FRAME INSTALLATION	
Typical Vertical Splice	Pages 26 & 27
Install Continuous Perimeter Anchor	Page 28
Jamb / Vertical Installation with Perimeter Anchors	Page 29
Jamb / Vertical Installation with Mullion End Anchors.....	Pages 30 & 31
Install Wind Load/Dead Load Anchors	Pages 32 to 34
Attach Horizontal Members	Pages 35 to 37
Install Door Subframes	Page 38
Apply Perimeter Sealant.....	Page 39
Install Sill Flashing.....	Pages 40 & 41
Install Joint Plugs.....	Page 42
GLAZING	
Install Glazing Adaptors.....	Page 43
Install Interior Glazing Gaskets	Page 44
Install Setting & Side Blocks	Pages 45 & 46
Install Exterior Glazing Gaskets	Page 47
Install Glass	Page 47
Pressure Plate Layout and Assembly	Page 48
Install Exterior Face Covers	Page 49
DOOR SUBFRAME INSTALLATION	
Fasten Door Subframe at Transom.....	Page 50

Installation Notes





1. Do not drop, roll or drag boxes of aluminum framing. Move and stack boxes with proper support to prevent distortion. If fork lifts are used, be especially careful about striking the boxes when lifting or moving.
2. Store in a dry, out of the way area. If rain exposure, condensation or any water contact is likely, then all packaging material should be removed. Wet packaging materials will discolor and may stain aluminum finishes and paints.
3. All materials should be checked for quality and quantity upon receipt, YKK AP must be notified immediately of any discrepancies in shipment. Check to make sure that you have the required shims, sealants, supplies and tools necessary for the installation.
4. Carefully check the openings and surrounding conditions that will receive your material. Remember, if the construction is not per the construction documents, it is your responsibility to notify the general contractor in writing. Any discrepancies must be brought to the general contractor's attention before you proceed with the installation.
5. Gather your shop drawings, materials, packing list, and this installation manual. Carefully review parts location, the sequence it goes therein, when you glaze it and how you seal it. Installation instructions are of a general nature and may not cover every condition you will encounter. The shop drawings and/or installation manuals were prepared specifically for the product.
6. Any material substitutions must be of equal or greater quality.
7. Make certain that material samples have been sent for compatibility testing for all manufacturer's sealants involved. Make certain sealants have been installed in strict accordance with the manufacturer's recommendations and specifications.
8. Remember to isolate, in an approved manner, all aluminum from uncured masonry or other incompatible materials.
9. System-to-structure fasteners are not supplied by YKK AP. Fasteners called out on shop drawings are to indicate minimum sizes for design loading.
10. Please contact the YKK AP DirecTech application engineering department for any project specific condition not covered by these instructions.
11. YKK AP storefront and/or curtain wall framing is typically completed before drywall, flooring and other products which may still be in process. Take the extra time to wrap and protect the work produced.
12. Cutting tolerances are plus zero, minus one thirty second unless otherwise noted.
13. Check our website, www.ykkap.com, for the latest installation manual update prior to commencing work.

FRAMING MEMBERS (1" GLAZING)









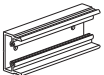
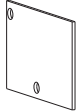






	Horizontal 2-1/2" x 3-3/4"	BE9-3948		Flush Filler Use With BE9-3904	E9-3162
	Jamb / Mullion / Horizontal 2-1/2" x 3-3/4"	BE9-3942		Flush Filler Use With BE9-3914	E9-8489
	Horizontal 2-1/2" x 5-1/4"	BE9-3910		Standard Pressure Plate E9-3906 with EPDM Isolator Drilled 9" O.C.	AS-3906
	Head / Sill / Horizontal 2-1/2" x 5-1/4"	BE9-3904		Perimeter Pressure Plate E9-3907 with EPDM Isolator Drilled 9" O.C.	AS-3907
	Jamb / Mullion / Horizontal 2-1/2" x 5-1/4"	BE9-3901		Corner Adaptor	BE9-3912
	Head / Sill / Horizontal 2-1/2" x 6-3/4"	BE9-3914		Face Cover 2-1/2" x 3/4"	E9-1206
	Jamb / Mullion / Horizontal 2-1/2" x 6-3/4"	BE9-3916		90° Outside Corner Interior Cover Base Use with E9-1281	E9-1280
	Outside Corner Mullion 2-1/2" x 3-3/4"	E9-1250		90° Outside Corner Interior Cover For 5-1/4" Back Depth Only	E9-1281
	Outside Corner Mullion 2-1/2" x 5-1/4"	E9-1246		90° Outside Corner Interior Cover Base Use with E9-7762	E9-3556
	Outside Corner Mullion 2-1/2" x 8-1/4"	E9-8121		90° Outside Corner Interior Cover For 8-1/4" Back Depth Only	E9-7762
	Sill Flashing	BE9-3918		Single Acting Transom Bar Elastomer Weathering E2-0051 Included	AS-1532
	Flush Filler Use With BE9-3948	E9-3595		Door Jamb Use with BE9-1533	BE9-3650

*Splay mullions and other face covers are available, contact YKK AP.









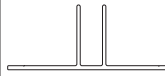

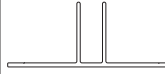

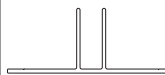

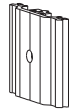




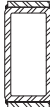
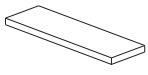

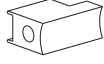
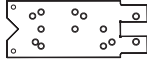
FRAMING MEMBERS (1" GLAZING)

	Glazing Adaptor For 1/4" Glazing	E9-1220		Perimeter Anchor	E9-1223
	Door Stop Elastomer Weathering E2-0051 Included Use with BE9-3650	AS-1533		Perimeter Channel	E9-1231




















ACCESSORIES (1" GLAZING)

	"J" Anchor For 3-3/4" Depth Members	E1-3501		Mullion Joint Sleeve For BE9-3901	E1-1210
	"J" Anchor For 5-1/4" Depth Members	E1-3502		Mullion Joint Sleeve For BE9-3916	E1-1365
	Standard Shear Block For 3-3/4" Depth Members	E1-3503		Face Cover Splice Sleeve For E9-1206 Face Cover	E1-1202
	Standard Shear Block For 5-1/4" Depth Members	E1-3504		Standard Mullion End Cap 2-1/2" x 2-3/8" x 0.050"	E1-3605
	Standard Shear Block For 6-3/4" Depth Members	E1-3506		Sill Flashing End Dam 2.157" x 1-3/8" x 0.050"	E1-3611
	90° Outside Corner Shear Block For 5-1/4" Depth Members	E1-3504A		Corner Mullion End Cap	E1-3608
	Setting Block Chair	E1-3603		Intermediate Vertical "T" End Anchor* For BE9-3942	E1-1223
	Mullion Joint Sleeve For BE9-3942	E1-1211		Intermediate Vertical "T" End Anchor* For BE9-3901 & E9-3401	E1-1222

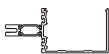

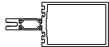




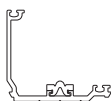

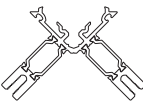











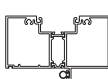


ACCESSORIES (1" GLAZING)

	Intermediate Vertical "T" End Anchor* For BE9-3916	E1-3601		End Dam Plug Used with E9-1223 Perimeter Anchor	E2-0505
	Jamb "F" End Anchor* For BE9-3942	E1-1235		Structural Tape	E2-0679
	Jamb "F" End Anchor* For BE9-3901	E1-1234		Nylon Slip Pad For Wind Load & Dead Load Anchor	E3-0103
	Jamb "F" End Anchor* For BE9-3916	E1-3602		Wind Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1204
	Corner "T" End Anchor For 3-3/4" Depth Members	E1-1207A		Dead Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1205
	Corner "T" End Anchor For 5-1/4" Depth Members	E1-1222A		Interior/Exterior Glazing Gasket	E2-0120
	Corner "T" End Anchor For 8-1/4" Depth Members	E1-3571A		Sill Flashing Gasket	E2-0241
	Temporary Glass Retainer 2" Long	E1-3612		Corner Condition Gasket	E2-0354
	Setting Block For 1" Glazing	E2-0513		Steel Reinforcing 2" x 4" x 1/4" Steel Tube For BE9-3901 & BE9-3916	E1-0162
	Setting Block For 1/4" Glazing	E2-0192		Steel Reinforcing 2" x 4" x 1/4" Steel Tube & (2) 1/4" x 1-3/4" Steel Bars For BE9-3901 & BE9-3916	E1-0154
	Side Block With pressure sensitive adhesive	E2-0133		Jamb Anchor Plate 3" x 6" x 5/16" Thk.	E1-3536
	Standard Joint Plug For 1" Glazing	E2-3603		Drill Fixture	H-7210

ACCESSORIES (1" GLAZING)




	#12 x 3/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Corner Shear Block	FC-1212		1/4"-20 x 3-1/2" HWHMS Zinc Plated Steel For Attachment of "J" Anchor at Intermediate Vertical	HM-2556-W3
	#12 x 1-1/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Shear Block	FC-1220		1/2"-13 x 2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Jamb	HM-5032
	#14 x 5/8" FHSMS Type AB Zinc Plated Steel For Attachment of Mullion End Caps	FC-1410		1/2"-13 x 4-1/2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Mullion	HM-5072
	#8 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Glazing Adaptor E9-1220	PC-0810		1/2"-13 Nut HHMS Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	HM-5000
	#10 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Sill Flashing BE9-3918	PC-1010		1/4"-20 Nut HHMS Zinc Plated Steel For Attachment of "J" Anchor	HM-2500
	#8 x 1/2" PHSMS Type F Stainless Steel, For Attachment of Splice Sleeve Face Covers	PF-0808-SS		1/4" Flat Washer Zinc Plated Steel For Attachment of "J" Anchor	WW-2500
	1/4"-20 x 5/8" HWHS Type F Zinc Plated Steel For Attachment of Standard Shear Block to Vertical	HF-2510-W1		1/2" Flat Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WW-5000
	1/4"-20 x 1" HWHS Type F , Zinc Plated Steel, For Attachment of Standard Shear Block to Vertical with Steel Reinforcing	HF-2516-W1		1/2" Lock Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WS-5000
	1/4"-20 x 1" HWHMS Type CA Zinc Plated Steel For Attachment of Pressure Plate to Mullion	HD-2516-W3		1/4" Lock Washer Zinc Plated Steel For Attachment of "J" Anchor	WS-2500
	1/4"-20 x 1-1/4" HWHMS Zinc Plated Steel, For Attachment of 90° Outside Corner Adaptor to Vertical	HM-2520-W3			

FRAMING MEMBERS (1-1/2" GLAZING)









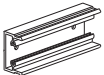
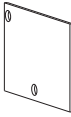






	Horizontal 2-1/2" x 3-3/4"	BE9-3950		Flush Filler Use With BE9-3924	E9-3162
	Jamb / Mullion / Horizontal 2-1/2" x 3-3/4"	BE9-3949		Flush Filler Use With BE9-3932	E9-8489
	Horizontal 2-1/2" x 5-1/4"	BE9-3923		Standard Pressure Plate E9-3906 with PVC Isolator Punched 9" O.C.	AS-3906
	Head / Sill / Horizontal 2-1/2" x 5-1/4"	BE9-3924		Perimeter Pressure Plate E9-3907 with PVC Isolator Punched 9" O.C.	AS-3920
	Jamb / Mullion / Horizontal 2-1/2" x 5-1/4"	BE9-3922		Corner Adaptor	BE9-3931
	Head / Sill / Horizontal 2-1/2" x 6-3/4"	BE9-3932		Face Cover 2-1/2" x 3/4"	E9-1206
	Jamb / Mullion / Horizontal 2-1/2" x 6-3/4"	BE9-3933		90° Outside Corner Interior Cover Base Use with E9-1281	E9-1280
	Outside Corner Mullion 2-1/2" x 3-3/4"	E9-1250		90° Outside Corner Interior Cover For 5-1/4" Back Depth Only	E9-1281
	Outside Corner Mullion 2-1/2" x 5-1/4"	E9-1246		90° Outside Corner Interior Cover Base Use with E9-7762	E9-3556
	Outside Corner Mullion 2-1/2" x 8-1/4"	E9-8121		90° Outside Corner Interior Cover For 3-3/4" & 8-1/4" Back Depth Only	E9-7762
	Sill Flashing	BE9-3918		Single Acting Transom Bar Elastomer Weathering E2-0051 Included	AS-1532
	Flush Filler Use With BE9-3950	E9-3595		Door Jamb Use with BE9-1533	BE9-3650

* Splay mullions and other face covers are available, contact YKK AP.




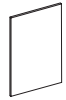










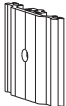


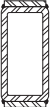


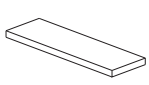
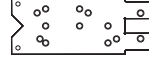


FRAMING MEMBERS (1-1/2" GLAZING)

	Glazing Adaptor For 1/4" Glazing	E9-3936		Glazing Pocket Flush Filler E9-3934
	Door Stop Elastomer Weathering E2-0051 Included Use with BE9-3650	BE9-1533		




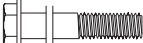












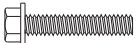

ACCESSORIES (1-1/2" GLAZING)

	"J" Anchor For 3-3/4" Depth Members	E1-3501		Mullion Joint Sleeve For BE9-3922	E1-1210
	"J" Anchor For 5-1/4" Depth Members	E1-3502		Mullion Joint Sleeve For BE9-3933	E1-1365
	Standard Shear Block For 3-3/4" Depth Members	E1-3503		Face Cover Splice Sleeve For E9-1206 Face Cover	E1-1202
	Standard Shear Block For 5-1/4" Depth Members	E1-3504		Standard Mullion End Cap 2-1/2" x 2-7/8" x 0.050"	E1-3606
	Standard Shear Block For 6-3/4" Depth Members	E1-3506		Sill Flashing End Dam 2.157" x 1-3/8" x 0.050"	E1-3611
	90° Outside Corner Shear Block For 5-1/4" Depth Members	E1-3504A		Corner Mullion End Cap	E1-3609
	Setting Block Chair	E1-3604		Intermediate Vertical "T" End Anchor* For BE9-3949	E1-1223
	Mullion Joint Sleeve For BE9-3949	E1-1211		Intermediate Vertical "T" End Anchor* For BE9-3922	E1-1222



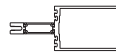

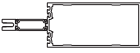


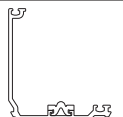
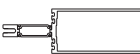
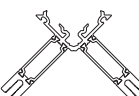


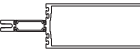








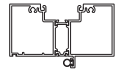


ACCESSORIES (1-1/2" GLAZING)

	Intermediate Vertical "T" End Anchor* For BE9-3933	E1-3601		Structural Tape	E2-0679
	Jamb "F" End Anchor* For BE9-3949	E1-1235		Nylon Slip Pad For Wind Load & Dead Load Anchor	E3-0103
	Jamb "F" End Anchor* For BE9-3922	E1-1234		Wind Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1204
	Jamb "F" End Anchor* For BE9-3933	E1-3602		Dead Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1205
	Corner "T" End Anchor For 3-3/4" Depth Members	E1-1207A		Interior/Exterior Glazing Gasket	E2-0120
	Corner "T" End Anchor For 5-1/4" Depth Members	E1-1222A		Sill Flashing Gasket	E2-0241
	Corner "T" End Anchor For 8-1/4" Depth Members	E1-3571A		Corner Condition Gasket	E2-0354
	Temporary Glass Retainer 2" Long	E1-3612		Steel Reinforcing 2" x 4" x 1/4" Steel Tube For BE9-3922 & BE9-3933	E1-0162
	Setting Block For 1-1/2" Glazing	E2-3601		Steel Reinforcing 2" x 4" x 1/4" Steel Tube & (2) 1/4" x 1-3/4" Steel Bars For BE9-3922 & BE9-3933	E1-0154
	Setting Block For 1/4" Glazing	E2-0192		Jamb Anchor Plate 3" x 6" x 5/16" Thk.	E1-3536
	Side Block With pressure sensitive adhesive	E2-0133		Drill Fixture	H-7210
	Standard Joint Plug For 1-1/2" Glazing	E2-3604		#12 x 3/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Corner Shear Block	FC-1212

ACCESSORIES (1-1/2" GLAZING)




	#12 x 1-1/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Shear Block	FC-1220		1/4"-20 x 3-1/2" HWHMS Zinc Plated Steel For Attachment of "J" Anchor at Intermediate Vertical	HM-2556-W3
	#14 x 5/8" FHSMS Type AB Zinc Plated Steel For Attachment of Mullion End Caps	FC-1410		1/2"-13 x 2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Jamb	HM-5032
	#8 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Glazing Adaptor E9-1220	PC-0810		1/2"-13 x 4-1/2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Mullion	HM-5072
	#10 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Sill Flashing BE9-3918	PC-1010		1/2"-13 Nut HHMS Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	HM-5000
	#8 x 1/2" PHSMS Type F Stainless Steel, For Attachment of Splice Sleeve Face Covers	PF-0808-SS		1/4"-20 Nut HHMS Zinc Plated Steel For Attachment of "J" Anchor	HM-2500
	1/4"-20 x 5/8" HWHS Type F Zinc Plated Steel For Attachment of Standard Shear Block to Vertical	HF-2510-W1		1/4" Flat Washer Zinc Plated Steel For Attachment of "J" Anchor	WW-2500
	1/4"-20 x 1" HWHS Type F , Zinc Plated Steel, For Attachment of Standard Shear Block to Vertical with Steel Reinforcing	HF-2516-W1		1/2" Flat Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WW-5000
	1/4"-20 x 1" HWHMS Type CA Zinc Plated Steel For Attachment of Pressure Plate to Mullion	HD-2516-W3		1/2" Lock Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WS-5000
	1/4"-20 x 1-1/4" HWHMS Zinc Plated Steel, For Attachment of 90° Outside Corner Adaptor to Vertical	HM-2520-W3		1/4" Lock Washer Zinc Plated Steel For Attachment of "J" Anchor	WS-2500

FRAMING MEMBERS (2" GLAZING)










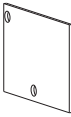


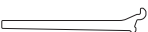
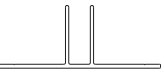

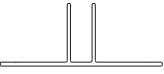
	Horizontal 2-1/2" x 3-3/4"	BE9-3944		Flush Filler Use With BE9-3927	E9-3162
	Jamb / Mullion / Horizontal 2-1/2" x 3-3/4"	BE9-3943		Flush Filler Use With BE9-3929	E9-8489
	Horizontal 2-1/2" x 5-1/4"	BE9-3926		Standard Pressure Plate E9-3906 with EPDM Isolator Drilled 9" O.C.	AS-3906
	Head / Sill / Horizontal 2-1/2" x 5-1/4"	BE9-3927		Perimeter Pressure Plate E9-3921 with EPDM Isolator Drilled 9" O.C.	AS-3921
	Jamb / Mullion / Horizontal 2-1/2" x 5-1/4"	BE9-3925		Corner Adaptor	BE9-3930
	Head / Sill / Horizontal 2-1/2" x 6-3/4"	BE9-3929		Face Cover 2-1/2" x 3/4"	E9-1206
	Jamb / Mullion / Horizontal 2-1/2" x 6-3/4"	BE9-3928		90° Outside Corner Interior Cover Base Use with E9-1281	E9-1280
	Outside Corner Mullion 2-1/2" x 3-3/4"	E9-1250		90° Outside Corner Interior Cover For 5-1/4" Back Depth Only	E9-1281
	Outside Corner Mullion 2-1/2" x 5-1/4"	E9-1246		90° Outside Corner Interior Cover Base Use with E9-7762	E9-3556
	Outside Corner Mullion 2-1/2" x 8-1/4"	E9-8121		90° Outside Corner Interior Cover For 8-1/4" Back Depth Only	E9-7762
	Sill Flashing	BE9-3918		Single Acting Transom Bar Elastomer Weathering E2-0051 Included	AS-1532
	Flush Filler Use With BE9-3944	E9-3595		Door Jamb Use with BE9-1533	BE9-1540

* Splay mullions and other face covers are available, contact YKK AP.











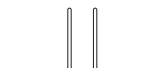



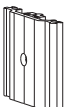


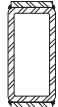






FRAMING MEMBERS (2" GLAZING)

	Glazing Adaptor For 1/4" Glazing	E9-3937		Glazing Pocket Flush Filler	E9-3935
	Door Stop Elastomer Weathering E2-0051 Included Use with BE9-3650	AS-1533			


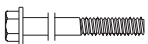

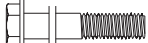

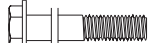












ACCESSORIES (2" GLAZING)

	"J" Anchor For 3-3/4" Depth Members	E1-3501		Mullion Joint Sleeve For BE9-3925	E1-1210
	"J" Anchor For 5-1/4" Depth Members	E1-3502		Mullion Joint Sleeve For BE9-3928	E1-1365
	Standard Shear Block For 3-3/4" Depth Members	E1-3503		Face Cover Splice Sleeve For E9-1206 Face Cover	E1-1202
	Standard Shear Block For 5-1/4" Depth Members	E1-3504		Standard Mullion End Cap 2-1/2" x 3-3/8" x 0.050"	E1-3607
	Standard Shear Block For 6-3/4" Depth Members	E1-3506		Sill Flashing End Dam 2.157" x 1-3/8" x 0.050"	E1-3611
	90° Outside Corner Shear Block For 5-1/4" Depth Members	E1-3504A		Corner Mullion End Cap	E1-3610
	Setting Block Chair	E1-3604		Intermediate Vertical "T" End Anchor* For BE9-3943	E1-1223
	Mullion Joint Sleeve For BE9-3943	E1-1211		Intermediate Vertical "T" End Anchor* For BE9-3925	E1-1222

ACCESSORIES (2" GLAZING)

	Intermediate Vertical "T" End Anchor* For BE9-3928	E1-3601		Structural Tape	E2-0679
	Jamb "F" End Anchor* For BE9-3943	E1-1235		Nylon Slip Pad For Wind Load & Dead Load Anchor	E3-0103
	Jamb "F" End Anchor* For BE9-3925	E1-1234		Wind Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1204
	Jamb "F" End Anchor* For BE9-3928	E1-3602		Dead Load Anchor* Refer to Shop Drawings For Anchor Dimensions	E1-1205
	Corner "T" End Anchor For 3-3/4" Depth Members	E1-1207A		Interior/Exterior Glazing Gasket	E2-0120
	Corner "T" End Anchor For 5-1/4" Depth Members	E1-1222A		Sill Flashing Gasket	E2-0241
	Corner "T" End Anchor For 8-1/4" Depth Members	E1-3571A		Corner Condition Gasket	E2-0354
	Temporary Glass Retainer 2" Long	E1-3612		Steel Reinforcing 2" x 4" x 1/4" Steel Tube For BE9-3901 & BE9-3916	E1-0162
	Setting Block For 2" Glazing	E2-3602		Steel Reinforcing 2" x 4" x 1/4" Steel Tube & (2) 1/4" x 1-3/4" Steel Bars For BE9-3901 & BE9-3916	E1-0154
	Setting Block For 1/4" Glazing	E2-0192		Jamb Anchor Plate 3" x 6" x 5/16" Thk.	E1-3536
	Side Block With pressure sensitive adhesive	E2-0133		Drill Fixture	H-7210
	Standard Joint Plug For 2" Glazing	E2-3605		#12 x 3/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Corner Shear Block	FC-1212

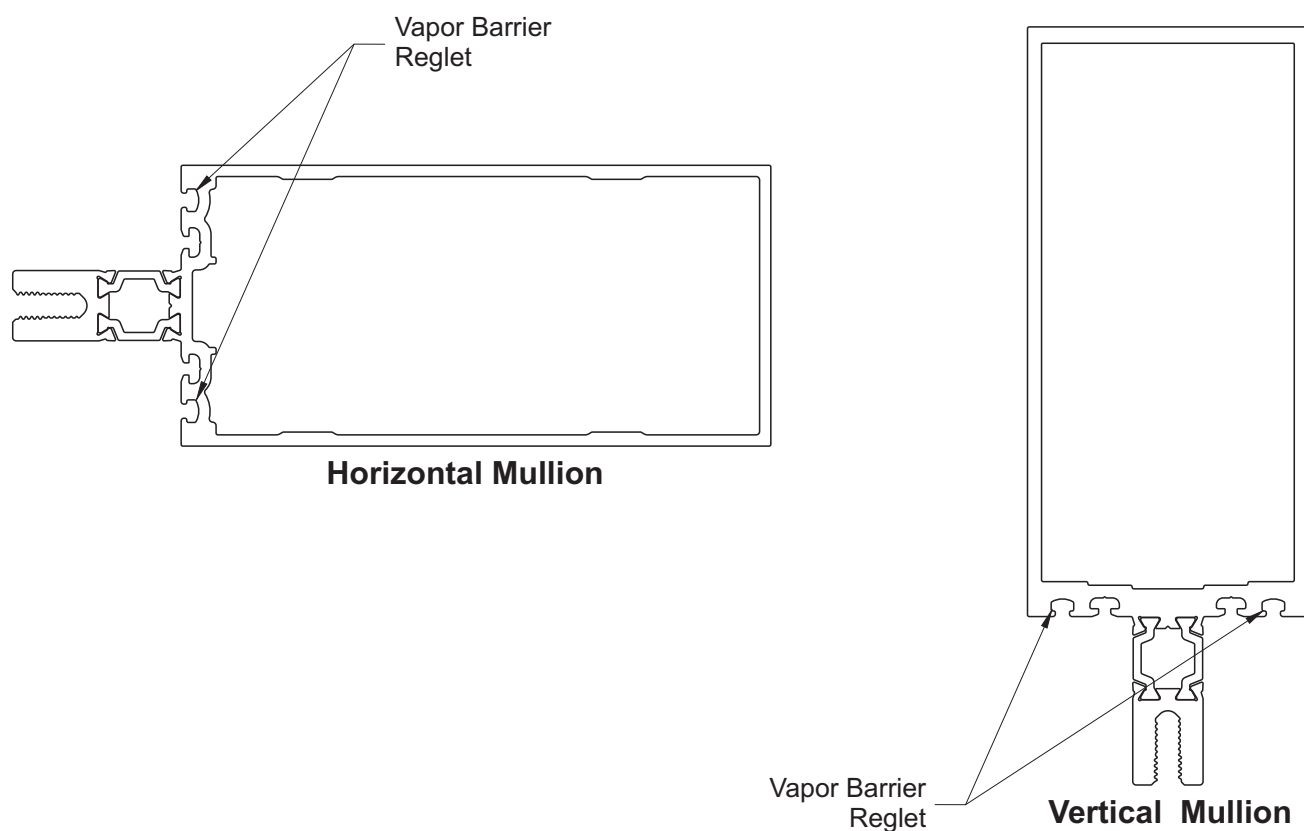
ACCESSORIES (2" GLAZING)

	#12 x 1-1/4" FHSMS Type AB Zinc Plated Steel For Attachment of Horizontal to Shear Block	FC-1220		1/4"-20 x 3-1/2" HWHMS Zinc Plated Steel For Attachment of "J" Anchor at Intermediate Vertical	HM-2556-W3
	#14 x 5/8" FHSMS Type AB Zinc Plated Steel For Attachment of Mullion End Caps	FC-1410		1/2"-13 x 2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Jamb	HM-5032
	#8 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Glazing Adaptor E9-3637	PC-0810		1/2"-13 x 4-1/2" HWHMS Zinc Plated Steel, For Attachment of Windload/ Deadload Anchor at Mullion	HM-5072
	#10 x 5/8" PHSMS Type AB Zinc Plated Steel For Attachment of Sill Flashing BE9-3918	PC-1010		1/2"-13 Nut HHMS Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	HM-5000
	#8 x 1/2" PHSMS Type F Stainless Steel, For Attachment of Splice Sleeve Face Covers	PF-0808-SS		1/4"-20 Nut HHMS Zinc Plated Steel For Attachment of "J" Anchor	HM-2500
	1/4"-20 x 5/8" HWHS Type F Zinc Plated Steel For Attachment of Standard Shear Block to Vertical	HF-2510-W1		1/4" Flat Washer Zinc Plated Steel For Attachment of "J" Anchor	WW-2500
	1/4"-20 x 1" HWHS Type F Zinc Plated Steel, For Attachment of Standard Shear Block to Vertical with Steel Reinforcing	HF-2516-W1		1/2" Flat Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WW-5000
	1/4"-20 x 1" HWHMS Type CA Zinc Plated Steel For Attachment of Pressure Plate to Mullion	HD-2516-W3		1/2" Lock Washer Zinc Plated Steel For Attachment of Mid-Anchors (Wind Load / Dead Load)	WS-5000
	1/4"-20 x 1-1/4" HWHMS Zinc Plated Steel, For Attachment of 90° Outside Corner Adaptor to Vertical	HM-2520-W3		1/4" Lock Washer Zinc Plated Steel For Attachment of "J" Anchor	WS-2500

VAPOR BARRIER

ATTACHING VAPOR BARRIER TO YCW 750 XT

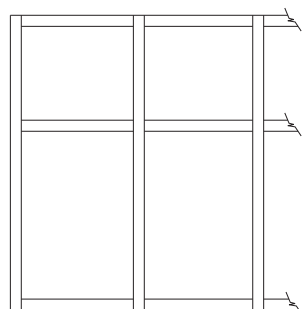
Vapor barriers can be installed to both mullions and horizontals by means of vapor barrier reglets, see image below. Please follow the vapor barrier manufacturer's installation instructions for correct installation of the vapor barrier.



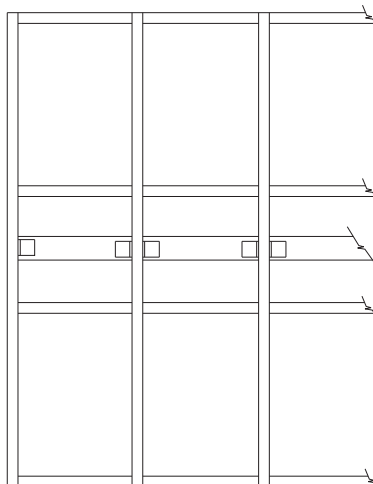
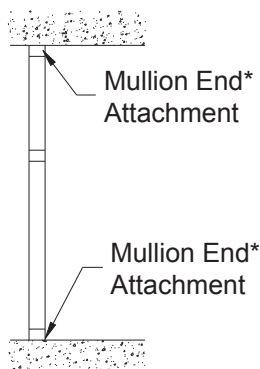
FRAME FABRICATION

FRAME TYPES / ANCHORING METHODS

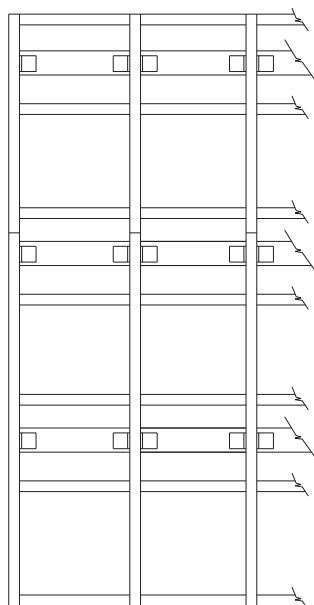
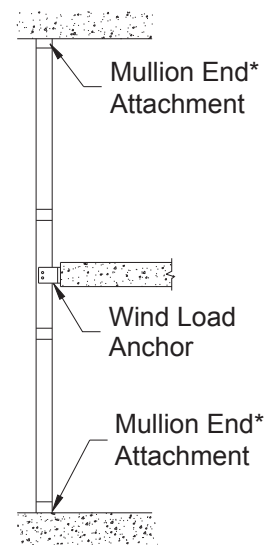
The following is a guideline for common types of frames. Refer to shop drawings for exact layout of frames.



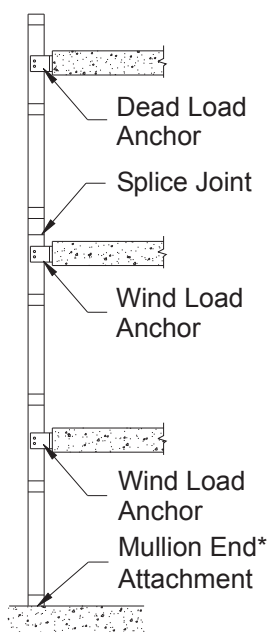
SINGLE SPAN



TWIN SPAN



MULTI-SPAN



Smaller units may be assembled on the ground and tipped in place. Larger units require being stick assembled in place.

Note: If YKK AP does not prepare the shop drawings for the project, a qualified engineer must approve all anchors, their arrangement, and mullion selection.

All anchors must be attached to structurally sound material that will accommodate the anchor reactions.

* Vertical end attachment will be continuous perimeter anchor or mullion end anchors "J", "T" or "F".

Fabrication of YCW 750 XT varies depending on the type of mullion end attachment required for a given project:

Perimeter Anchors are for low load anchoring conditions (maximum 500lb. end load reaction): E9-1248, E9-1223, & E9-1231 for 1" infill applications only.

"J" Anchors are for medium to high load conditions: E1-3501, E1-3502, & E1-3505.

"T" & "F" Anchors are for high load conditions: E1-1207, E1-1208, E1-1209, E1-1231, E1-1232, E1-1233, E1-1238, & E1-1240 (for 1" infill applications only).

FRAME FABRICATION

FRAME TYPES / ANCHORING METHODS

Using Perimeter Anchors:

-Mullions must be notched as shown in **Detail 1** on **Page-16**.

Using Mullion End Anchors:

YCW 750 XT has three possible end anchoring conditions: "J", "T", and "F".

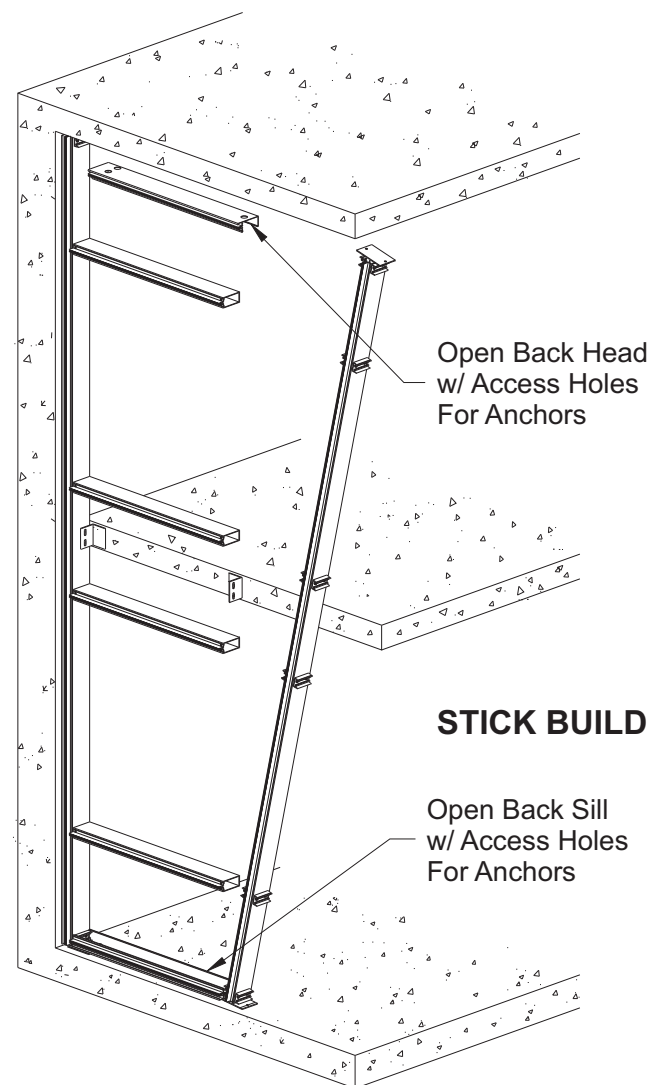
- "J" anchors are used with jambs and intermediate mullions at the sill only.
- "T" anchors are used with intermediate mullions at the head and sill.
- "F" anchors are used with jamb mullions at the head and sill.
- "Door Jamb" anchors are used with mullions at a door jamb and are specified by the approved shop drawings or P.E. calcs.
- Anchor usage depends on end reaction, stress, and attachment.

Mullions should be pre-assembled with shear blocks/clips, end anchors, and steel or aluminum reinforcing if necessary. End anchors should be pre-drilled for anchor fasteners according to approved shop drawings or engineering calculations.

Framing Members for Stick Build:

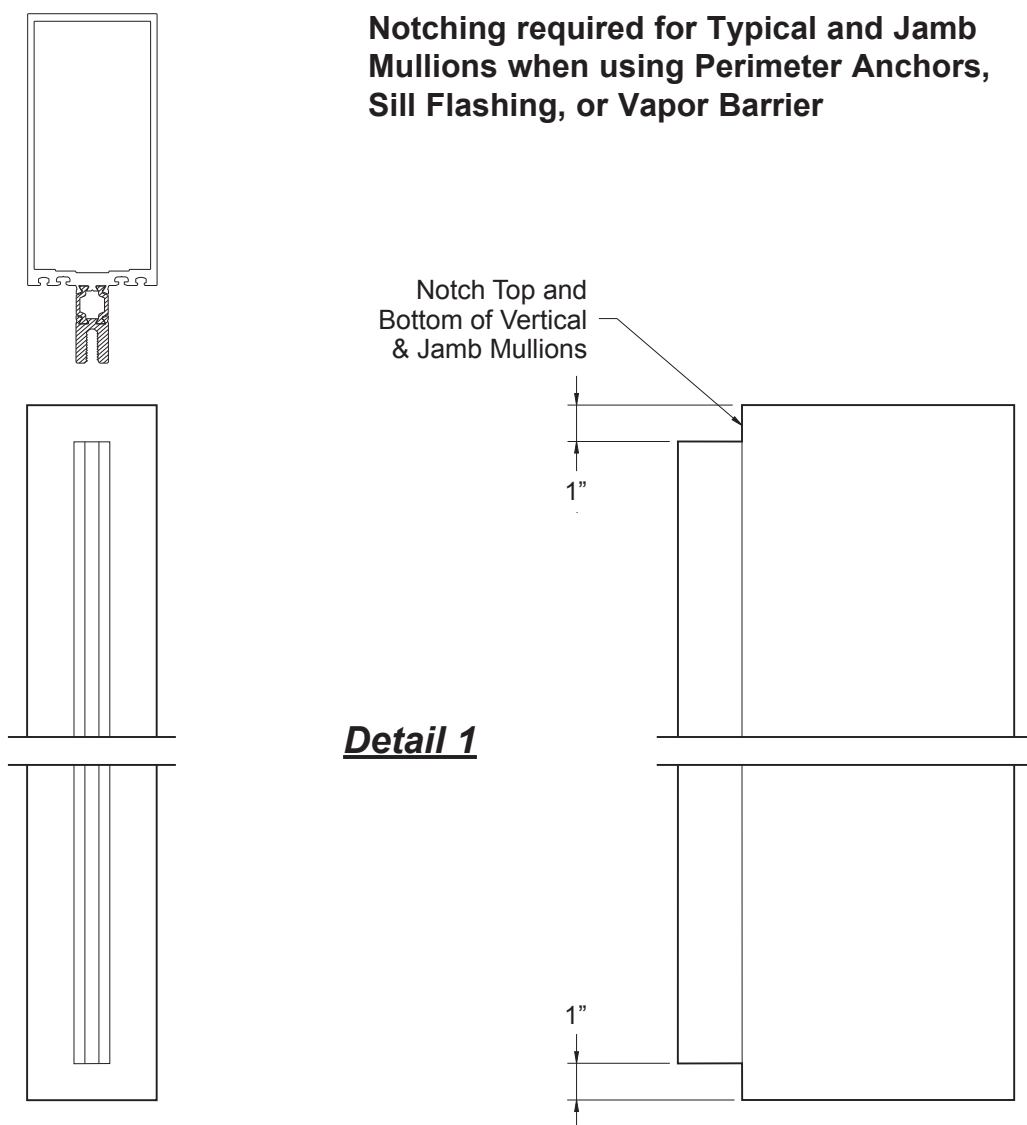
- Open back head and sill members provide easy access to end anchor fasteners.
- Closed horizontal members are used at all intermediate locations except at end bays.
- Open back intermediate horizontals are used at end bays to clear the shear blocks.

Note: When using stick build construction, check overall frame width every fifth mullion as the wall is installed. A buildup of cumulative tolerance errors may occur, resulting in excessive DLO spacing.



FRAME FABRICATION

FABRICATE MULLIONS



Step 1

-Cut all typical and jamb mullions members to dimensions as shown on shop drawings.
Allow for 1/2" caulk joint around the frame & 1/2" joint at vertical splices.

Note: Mullions at door jambs are sealed against the substrate at the sill without a shim space at that location.

Step 2

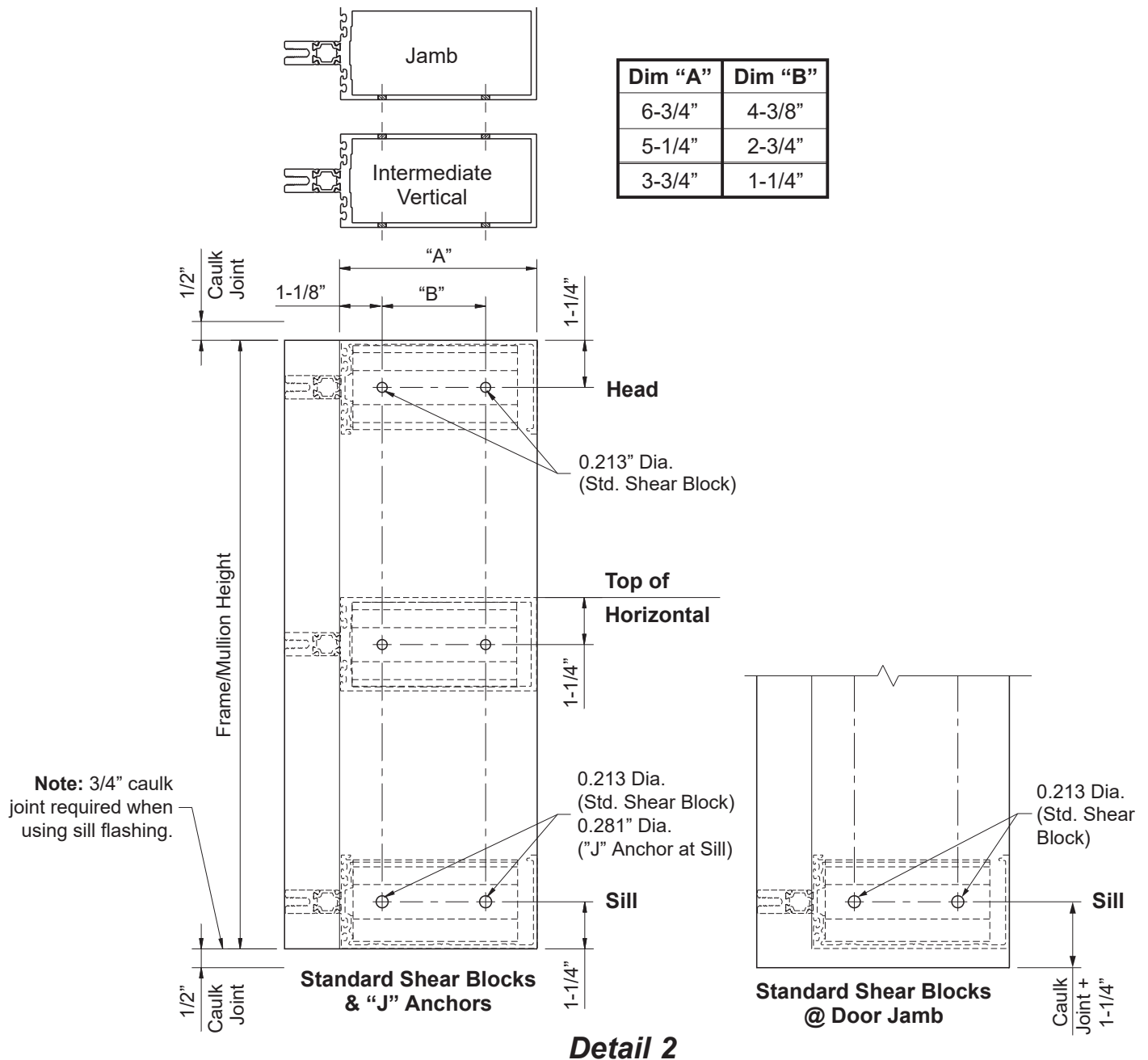
-When using continuous perimeter anchor E9-1223, the top and bottom of the typical and jamb mullion members must be notched as shown in **Detail 1**.

Note: Do not notch mullions when using mullion end anchors: "J", "T" or "F".

FRAME FABRICATION

STEP 3 FABRICATE MULLIONS

- Mullion hole locations for shear blocks, shear clips, and "J" anchors are shown below.
 - Drill 0.213" dia. (#3 bit) holes for shear block/clip attachment at the locations indicated.
 - Drill 0.281" dia. (#9/32 bit) holes for "J" anchor attachment at the sill at the locations indicated.
- See **Detail 2**.



FRAME FABRICATION

STEP 4 (Optional) USING STEEL REINFORCING

When engineering calculations require the mullions to be reinforced with steel, secure the reinforcing to the mullion using the appropriate fasteners.

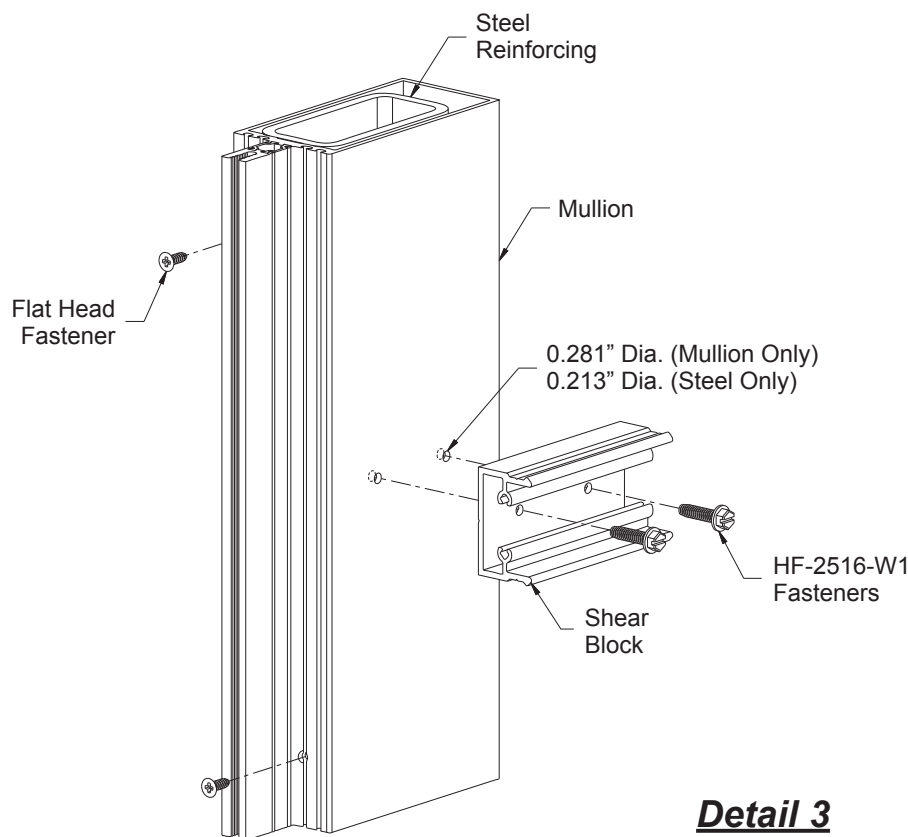
- Start 3" from both ends of the mullion and install a fastener on both sides of the mullion tongue.
- Stagger the fasteners on either side of the tongue going up the mullion.
- Seal all screw heads with sealant.

Note: Exact size of reinforcing, size and location of fasteners to be determined by a qualified engineer.

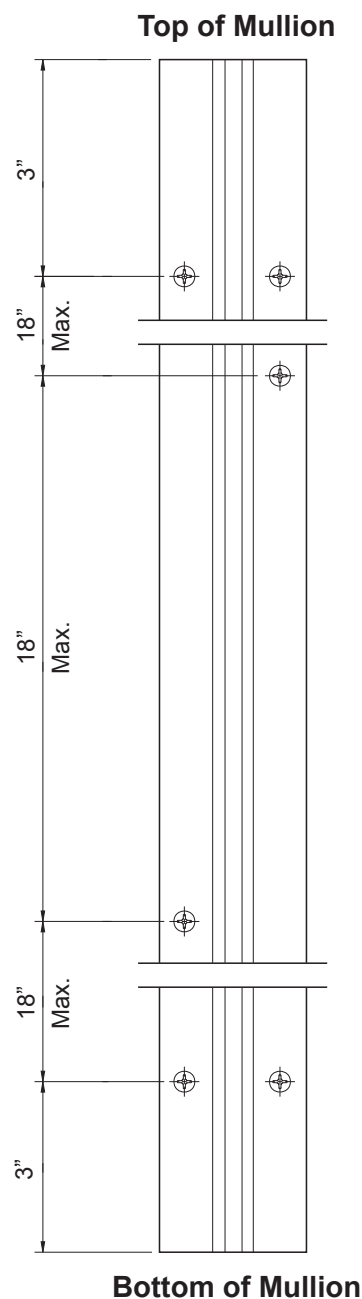
Steel reinforcing is also attached on the sides of the mullion with the attachment of shear blocks.

- Drill 0.281" dia. (9/32 bit) clear holes in the mullion only.
- Match drill 0.213 dia. (#3 bit) tap holes in the reinforcing only.
- Attach the shear blocks with HF-2516-W1 fasteners.

See **Detail 3**.



Detail 3



FRAME FABRICATION

STEP 5

ATTACH SHEAR BLOCKS/CLIPS FOR HORIZONTALS

Standard shear blocks are used to attach horizontal members to the jambs and mullions.

E1-3503 for 3-3/4" back members.

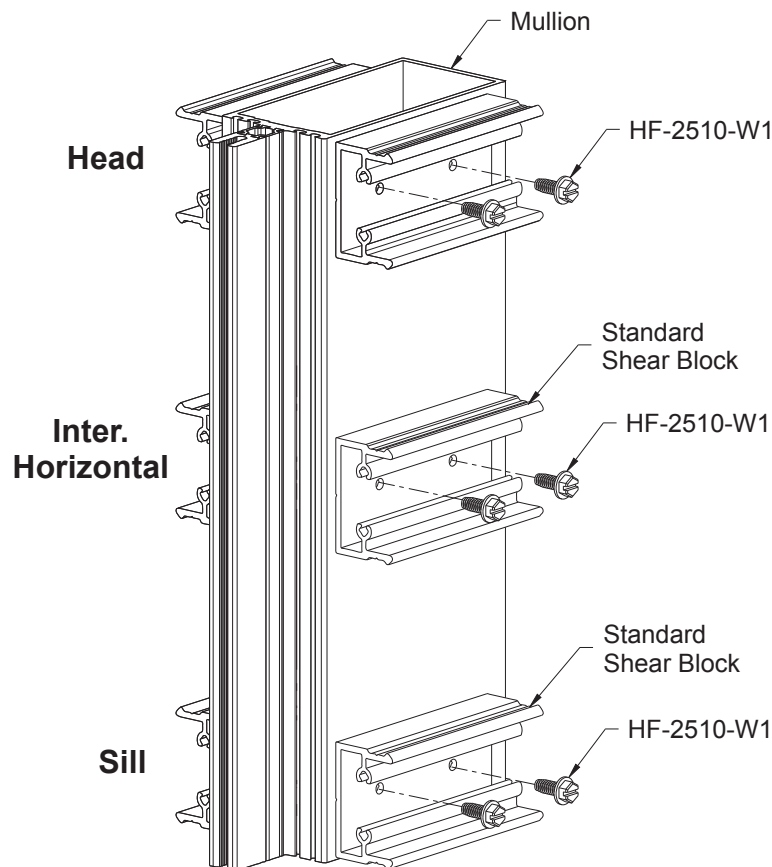
E1-3504 for 5-1/4" back members.

E1-3506 for 6-3/4" back members.

-Attach shear blocks to jambs and mullions with (2) HF-2510-W1 fasteners per block.

See **Detail 4**.

Note: Do not attach standard shear blocks at the head and sill for end bays at this time.
See **Step 16** on **Page 35** for head and sill end bay attachment.



Detail 4

FRAME FABRICATION

STEP 6

ATTACH “J” ANCHORS

In addition to anchoring the curtain wall frame to the structure, “J” anchors are used to attach sill members to jamb and vertical mullions:

E1-3501 for 3-3/4” back members.

E1-3502 for 5-1/4” back members.

E1-3505 for 6-3/4” back members.

Note: “J” anchors are used at the sill only.

Attach “J” Anchors at Jamb:

-Align the “J” anchor with the mullion and insert the HM-2516-W3 bolts through the inside of the mullion and out the “J” anchor.

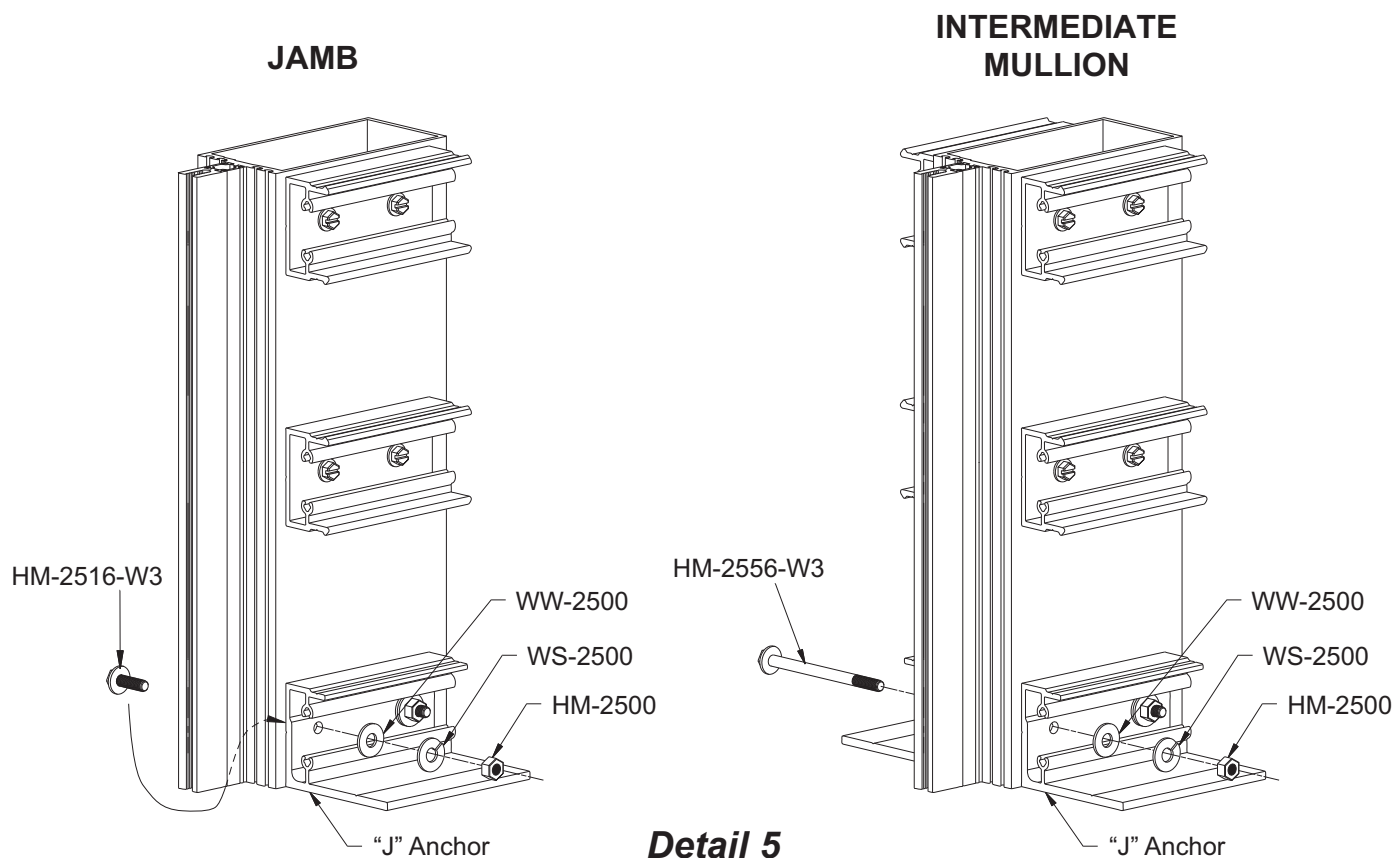
-Install 1/4” flat and lock washers between the anchor and HM-2500 hex nuts.

Attach “J” Anchors at Intermediate Mullions:

-Align the “J” anchors and insert the HM-2556 bolts through both anchors and the mullion.

-Install 1/4” flat and lock washers between the anchor and HM-2500 hex nuts.

See **Detail 5**.



FRAME FABRICATION

STEP 7

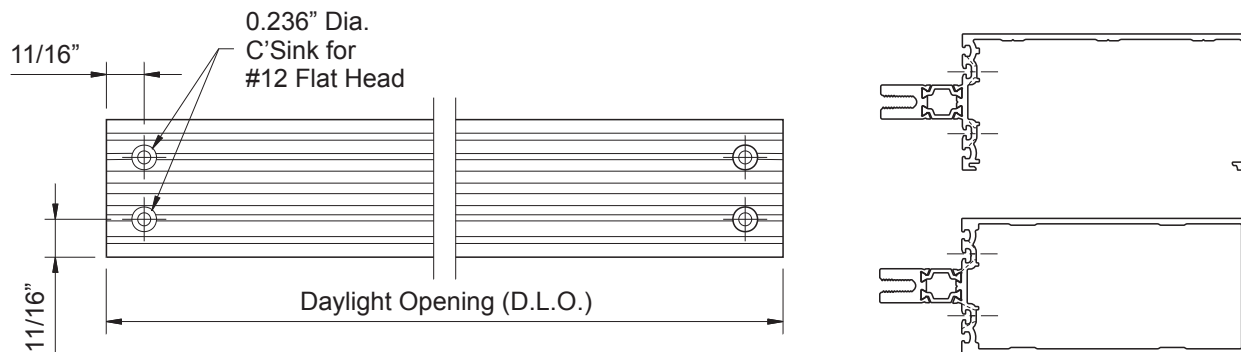
FABRICATE HORIZONTAL MEMBERS

- Cut all horizontal members to the daylight opening as shown in shop drawings.
- Cut all horizontal flush fillers to the daylight opening minus(-) 1/32".
- Horizontal members must be fabricated for shear block/clip attachment as follows:

Horizontals with Concealed Fasteners:

- Layout hole locations on the face of the horizontal at both ends as shown below.
- Using drill fixture H-7210, drill 0.236" diameter (#B bit) holes and countersink for #12 flat head fasteners.

See **Detail 6**.

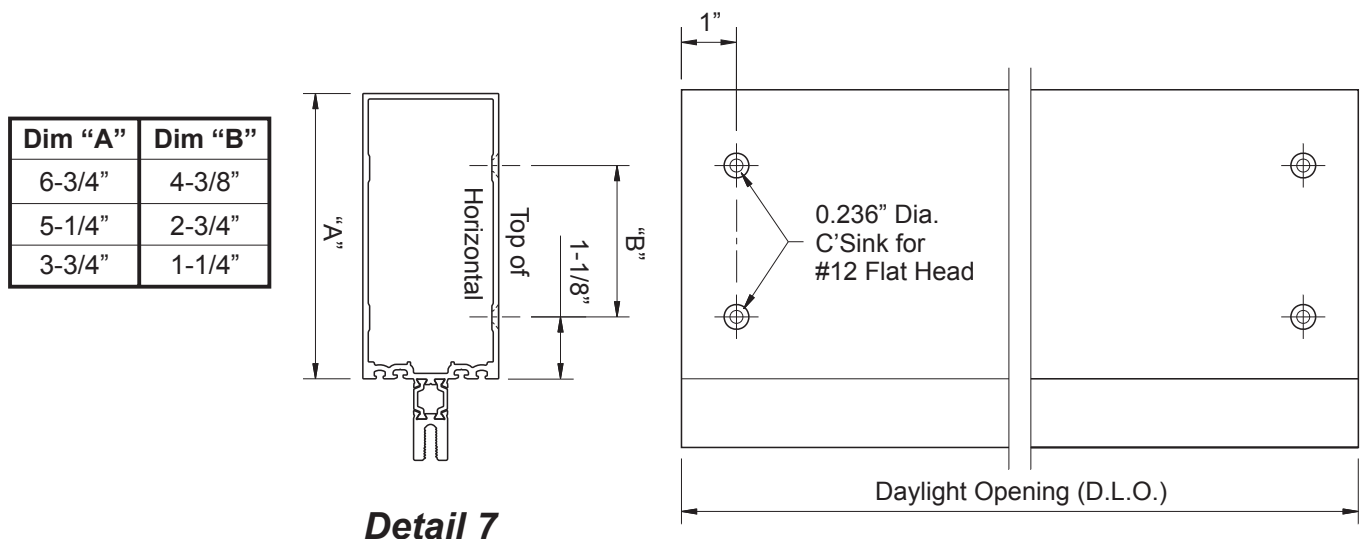


Detail 6

Horizontals with Exposed Fasteners:

- Layout hole locations on the top of the horizontal at both ends as shown below.
- Drill 0.236" diameter (#B bit) holes and countersink for #12 flat head fasteners.

See **Detail 7**.



Detail 7

FRAME FABRICATION

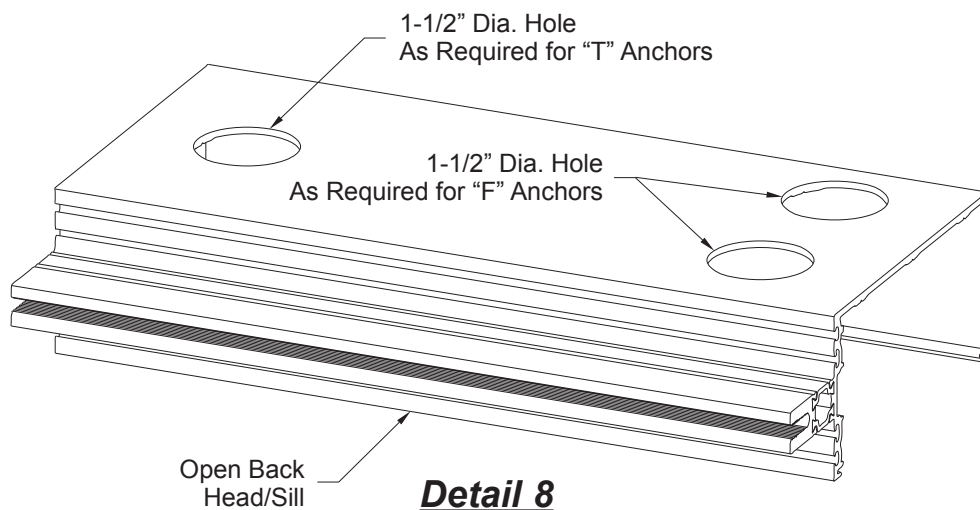
STEP 7 (Continued)

FABRICATE HORIZONTAL MEMBERS

Open Back Head & Sill with "T" & "F" Anchors:

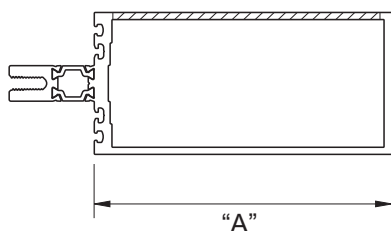
- Open back head & sill members require holes to access anchor bolts.
- Drill 1-1/2" dia. holes at anchor locations as required by approved shop drawings or engineering calculations.

See **Detail 8**.



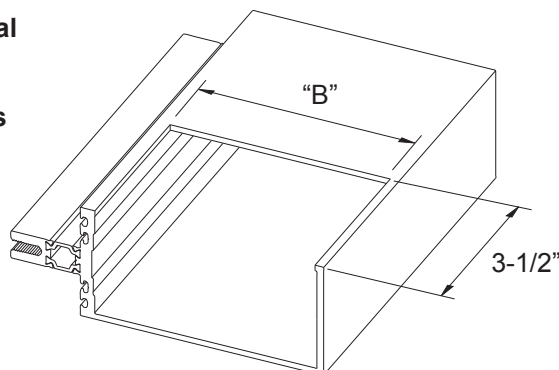
Tubular Head & Sill with "J", "F" & "T" Anchors:

- Tubular head and sill members must be notched at each end to clear mullion end anchors and anchor bolts.
- See **Detail 9** below for notch dimensions.



Dim "A"	Dim "B"
6-3/4"	6-1/4"
5-1/4"	4-3/4"
3-3/4"	3-1/4"

**Notch Horizontal
Ends to Clear
End Anchors
& Anchor Bolts**



Detail 9

FRAME FABRICATION

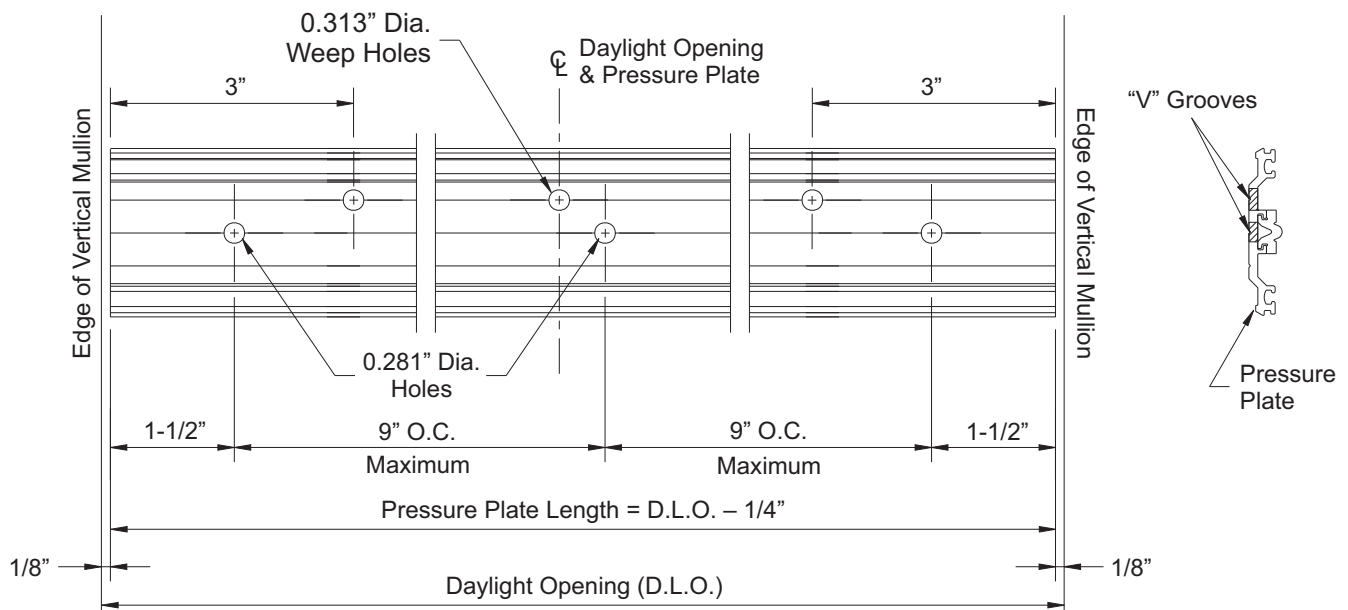
STEP 8

FABRICATE PRESSURE PLATES

Horizontal Pressure Plates:

Note: For polyamide pressure plate fabrication, skip to Step 8a on Page 25.

- Cut horizontal pressure plates to the daylight opening between verticals minus(–) 1/4".
- Pressure plate stock lengths have 0.281" dia. attachment holes factory made every 9".
- After cutting, drill additional holes if required to ensure that end holes are 1-1/2" from each end.
- Drill 3 weep holes per daylight opening (D.L.O.). Weep holes must be 0.313" diameter and must be located 3" from each end of the D.L.O. and at the centerline of D.L.O. as shown in **Detail 10**.



Detail 10

Vertical Pressure Plates:

- Cut mullion and jamb pressure plates to the same length as the mullions.
- If mullions are spliced, cut pressure plates to accommodate for 1/2" expansion joint as shown in **Step 11** on **Pages 26 & 27**.
- Drill additional attachment holes if required to ensure that end holes are 1-1/2" from each end.

FRAME FABRICATION

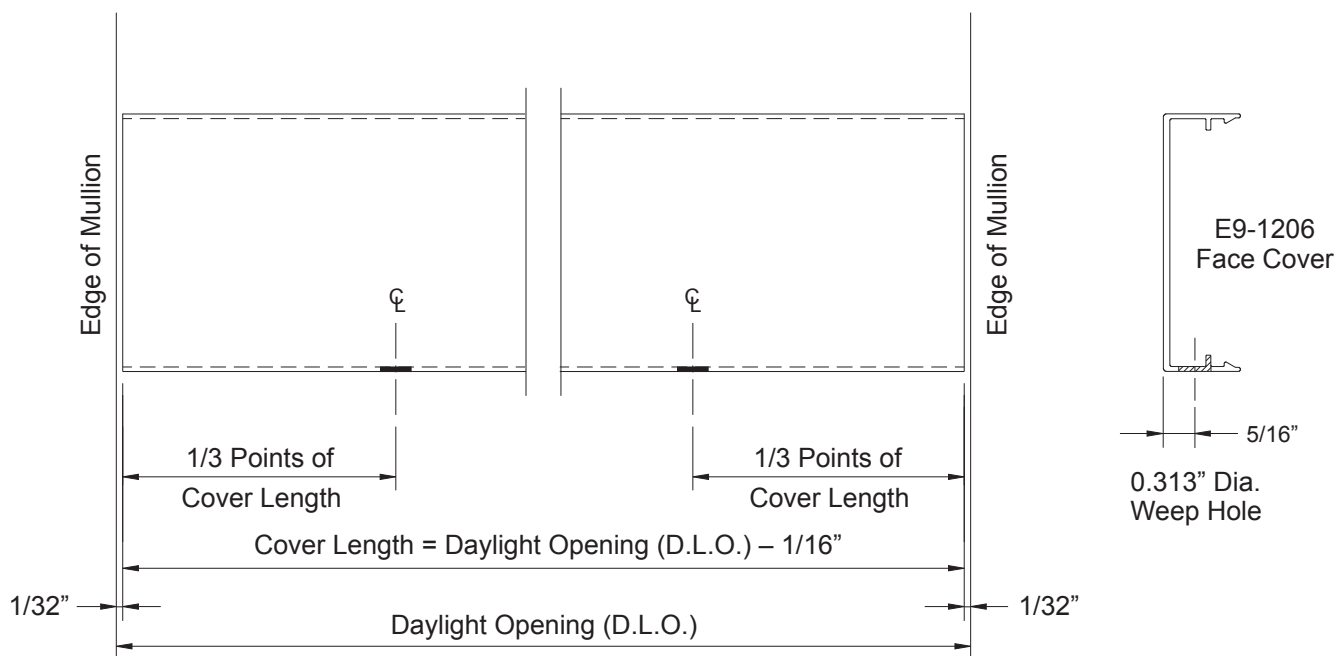
STEP 9

FABRICATE FACE COVERS

Horizontal Face Covers:

- Cut horizontal face covers to the daylight opening between mullions minus(-) 1/16".
- Drill two 0.313" diameter weep holes at 1/3 points of cover as shown below.

Face cover weep holes must not align with pressure plate weep holes.
See **Detail 11**.



Detail 11

Mullion Face Covers:

- Cut mullion face covers to the same length as the mullions unless the verticals are spliced.
- If mullions are spliced, cut mullion face covers to accommodate for the 1/2" expansion joint as shown in **Step 11**.

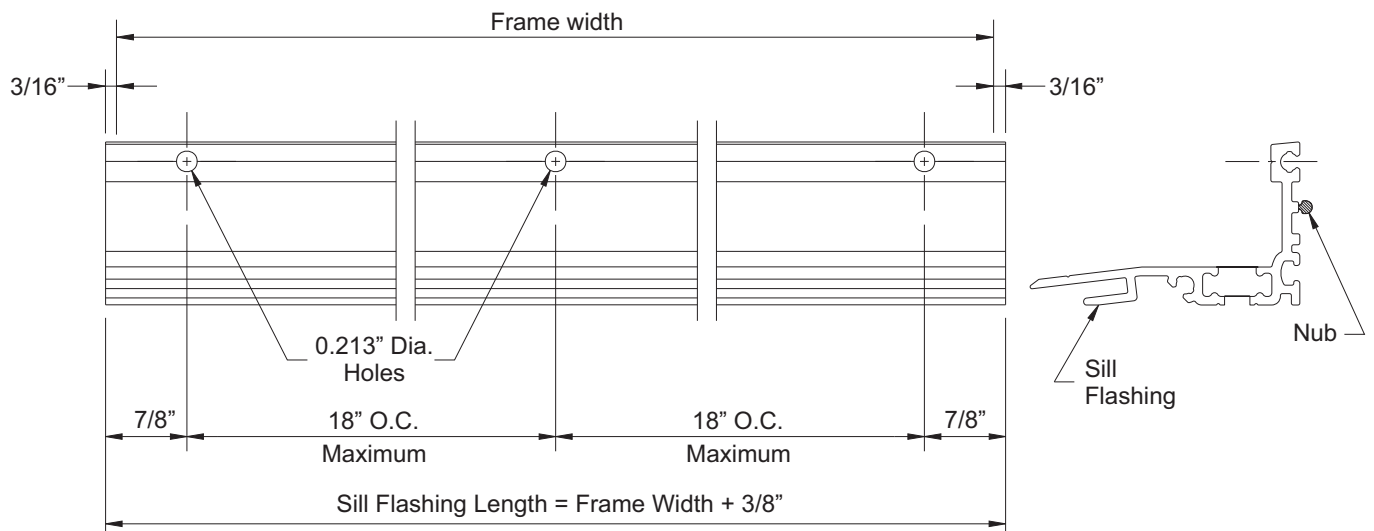
FRAME FABRICATION

STEP 10

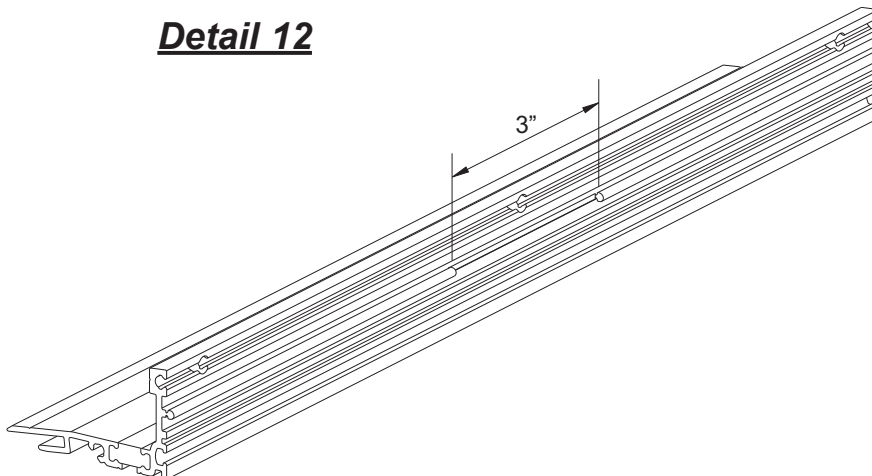
FABRICATE SILL FLASHING (Optional)

- Cut sill flashing to the frame width plus(+) 3/8".*
 - Drill 0.213" diameter clear holes through the "V" groove of the sill flashing as shown below.
 - The round nub at the back side of the sill flashing will interfere at the mullion locations.
Remove 3 inches of this nub at all vertical mullion locations.
- See **Detail 12**.

- *Note:** For openings longer than 24'-0" the sill flashing needs to be spliced every twelve to fifteen feet.
- Allow for a 3/8" joint for expansion between sill flashing members.



Detail 12

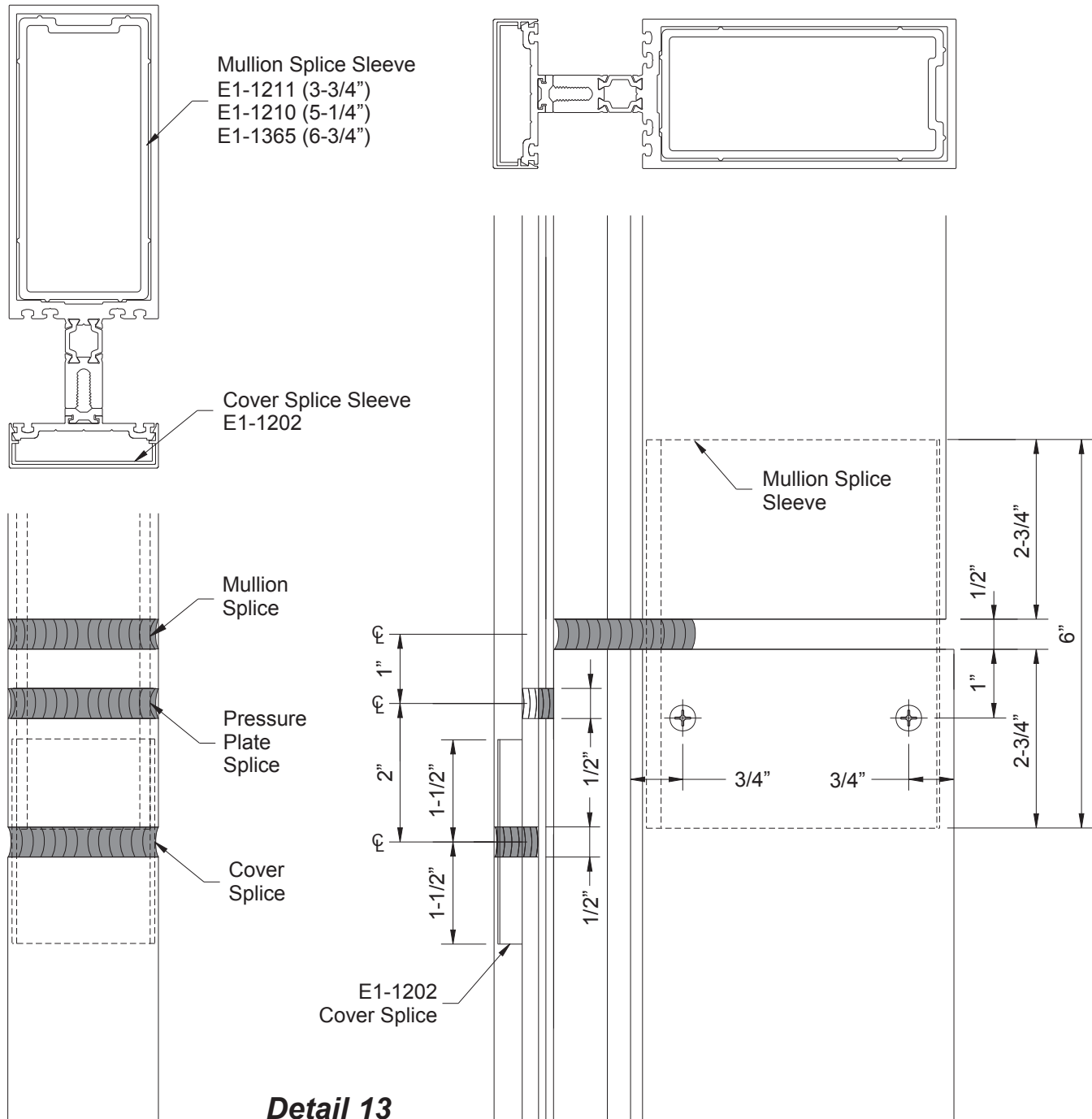


FRAME INSTALLATION

STEP 11

TYPICAL VERTICAL SPLICE

Stagger Mullion, Pressure Plate, and Cover Splice Joints as Shown Below.



FRAME INSTALLATION

STEP 11 (Continued) TYPICAL VERTICAL SPLICE

- Clean all surfaces as recommended by sealant manufacturer.
- Apply bond breaker tape to the face of the splice sleeve at its midpoint (3" from top or bottom).
- Lower the splice sleeve into top of lower mullion 2-3/4" and attach with two FC-1212 fasteners on both sides of the mullion. Screws should be installed 3/4" from the front and back of mullion and 1" down from the top.
- When using 1" glazing mullions, stuff a small piece of backer rod 1/2" down the cavity behind mullion tongue and pump in sealant to fill the cavity.
- Apply sealant to the face of splice sleeve on the upper half and carefully slide the upper mullion down onto the splice sleeve. Place a 1/2" temporary shim between the mullions to locate them.
- Secure the upper mullion to the mid anchors and remove the temporary shims.
- Apply and tool sealant to the face and sides of the splice sleeve to create a water tight joint.

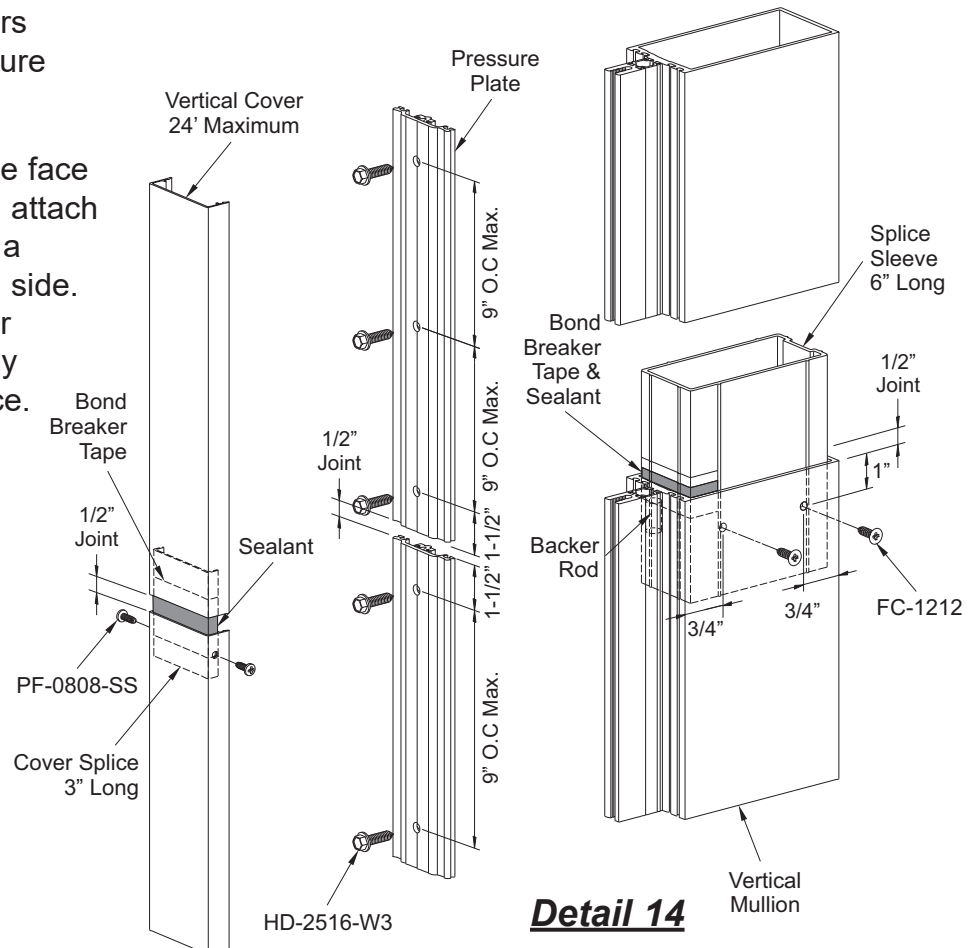
- Leave a 1/2" expansion joint between vertical pressure plate splices and fill the joint with sealant.

- Locate pressure plate fasteners 1-1/2" from each end of pressure plate splice as shown.

- Apply bond breaker tape to the face of the cover splice sleeve and attach it to the lower face cover with a PF-0808-SS fastener on each side.
- Prior to snapping on the upper portion of the face cover, apply sealant to the face of the splice.
- Leave a 1/2" expansion joint between face cover splices.

See **Details 13 & 14.**

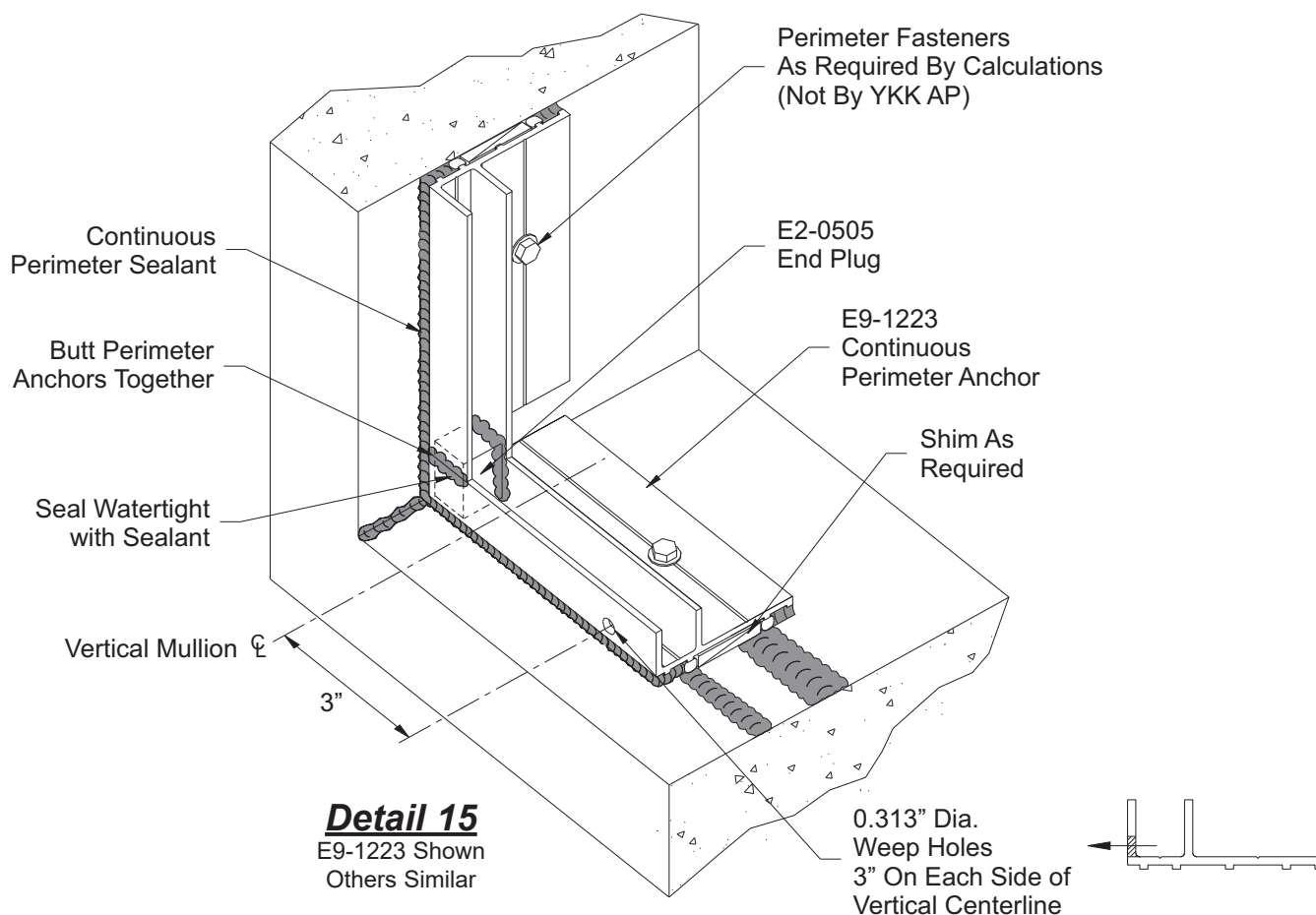
Note: Face covers, pressure plates, and mullions are staggered at splice locations.



FRAME INSTALLATION

STEP 12 (When Required)

INSTALL CONTINUOUS PERIMETER ANCHOR (1" INFILL ONLY)



-Cut perimeter anchors to size:

Head and sill anchors stop 1/8" short of the structure.

Vertical jamb anchors butt in between head and sill anchors.

-Prepare structure for anchor attachment.

-Install perimeter anchors with appropriate perimeter fasteners. Refer to shop drawings or engineering calculations for type and spacing of fasteners. Shim as required to install anchors level.

-When splicing head and sill pieces together, leave 3/8" joint for expansion and install end plug, E2-0505, that has been buttered with sealant on the front, back, and bottom at the joint.

-Run continuous sealant along the perimeter between the anchors and the substrate.

-Seal corners of butted perimeter anchors watertight with sealant.

-Butter E2-0505 end plug with sealant on all sides that touch the anchors.

Then push end plug into place and tool excess sealant that comes through the cracks.

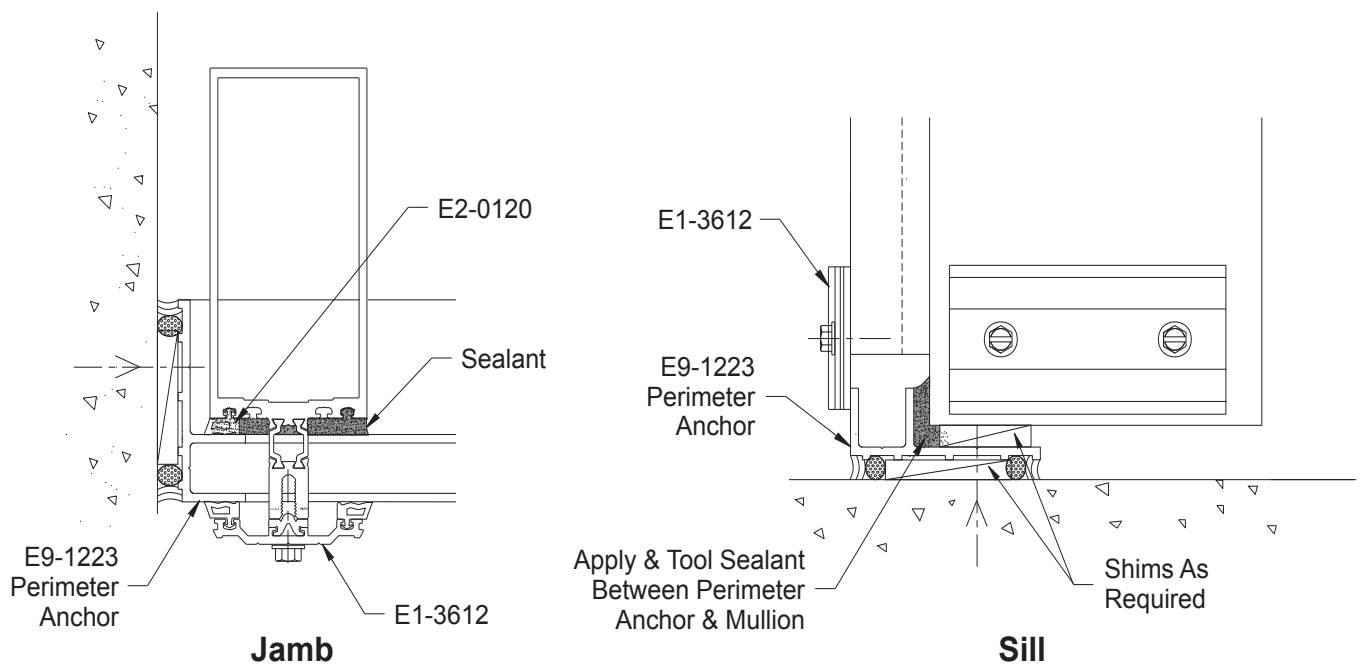
-Field drill 0.313" diameter weep holes in perimeter anchor (exterior face only) at sill 3" from center line of vertical on each side.

See **Detail 15**.

FRAME INSTALLATION

STEP 13 (When Required) JAMB/VERTICAL INSTALLATION WITH PERIMETER ANCHORS (1" INFILL ONLY)

- Install interior gasket, E2-0120, to jamb mullion (jamb side only) the full length of the mullion.
 - Position jamb into opening as shown below.
 - Seal the gap between the perimeter anchor and mullion glazing pocket(s) with sealant (one side for jambs – both sides for intermediate mullions).
 - Install temporary retainer clip, E1-3612, at the top and bottom of the mullion.
 - Repeat this step for all jamb and mullion members.
- See **Detail 16**.



Detail 16
E9-1223 Shown
Others Similar

Sill Shown
Head Similar

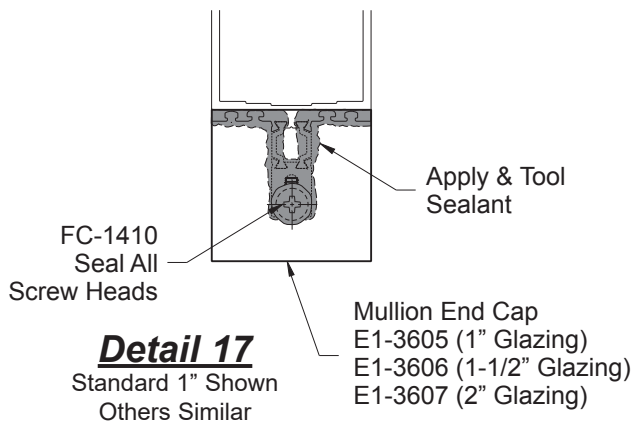
FRAME INSTALLATION

STEP 14

JAMB/VERTICAL INSTALLATION WITH MULLION END ANCHORS

- Clean all contact surfaces as recommended by sealant manufacturer.
- Apply sealant into the screw raceway and along the front edge of the mullion at each end.
- Prior to erecting mullions, install mullion end caps at the top and bottom of all intermediate mullions and jambs with FC-1410 fasteners.
- Seal all screw heads with sealant.

See **Detail 17**.

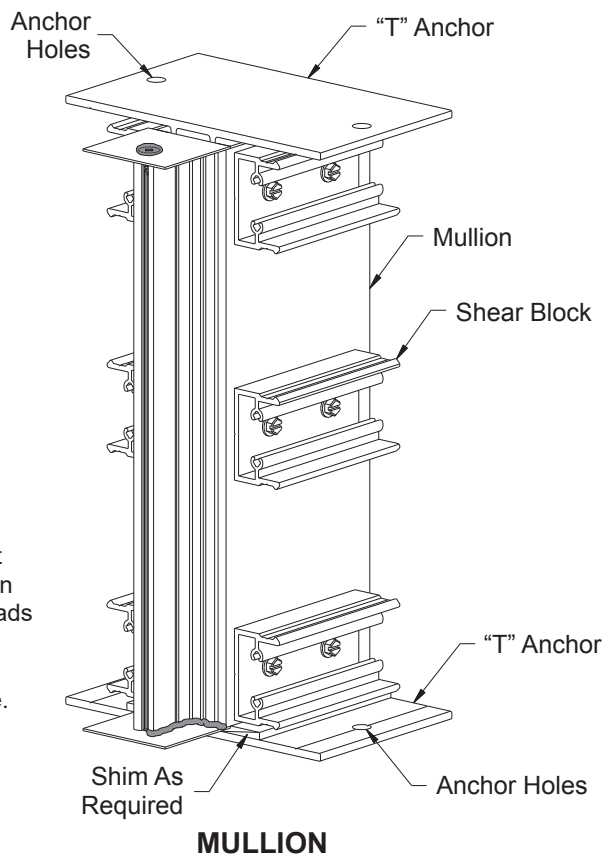
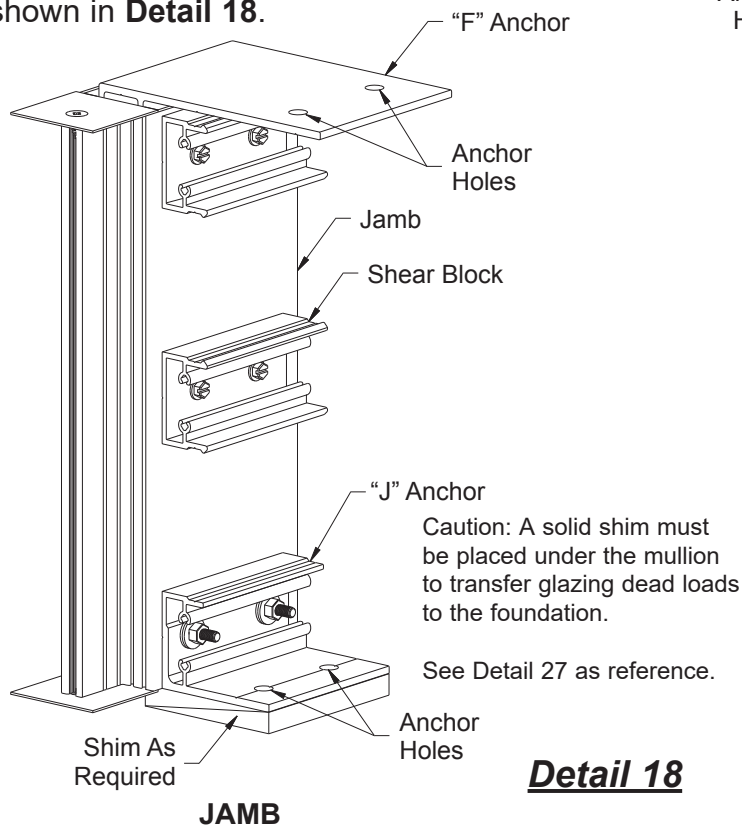


- Insert mullion “T” and “F” anchors into the top and bottom of the mullions before erecting them into the opening.

- Erect and locate the jamb and mullions and temporarily attach them to the structure. All mullions must be installed plumb and true.

- Drill through the pre-drilled holes in “T”, “F” and “J” anchors into the structure for the appropriate anchor fasteners according to approved shop drawings or engineering calculations.

Note: When using T and F anchors, shims should be located between the of the T or F anchor and the bottom of the vertical mullions as shown in **Detail 18**.



FRAME INSTALLATION

STEP 14A VERTICAL INSTALLATION AT DOOR JAMB END ANCHORS

The mullions at the door jambs are set directly upon the sill substrate without any shims and are sealed against the substrate. The anchors to be used at this location are specified by the approved shop drawings and or P.E. calculations.

-Locate the mullion anchor for the door jamb and install it to the substrate according to the approved shop drawings and P.E. calculations.

Note: if using an exposed fasteners shear block as a mullion anchor, check to ensure the sill shear block fasteners will not cause interference. Field modify the shear block anchor as required. See **Detail 20**.

-Clean all contact surfaces as recommended by sealant manufacturer.

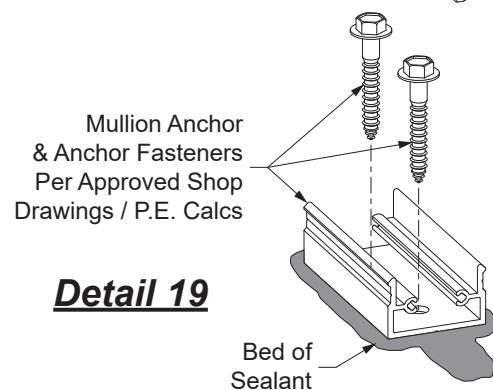
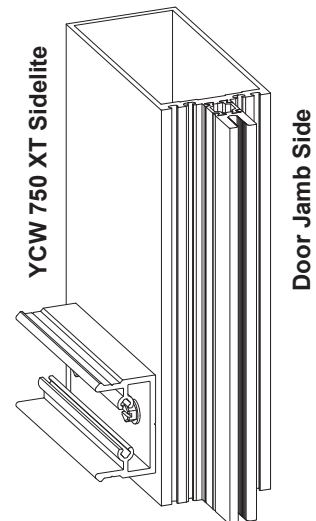
-Set the mullion on the anchor, directly onto the sill substrate in a bed of sealant. Avoid using shims at this location.

See **Detail 19**.

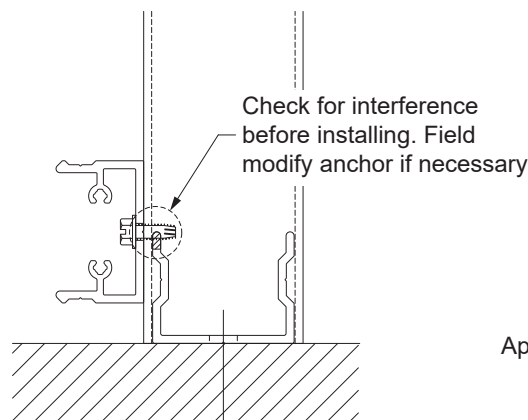
-Refer to the approved shop drawings for any additional fasteners required at anchor.

-Tool sealant at the bottom of the mullion at the sill substrate around the perimeter of the mullion.

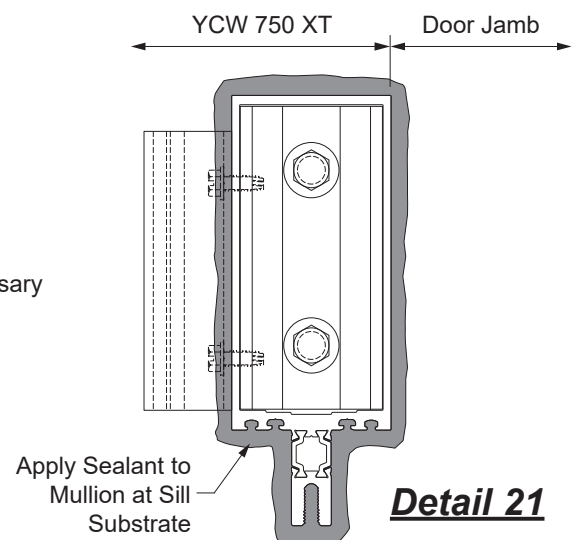
See **Detail 21**.



Detail 19



Detail 20



Detail 21

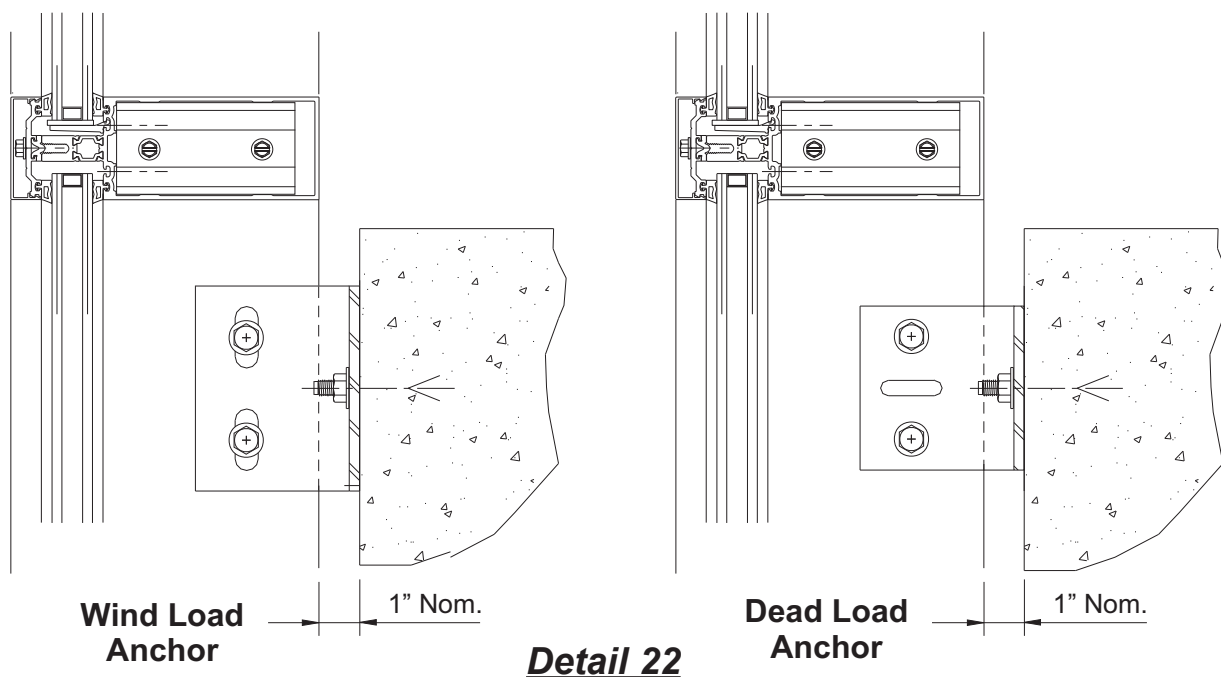
FRAME INSTALLATION

STEP 15

INSTALL WIND LOAD/DEAD LOAD ANCHORS

-Install steel wind load and dead load anchors. Anchor are normally template or line set before mullions are hung. Outstanding leg of anchor must be set at 90° to offset line. The back of the mullion should set about 1" from the anchoring substrate.

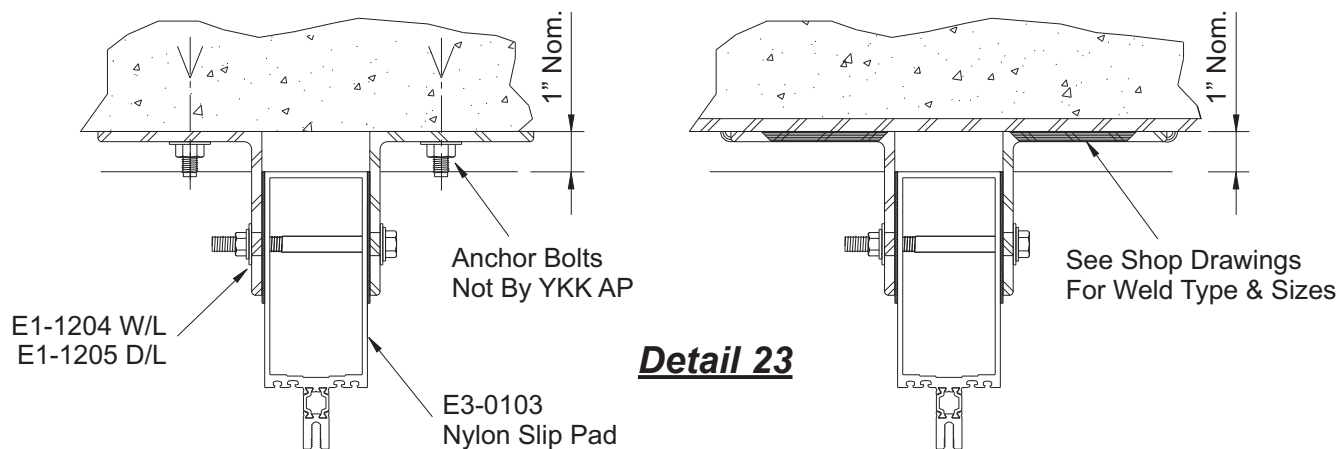
See **Detail 22**.



-Install, plumb, and align mullions. Drill and install appropriate diameter anchor bolts per approved shop drawings or engineering calculations.

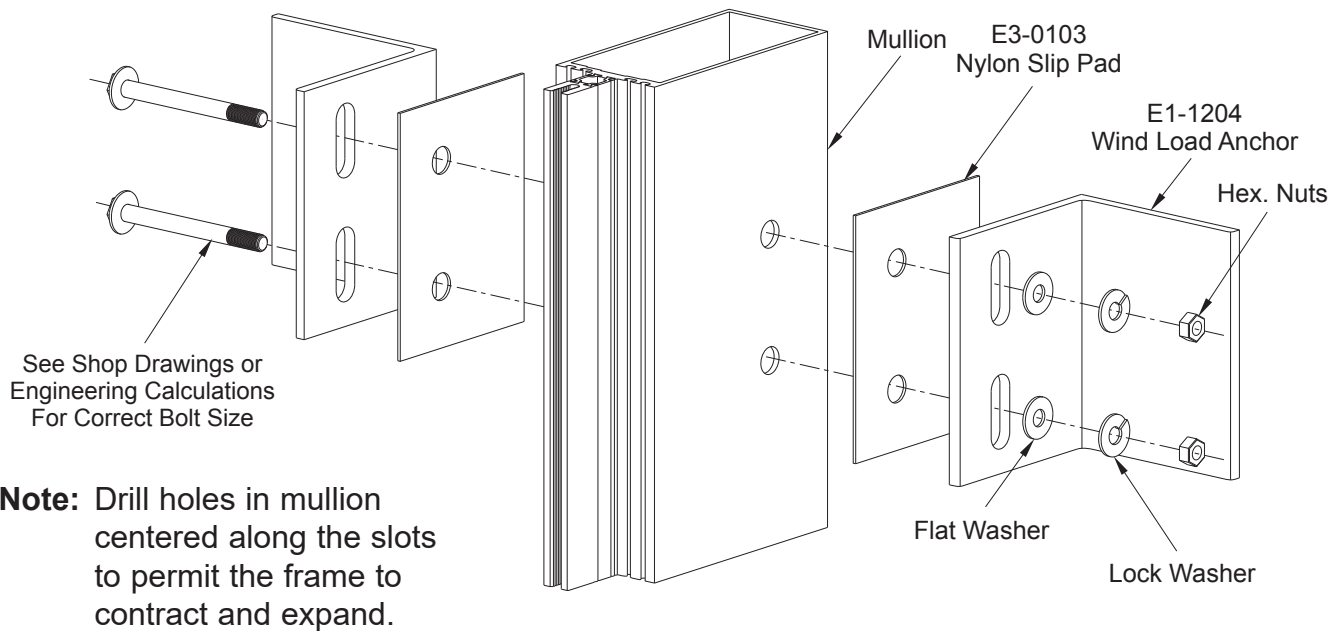
-Nylon slip pads, E3-0103, must be installed between mullion and anchors.

See **Detail 23**.



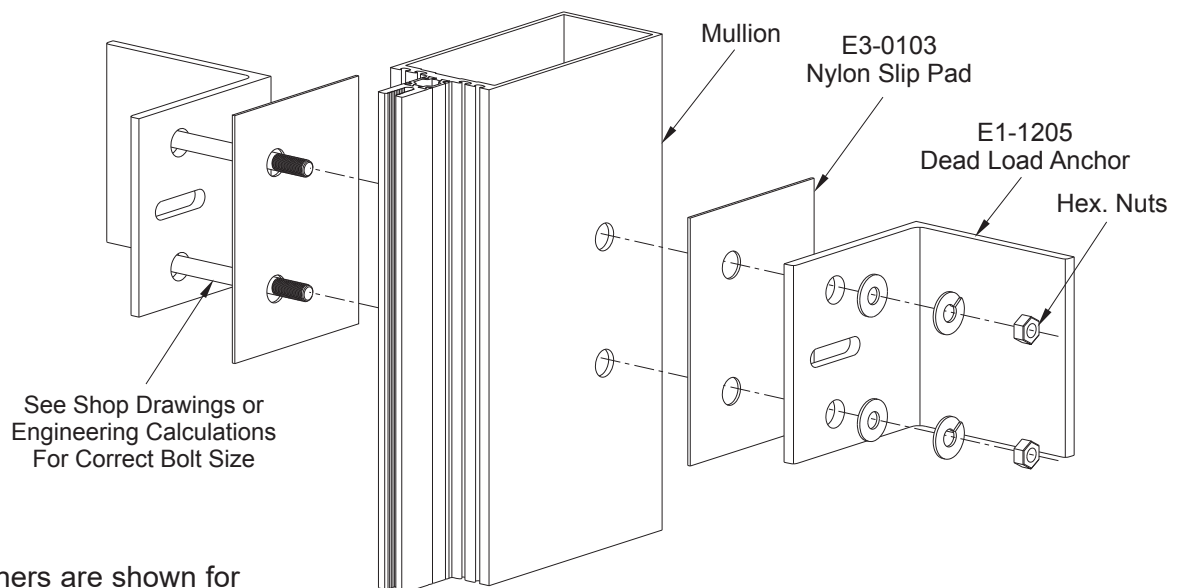
FRAME INSTALLATION

TYPICAL WIND LOAD ANCHOR



Detail 24

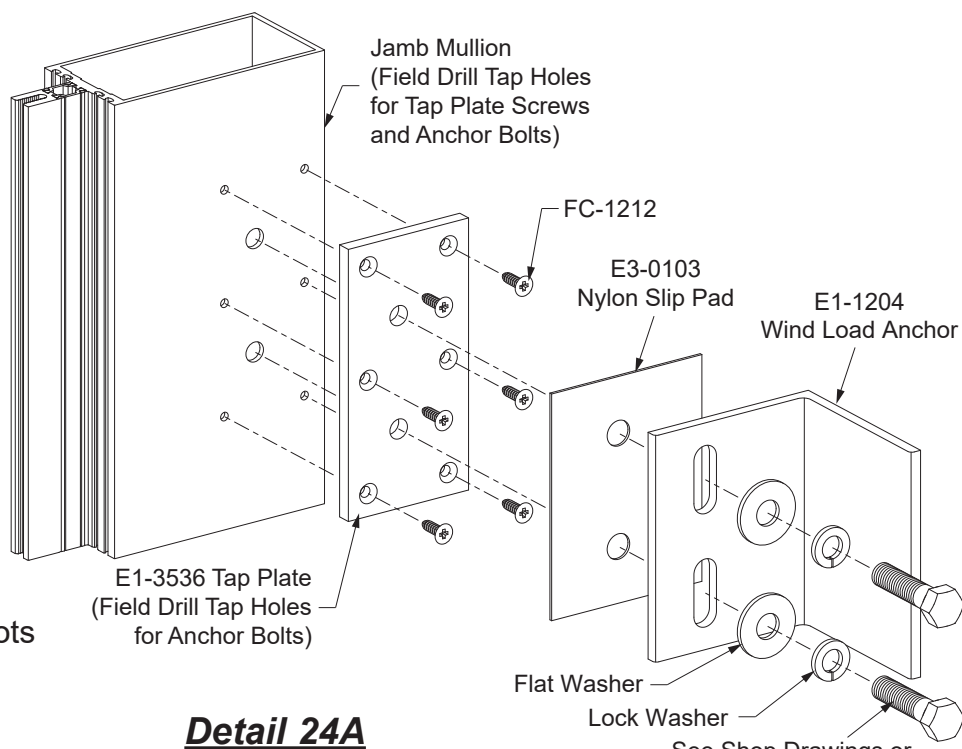
TYPICAL DEAD LOAD ANCHOR



Note: Fasteners are shown for reference only; horizontals are typically attached before anchor fasteners are installed.

FRAME INSTALLATION

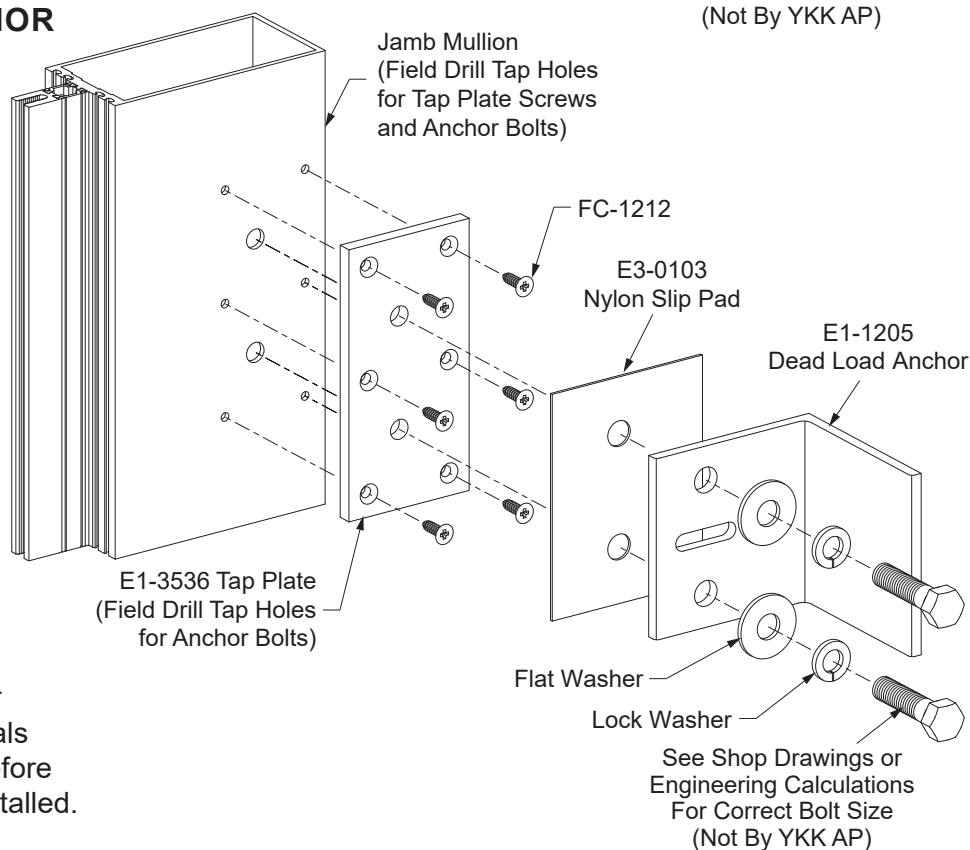
JAMB WIND LOAD ANCHOR



Note: Drill holes in mullion centered along the slots to permit the frame to contract and expand.

Detail 24A

JAMB DEAD LOAD ANCHOR



Note: Fasteners are shown for reference only; horizontals are typically attached before anchor fasteners are installed.

FRAME INSTALLATION

STEP 16

ATTACH HORIZONTAL MEMBERS

Note: Before applying any sealant, clean aluminum surfaces using cleaner and method approved by sealant manufacturer.

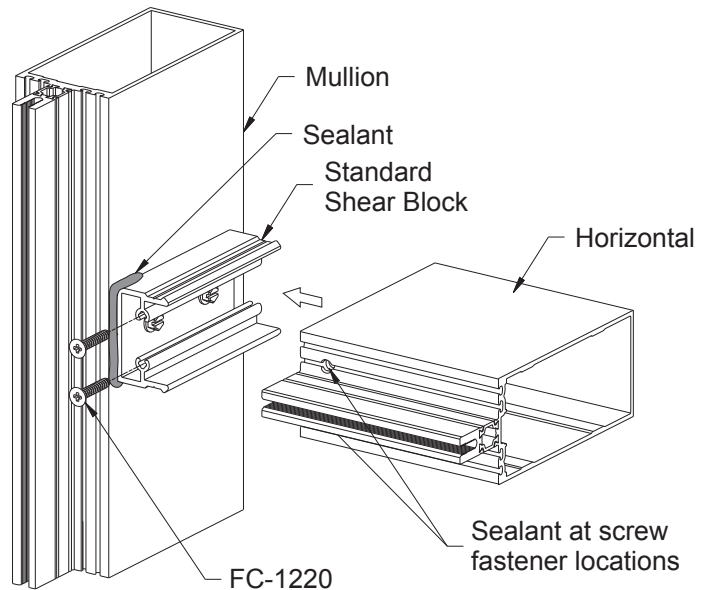
-Just prior to attaching the horizontal members to the mullions, apply sealant to the front of the shear block as shown.

Horizontals with Concealed Fasteners:

- Slide the horizontal members towards the mullion and attach them to the shear blocks at each end with two FC-1220 fasteners.
- Tool and wipe away any excess sealant at the mullion to horizontal joints, and exposed front fasteners.

See **Detail 25**.

CONCEALED FASTENERS



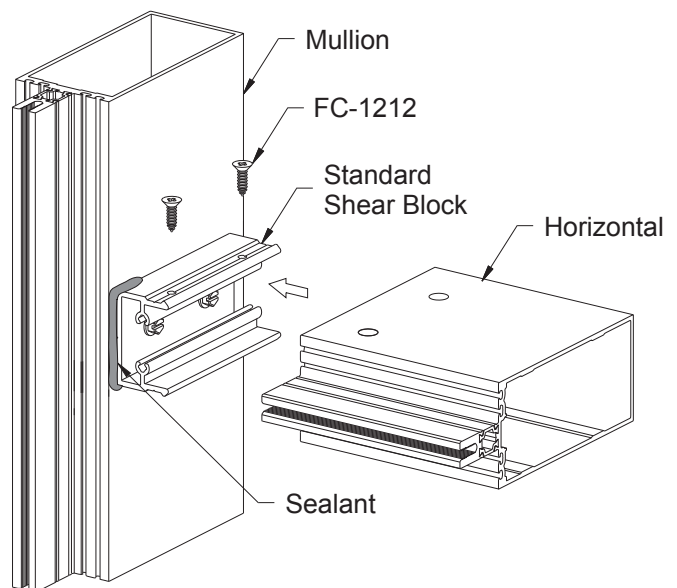
Detail 25

Horizontals with Exposed Fasteners:

- Slide the horizontal members towards the mullion and transfer the hole locations on top of the horizontal to the shear block.
- Remove the horizontal and drill a 0.189" dia. (#12 bit) hole at each hole location.
- Slide the horizontal back against the mullion and attach it to the shear block with two FC-1212 fasteners at each end.
- Tool and wipe away any excess sealant at the mullion to horizontal joints.

See **Detail 26**.

EXPOSED FASTENERS



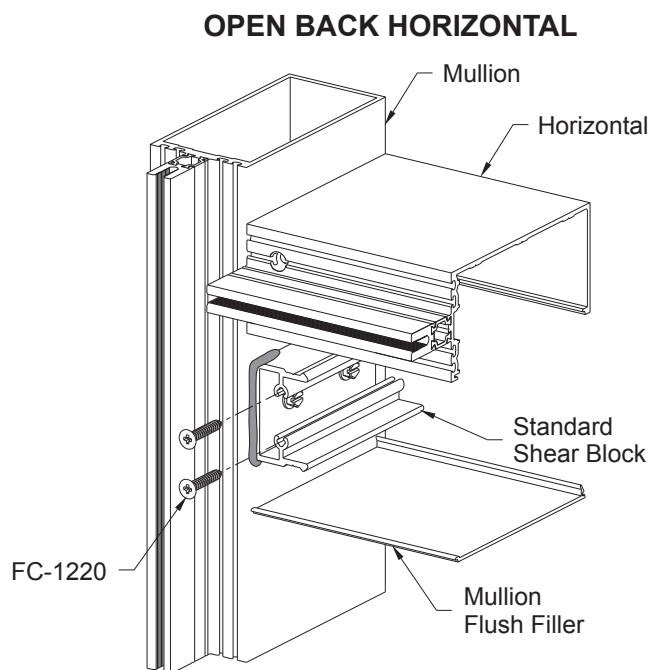
Detail 26

FRAME INSTALLATION

STEP 16 (Continued) ATTACH HORIZONTAL MEMBERS

Open Back Intermediate Horizontals:

- Just prior to attaching the horizontal members to the mullion, apply sealant to the front of the shear block as shown below.
 - Lower the horizontal down onto the shear block. Make sure the horizontal and mullion glazing pockets are flush.
 - Attach the horizontal to the shear block at the face of the horizontal with two FC-1220 fasteners at each end.
 - Tool and wipe away any excess sealant at the mullion to horizontal joints, and exposed front fasteners.
 - Snap on the mullion flush filler.
- See **Detail 27**.



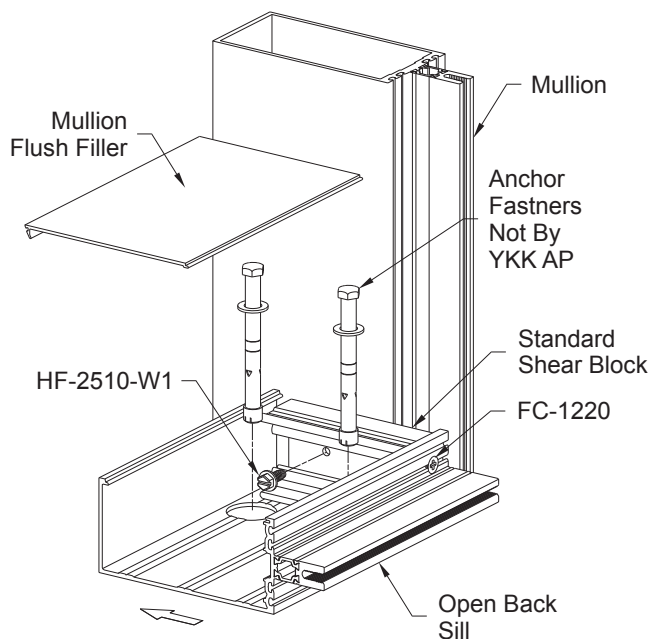
Detail 27

Open Back Head & Sill Members at End Bays:

- To clear the vertical mullions at end bays shear blocks must be pre-attached to the head and sill members through the face of the mullion with FC-1220 fasteners.
 - Position the head/sill members into place and attach the shear blocks to the mullions with two HF-2510-W1 fasteners per block.
 - Provide anchor fasteners per approved shop drawings or engineering calculations.
 - Install the anchor fasteners as recommended by fastener manufacturer.
 - Snap on the mullion flush filler.
- See **Detail 28**.

Caution: A solid shim must be placed under the mullion to transfer glazing dead loads to the foundation.

OPEN BACK HEAD/SILL AT END BAY



Detail 28

Sill Shown, Head Similar

FRAME INSTALLATION

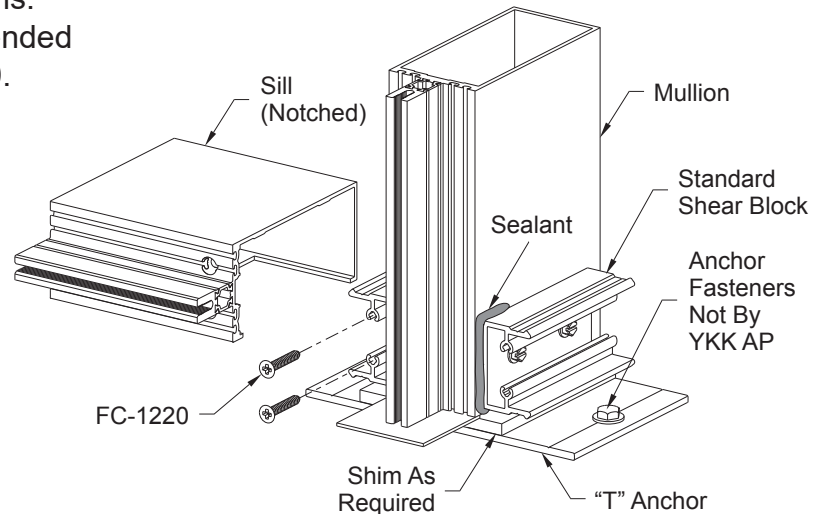
STEP 16 (Continued) ATTACH HORIZONTAL MEMBERS

Tubular Head & Sill Members:

- Mullion end anchors must be installed before head and sill members are attached.
- Provide anchor fasteners as per approved shop drawings or engineering calculations.
- Install the anchor fasteners as recommended by fastener manufacturer. See **Detail 29**.
- Clean, seal, and attach head and sill members as previously shown on **Page 36**.

Caution: A solid shim must be placed under the mullion to transfer glazing dead loads to the foundation.

TUBULAR HEAD/SILL



Detail 29

Sill Shown, Head Similar

FRAME INSTALLATION

STEP 17

INSTALL DOOR SUBFRAMES

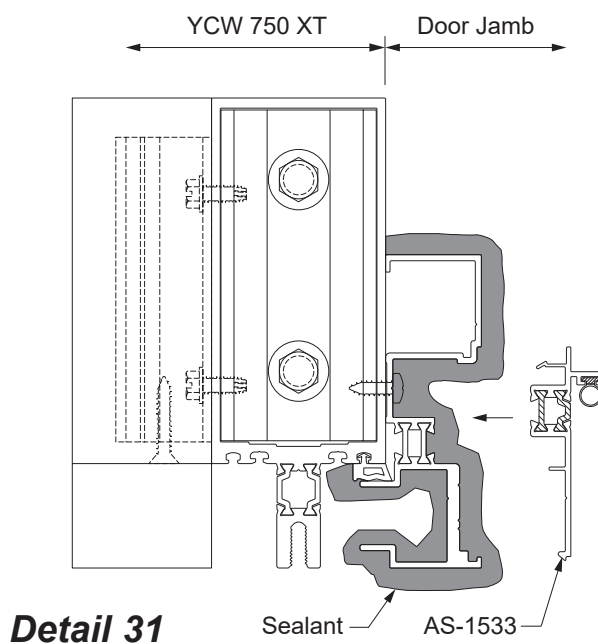
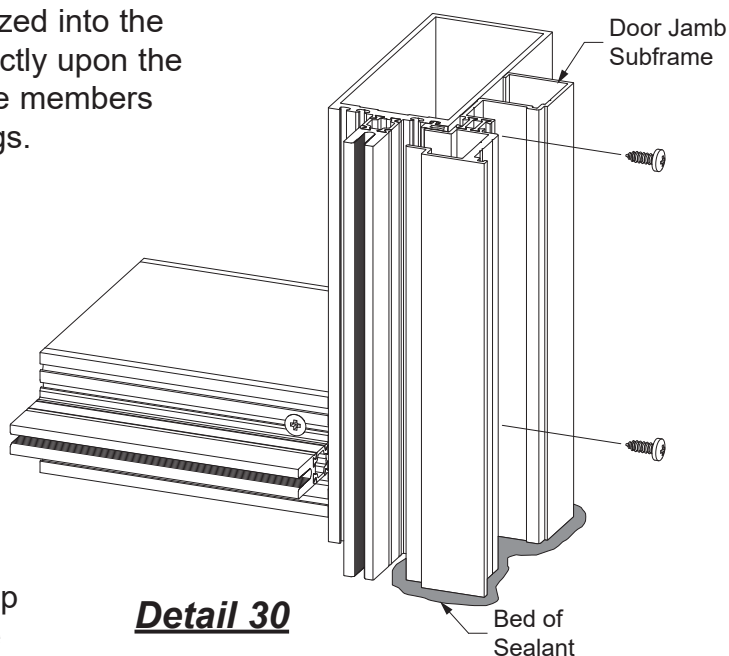
Doors are shipped assembled, and door sub-frames will be fabricated and shipped knocked down. Refer to the **Entrances Installation Manual** for assembly of the door subframes. These subframes are typically glazed into the curtain wall framing at the jambs, and set directly upon the sill substrate without any shims. The subframe members are determined by the approved shop drawings.

-Clean all sealant contact surfaces as recommended by the sealant manufacturer.

-Install the jamb subframe onto the mullion with fasteners according to the approved shop drawings and/or P.E. calculations, setting the subframe jambs in beds of sealant as shown in **Detail 30**.

-Apply and tool sealant to the bottom of the jamb subframe as shown in **Detail 31**.

-Install door stop, AS-1533, into the door jambs.



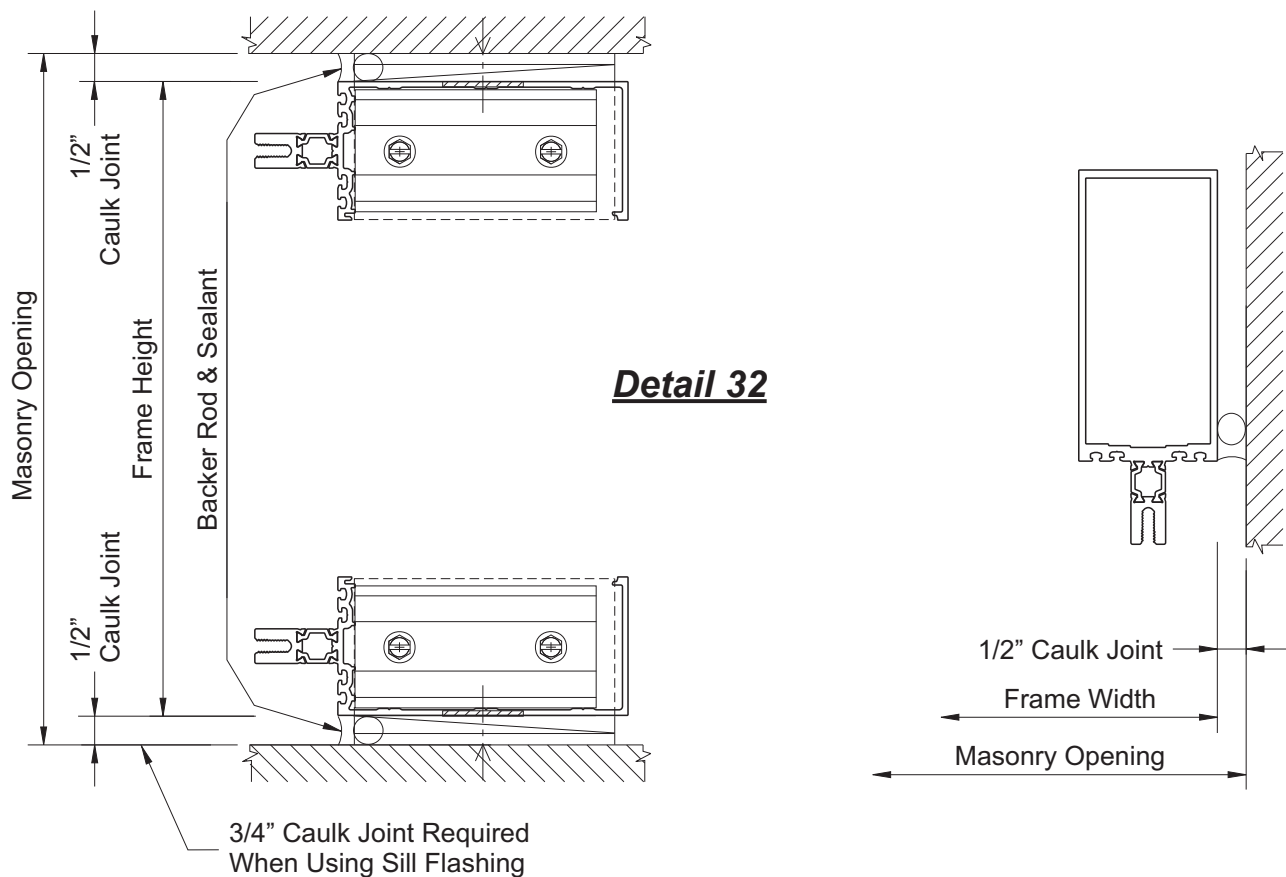
FRAME INSTALLATION

STEP 18

APPLY PERIMETER SEALANT

- Clean the area around the perimeter of the frame with cleaner and method approved by sealant manufacturer.
- Insert a backer rod and apply sealant to the perimeter of the frame.
- Tool the sealant to ensure a water tight joint.

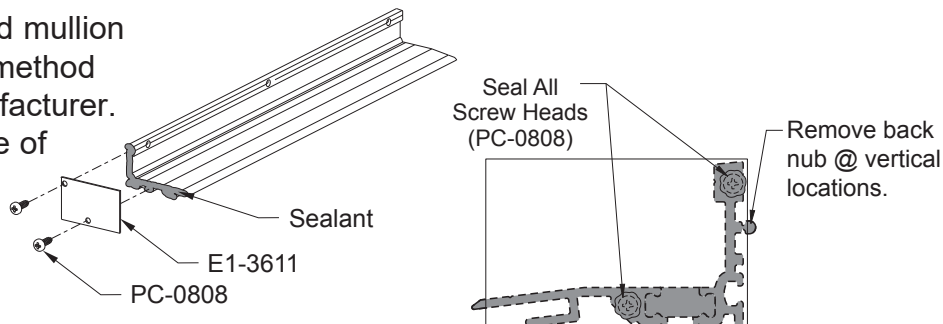
See **Detail 32**.



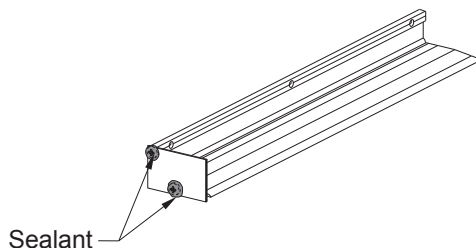
FRAME INSTALLATION

STEP 19 (Optional) INSTALL SILL FLASHING

- Clean the sill flashing ends and mullion end dams with a cleaner and method approved by the sealant manufacturer.
- Apply sealant to the entire face of sill flashing BE9-3918 on both ends prior to installing mullion end cap, E1-3611.



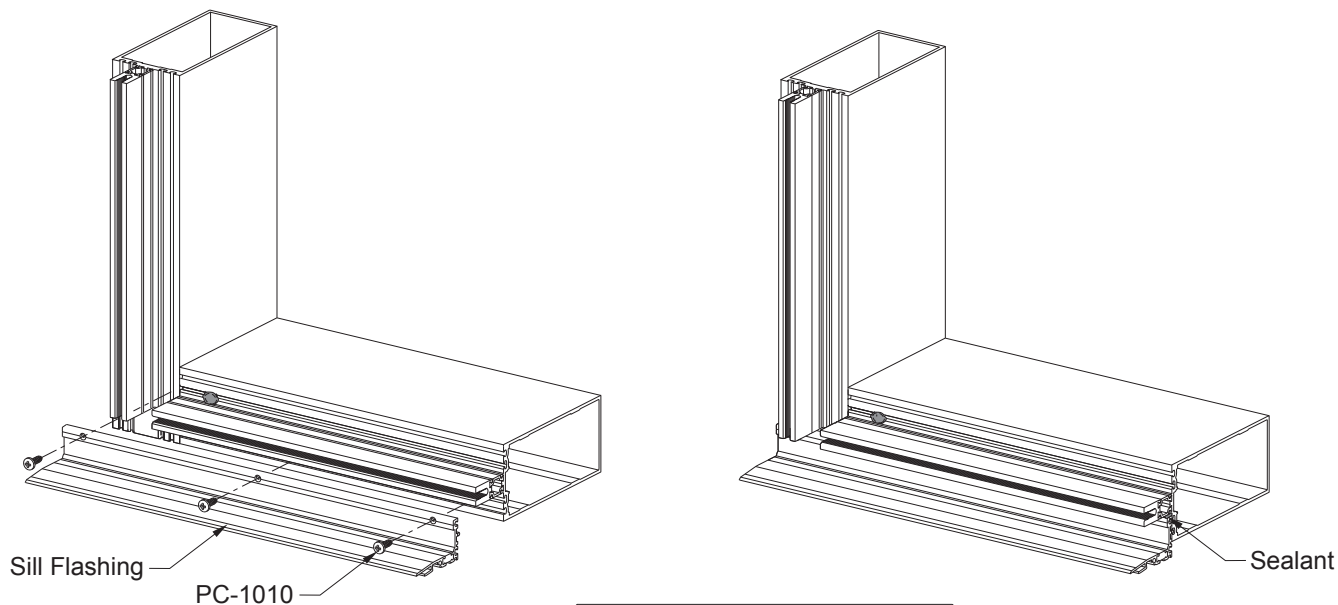
See **Detail 33**.



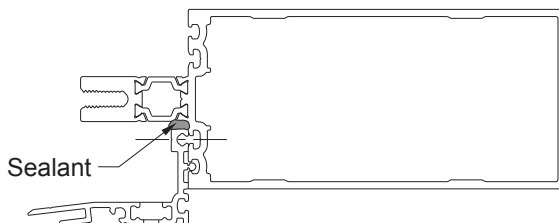
Detail 33

- Attach BE9-3918 sill flashing using PC-1010 screws.
- Apply and tool sealant at the sill and sill flashing joint.
- Apply sealant to all screw heads.

See **Detail 34**.



Detail 34

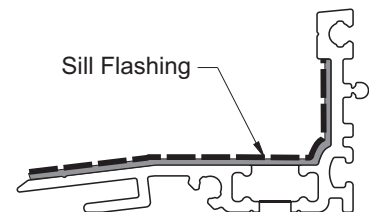


FRAME INSTALLATION

STEP 19 (Optional)

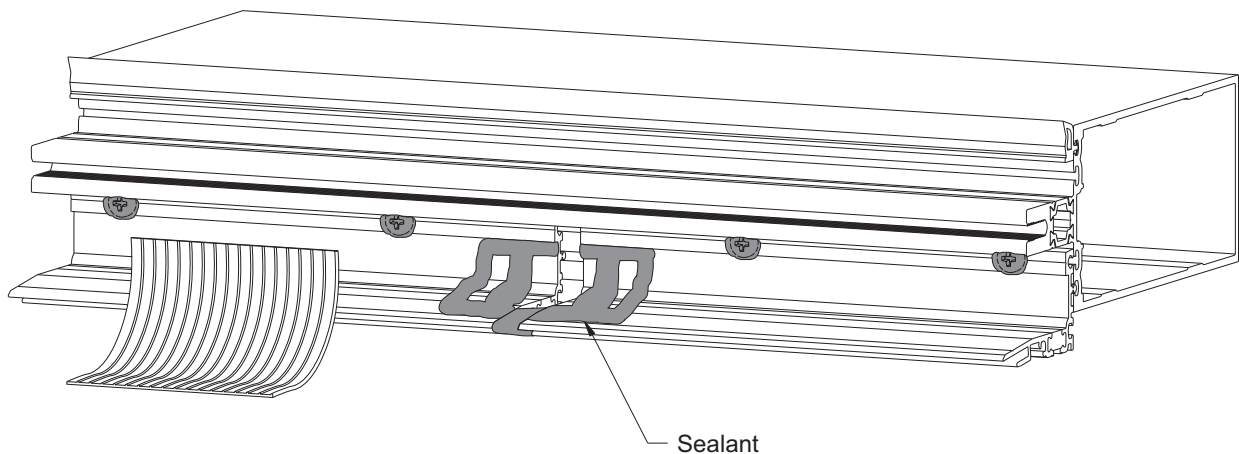
INSTALL SILL OPTIONAL FLASHING CONT.

- Cut the E2-0070 splice sleeve to the length as shown in **Detail 30**.
- Apply and tool sealant at the sill and sill flashing joint.
- Apply sealant to all screw heads.
- Position the silicone splice sleeve against the back wall below the groove.
- Bend the silicone splice sleeve into the front on the channel as shown. Mark, and cut the sleeve at this position.
- Clean sill flashing and silicone splice sleeve with iso-propyl alcohol at the splice location
- Seal the flashing at the splice location before positioning the flashing. Set the silicone splice sleeve into the sill flashing.
- Tool sealant tight, squeezing the sheet flat.
- Thoroughly seal the small joint directly in front of the silicone splice sleeve.

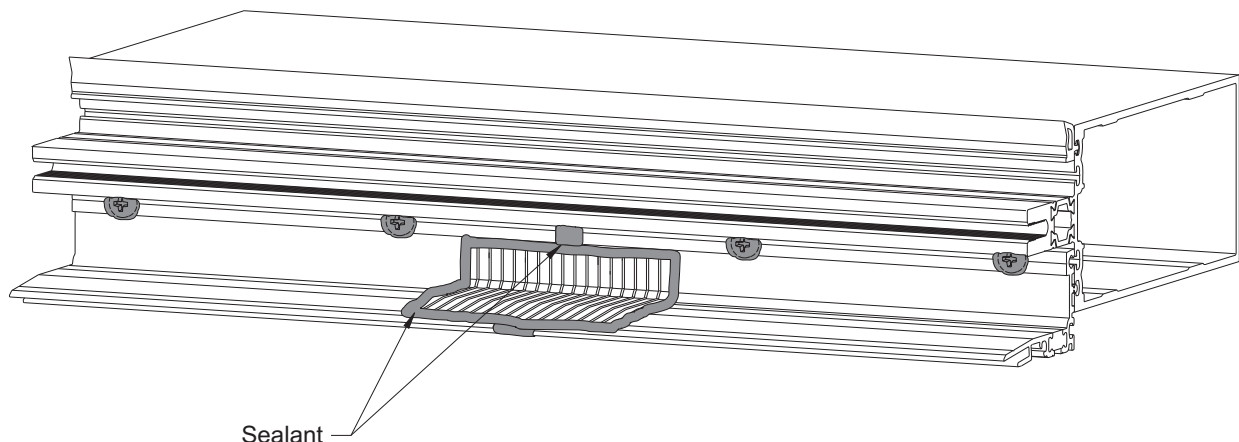


Detail 35

See **Details 35 & 36**.



Detail 36



FRAME INSTALLATION

STEP 20

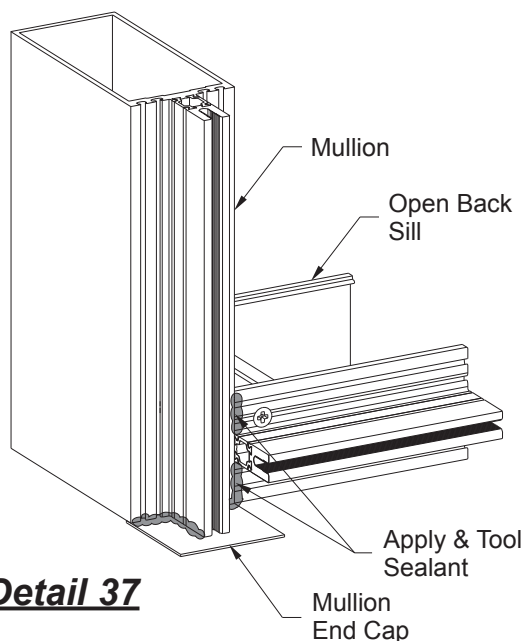
INSTALL JOINT PLUGS

The tongue of each head, horizontal and sill must be sealed to the tongue of the mullion and jamb mullions at each end with joint plugs, E2-3603 for 1" glazing, E2-3604 for 1-1/2" glazing and E2-3605 for 2" glazing.

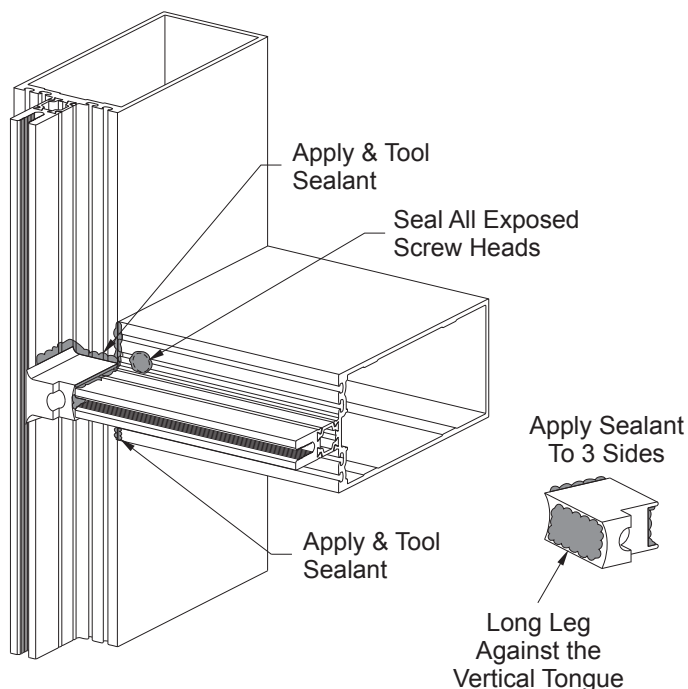
For Open Back Sill Members:

- Just prior to installing joint plugs, clean the area around the intersection of the mullion and the sill member with an approved cleaner.
 - Apply and tool sealant to the joint where the sill member meets the mullion and along the joint between the mullion end cap and the perimeter leg of the sill member.
- See **Detail 37**.

- Clean the area around the mullion tongue ends with an approved cleaner.
 - Apply and tool sealant to the joint where the horizontal meets the mullion.
 - Apply sealant to the three contact sides of the joint plug. Fill all glazing reglet cavities in the mullion's front face.
 - Install joint plug as shown with the long leg of the joint plug against the mullion tongue.
 - Press the joint plug firmly against the face of the mullion.
 - Tool the sealant to ensure a watertight seal.
 - Apply and tool sealant over fastener heads on horizontal. Make sure raceway adjacent to fastener head is effectively sealed.
- See **Detail 38**.



Detail 37



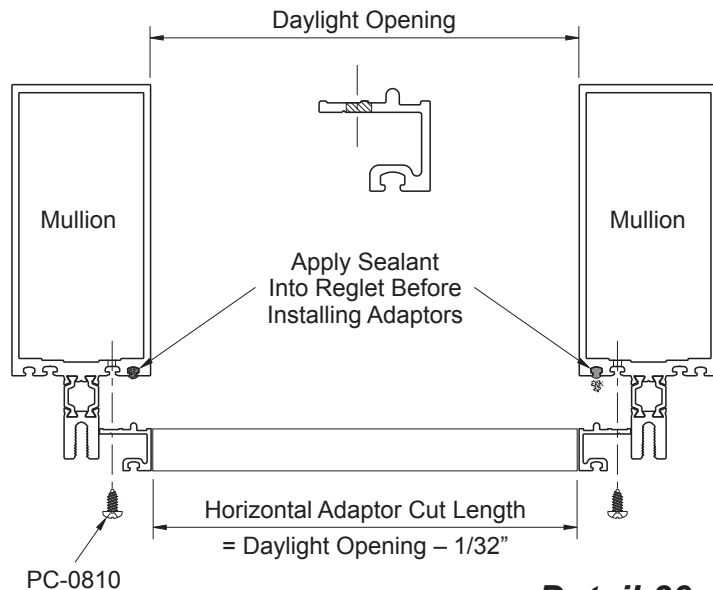
Detail 38

Int. Horizontal Shown
Head & Sill Similar

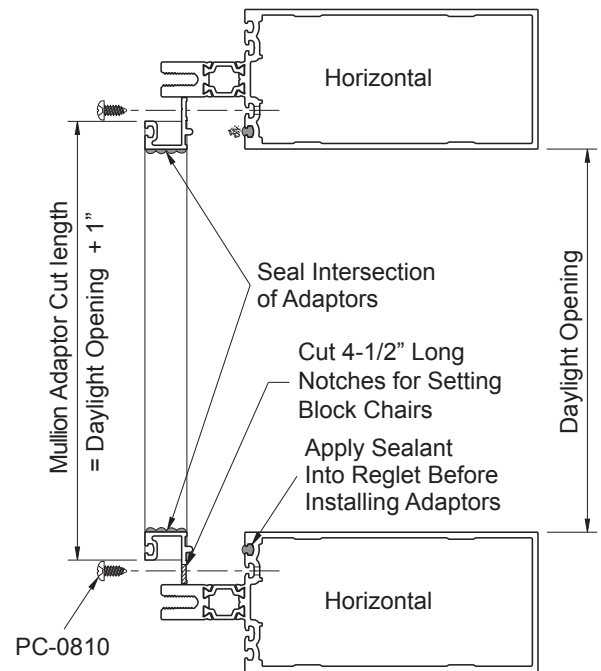
GLAZING

STEP 21 (Optional) INSTALL GLAZING ADAPTORS

Note: 1/4" glazing adaptor for 1" glazing, E9-1220 shown.
1/4" glazing adaptor for 1-1/2" glazing, E9-3936 similar.
1/4" glazing adaptor for 2" glazing, E9-3937 similar.



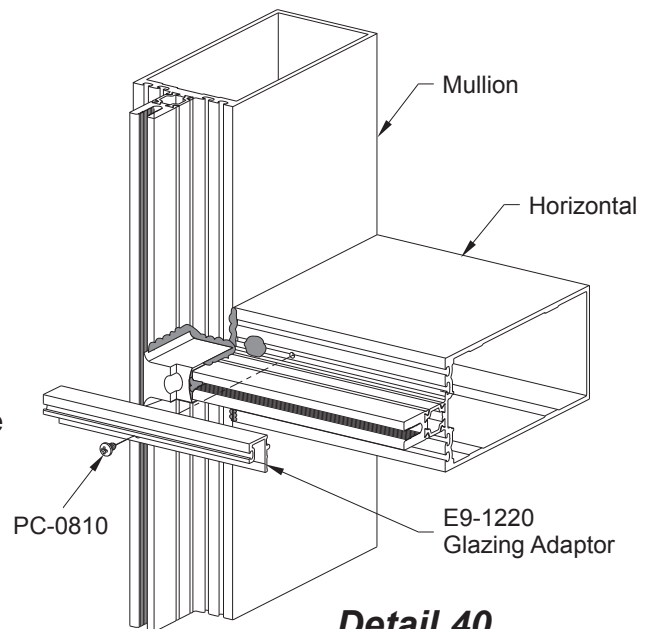
Detail 39



- Cut glazing adaptors to:
Mullion Cut Length = D.L.O. plus(+) 1".
Horizontal Cut Length = D.L.O. minus(-) 1/32".

- Predrill each adaptor along the "V"-groove with 0.189" dia. holes 2" from each end and 24" O.C.
- Dry fit adaptors and match drill 0.141" dia. holes on the mullion to receive PC-0810 fasteners.
- Clean the area around the mullion glazing reglet and the glazing adaptor with a cleaner approved by the sealant manufacturer.
- Apply sealant into the glazing reglet of the mullion and the ends of the horizontal adaptors.
- Install the adaptors with PC-0810 screws at each hole location. Install the mullion adaptors first; make sure they are centered along the day light opening.
- Tool sealant at all adaptor intersections and seal all screw heads.

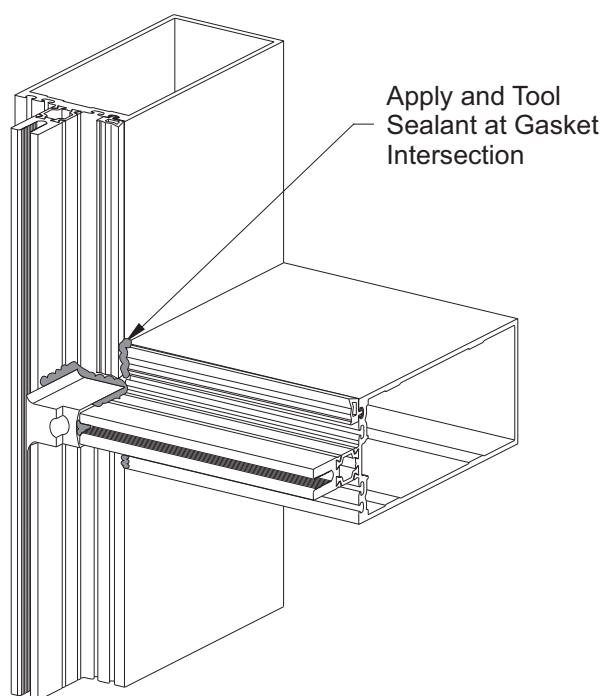
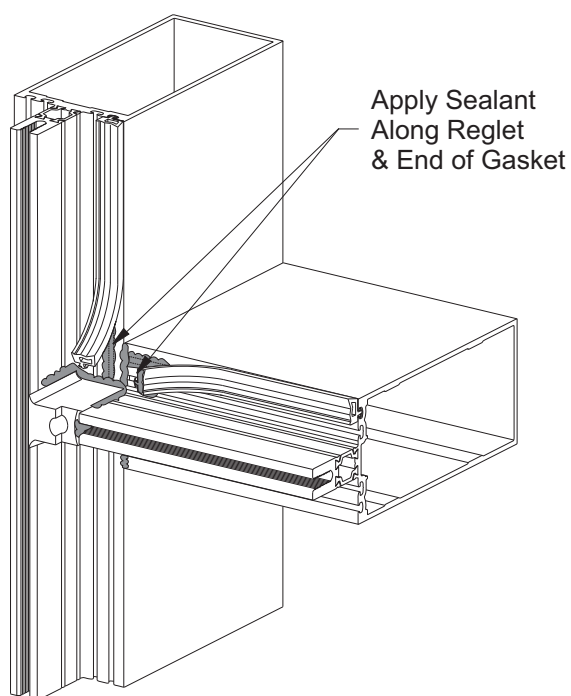
See **Detail 39 & 40**.



Detail 40

GLAZING**STEP 22****INSTALL INTERIOR GLAZING GASKETS**

- Cut E2-0120 interior glazing gaskets to size:
Vertical Gasket = Daylight Opening + 1-1/2".
Horizontal Gasket = Daylight Opening + 1/4" per each foot of opening width.
- Install vertical gaskets first, centered along the daylight opening.
- Install horizontal glazing gaskets next.
 - Insert the glazing gasket into the reglet at each end first.
 - Snap the rest of the glazing gasket into the reglet starting at the center and work towards each end.

**Detail 41**

- Pull the last 3" of each gasket away from the reglet.
 - With gasket end held out of the way, run a 2-3" bead of sealant into the reglet at the ends.
 - Apply sealant at the ends of the horizontal gaskets.
 - Reinsert the ends of the gaskets pressing them firmly against the face of the mullions.
 - Apply and tool sealant at the intersection of the vertical and horizontal gaskets.
- See **Detail 41**.

GLAZING

STEP 23

INSTALL SETTING BLOCK CHAIRS AND SETTING BLOCKS

Note: For correct placement of setting block chairs and setting blocks, see **Detail 43** on **Page 46**. Consult YKK AP for setting block requirements on units that exceed 60" x 90" or 40 sq. ft.

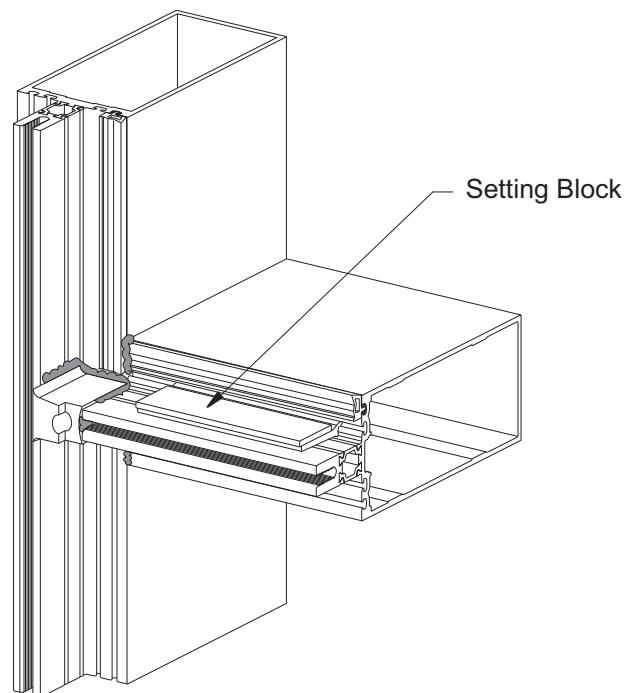
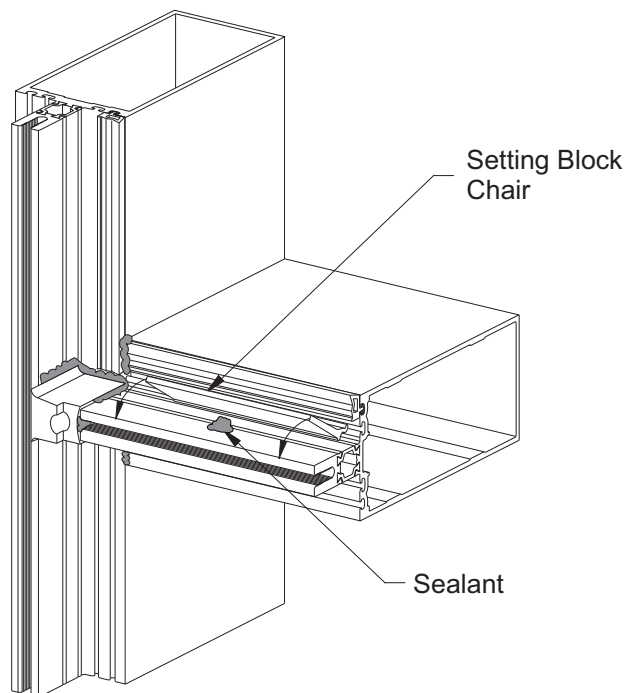
-Install the setting block chair at 1/4 points as shown in **Detail 42**.

-Apply a small amount of silicone sealant to the tongue of the horizontal to keep the setting block chair correctly positioned prior to the glass being set.

-Place the setting block on setting block chair.

See **Detail 42**.

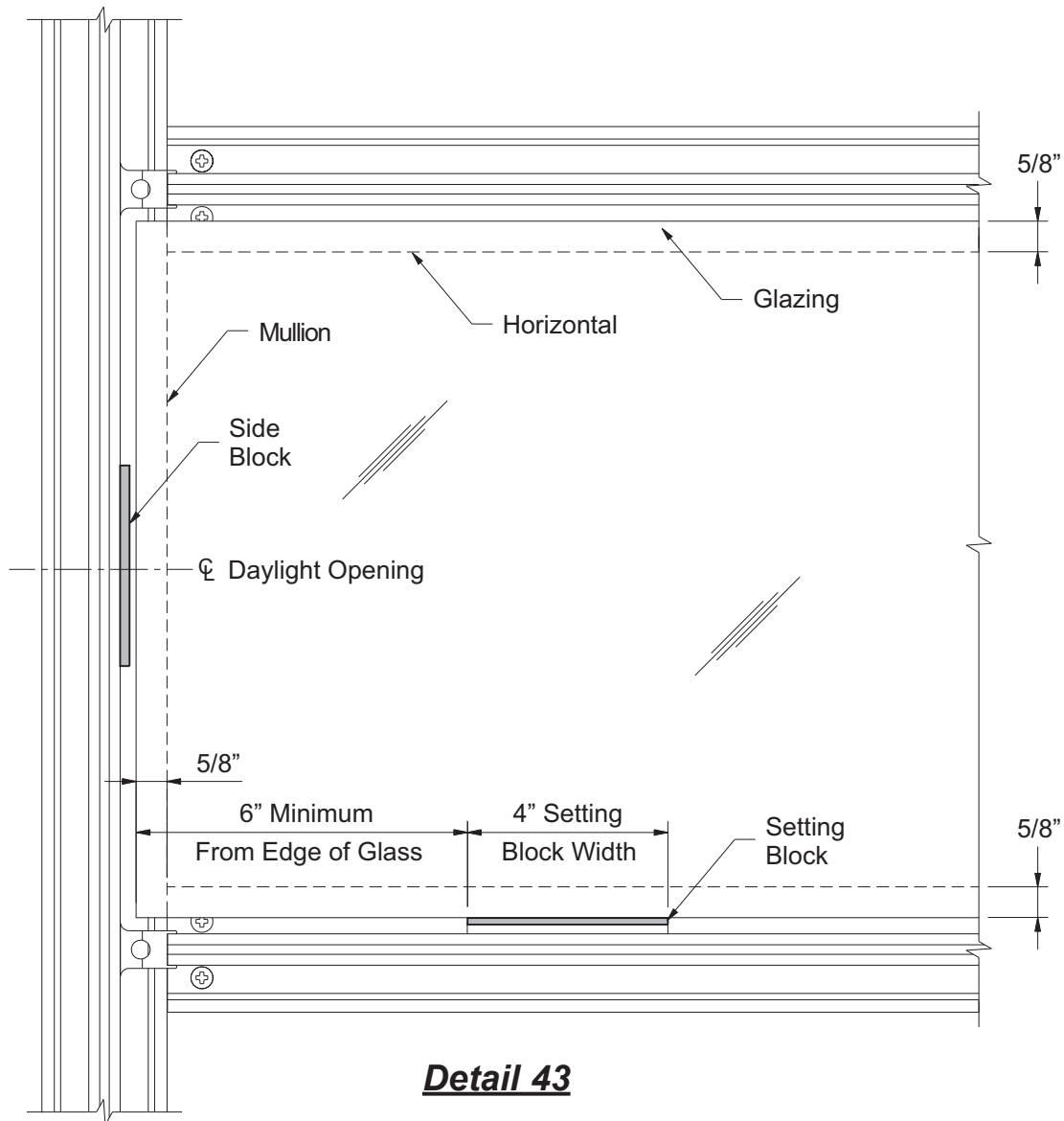
Glazing	Setting Block Chair	Setting Block
1"	E1-3603	E2-0513
1-1/2"	E1-3604	E2-3601
2"	E1-3604	E2-3602



Detail 42

GLAZING

STEP 24
INSTALL SIDE BLOCKS



-Install side blocks, E2-0133, centered along the daylight opening on both sides of glazing material.
See **Detail 43**.

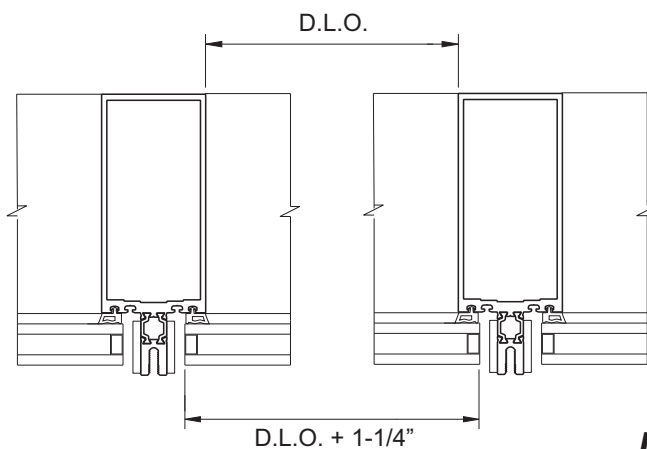
GLAZING

STEP 25

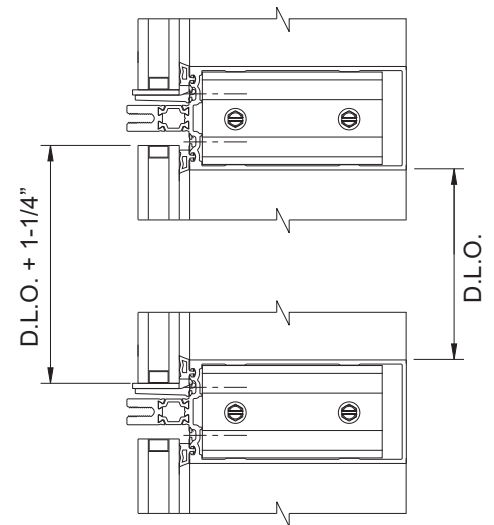
INSTALL EXTERIOR GLAZING GASKETS

- Cut E2-0120 exterior vertical glazing gaskets to the same length as the vertical pressure plates.
- Cut E2-0120 exterior horizontal glazing gaskets to daylight opening plus 1/4" per foot of opening width.
- Install vertical glazing gaskets onto the vertical pressure plates.
- Install horizontal gaskets by pushing each end into the reglet of the pressure plate. Next press center of gasket into reglet; then push gasket into reglet working from center towards the ends.

Caution: Do not stretch the gaskets.



Detail 44



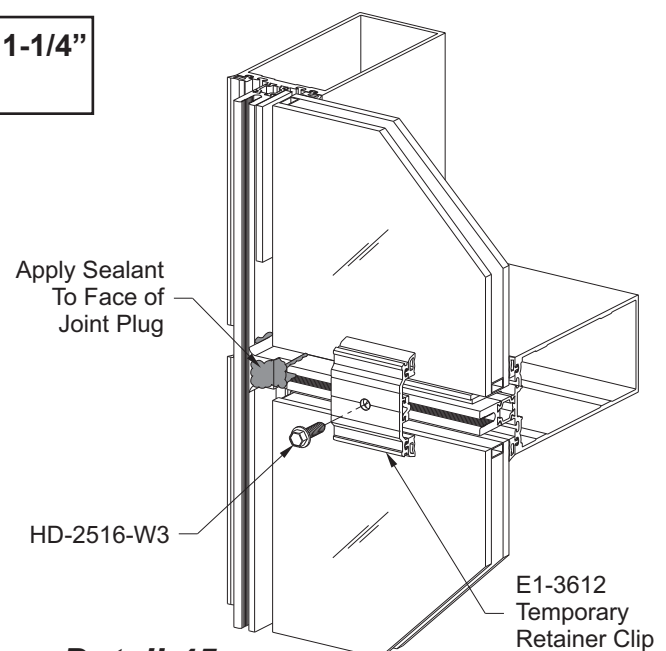
STEP 26

INSTALL GLASS

Glass and Spandrel Size = Daylight Opening + 1-1/4" Horizontally and Vertically.

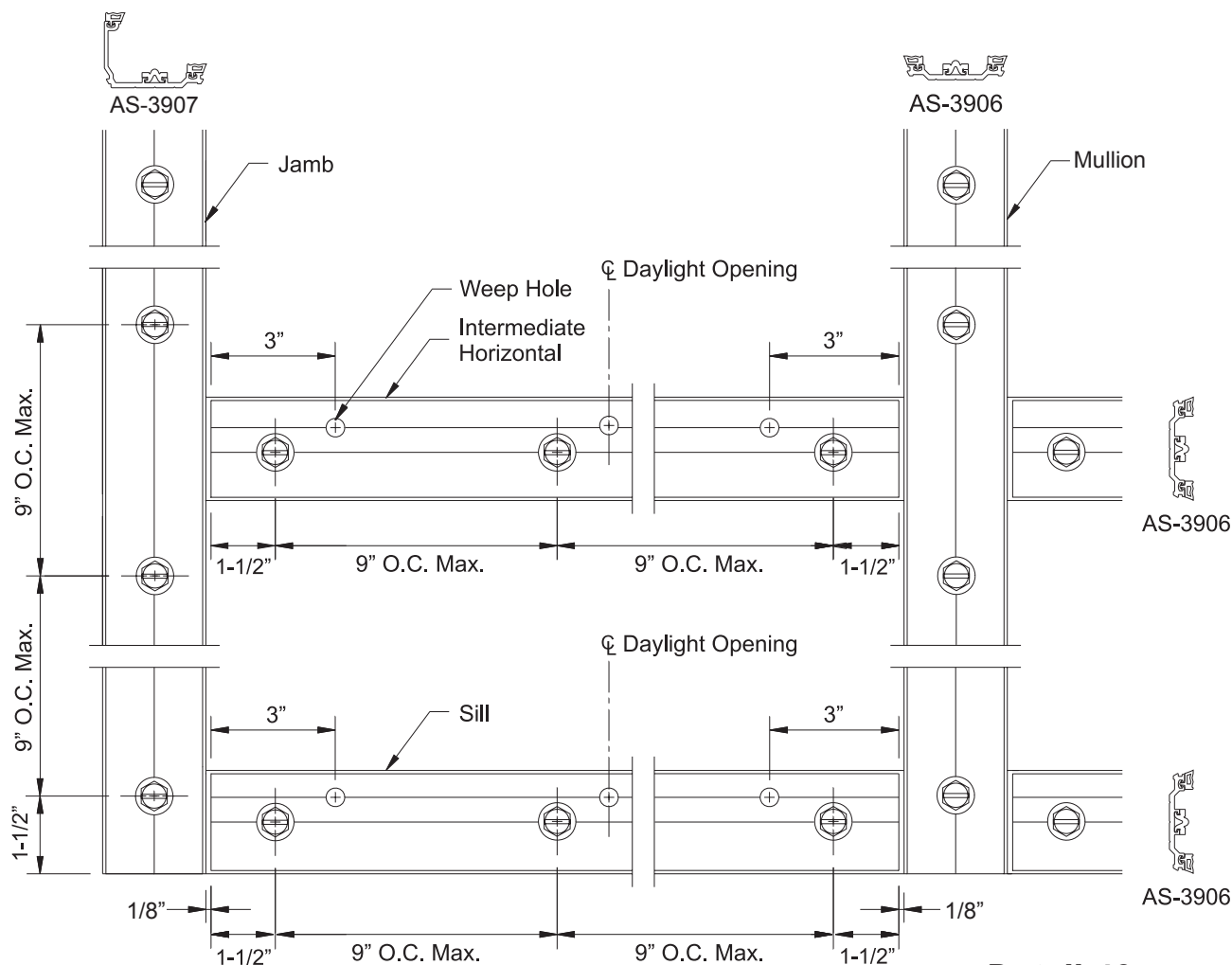
- As each lite is installed, attach a temporary retaining clip, E1-3612, in the middle of each horizontal and 4" from glass edge at each end using HD-2516-W3 fasteners.
- Reuse the temporary retaining clips.
- Apply sealant to the face of the joint plugs just prior to installing vertical pressure plates. Do not allow sealant to skin over prior to installing pressure plates.

Note: Sealant must form a complete seal between the exterior gasket, pressure plate, thermal isolator, and the joint plug.



Detail 45

See **Detail 44 & 45.**

GLAZING
STEP 27
PRESSURE PLATE LAYOUT AND ASSEMBLY

Detail 46

-Pressure plate stock lengths are factory punched with 0.281" diameter holes at 9" O.C. maximum. After cutting, additional holes may be required to have fasteners 1-1/2" from each end. Seal over holes less than 1-1/2" from the ends.

See **Detail 46**.

-Install vertical pressure plates using HD-2516-W3 screws. Initially torque screws to 30 inch-pounds with a torque limiting screw gun. Work from the bottom up.

Note: The vertical gasket **MUST** clear the tongue of the horizontal mullion.

-Torque all vertical pressure plate screws to 50-inch pounds. Do not over-torque.

-Install vertical face cover E9-1206 using a mallet and a clean scrap piece of lumber. Start at one end and work down the vertical.

See **Detail 47** on **Page 49**.

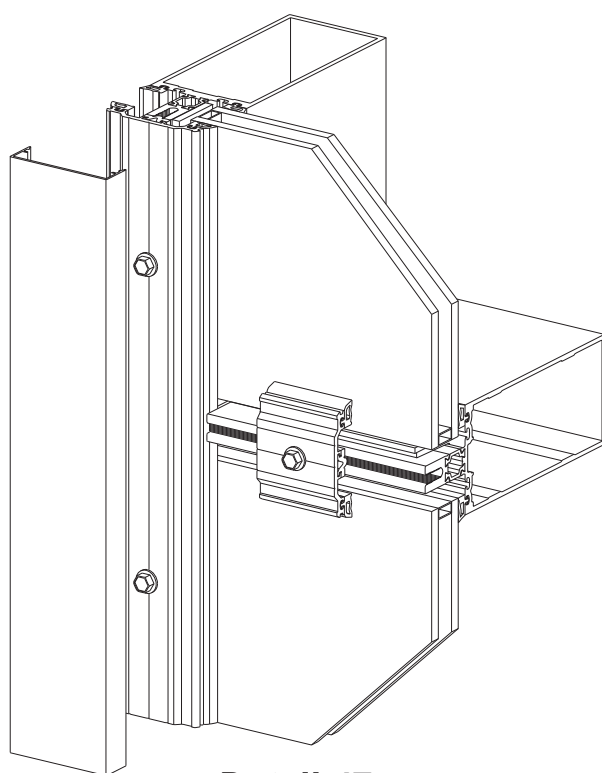
-Center and install horizontal pressure plates in opening, leaving a 1/8" gap at the ends.

-Starting at the center of each pressure plate, tighten each retainer screw to 50 inch-pounds.

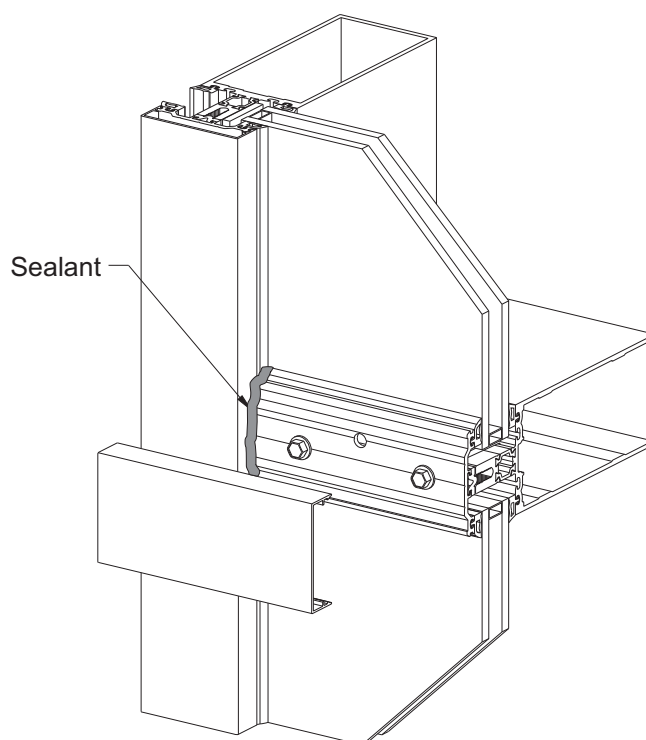
GLAZING

STEP 28 INSTALL EXTERIOR FACE COVERS

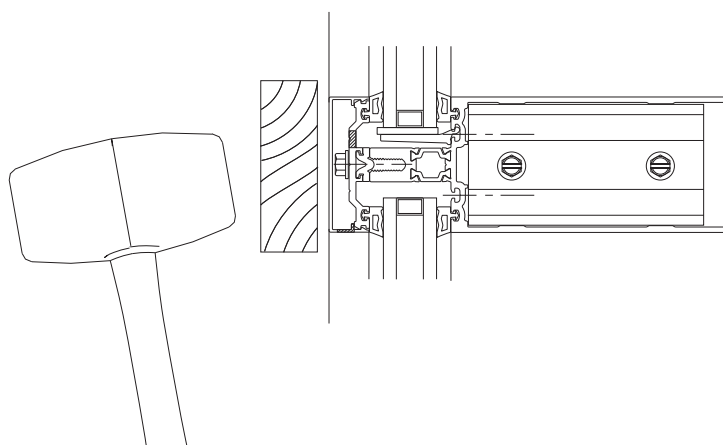
- Apply and tool sealant to completely seal between the ends of the horizontal pressure plates and vertical covers. See **Detail 47**.
- Install horizontal face cover E9-1206.
- Snap on horizontal face covers using a mallet and a clean scrap piece of lumber. Start at one end and work across the horizontal. See **Detail 48**.



Detail 47



Detail 48

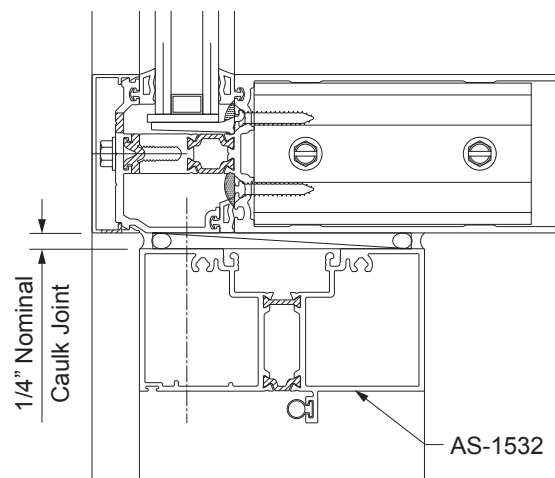


DOOR SUBFRAME INSTALLATION**STEP 28 (Continued)****FASTEN DOOR SUBFRAME AT TRANSOM**

Horizontals at the door transom are largely the same as regular horizontals.

For YCW 750 XT, the AS-1532 transom bar can be fastened into the perimeter pressure plate or the horizontal mullion itself.

See **Detail 49**.



Detail 49



270 Riverside Parkway
Suite 100
Austell, Georgia 30168
www.ykkap.com