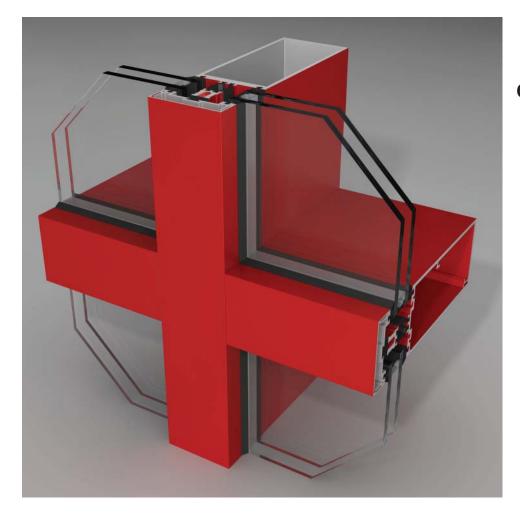
400TU High Performance Curtain Wall Description

Therm\\Block_



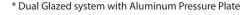
 $U_c = 0.31^*$ CRFf = 72*

Description

Tubelite's newest thermally broken curtain wall product has been designed to meet or exceed today's stringent energy codes. The 400TU Series has a 2 ½" face, and offers screw-spline or shear block joints. The pressure bar system can be stick fabricated, or assembled into "ladders" at your shop for field glazing.

Glass is positioned to the system exterior for enhanced resistance to rainwater. Seven

anodized finishes and 20 standard paint color are available on this framing system to complement any project with warranteed protection, as well as street appeal. 400TU also accepts accessories like Tubelite Operable Windows, Therml=Block® Doors, MaxBlock® Sun Shades and aLuminate® light shelves.





400TU High Performance Curtain Wall

Guide Specifications

General

Description

Furnish all necessary materials, labor and equipment for the complete installation of aluminum framing as shown on the drawings and specified herein.

Curtain wall framing shall be 400TU Series 2 1/2" x (6", 7 1/2" or 10" - dual glazed) (6 3/4", 8 1/4" or 10 3/4" - triple glazed) as manufactured by Tubelite Inc., Walker, Michigan. Whenever substitute products are to be considered, supporting technical literature, samples drawings and performance data must be submitted ten (10) days prior to bid in order to make a valid comparison of the products involved.

Test reports certified by an independent laboratory must be made available upon request.

Performance Requirements

Air infiltration shall not exceed 0.06 CFM/Ft² when tested in accordance with ASTM E-283 at a test pressure of 6.24 PSF.

There shall be no uncontrolled water entry when tested in accordance with ASTM E-331 "Water Penetration of Exterior Windows, Curtainwalls and Doors by Uniform Static Air Pressure Difference" at a test pressure of 15 PSF.

There shall be no uncontrolled water entry when tested in accordance with AAMA 501.1-94 at a dynamic pressure equivalent of 15 PSF.

Structural performance per ASTM E330 shall be based on a maximum allowable deflection of L/175 of the span or 3/4" maximum. The system shall perform to those criteria under a wind load of +70/-68 PSF.

Thermal values for transmittance and condensation resistance shall be as follows in these configurations:

	Dual Glazed 7 1/2" System					
	U-value		AAMA 1503			
Pressure Plate	NFRC 102	AAMA 1503	CRF Glass	CRF Frame		
Aluminum	0.31	0.32	72	80		
Polyamide	0.30	0.31	73	81		

	Dual Glazed 8 1/4" System					
	U-value		AAMA 1503			
Pressure Plate	NFRC 102	AAMA 1503	CRF Glass	CRF Frame		
Aluminum	0.21	0.22	79	83		
Polyamide	0.21	0.21	80	84		

The system shall have a Sound Transmission Class (STC) rating of 38/dual & 41/triple and an Outdoor-Indoor Transmission Class (OITC) rating of 32/dual & 30/triple

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when tested in accordance with ASTM E90-09, ASTM E413-10 and ASTM E1332-10a.

There shall be no buckling, stress on glass, edge seal failure, excess stress on storefront structure, anchors and fasteners or reduction in performance when tested in accordance with AAMA 501.5-98 at a temperature range of 0° to 180° F.

Products

Materials

Extrusions shall be of aluminum alloy 6063-T5 extruded within commercial tolerance and free from defects impairing strength and/or durability. Main framing sections to be of .075 inch minimum wall thickness and glazing stop moldings of .060 inch thickness.

Screws, bolts and all other accessories to be compatible with the aluminum under normal service conditions. Final fasteners and anchors must be reviewed and approved by a Professional Engineer.

Glazing shall be by means of an exterior roll-in wedge of high quality extruded elastomeric material, and an interior seal around the glass perimeter using DOW 995 structural silicone.

Finish

All exposed framing surfaces shall be free of scratches and other serious blemishes.

Finish to be: (architect select) Etched and clear anodized (AAM10C21A31) Clear - Class II (C2)(AAM10C21A41) Clear - Class I (C1) Electrolytically deposited color (AAM10C21A44) Class 1 Champagne (CH) Medium Bronze (MB) Light Bronze (LB) Dark Bronze (DB) Extra Dk Bronze (EB) Black (BL) (CA) Copper

Execution

Installation

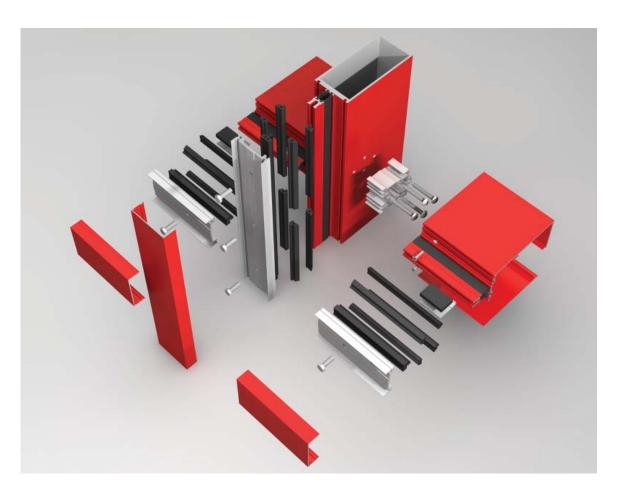
Shall be in accordance with the manufacturer's installation instructions and the approved shop drawings.

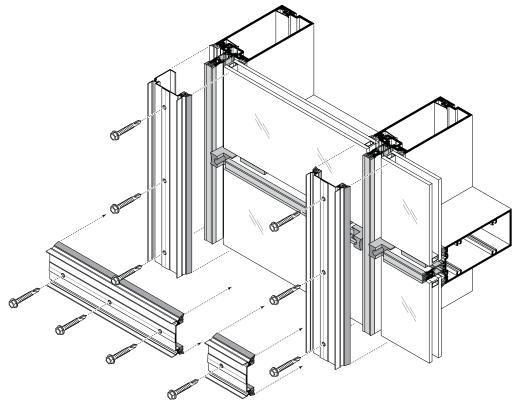
Fluoropolymer (70%) painted color _

Note:

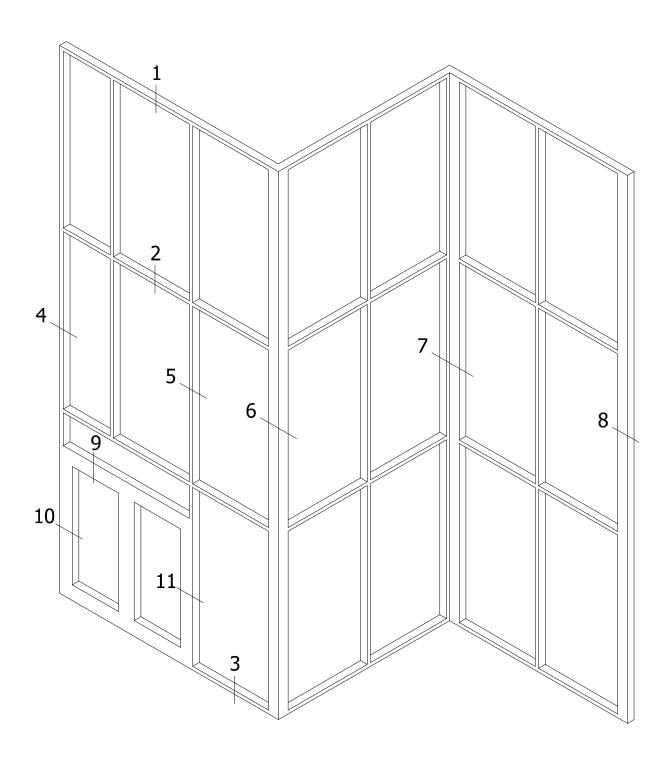
In keeping with Tubelite's policy of continuing product improvements, all specifications are subject to change without written notice by the manufacturer.

22.03 400TU High Performance Curtain Wall Isometric Detail

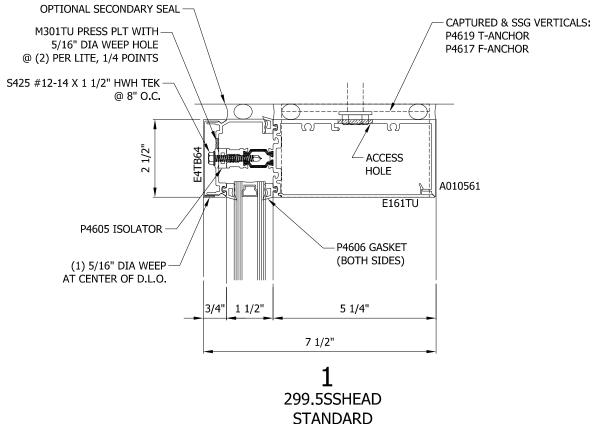


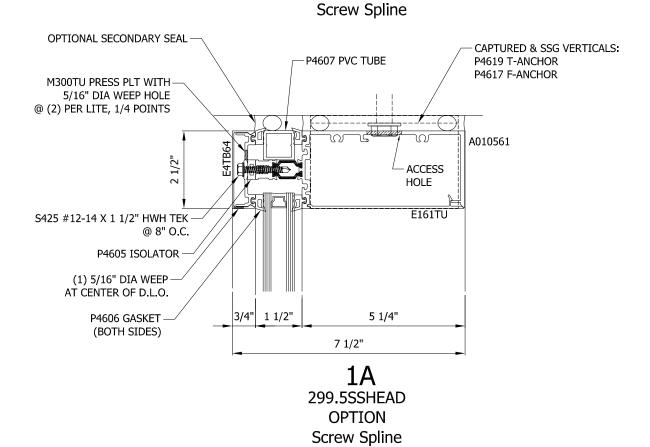




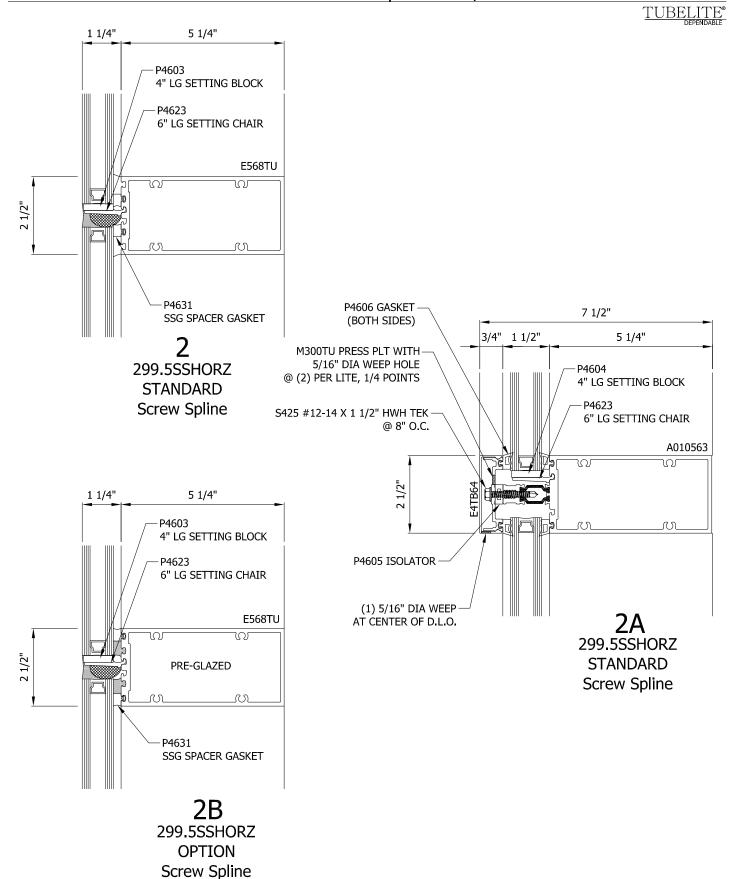


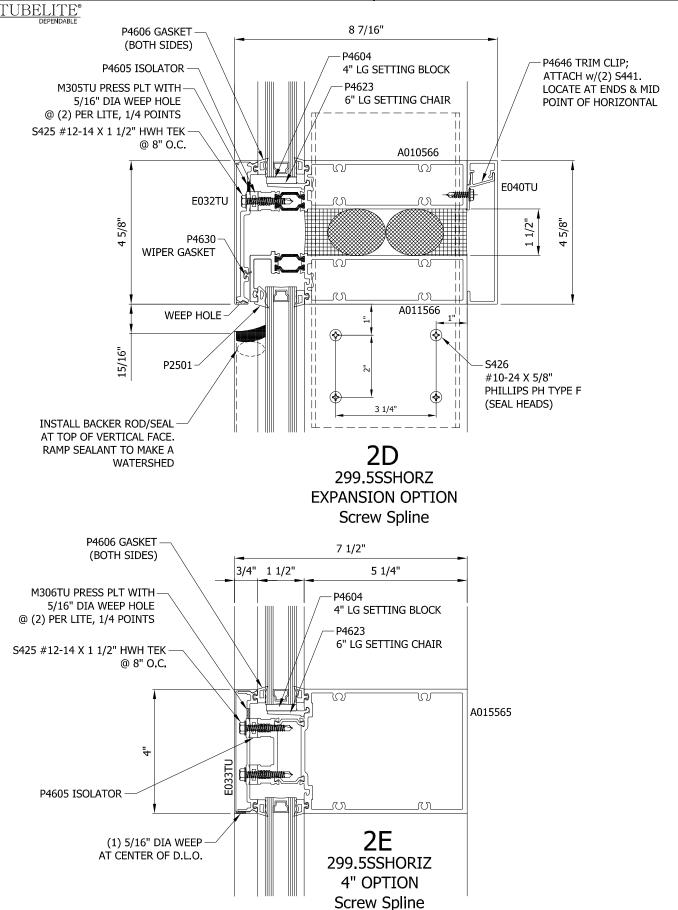




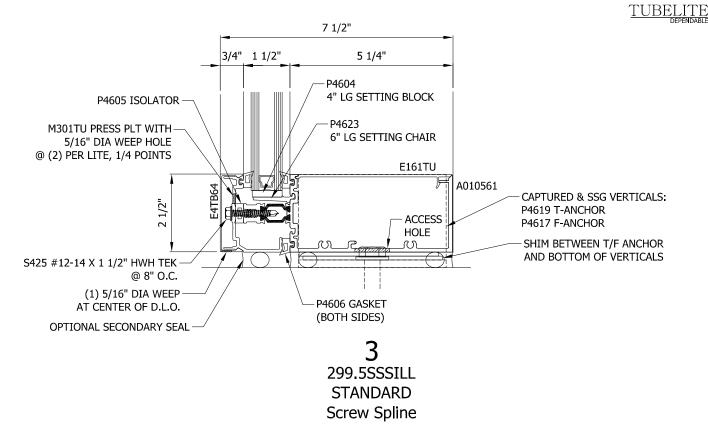


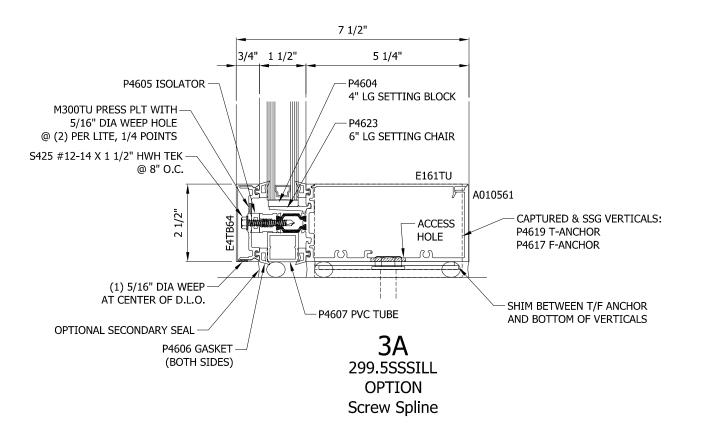
22.56 Release Date: 2/02/16

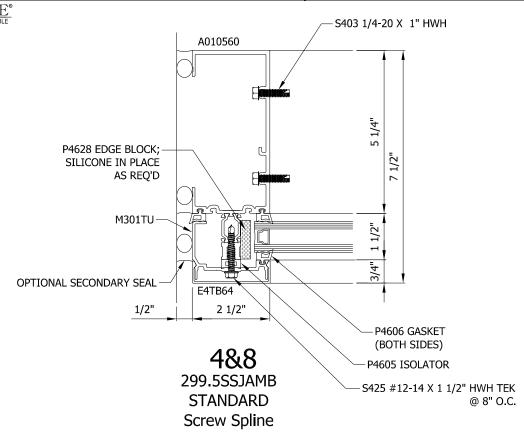


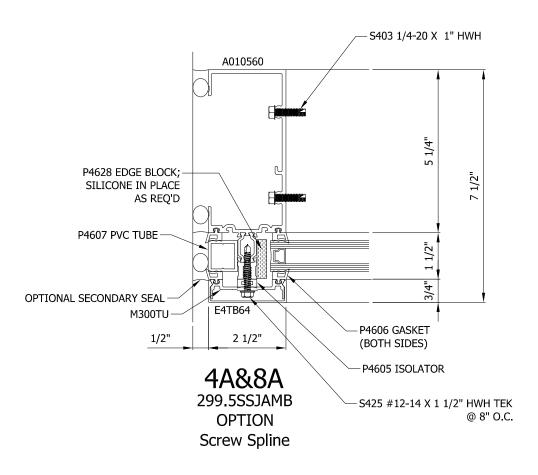


22.58 Release Date: 2/02/16

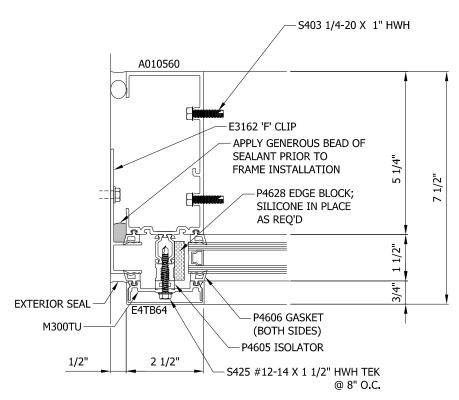






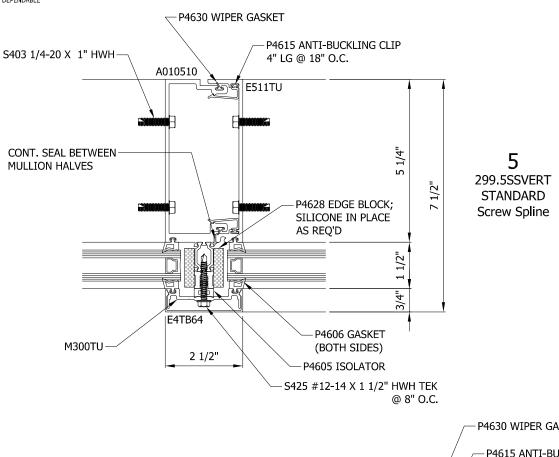


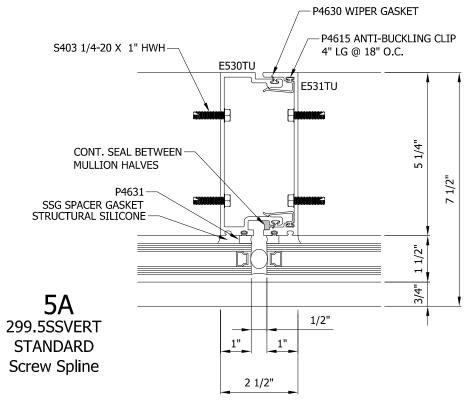
22.60 Release Date: 2/02/16



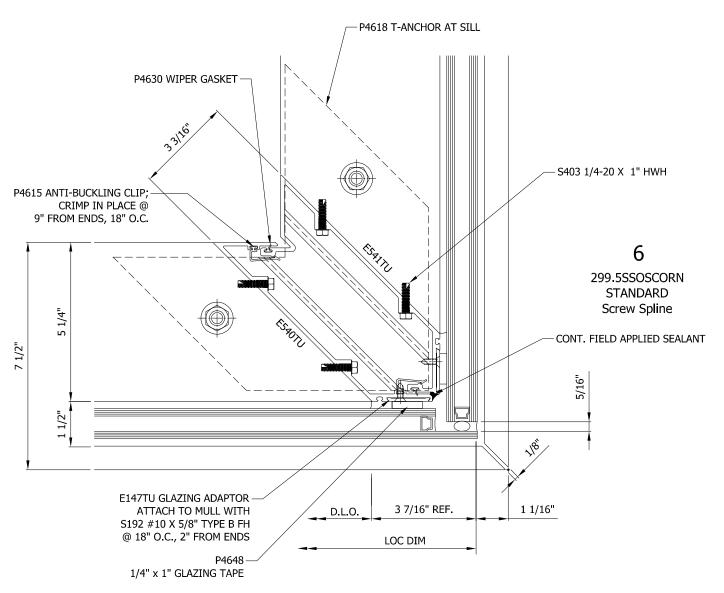
4B&8B 299.5SSJAMB OPTION Screw Spline

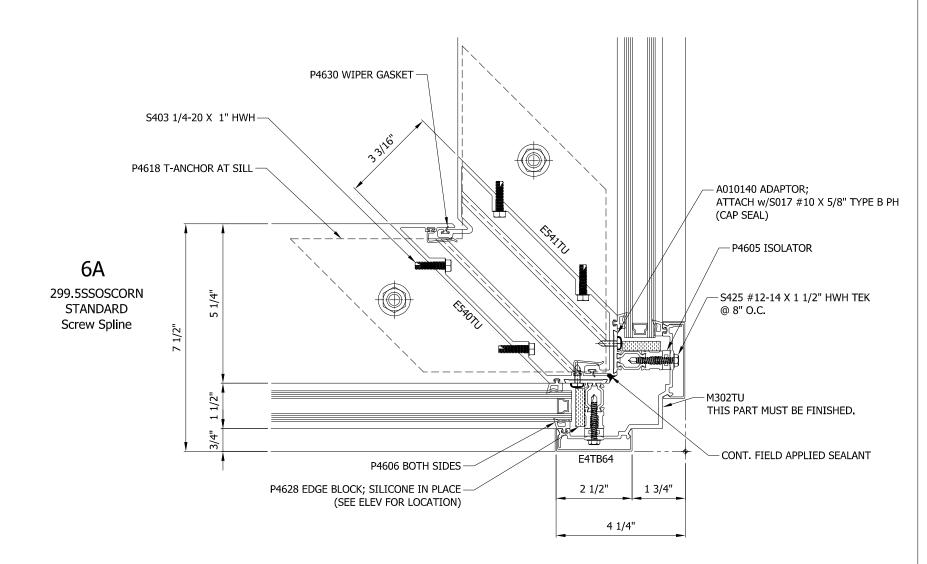
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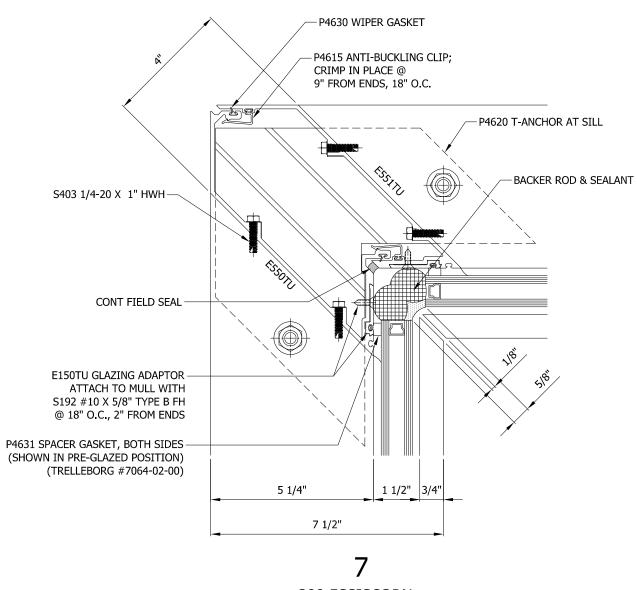




22.62 Release Date: 2/02/16

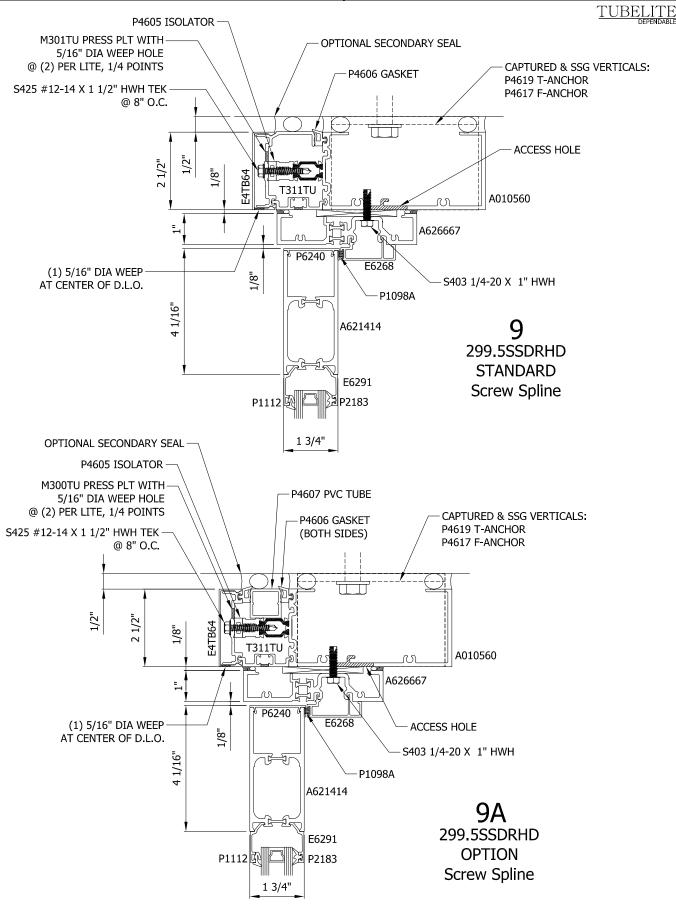




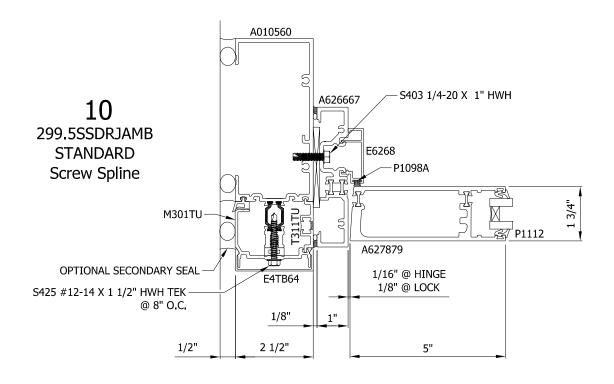


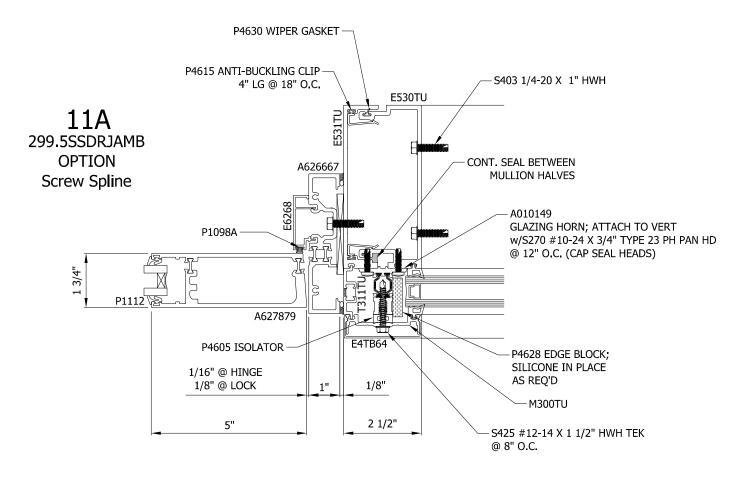
299.5SSISCORN STANDARD Screw Spline

22.64 Release Date: 2/02/16

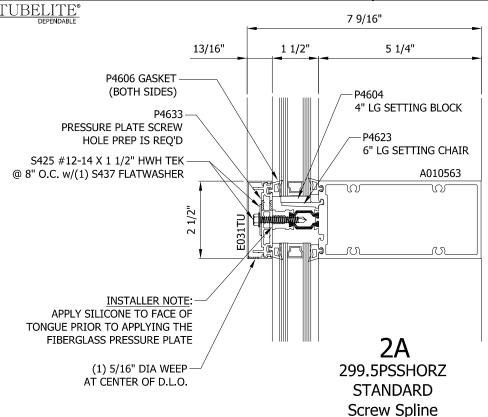


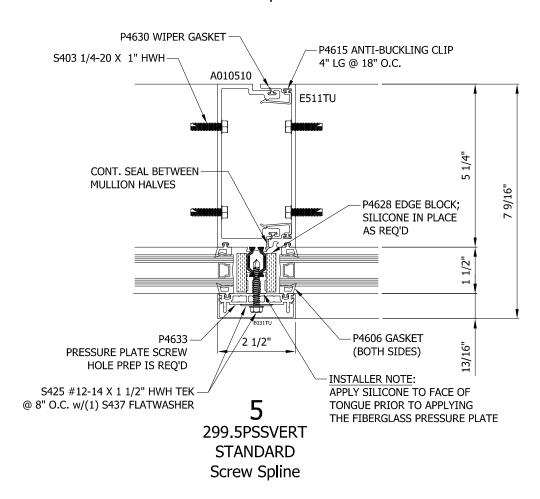
<u>400TU Ultra Thermal Curtain Wall - Screw Spline - 5 1/4 - Aluminum Pressure Plate TUBELITE</u>°



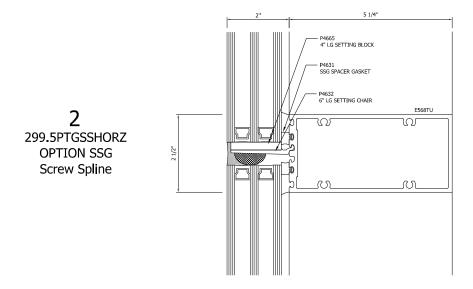


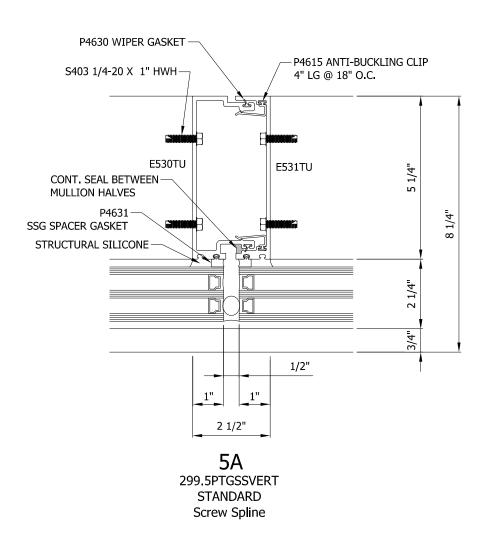
22.66 Release Date: 02/02/16



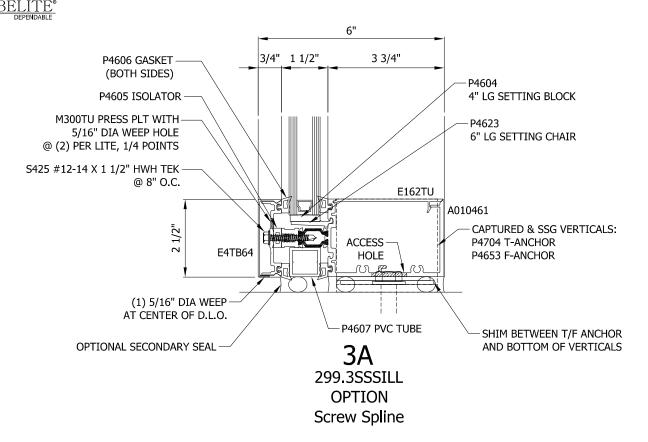


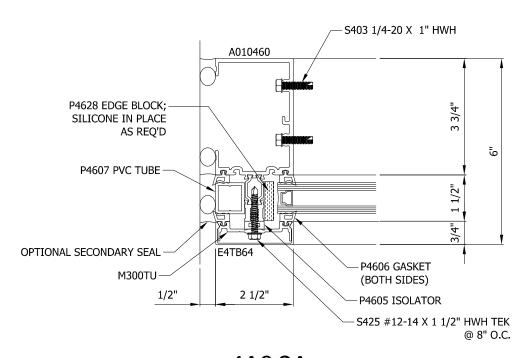
22.68 Release Date: 2/02/16





22.74 Release Date: 2/16/16

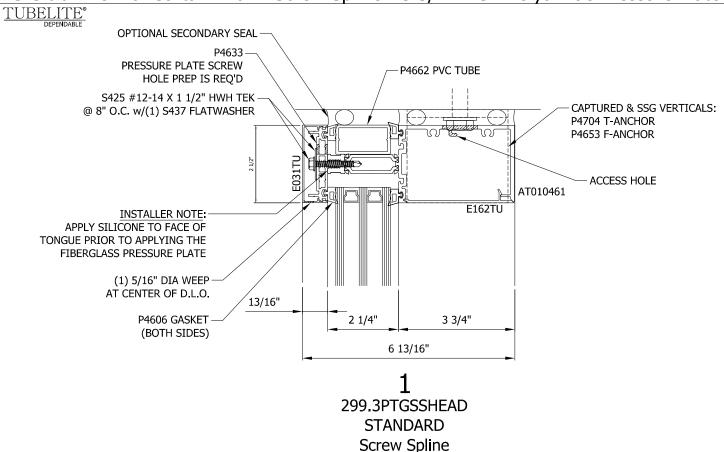


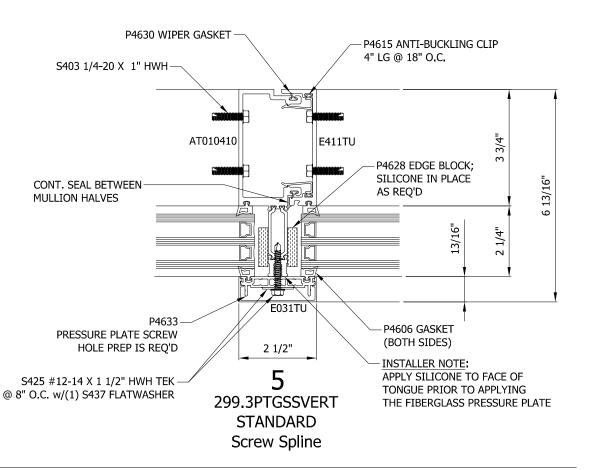


4A&8A 299.3SSJAMB OPTION Screw Spline

22,54 Release Date: 2/15/16

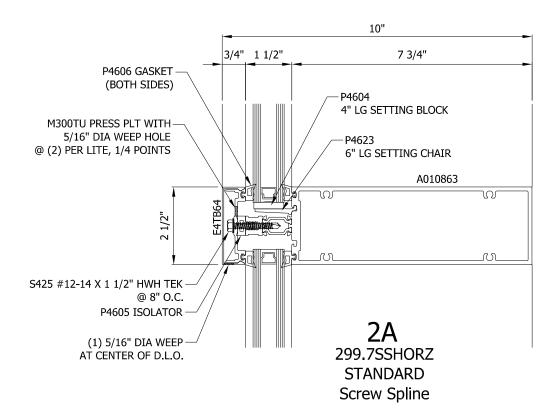
400TU Ultra Thermal Curtain Wall - Screw Spline - 3 3/4 - TG - Polyamide Pressure Plate

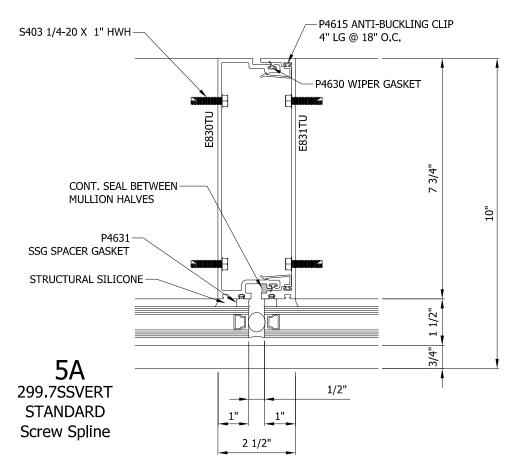




22.72 Release Date: 2/16/16

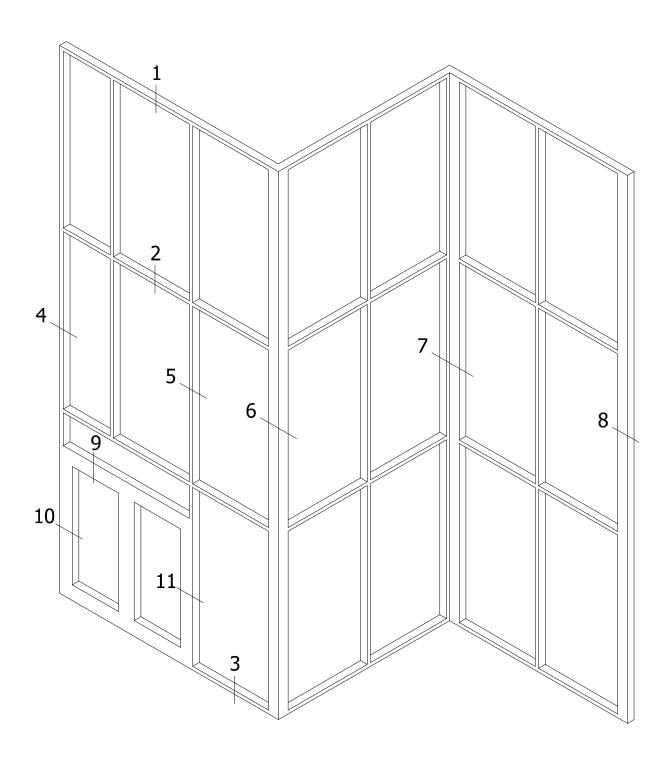
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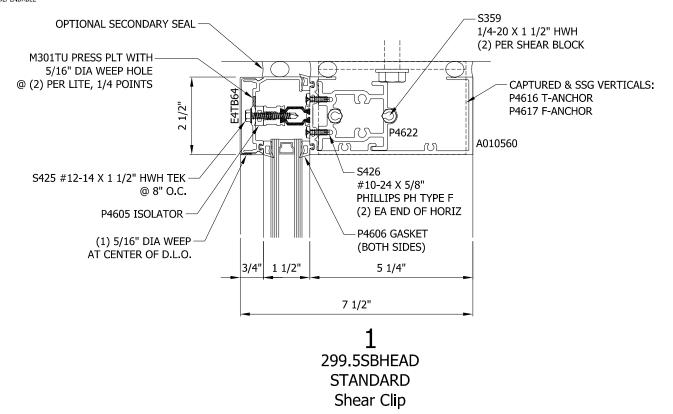


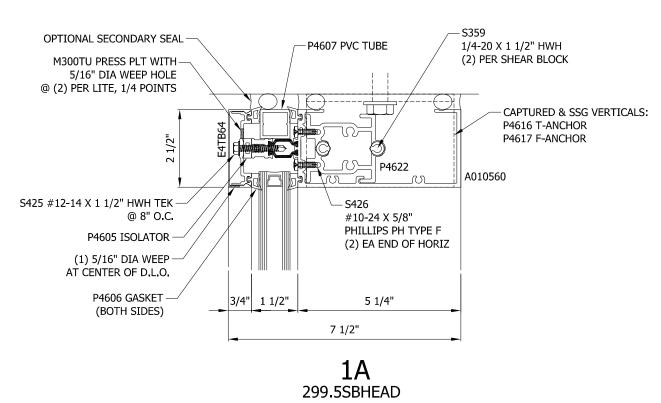
22.70 Release Date: 02/15/16





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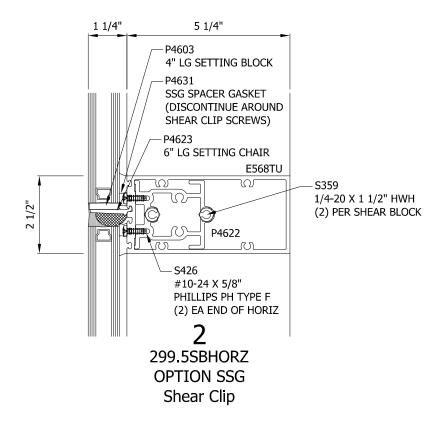


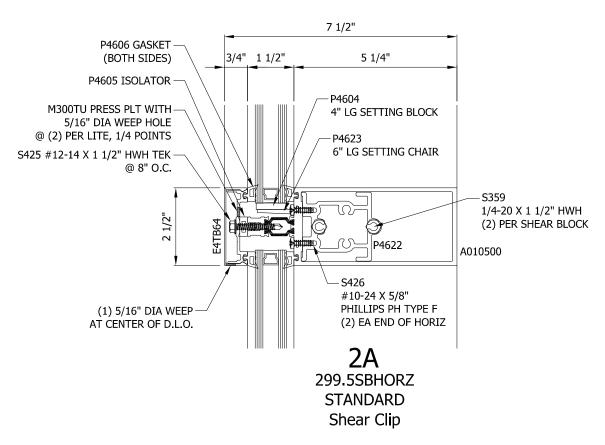


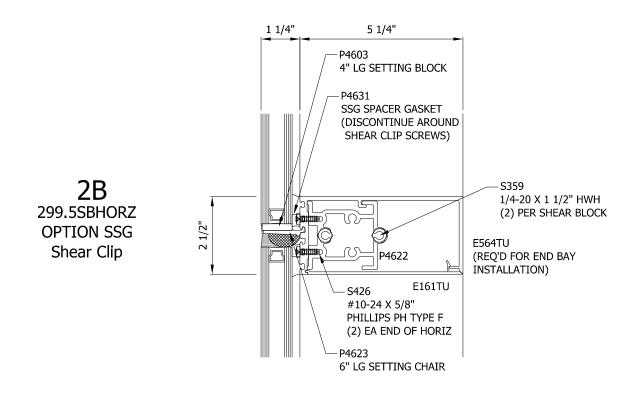
OPTION Shear Clip

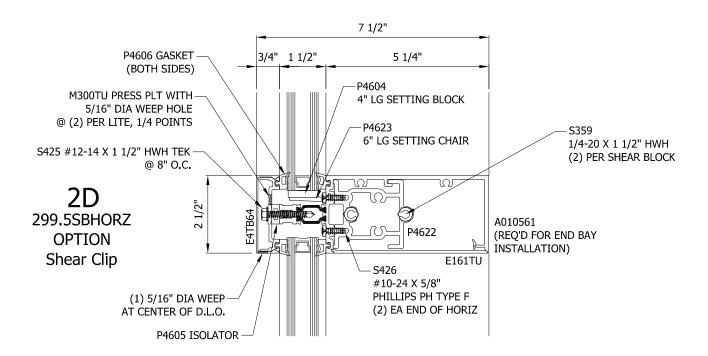
22,06 Release Date: 2/02/16

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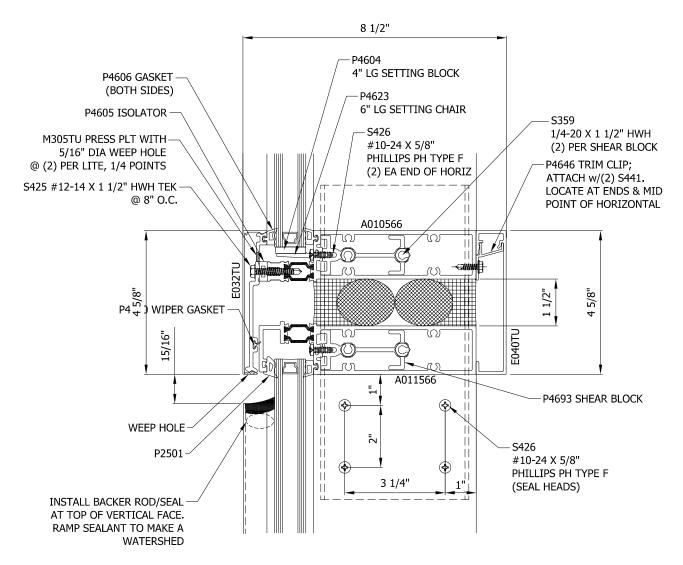






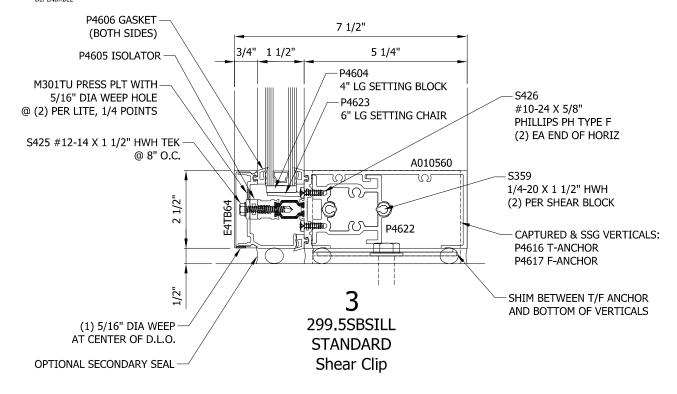


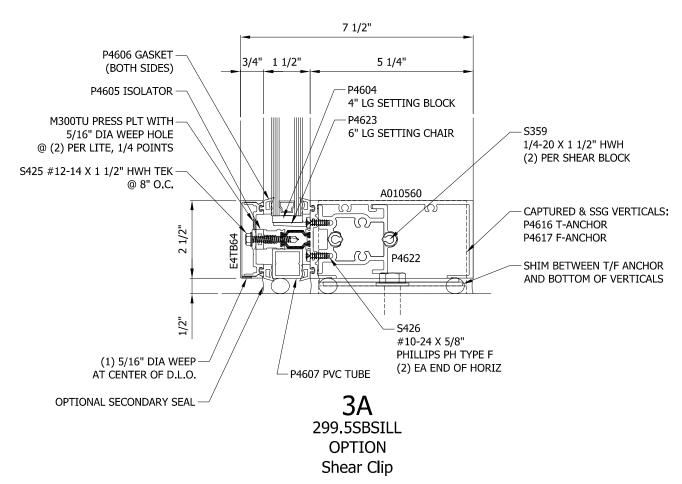
22,08 Release Date: 2/02/16



2G 299.5SBHORZ EXPANSION OPTION Shear Clip

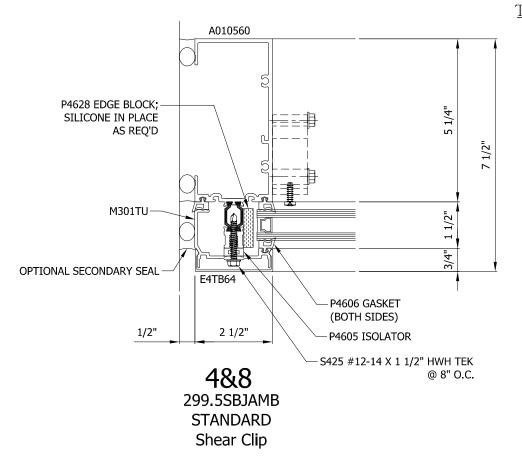
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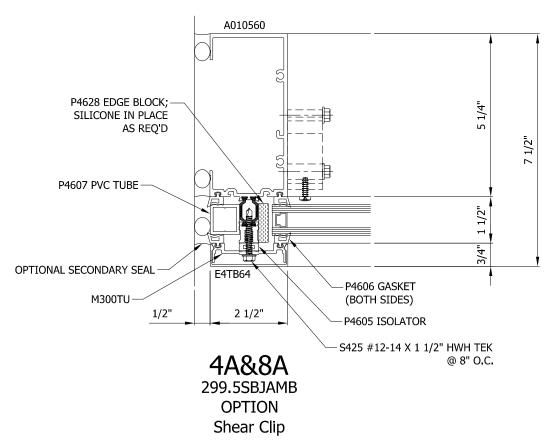




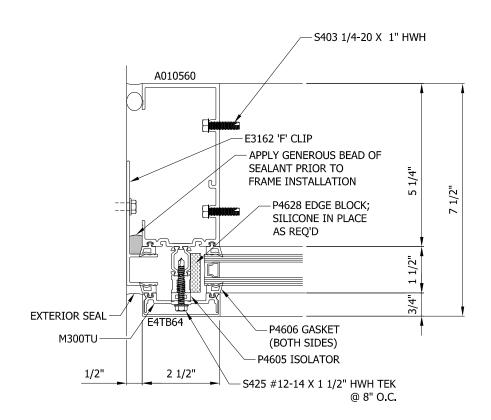
22.10 Release Date: 2/02/16

400TU Ultra Thermal Curtain Wall - Shear Clip - 5 1/4 - Aluminum Pressure Plate <u>TUBELITE®</u> REBEDIATE IN TUBELITE®





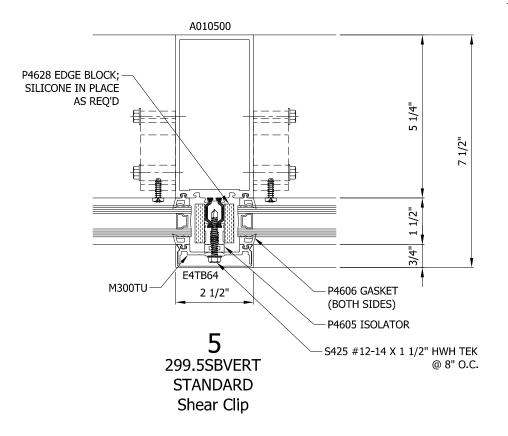
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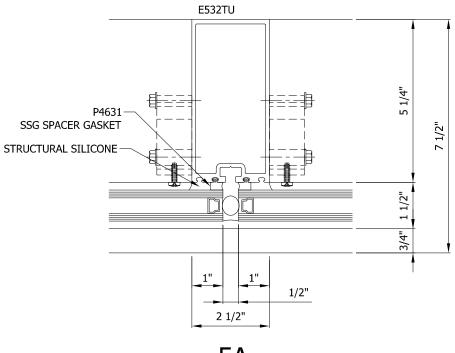


4B&8B 299.5SSJAMB OPTION Screw Spline

22.12 Release Date: 2/02/16

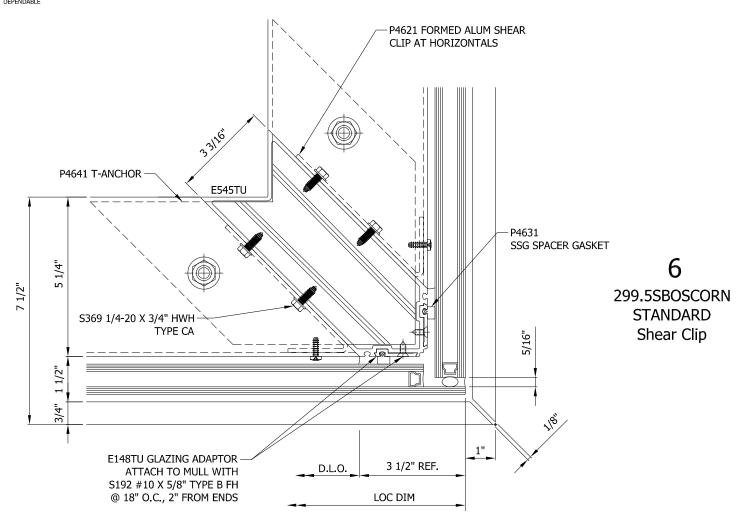
TUBELITE® DEPENDABLE

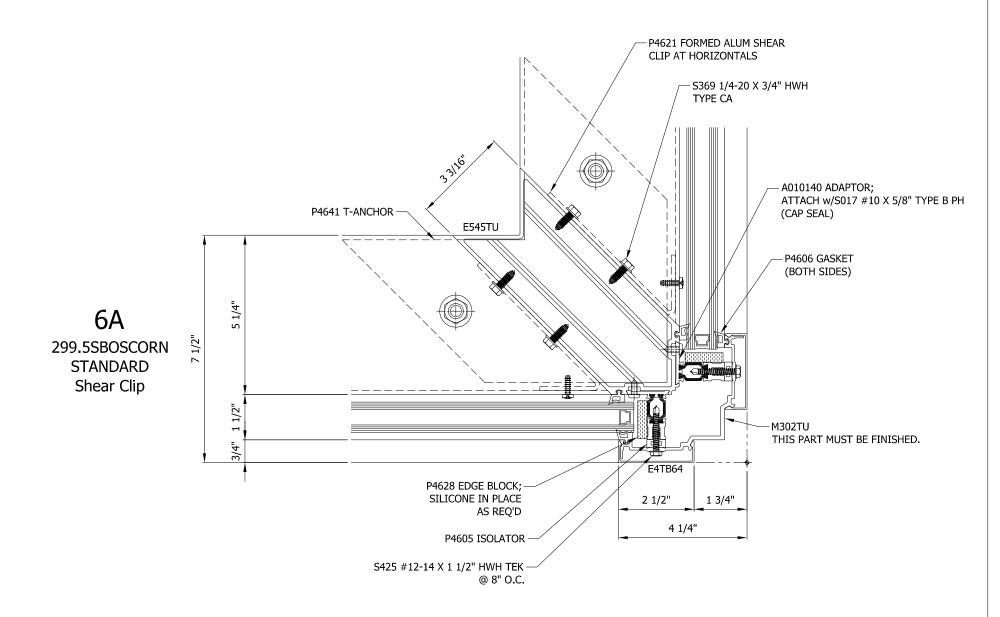




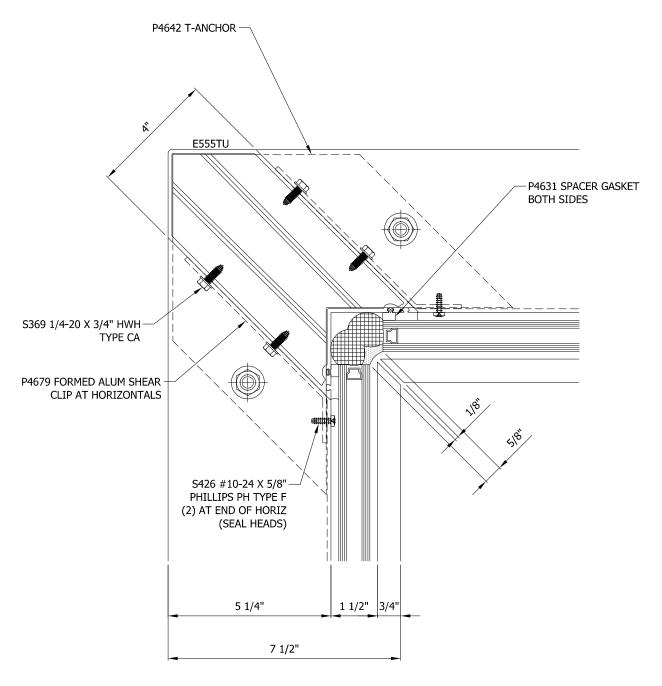
5A 299.5SBVERT STANDARD Shear Clip

TUBELITE®

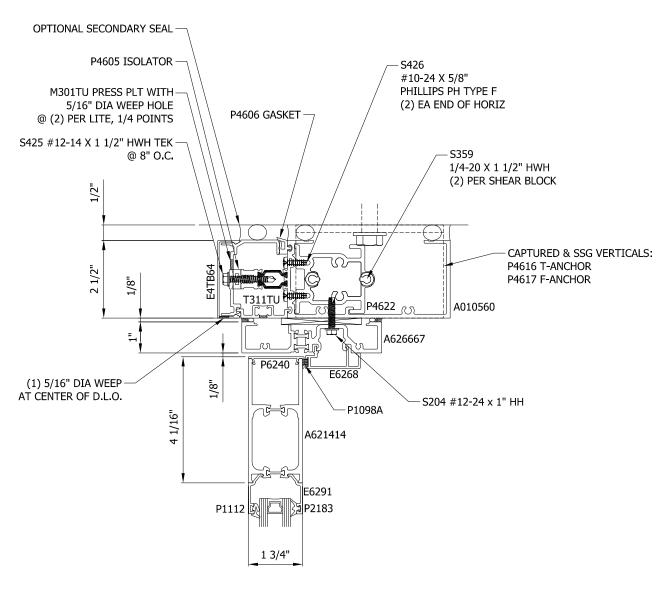




22.14 Release Date: 2/02/16

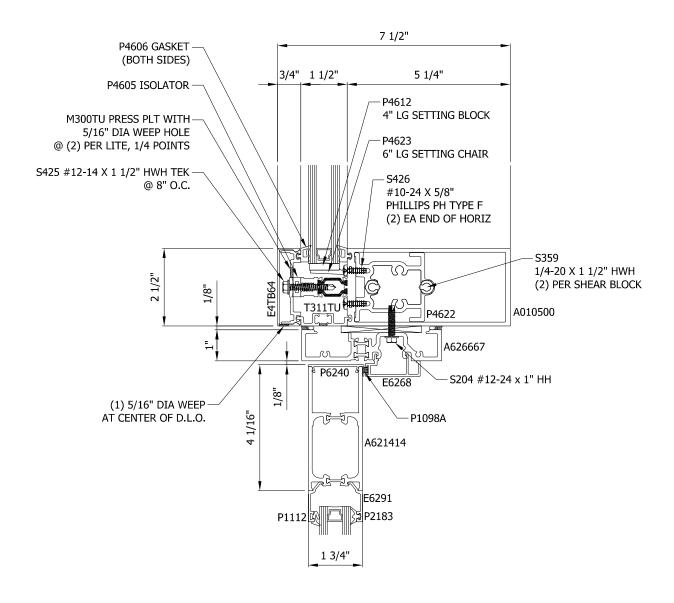


7 299.5SBISCORN STANDARD Shear Clip

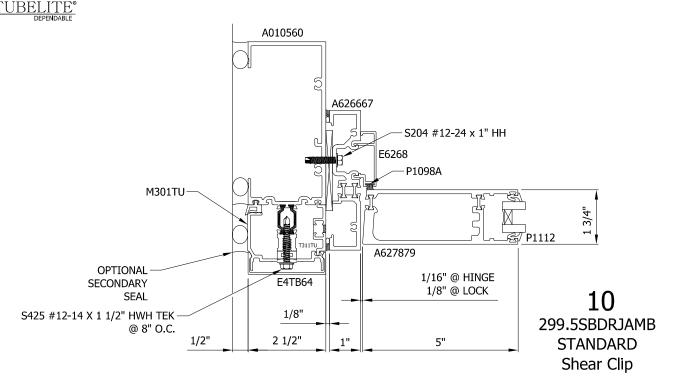


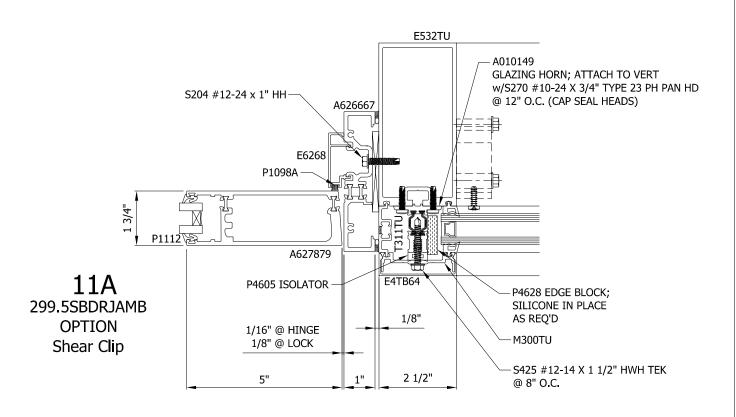
9 299.5SBDRHD STANDARD Shear Clip

22.16 Release Date: 6/26/15

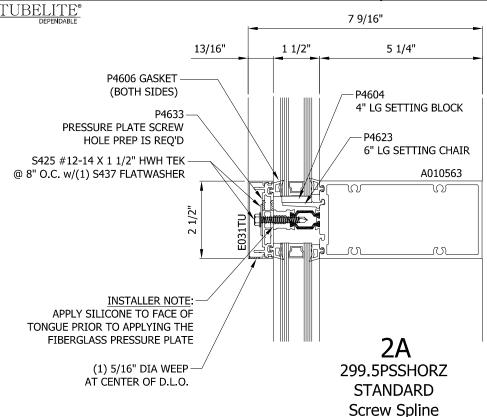


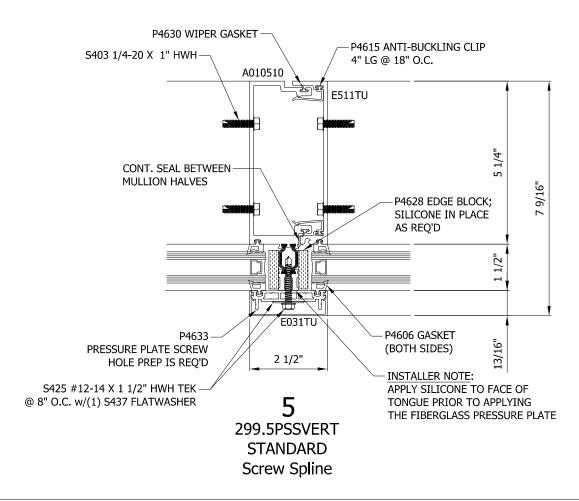
9A 299.5SBDRHD STANDARD Shear Clip



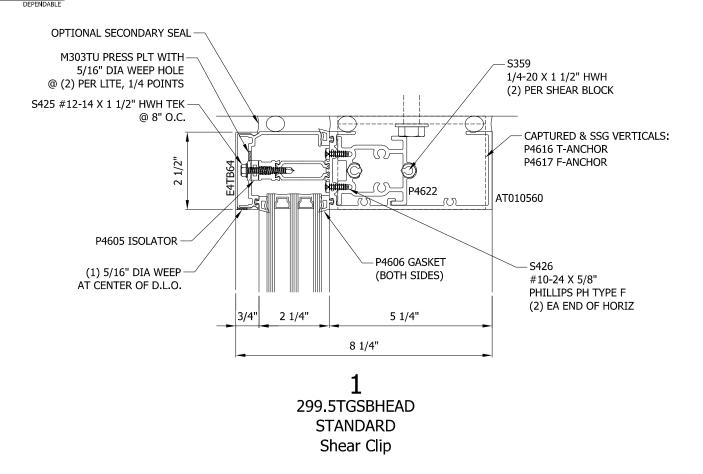


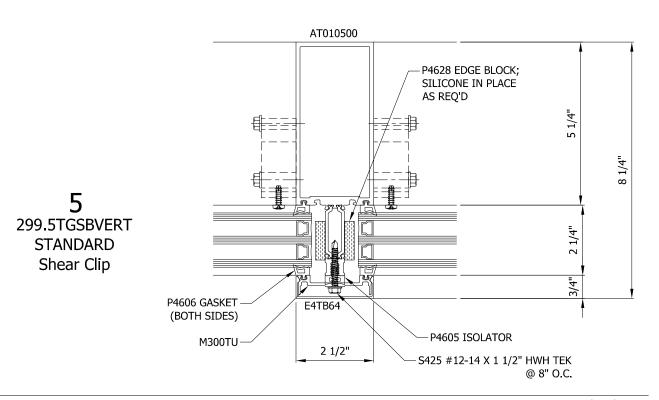
22,18 Release Date: 6/26/15



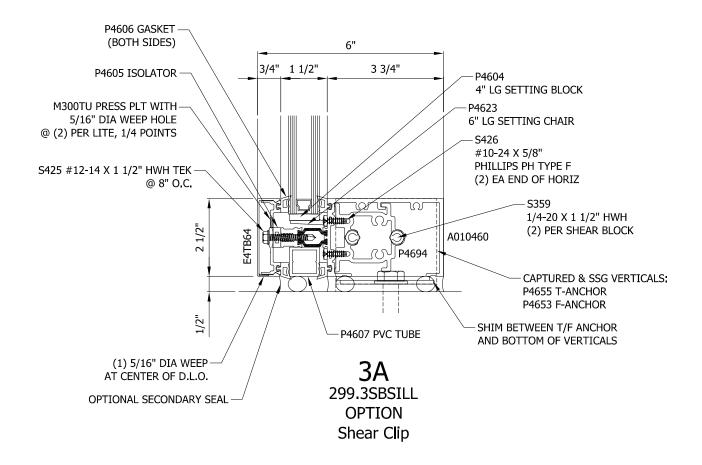


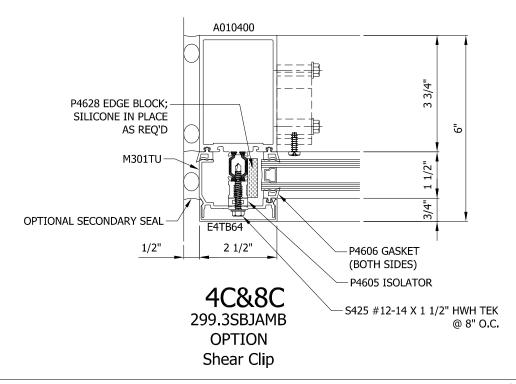
22.20 Release Date: 2/02/16





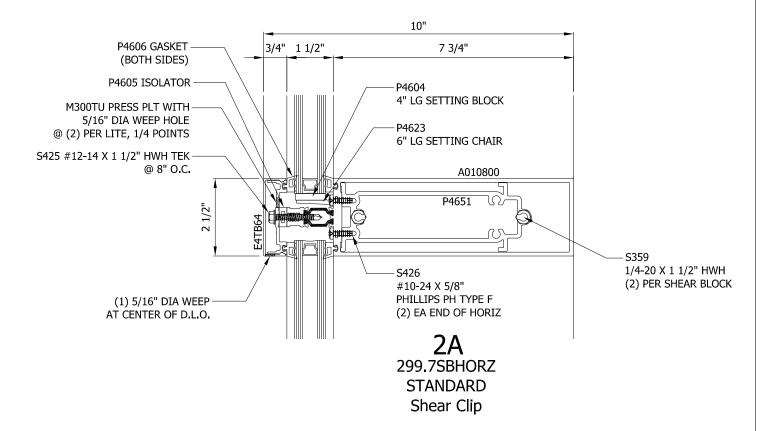
22,24 Release Date: 2/16/16

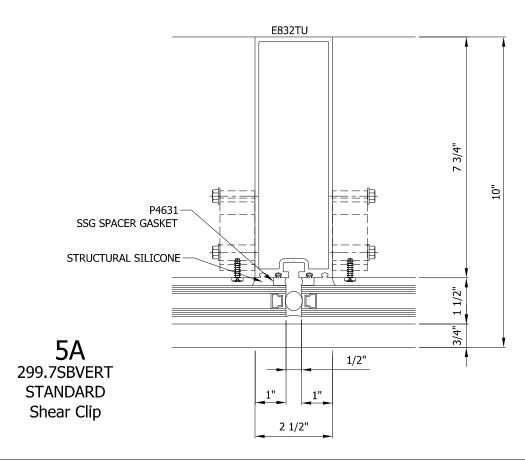




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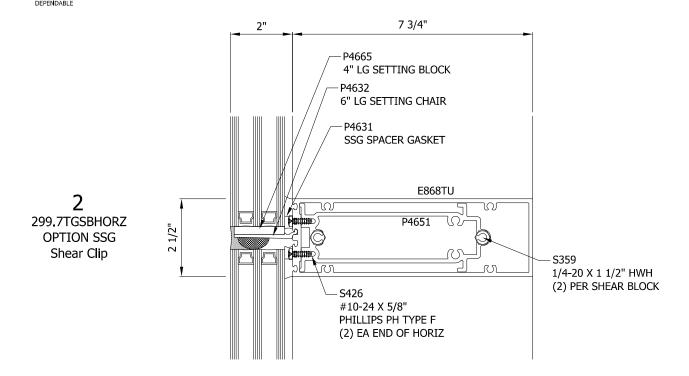
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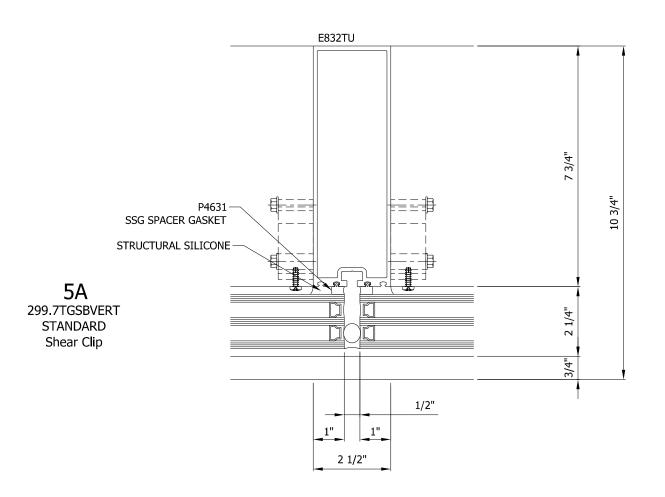




22.22 Release Date: 2/15/16

$\frac{400 TU \ Ultra \ Thermal \ Curtain \ Wall - Shear \ Clip - 7 \ 3/4 - TG - Aluminum \ Pressure \ Plate}{\underline{TUBELITE}^{\circ}}$





22.26 Release Date: 2/15/16