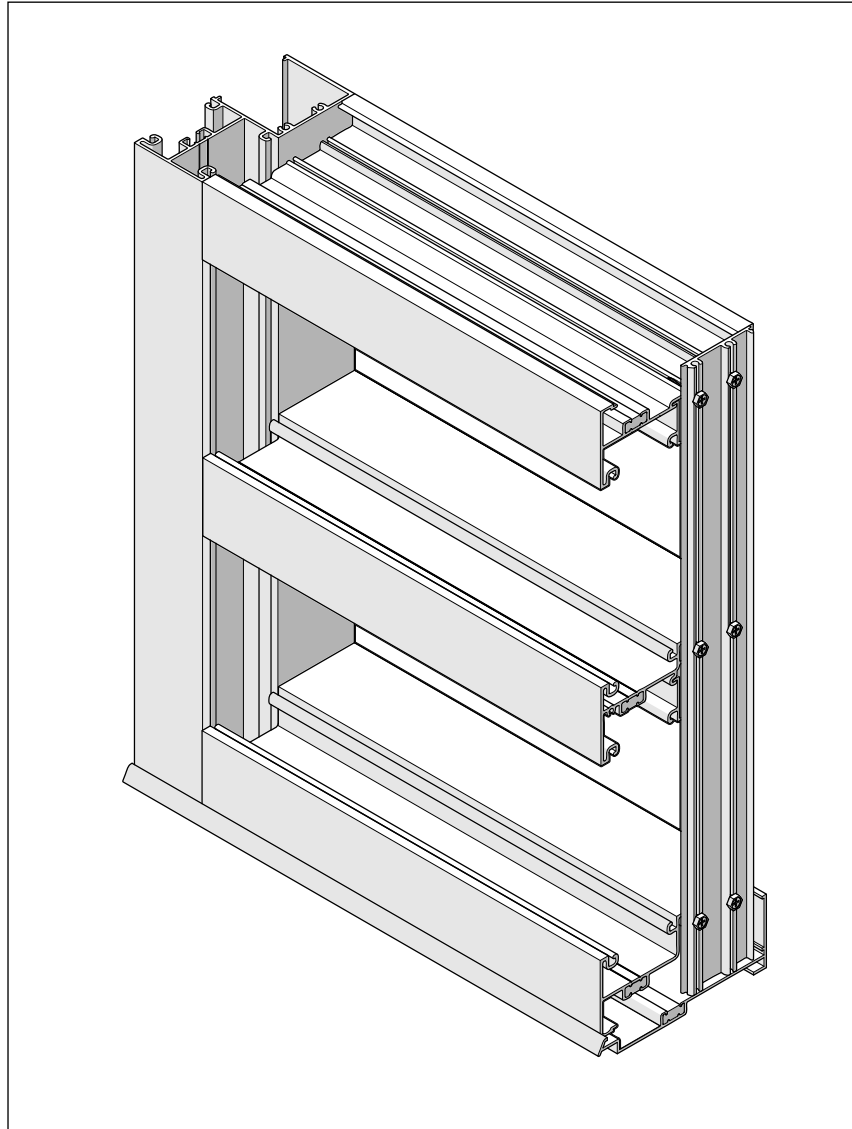


# 15.01 14000 Series Flush Glaze - I/O Plane Description



## Description

14000 I/O Series Framing is a 2" x 4 1/2" deep flush glaze storefront designed to complement Tubelite's E & T 14000 Series. Glass position is now possible at the exterior or interior plane of the frame, to allow greater design and performance options.

This dry glazed, internally drained

storefront accepts 1" insulated glass, or 1/4" spandrel and panels by using a glass pocket adapter. Glass can be installed from the building interior or exterior, and is recommended for first or second floor applications. 14000 I/O is available in thermally improved or standard profiles.

# 15.02

## 14000 Series Flush Glaze - I/O Plane

### 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.

14000 Series Flush Glaze - I/O Plane Framing is manufactured by Tubelite Inc., Walker, Michigan. Submit substitute product technical literature, samples, drawings and performance data ten (10) days prior to bid in order to make a valid comparison of the products involved.

##### Performance Requirements

See Section 14 page 2 (14.02) for similar Performance Requirements.

#### Products

##### Materials

Extrusions of aluminum alloy 6063-T5 or 6063-T6 (as required), are manufactured within commercial tolerances 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 are compatible with the aluminum under normal service conditions.

Thermal barrier is a two part chemically curing, unfilled polyurethane casting resin poured in place for perimeter members.

##### Finish

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

Finish to be: (architect select)

Etched and clear anodized

(AA M10C21A31)

Class 2 Clear (C2)

(AA M10C21A41)

Class 1 Clear (C1)

Electrolytically deposited color  
(AA M10C21A44),

Champagne (CH),

Medium Bronze (MB),

Dark Bronze (DB),

Extra Dark Bronze (EB),

Black (BL), or

Fluoropolymer painted color Tubelite Standard  
(70% PVDF):

Bone White (1P)

Hartford Green (2P)

Black (3P)

Brick Red (4P)

Sandstone (5P)

Quaker Bronze (6P)

Burnt Sun (7P)

Sage Brown (8P)

Boysenberry (9P)

Agean Blue (0P)

Ivory (AP)

Beige (BP)

Light Sea Wolf (CP)

Military Blue (DP)

Polar White (EP)

Fluoropolymer painted color (Other):

#### Execution

##### Installation

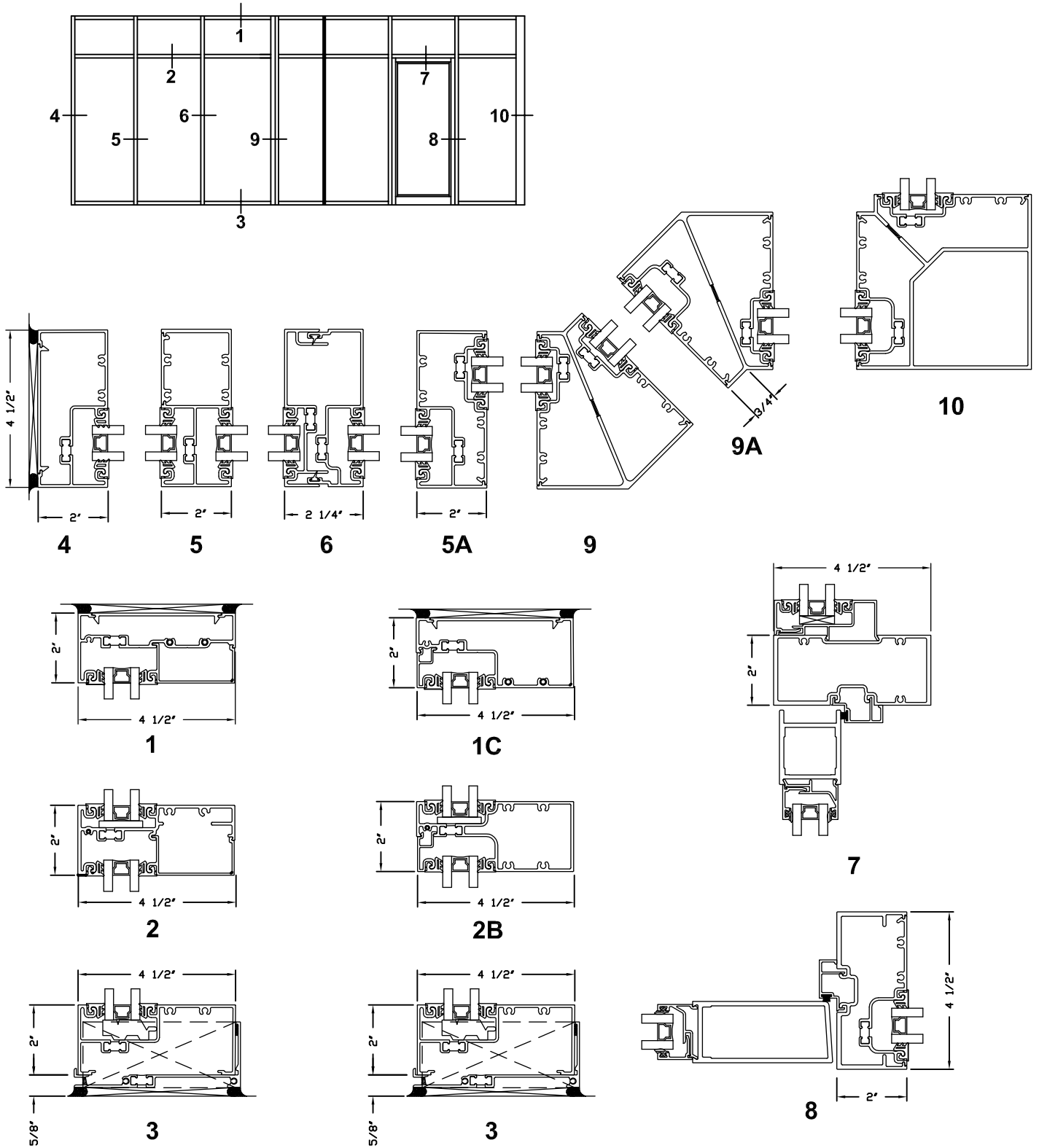
Follow the manufacturer's installation instructions and the approved shop drawings.

##### Note:

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

# 14000 Series Flush Glaze - I/O Plane

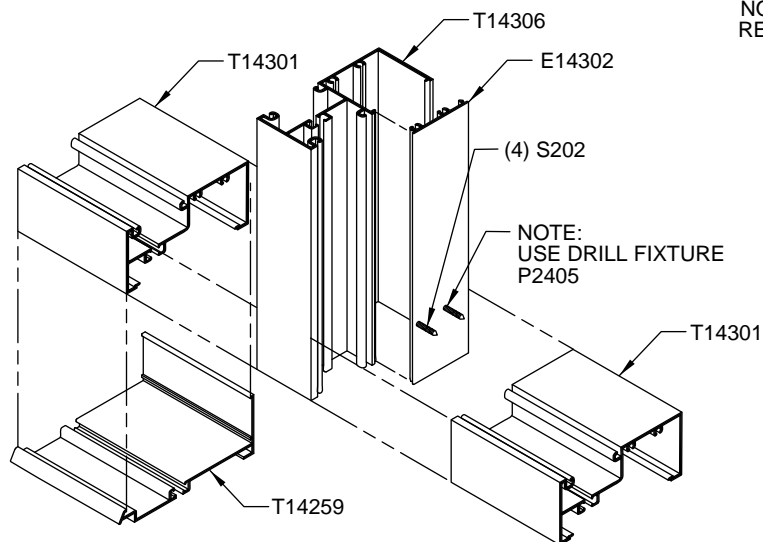
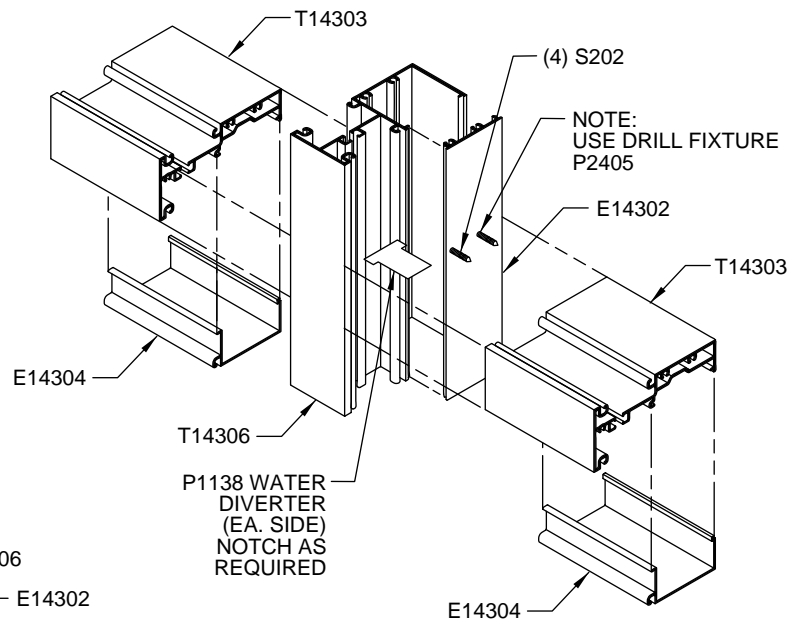
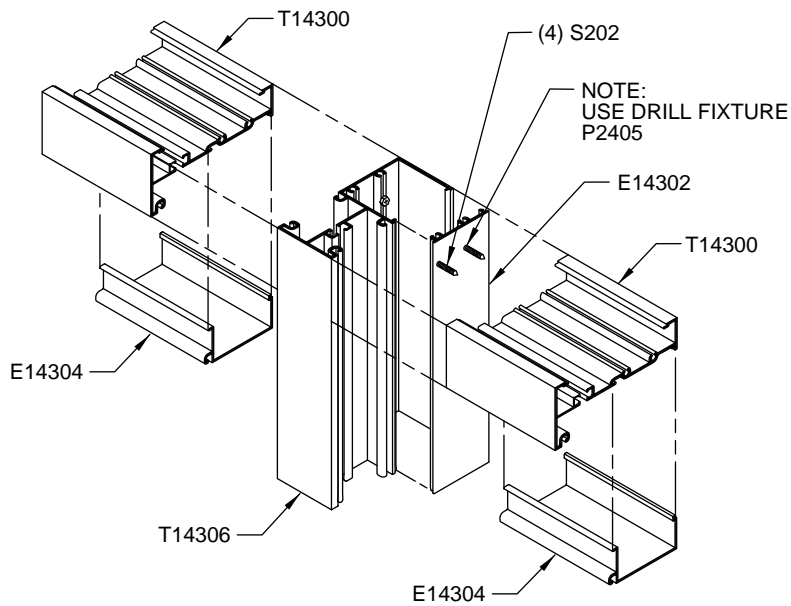
## Elevation & 1/4 Size Details



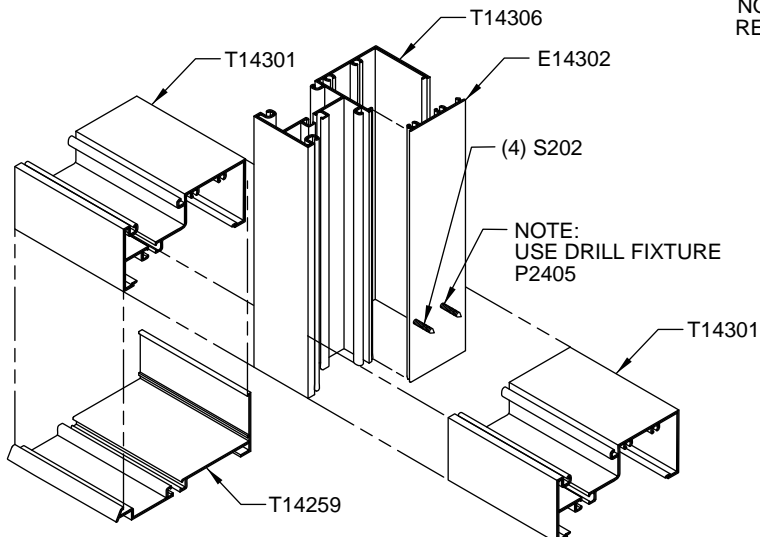
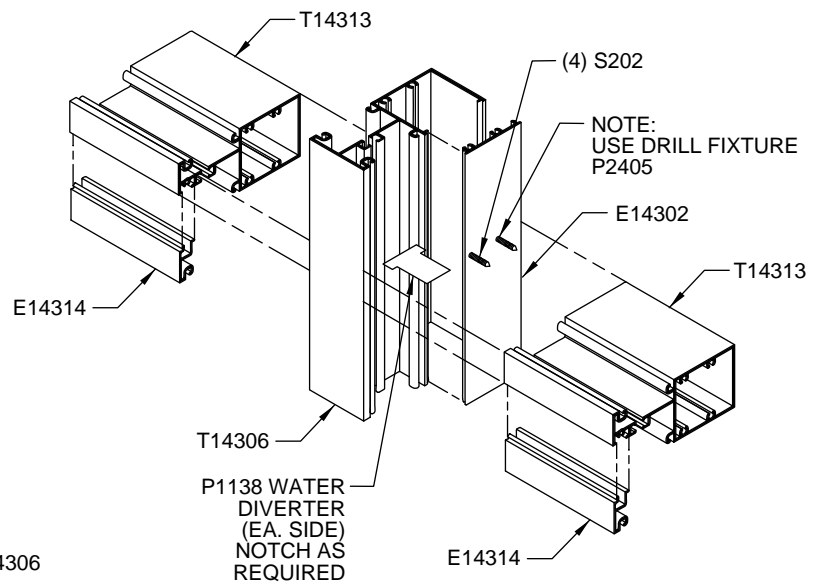
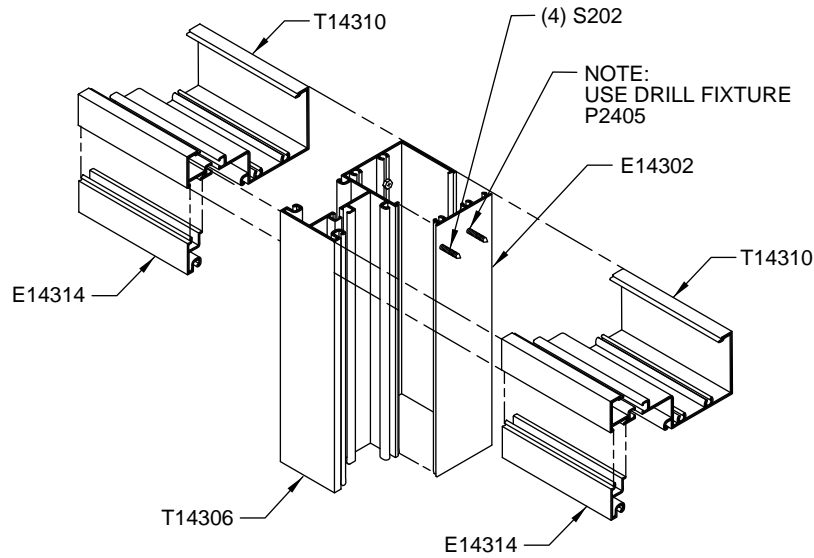
# 15.04

## 14000 Series Flush Glaze - I/O Plane

### Isometric Assembly Details



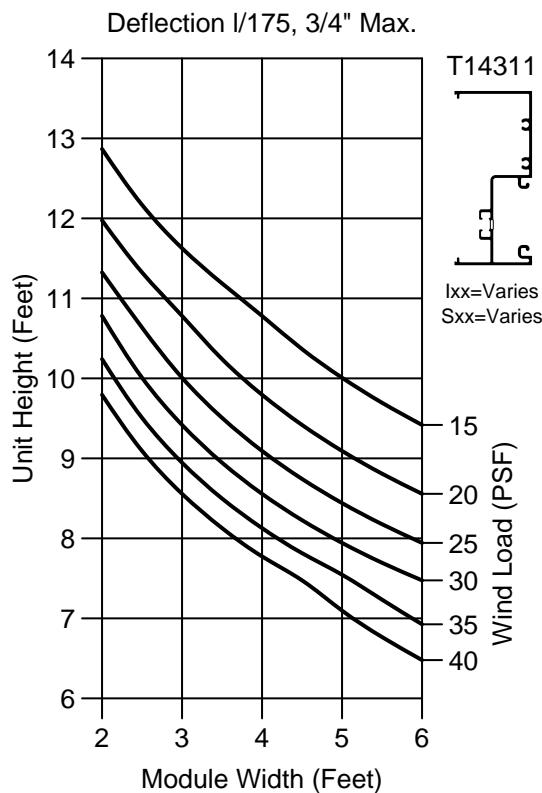
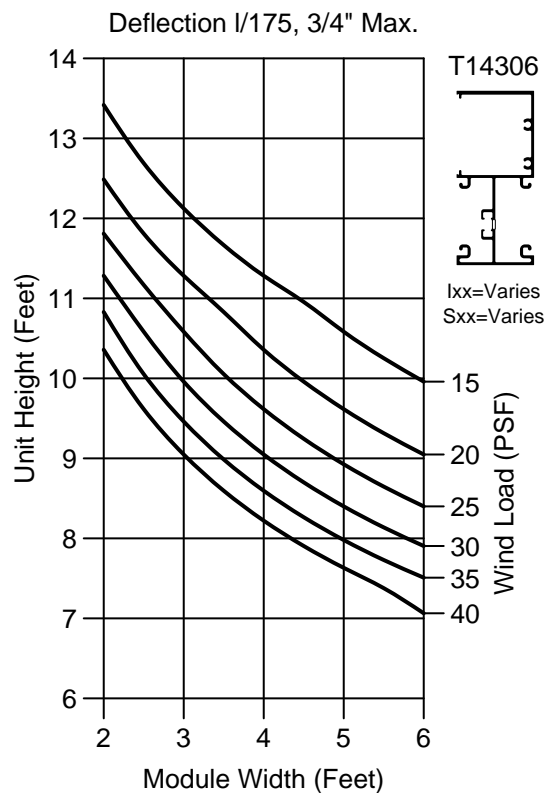
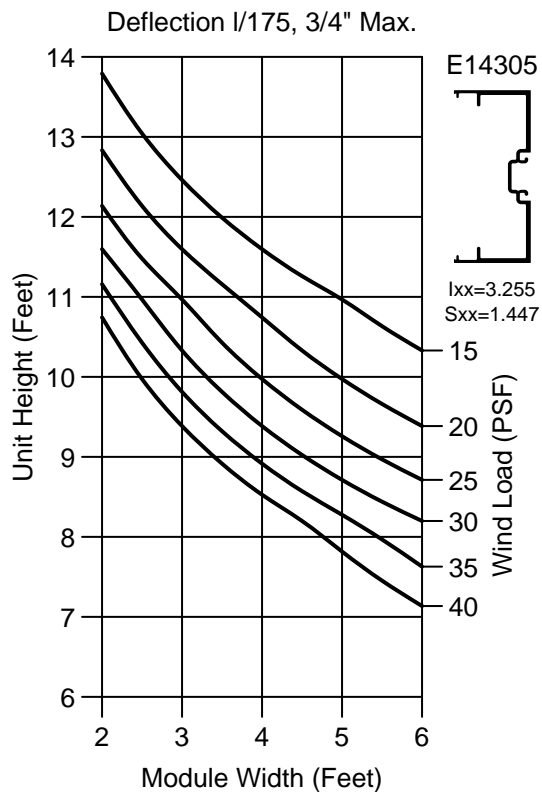
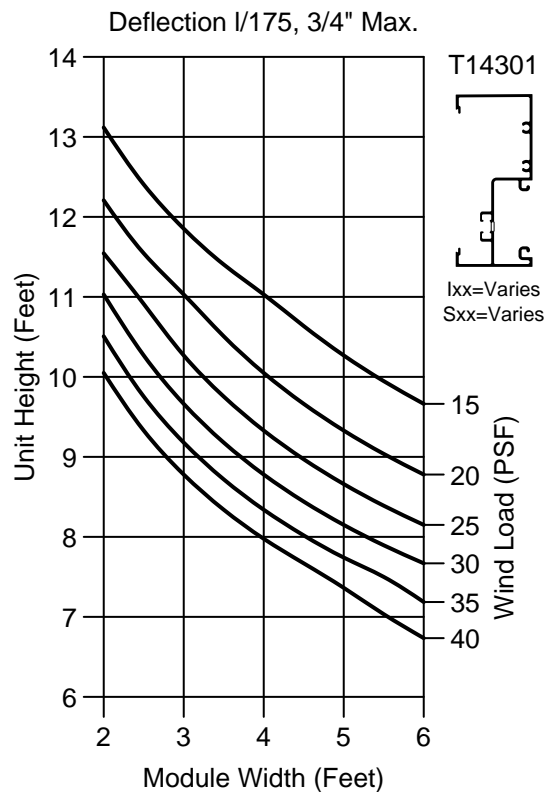
# 15.05 14000 Series Flush Glaze - I/O Plane Isometric Assembly Details



# 15.06

## 14000 Series Flush Glaze I/O Plane

### Windload Charts



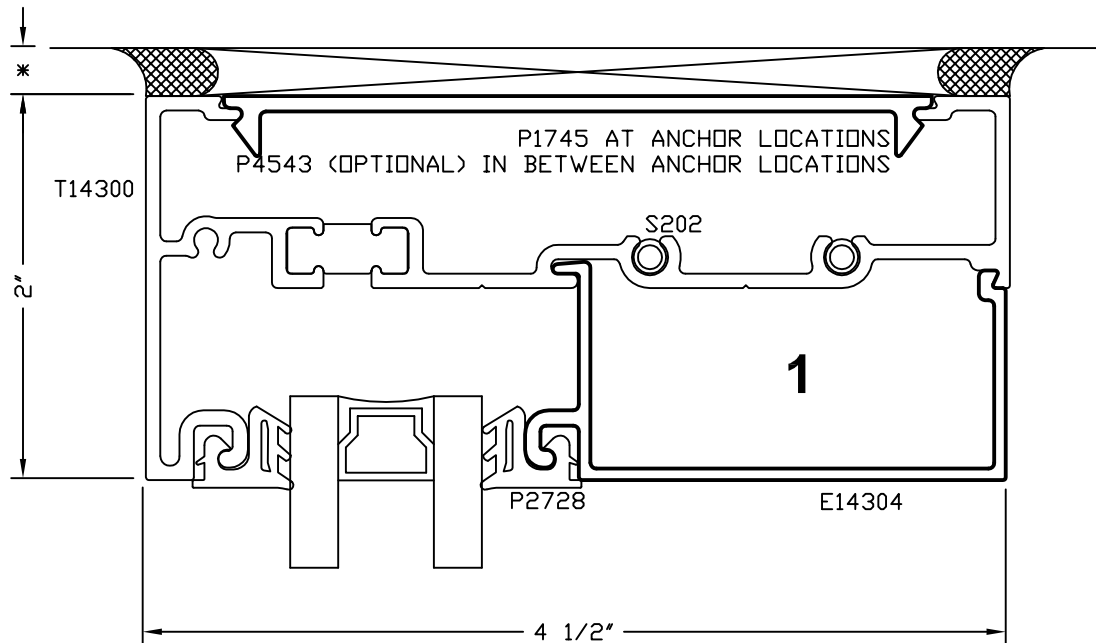
# 14000 Series Flush Glaze - I/O Plane

## Screw Spline Head - Inside Set/Outboard Plane

\* 1/2" WHEN USING E-14259 FLASHING

\* 1/4" WHEN USING E-45159 FLASHING

CAD DETAIL FILE NO.  
180HEAD9



SUBSTITUTE E14300 FOR T14300, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.08

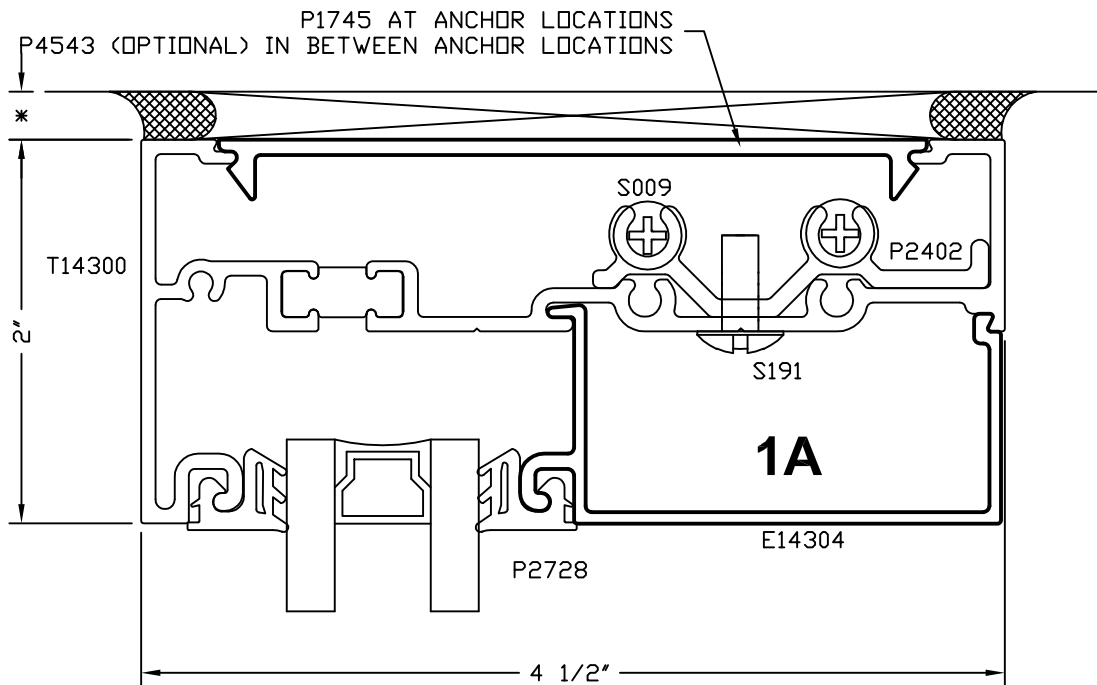
## 14000 Series Flush Glaze - I/O Plane

### Shear Block Head - Inside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HEAD10

\* 1/2" WHEN USING E-14259 FLASHING

\* 1/4" WHEN USING E-45159 FLASHING



SUBSTITUTE E14300 FOR T14300, IF  
THERMAL BREAK IS NOT REQUIRED.

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CURTAINWALL AND ENTRANCE SYSTEMS

2013

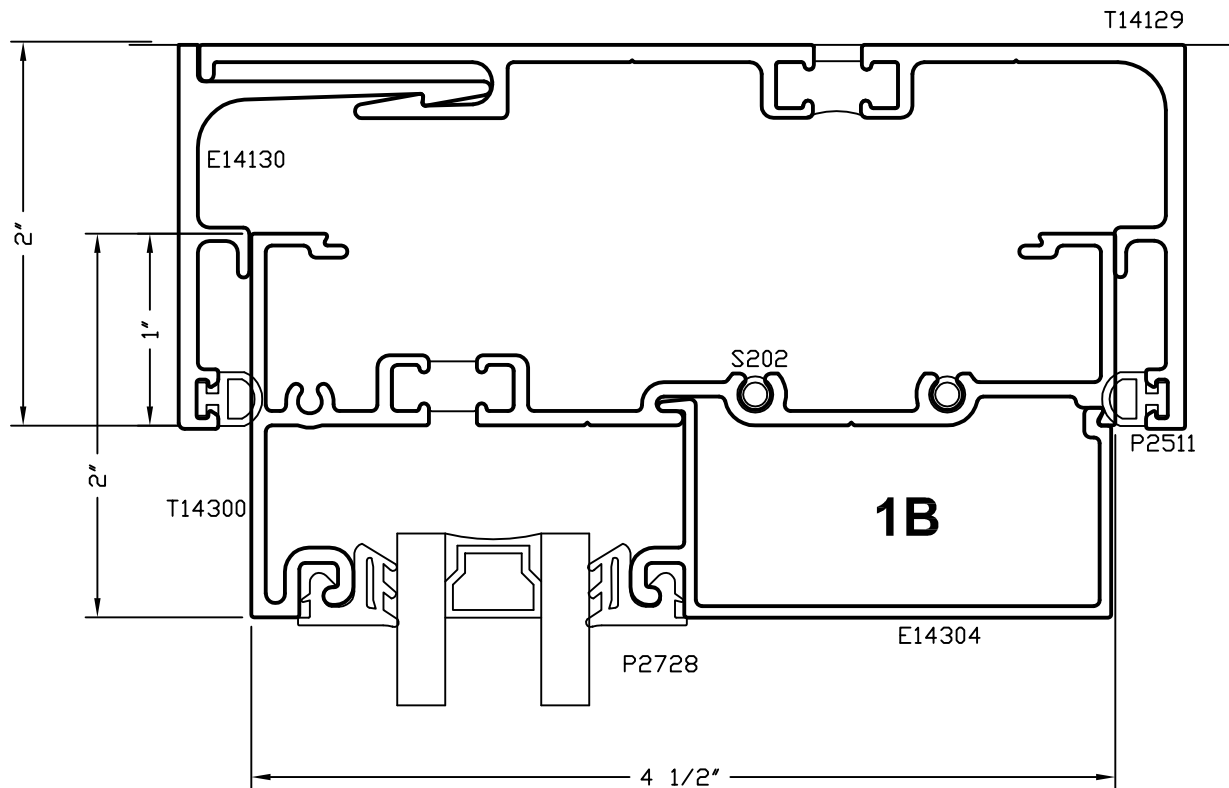
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE



# 15.09

## 14000 Series Flush Glaze Head Receptor - Inside Set

CAD DETAIL FILE NO.  
180HEAD11



SUBSTITUTE E14329 & E14300 FOR  
T14329 & T14300, IF THERMAL  
BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

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15.10

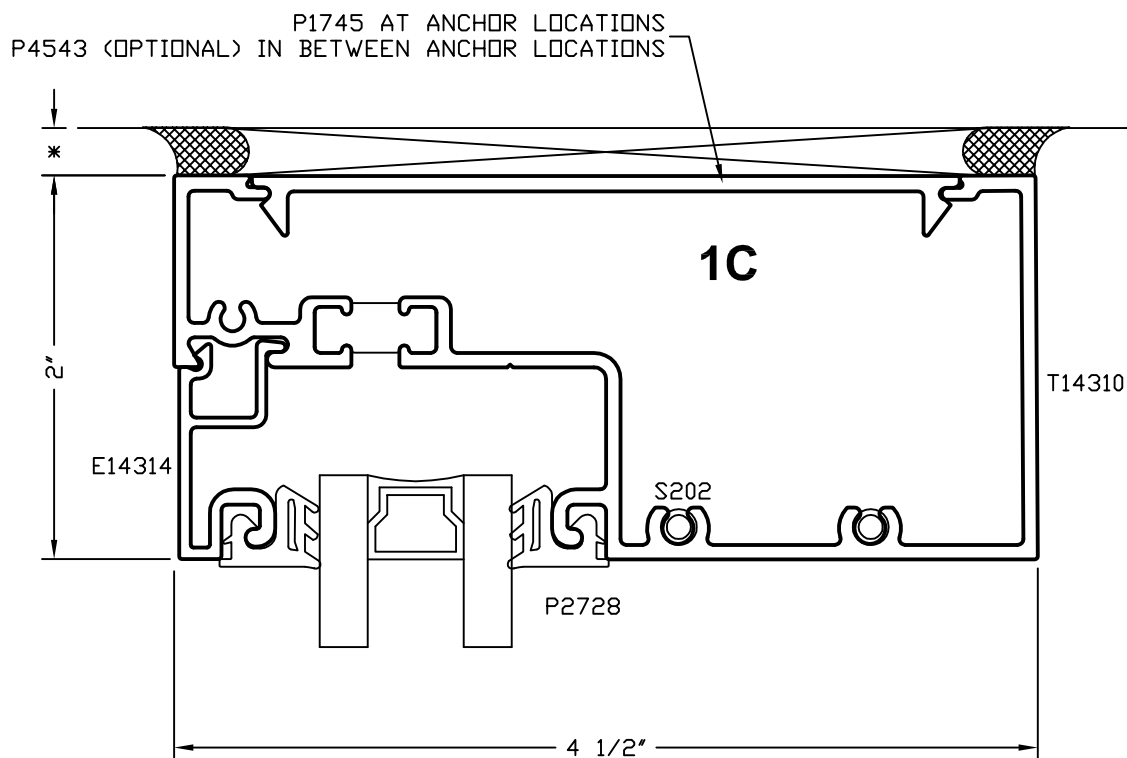
## 14000 Series Flush Glaze - I/O Plane

### Screw Spline Head - Outside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HEAD12

\* 1/2" WHEN USING E-14259 FLASHING

\* 1/4" WHEN USING E-45159 FLASHING



SUBSTITUTE E14310 FOR T14310, IF  
THERMAL BREAK IS NOT REQUIRED.

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\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

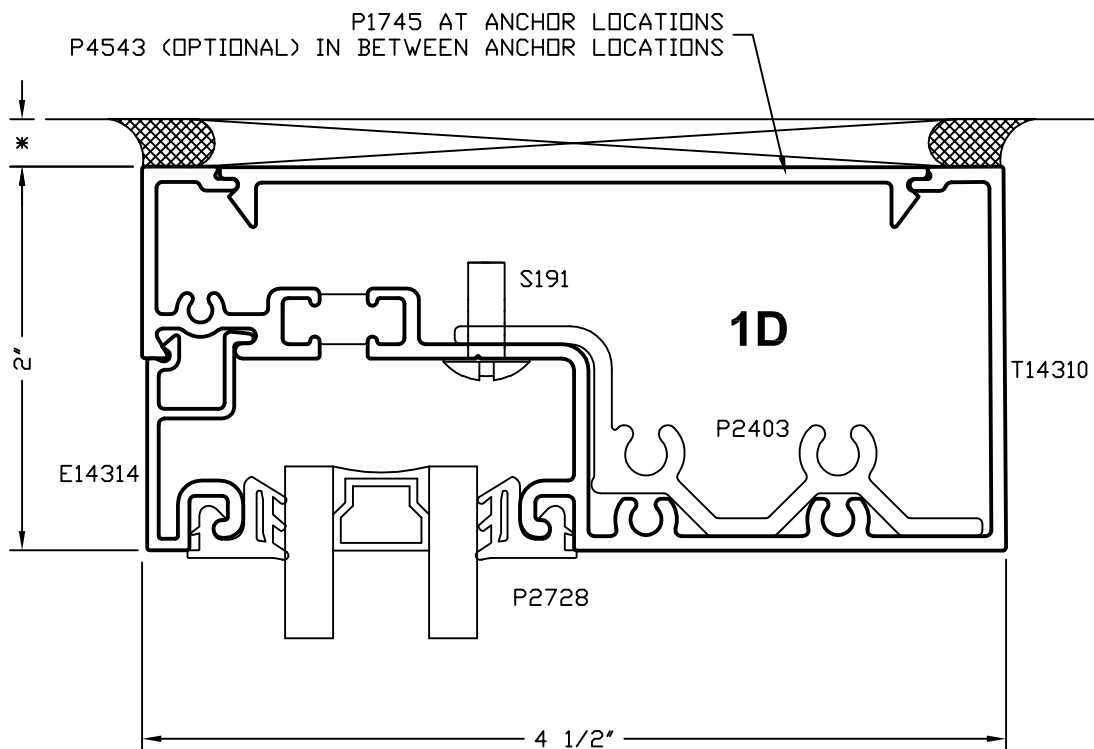
# 14000 Series Flush Glaze - I/O Plane

## Shear Block Head - Outside Set/Outboard Plane

\* 1/2" WHEN USING E-14259 FLASHING

\* 1/4" WHEN USING E-45159 FLASHING

CAD DETAIL FILE NO.  
180HEAD13



SUBSTITUTE E14310 FOR T14310, IF  
THERMAL BREAK IS NOT REQUIRED.

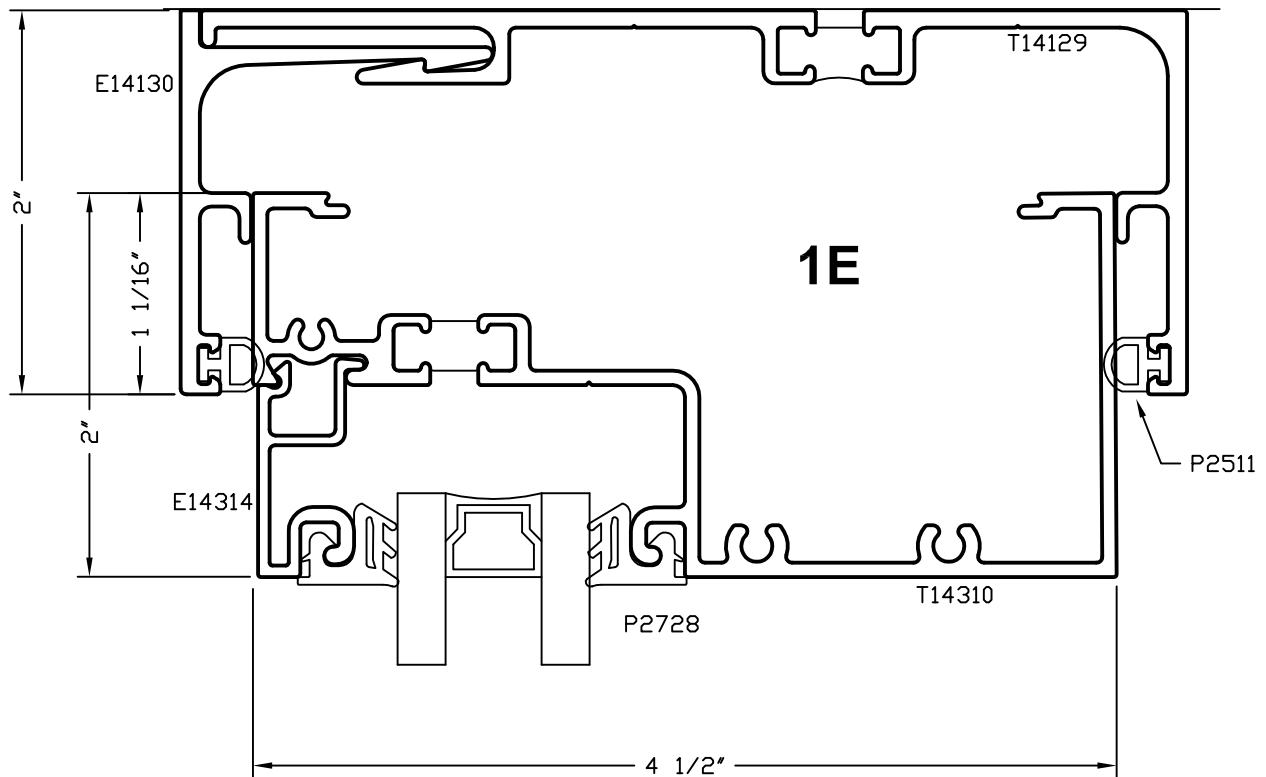
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.12

## 14000 Series Flush Glaze - I/O Plane

### Head Receptor - Outside Set

CAD DETAIL FILE NO.  
180HEAD14

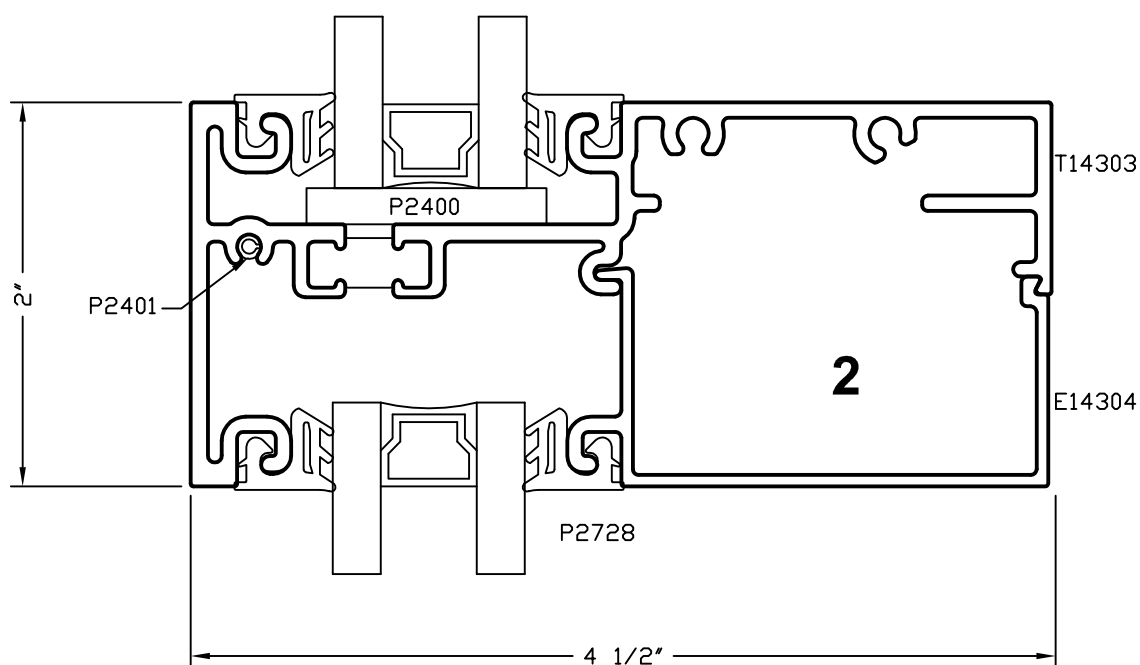


SUBSTITUTE E14129 & E14310  
FOR T14129 & T14310, IF THERMAL  
BREAK IS NOT REQUIRED.

# 14000 Series Flush Glaze - I/O Plane

## Screw Spline Intermediate Horizontal - Inside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HORZ10



SUBSTITUTE E14303 FOR T14303, IF  
THERMAL BREAK IS NOT REQUIRED.

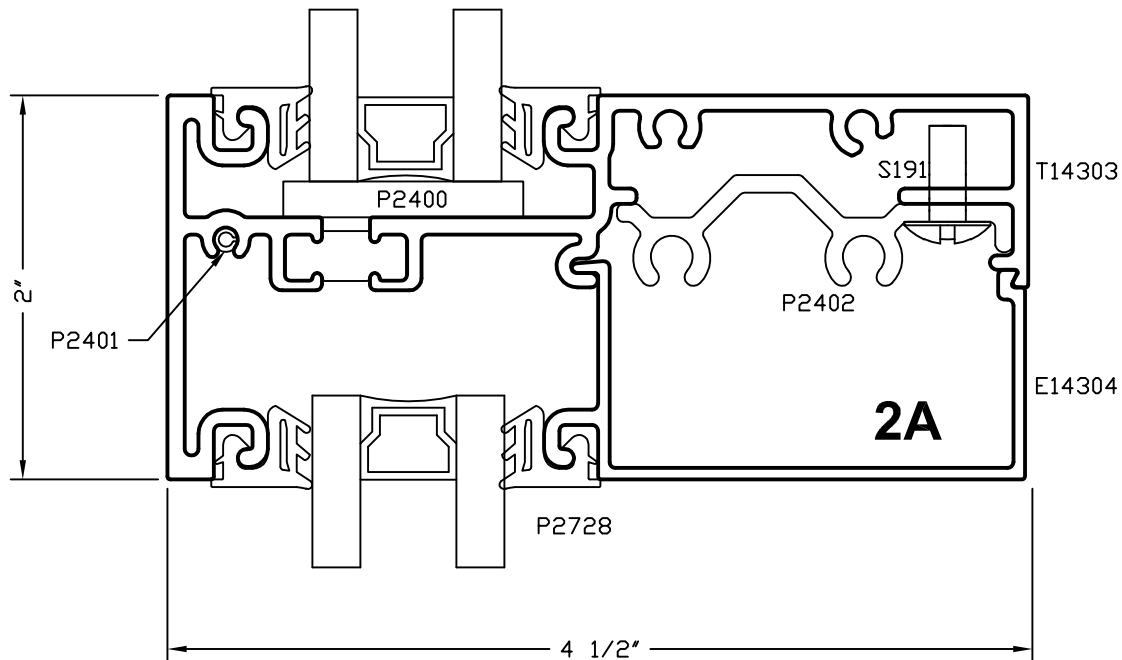
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.14

## 14000 Series Flush Glaze - I/O Plane

Shear Block Intermediate Horizontal - Inside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HORZ11



SUBSTITUTE E14303 FOR T14303, IF  
THERMAL BREAK IS NOT REQUIRED.

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\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

2"

P2401

P2400

T14313

2B

T14314

P2728

4 1/2"

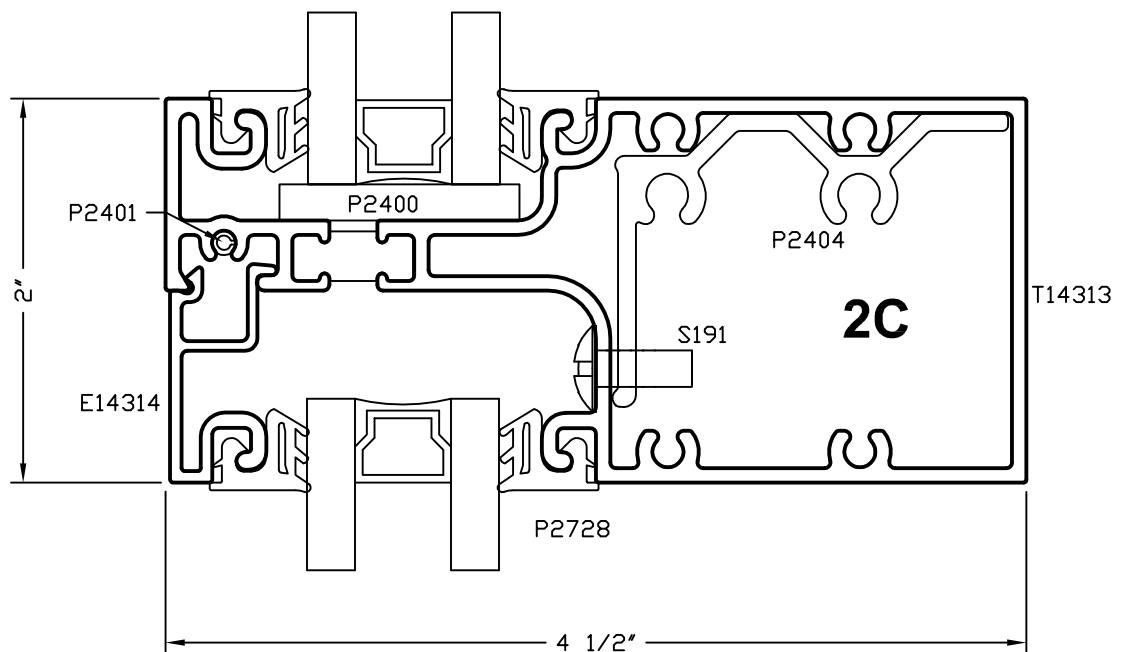
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.16

## 14000 Series Flush Glaze - I/O Plane

Shear Block Intermediate Horizontal - Outside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HQRZ13



SUBSTITUTE E14313 FOR T14313, IF  
THERMAL BREAK IS NOT REQUIRED.

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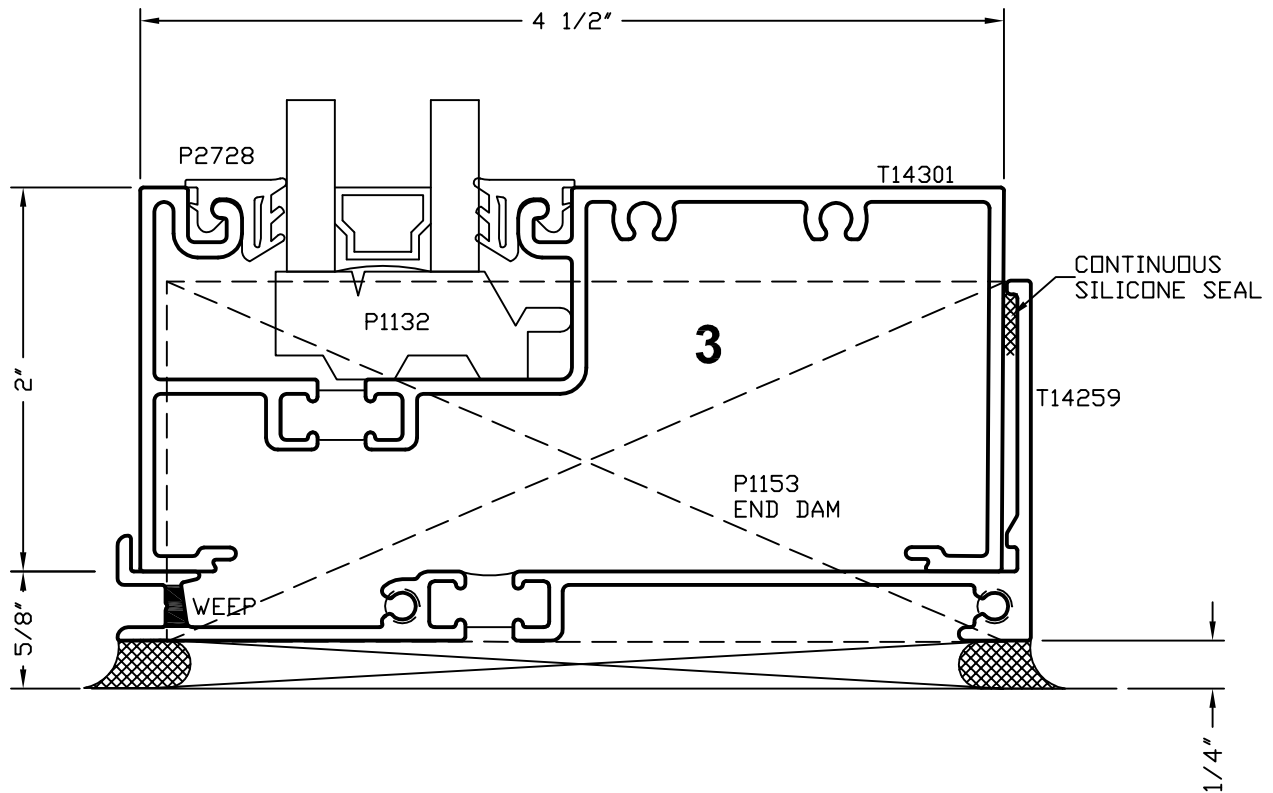
2013

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE



# 14000 Series Flush Glaze - I/O Plane Screw Spline Sill - Outboard Plane

CAD DETAIL FILE NO.  
180SILL8



SUBSTITUTE E14301 & E14059 FOR  
T14301 & T14259, IF THERMAL BREAK  
IS NOT REQUIRED.

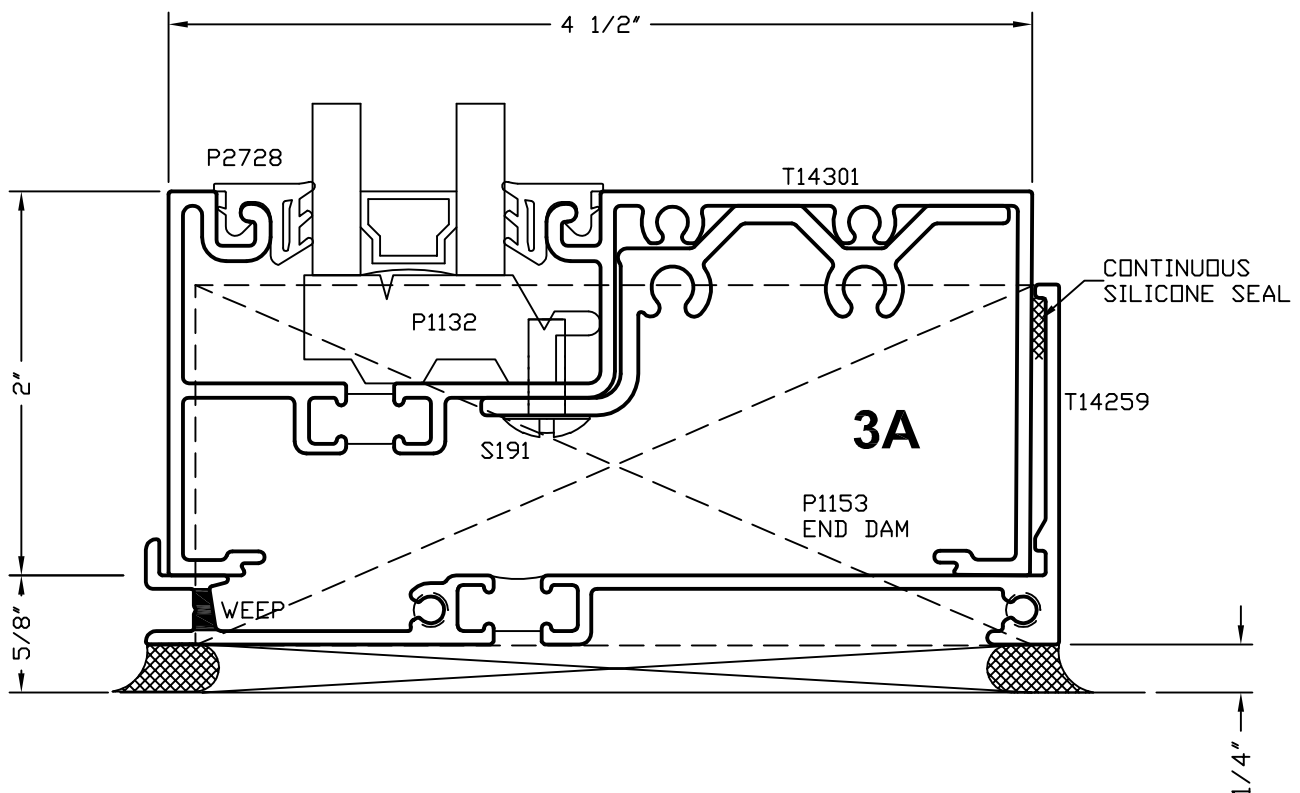
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.18

## 14000 Series Flush Glaze - I/O Plane

### Shear Block Sill - Outboard Plane

CAD DETAIL FILE NO.  
180SILL9



SUBSTITUTE E14301 & E14059 FOR  
T14301 & T14259, IF THERMAL  
BREAK IS NOT REQUIRED.

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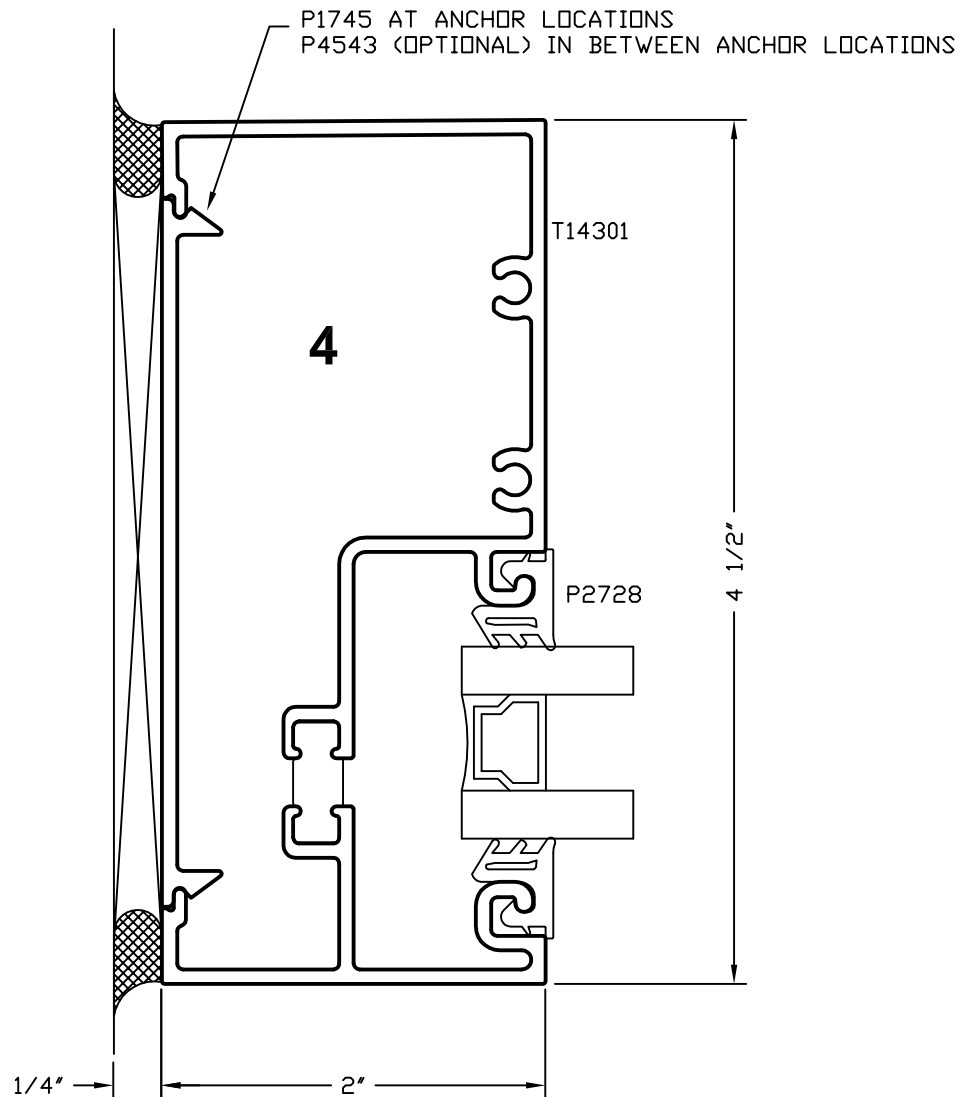
2013

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

# 14000 Series Flush Glaze - I/O Plane

## Screw Spline Jamb - Outboard Plane

CAD DETAIL FILE NO.  
180JAMB3



SUBSTITUTE E14301 FOR T14301,  
IF THERMAL BREAK IS NOT  
REQUIRED.

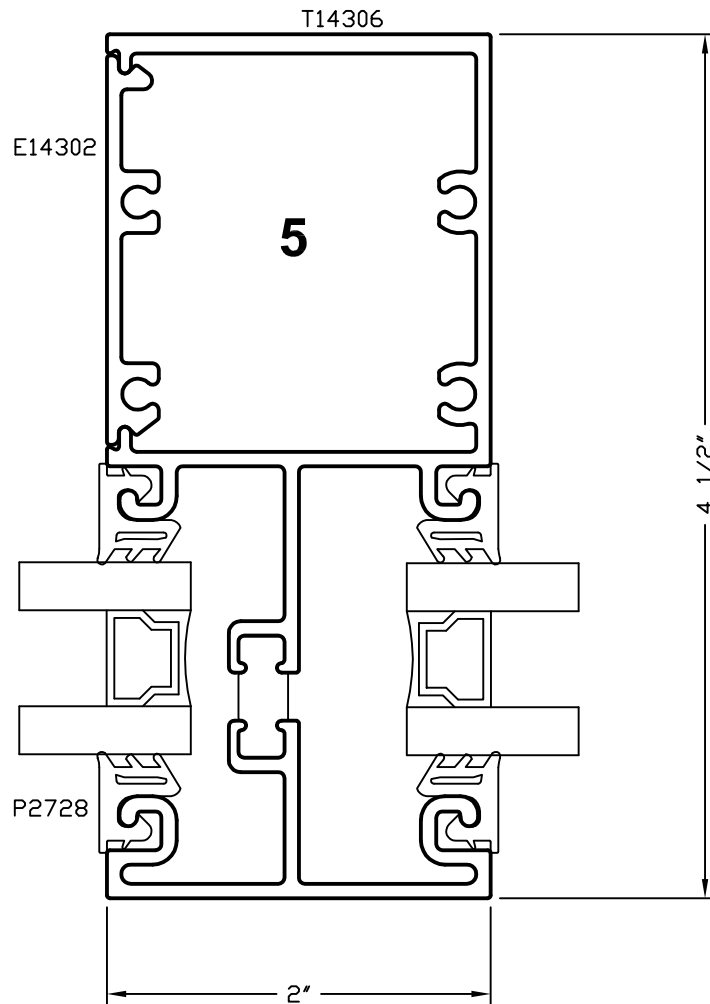
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.20

## 14000 Series Flush Glaze - I/O Plane

### Screw Spline Intermediate Vertical - Outboard Plane

CAD DETAIL FILE NO.  
180VERT8



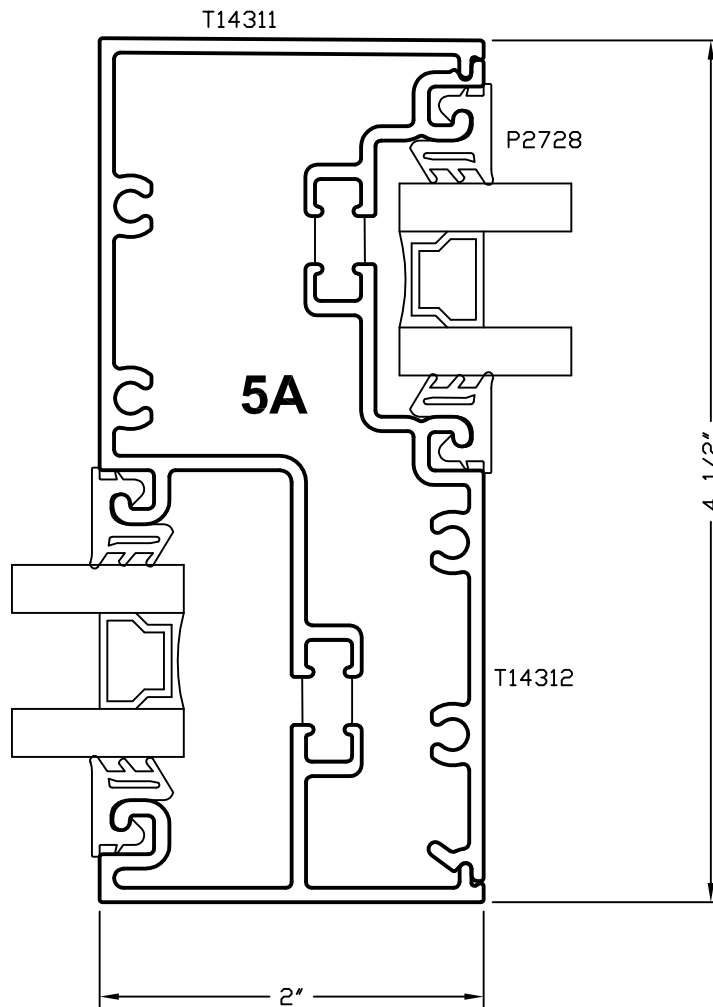
SUBSTITUTE E14306 FOR T14306, IF  
THERMAL BREAK IS NOT REQUIRED.

# 15.21

## 14000 Series Flush Glaze - I/O Plane

### Inboard/Outboard Transition Vertical

CAD DETAIL FILE NO.  
180VERT9



SUBSTITUTE E14311 & E14312 FOR  
T14311 & T14312, IF THERMAL  
BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

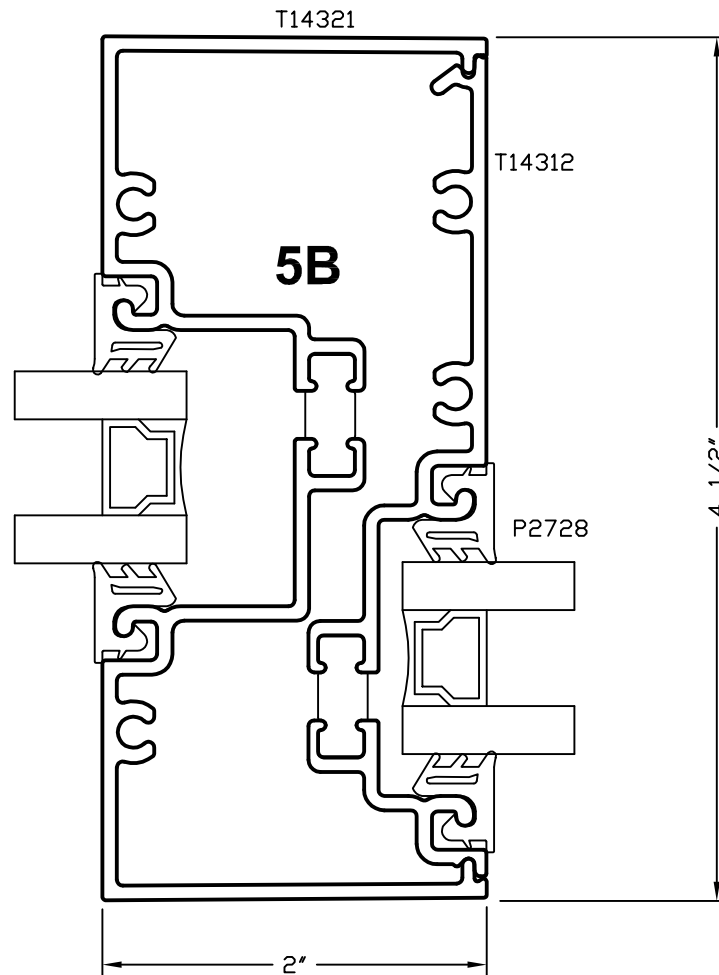
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15.22

## 14000 Series Flush Glaze - I/O Plane

### Center/Outboard Transition Vertical

CAD DETAIL FILE NO.  
180VERT10



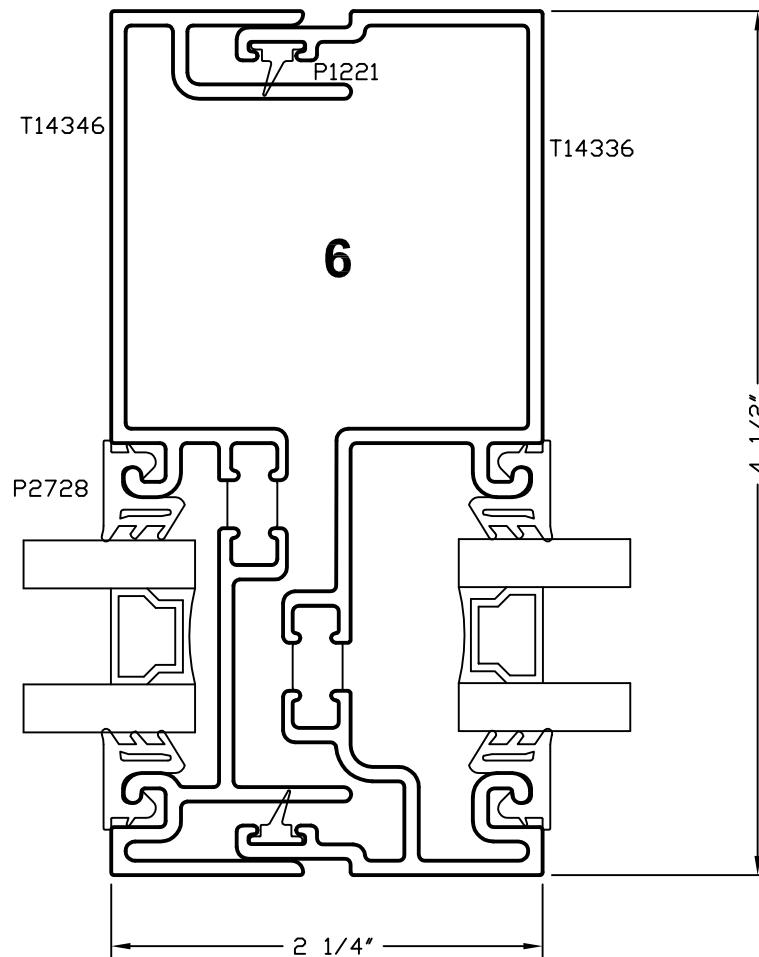
SUBSTITUTE E14321 & E14312 FOR  
T14321 & T14312, IF THERMAL  
BREAK IS NOT REQUIRED.

# 15.23

## 14000 Series Flush Glaze - I/O Plane

### Expansion Vertical - Outboard Plane

CAD DETAIL FILE NO.  
180VERT11



SUBSTITUTE E14336 & E14346 FOR  
T14336 & T14346, IF THERMAL  
BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

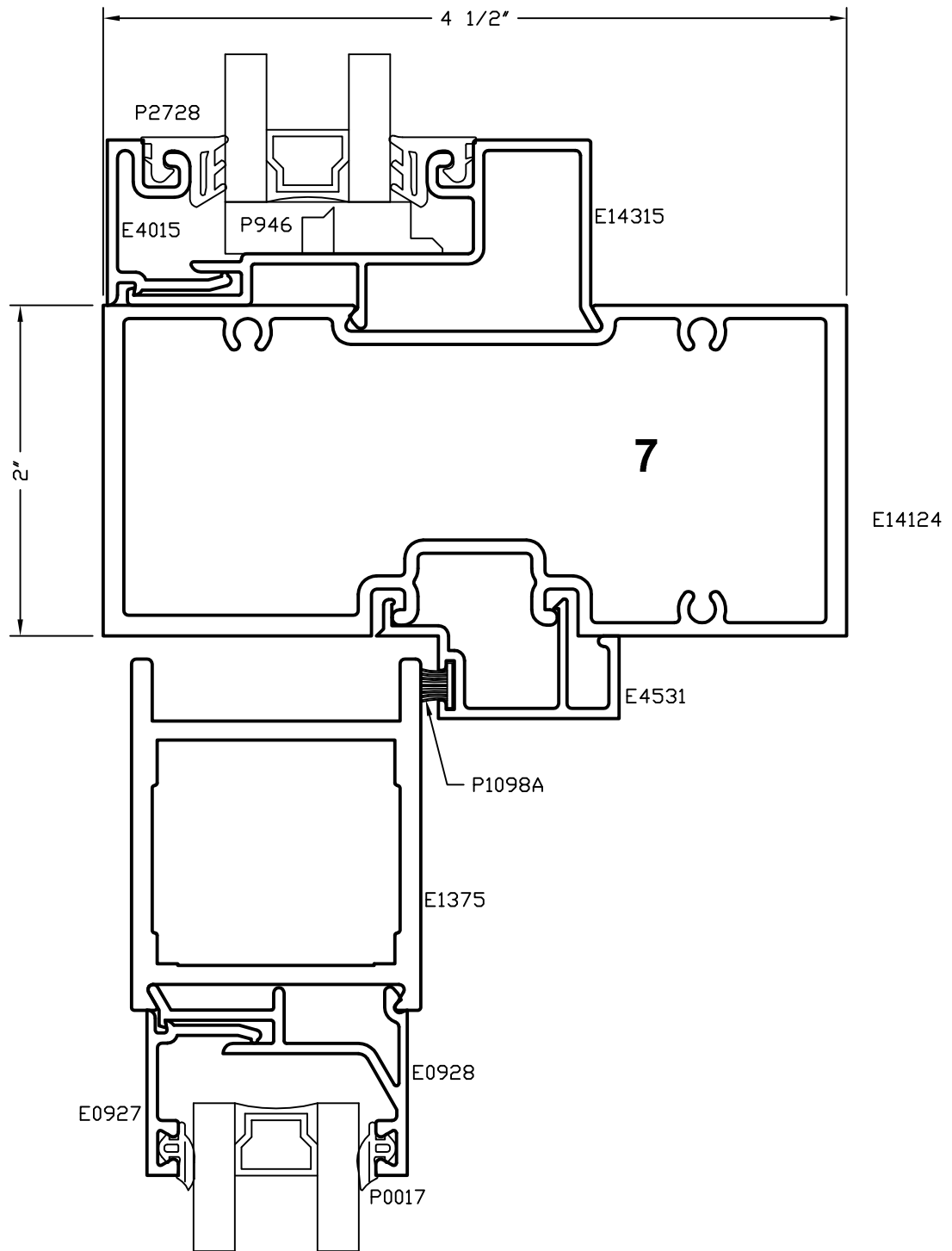
**TUBELITE**  
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15.24

## 14000 Series Flush Glaze - I/O Plane

### Transom Door Header - Outboard Plane

CAD DETAIL FILE NO.  
180TRAN2

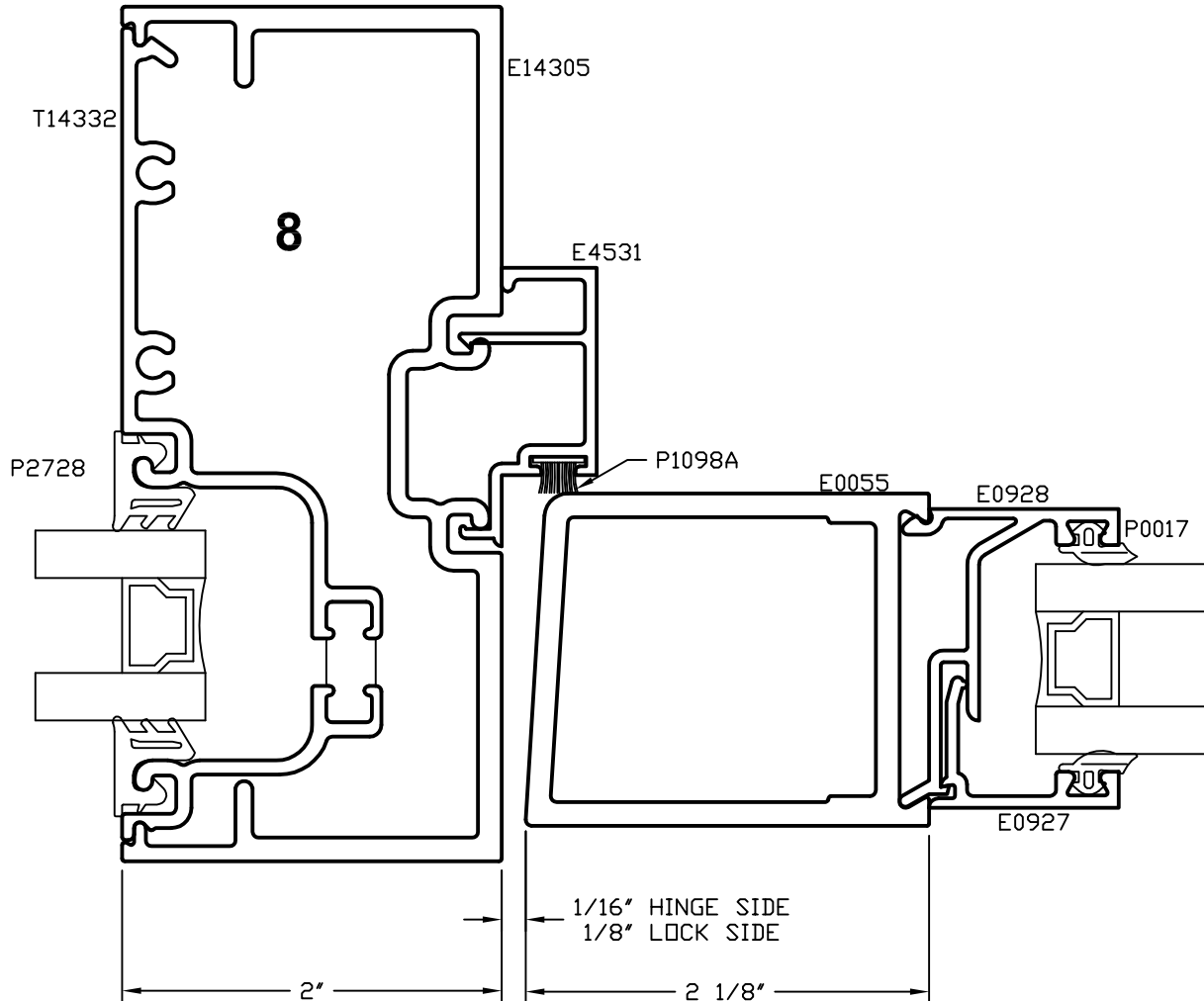




# 14000 Series Flush Glaze - I/O Plane

## Door Jamb - Outboard Plane - Narrow Stile Offset Pivot or Butt Hinge

CAD DETAIL FILE NO.  
180DRJBNS2



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

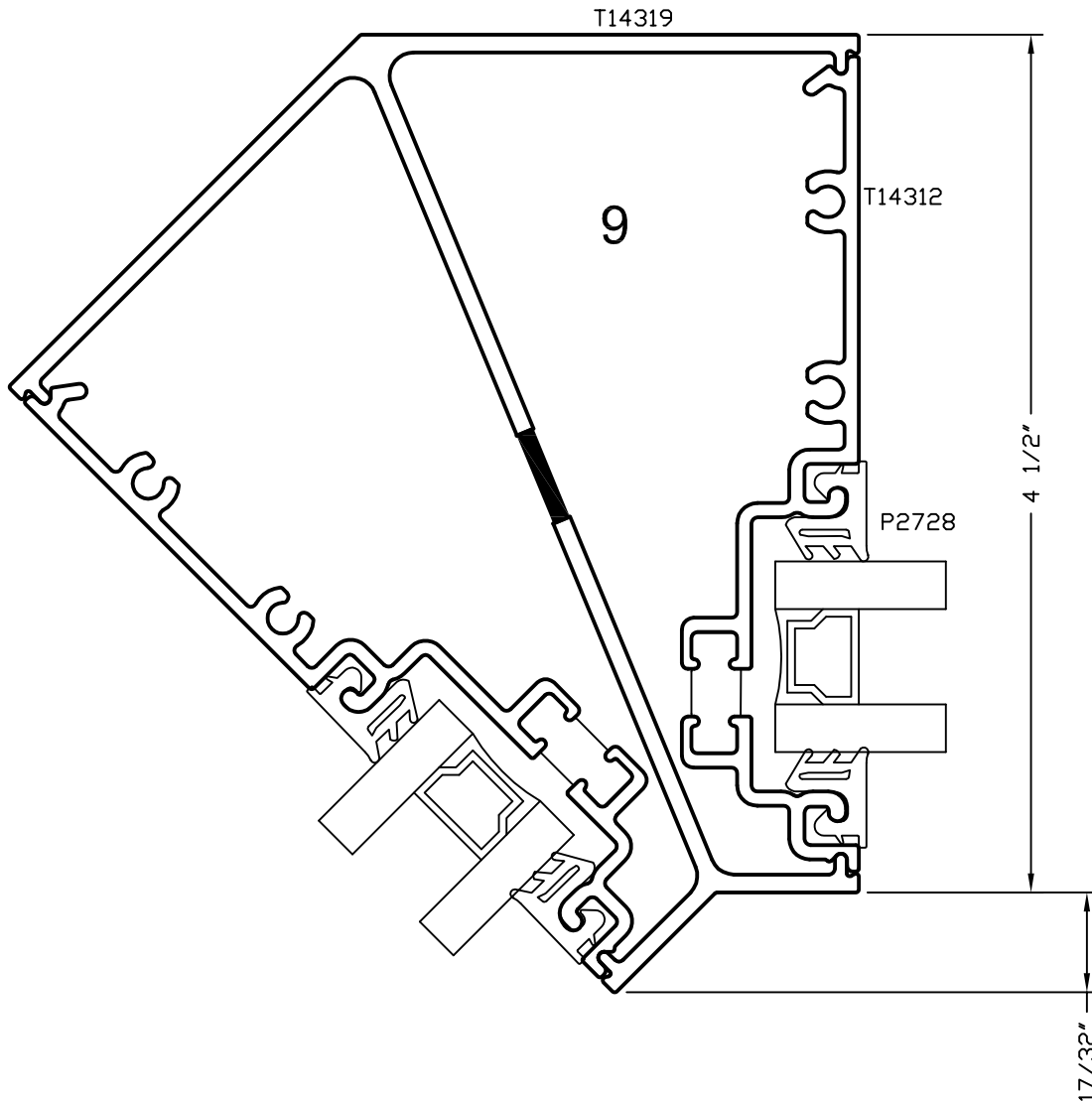
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.26

## 14000 Series Flush Glaze - I/O Plane

135° Corner - Outboard Plane

CAD DETAIL FILE NO.  
180CORN7

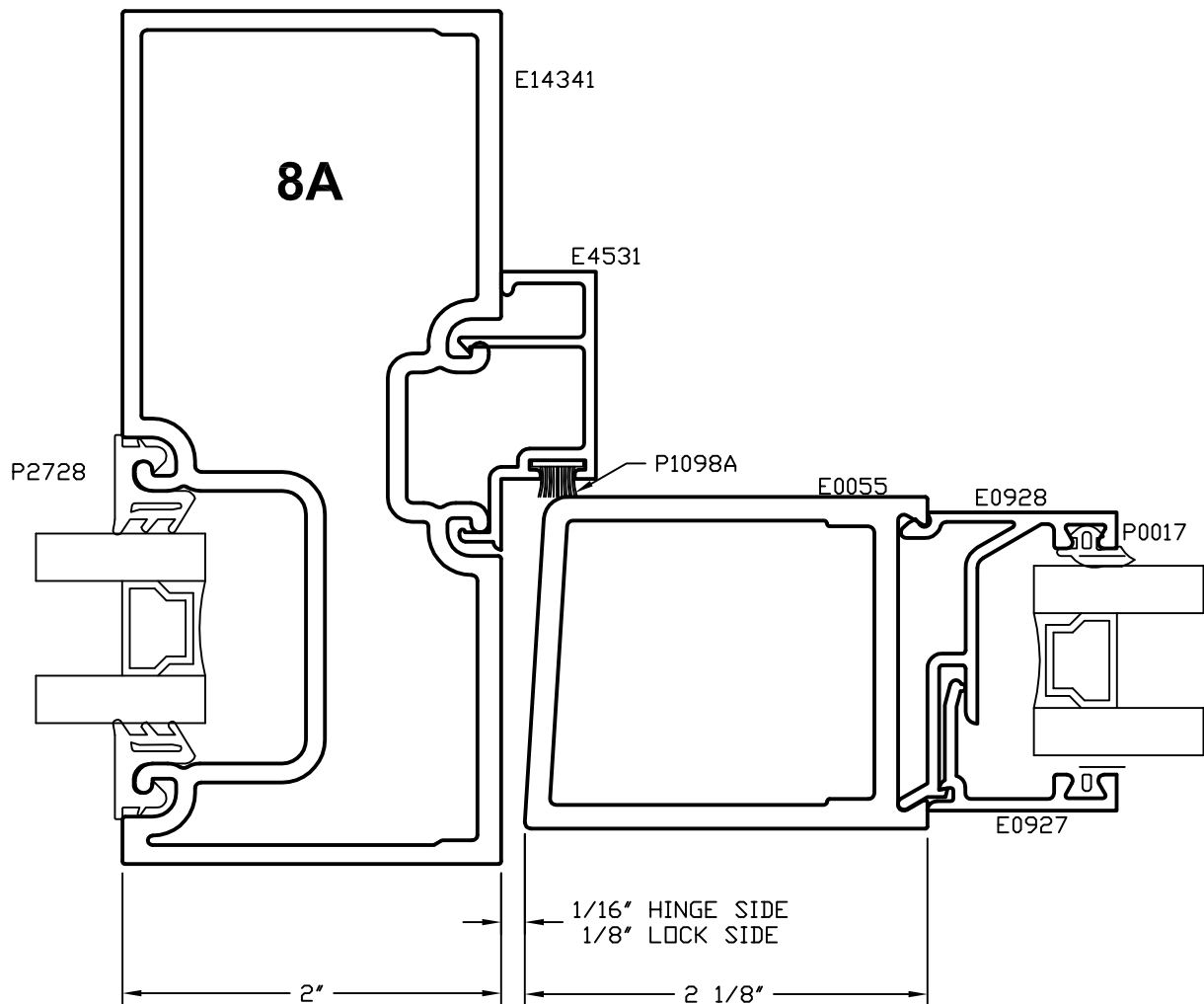


SUBSTITUTE E14319 & E14312 FOR  
T14319 & T14312, IF THERMAL  
BREAK IS NOT REQUIRED.

15.26a

# 14000 Series Flush Glaze - I/O Plane Door Jamb - Outboard Plane - Narrow Stile Offset Pivot or Butt Hinge

CAD DETAIL FILE NO.  
180DRJBNS3



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

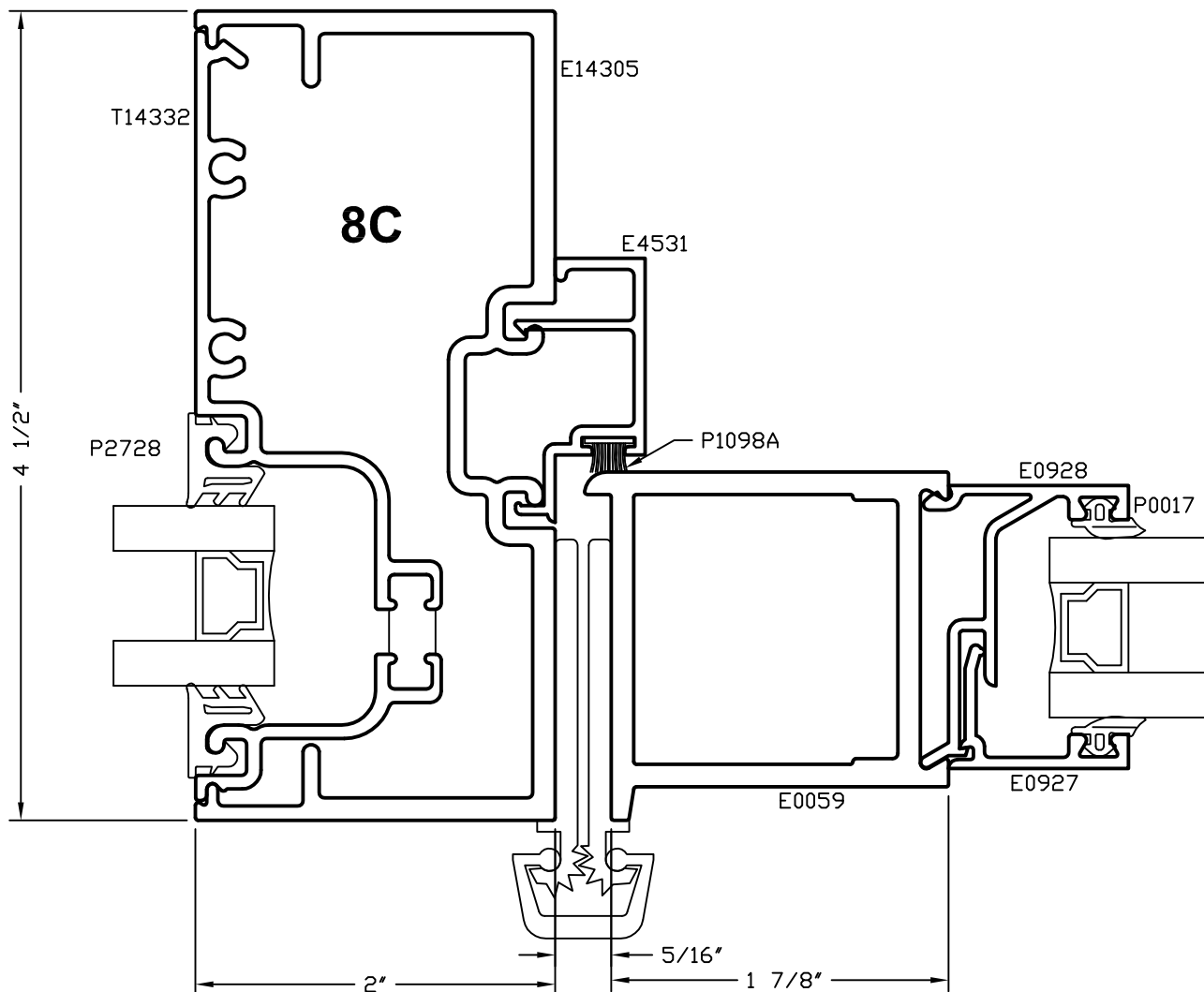
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CURTAINWALL AND ENTRANCE SYSTEMS  
2013

15.26b

## 14000 Series Flush Glaze - I/O Plane

Door Jamb - Outboard Plane - Narrow Stile With Continuous Hinge

CAD DETAIL FILE NO.  
180DRJBNSCH2

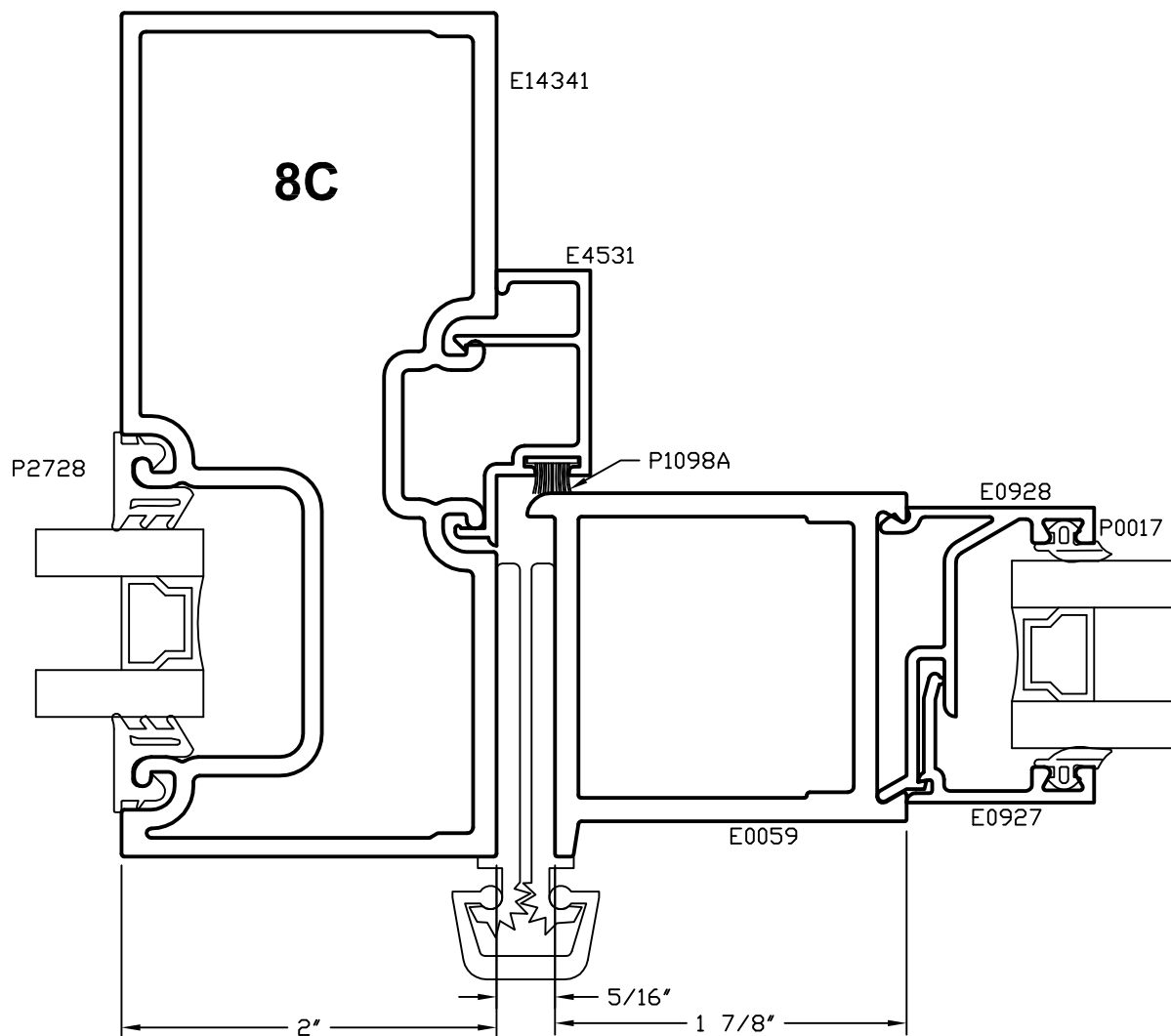


SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

15.26c

**14000 Series Flush Glaze - I/O Plane**  
**Door Jamb - Outboard Plane - Narrow Stile With Continuous Hinge**

CAD DETAIL FILE NO.  
180DRJBNSCH3



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

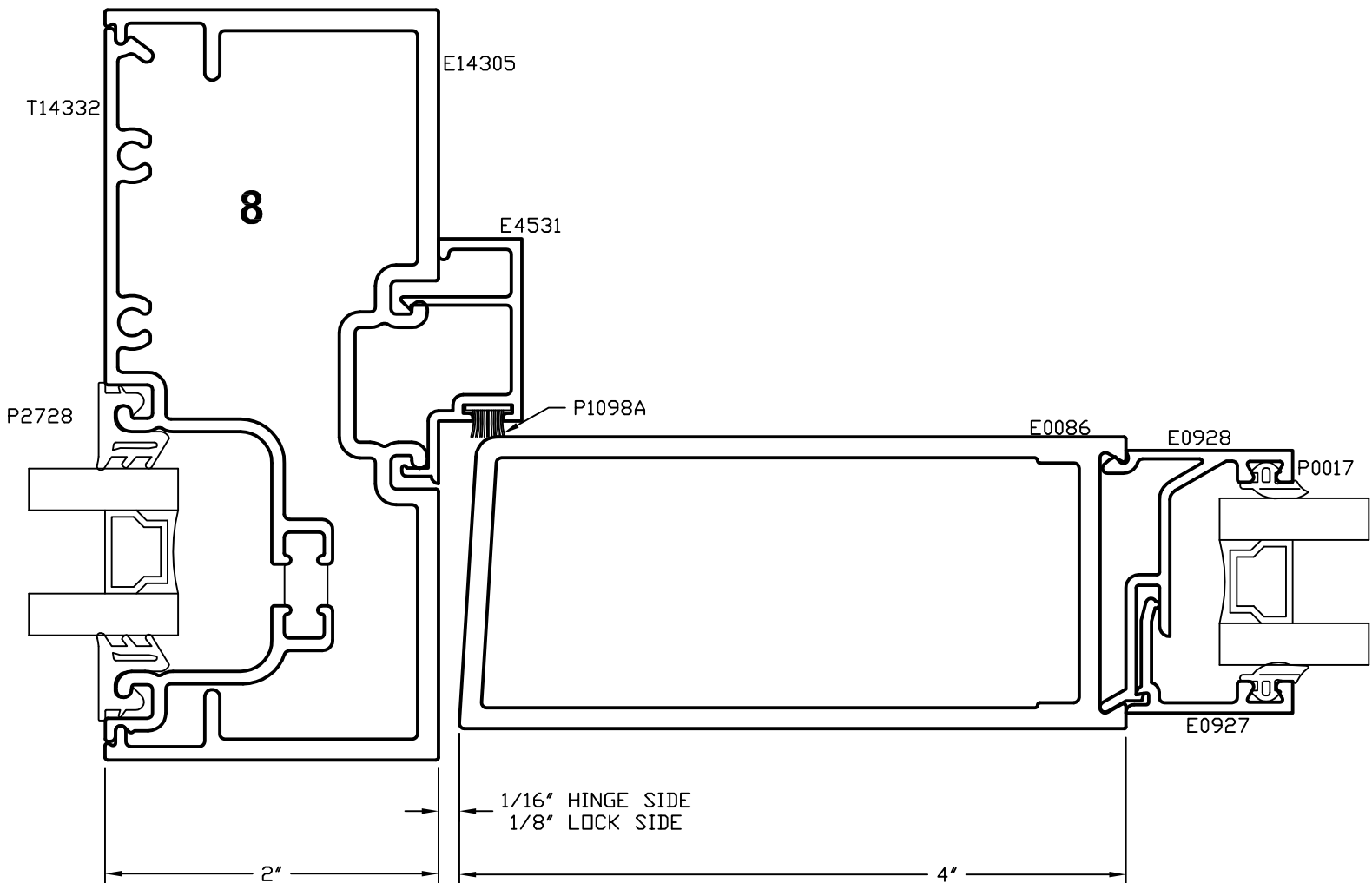
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LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS  
2013

15.26d

## 14000 Series Flush Glaze - I/O Plane

Door Jamb - Outboard Plane - Medium Stile Offset Pivot or Butt Hinge

CAD DETAIL FILE NO.  
180DRJBMS2



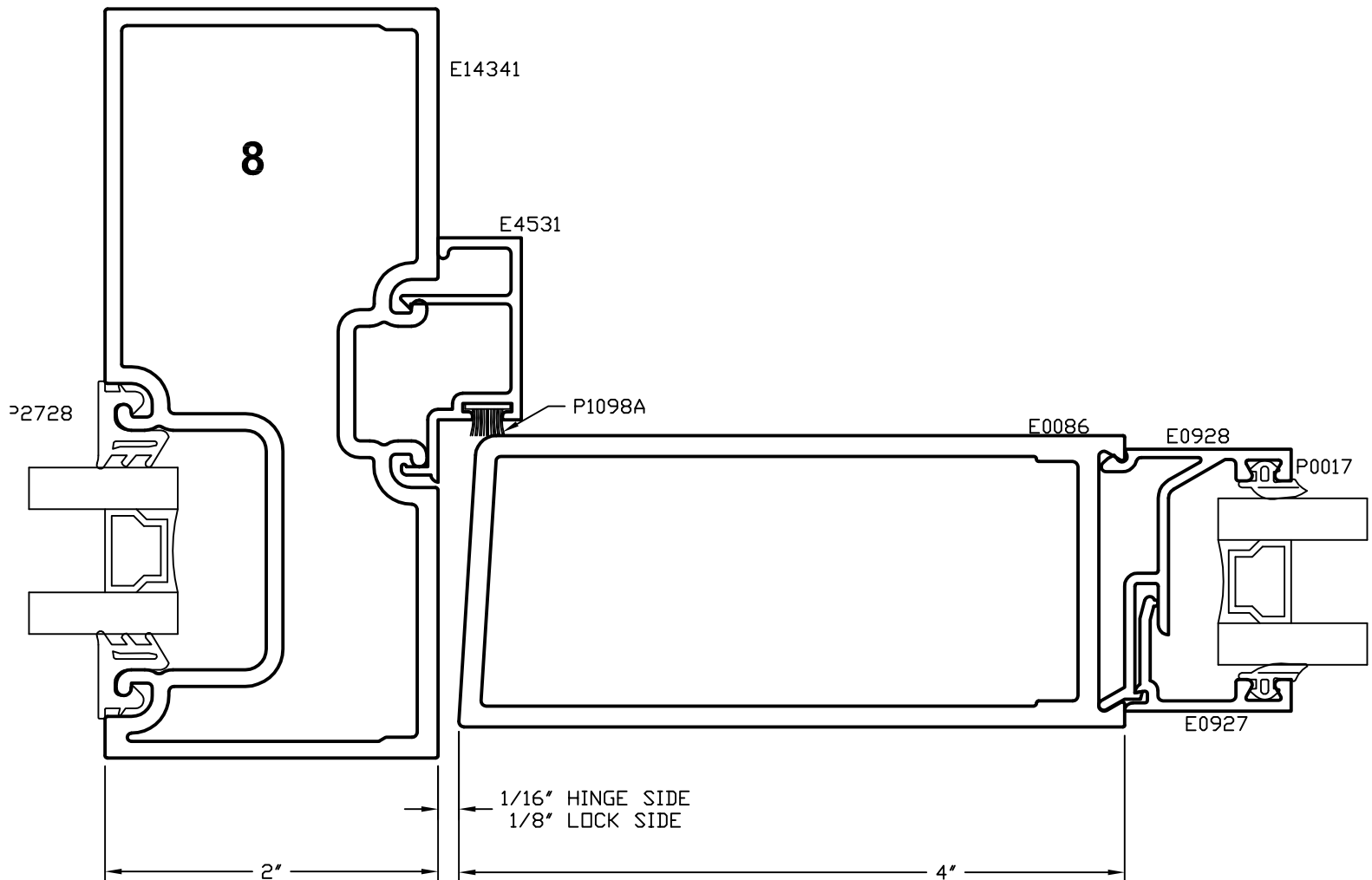
SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

15.26e

## 14000 Series Flush Glaze - I/O Plane

Door Jamb - Outboard Plane - Medium Stile Offset Pivot or Butt Hinge

CAD DETAIL FILE NO.  
180DRJBMS3



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

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LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS  
2013

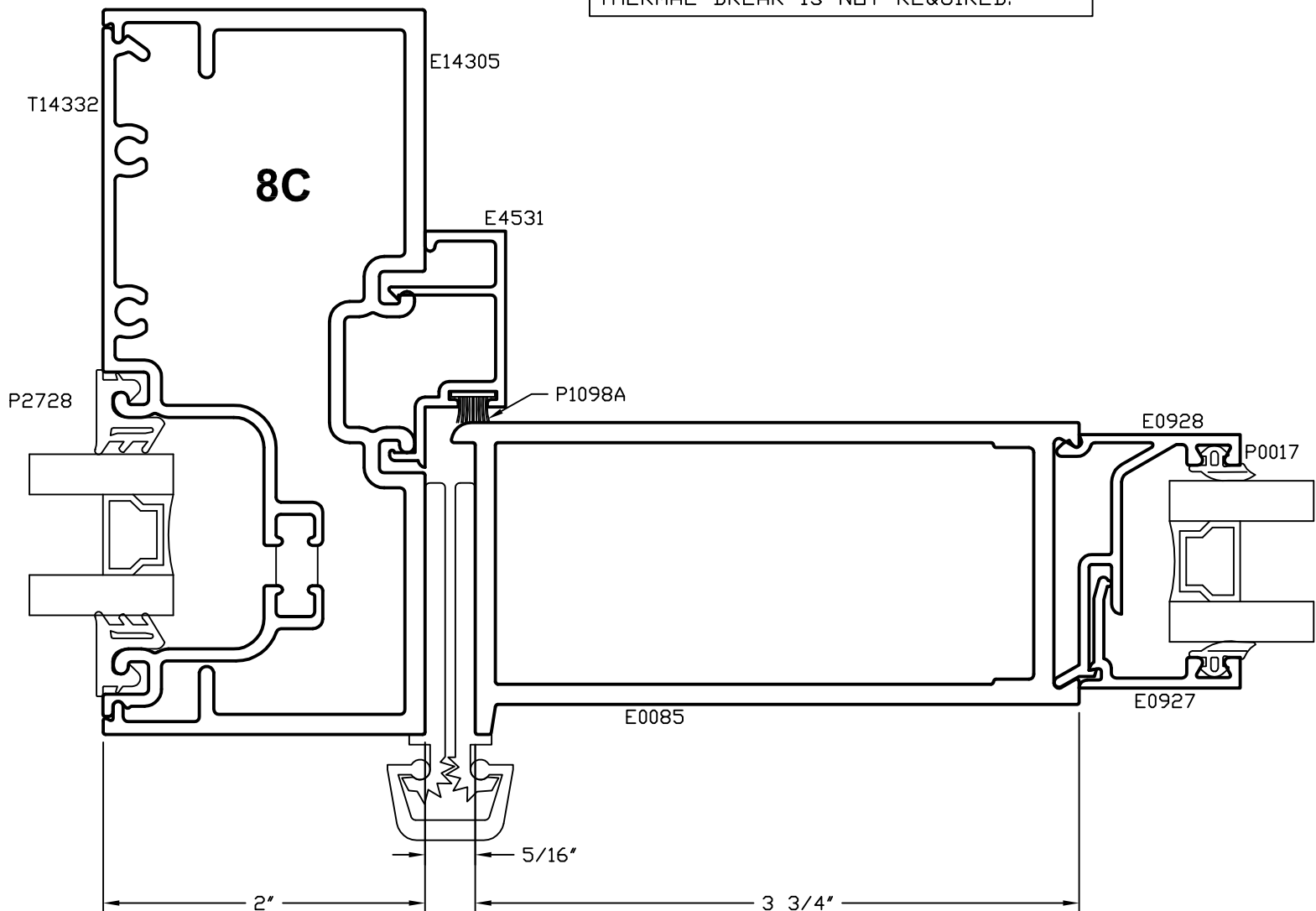
15.26f

## 14000 Series Flush Glaze - I/O Plane

Door Jamb - Outboard Plane - Medium Stile With Continuous Hinge

CAD DETAIL FILE NO.  
180DRJBMSCH2

SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.



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\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE



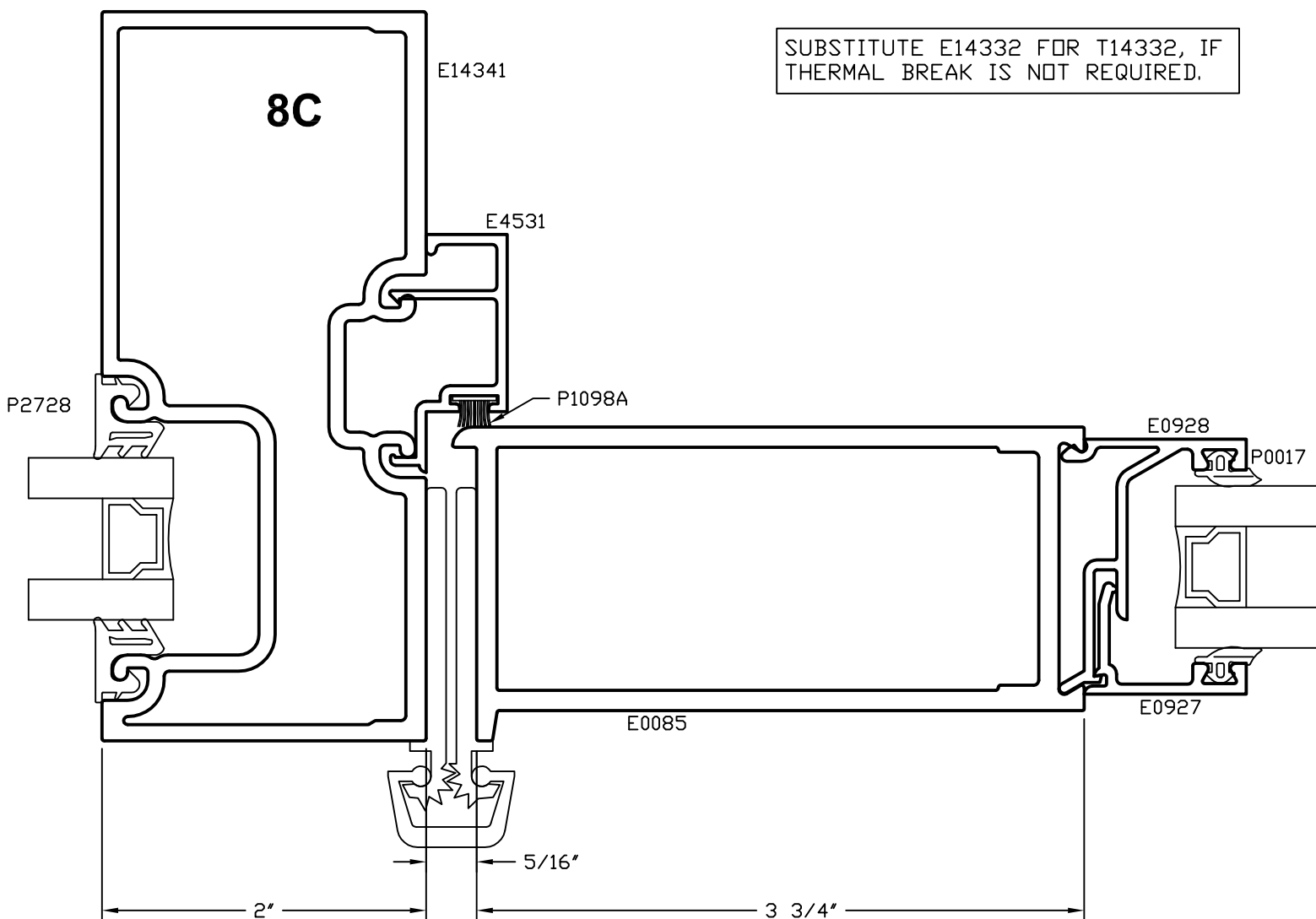
15.26g

# 14000 Series Flush Glaze - I/O Plane

## Door Jamb - Outboard Plane - Medium Stile With Continuous Hinge

CAD DETAIL FILE NO.  
180DRJBMSCH3

SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

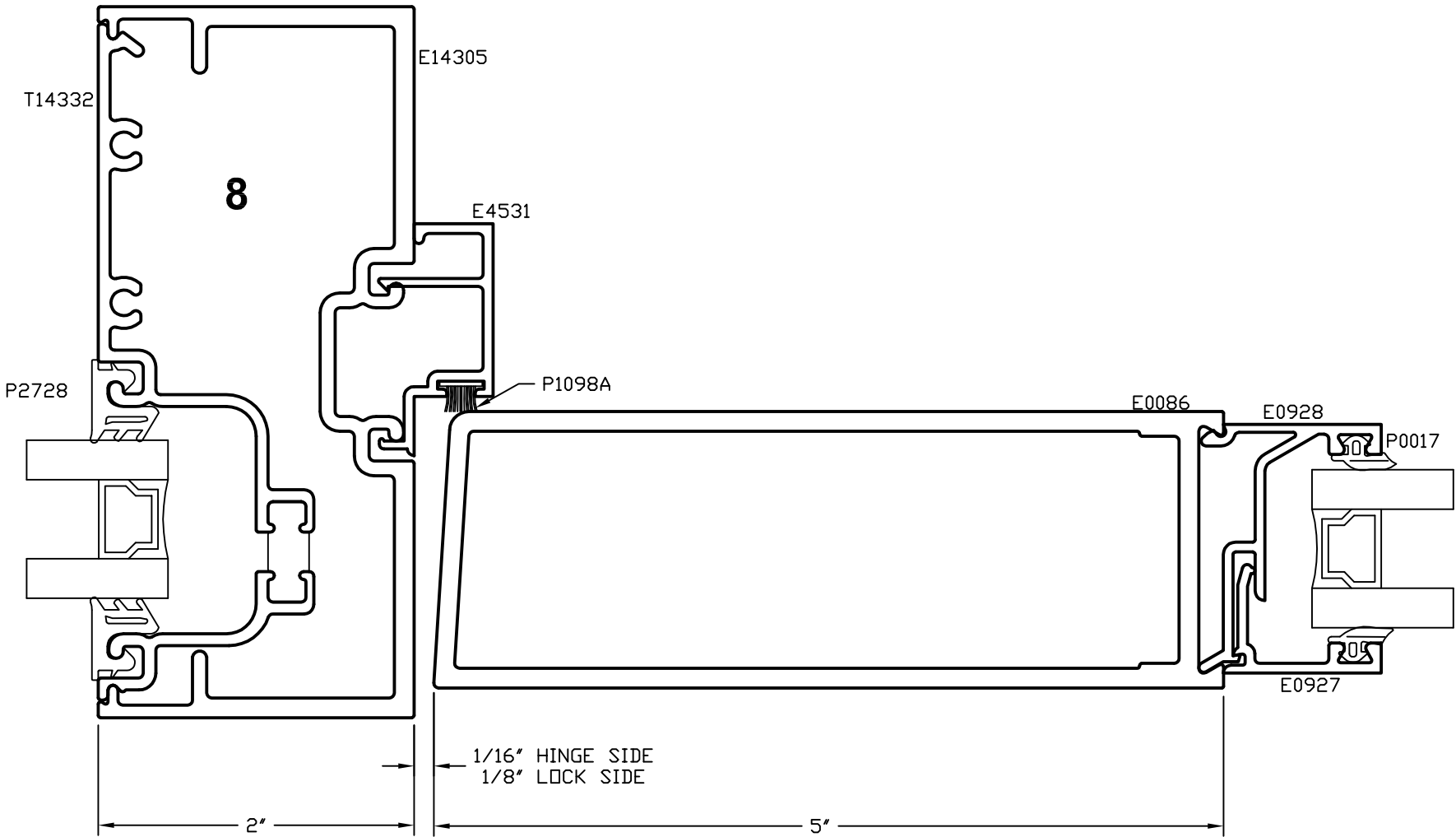


\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

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CURTAINWALL AND ENTRANCE SYSTEMS  
2013

15.26h  
14000 Series Flush Glaze - I/O Plane  
Door Jamb - Outboard Plane - Wide Stile Offset Pivot or Butt Hinge

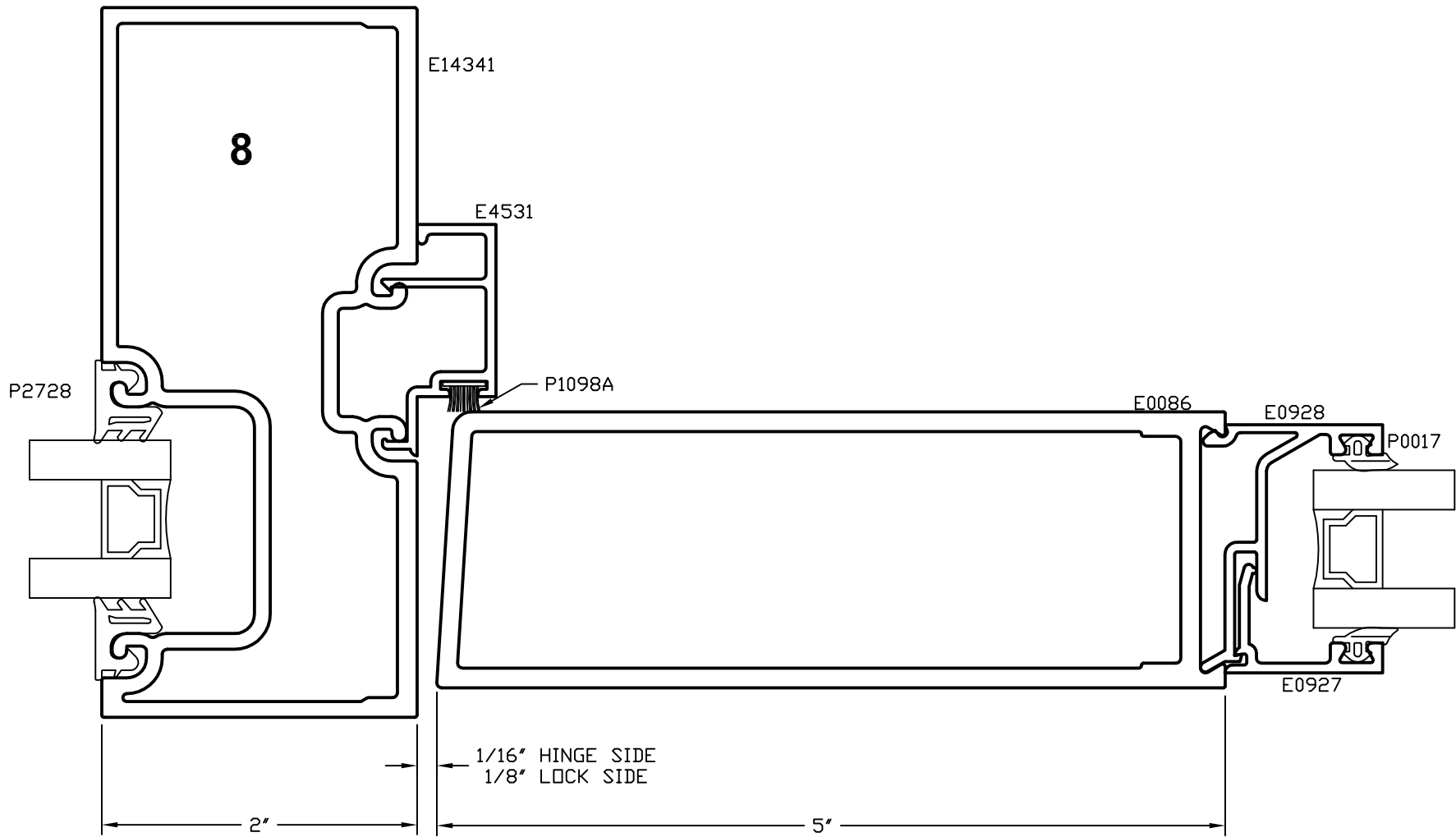
CAD DETAIL FILE NO.  
180DRJBWS2



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

15.26i  
14000 Series Flush Glaze - I/O Plane  
Door Jamb - Outboard Plane - Wide Stile Offset Pivot or Butt Hinge

CAD DETAIL FILE NO.  
180DRJBWS3

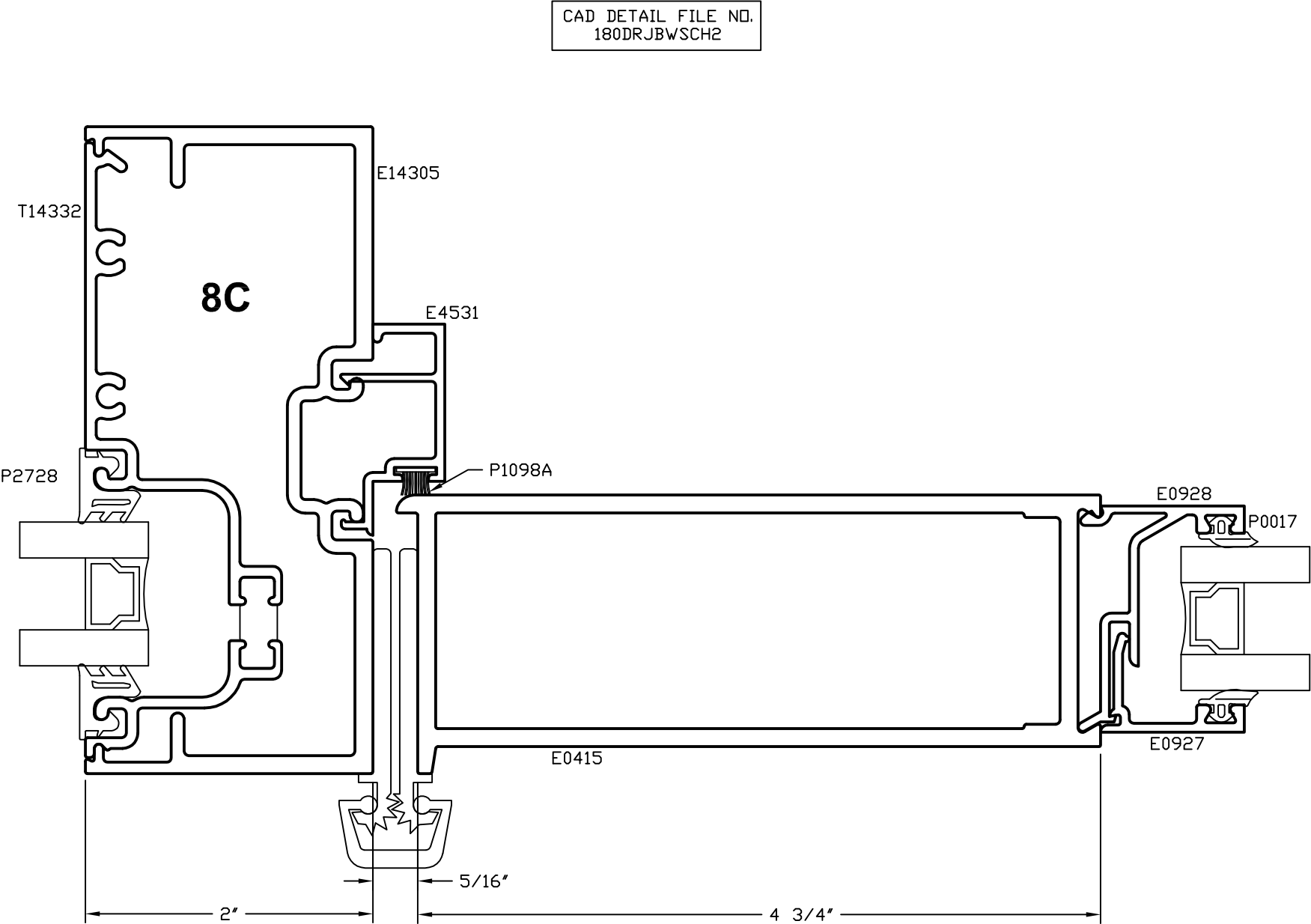


SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

15.26j

14000 Series Flush Glaze - I/O Plane

Door Jamb - Outboard Plane - Wide Stile With Continuous Hinge

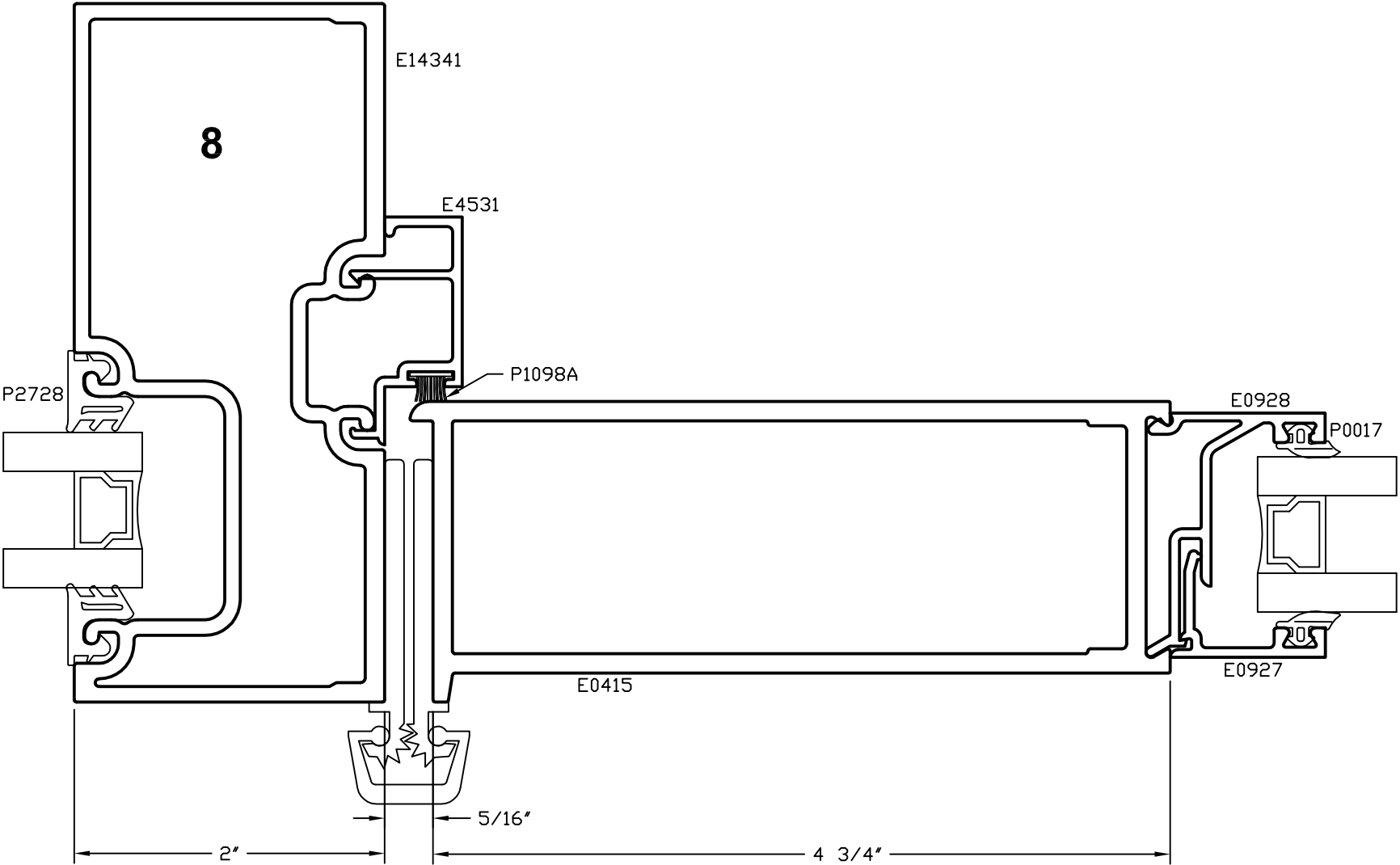


SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.26k  
14000 Series Flush Glaze - I/O Plane  
Door Jamb - Outboard Plane - Wide Stile With Continuous Hinge

CAD DETAIL FILE NO.  
180DRJBWSCH3



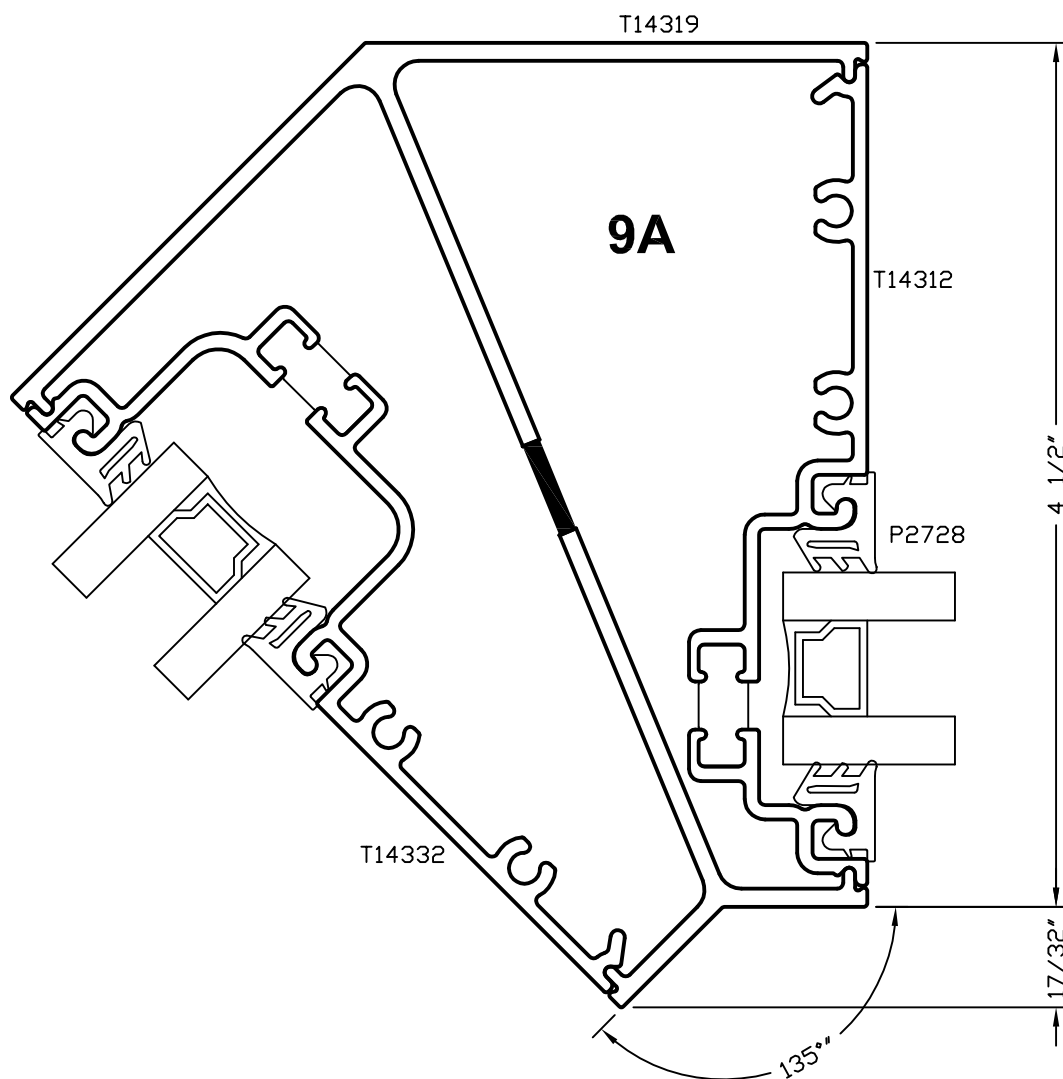
SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.



# 14000 Series Flush Glaze- I/O Plane

## 135° Corner - Inboard/Outboard Plane

CAD DETAIL FILE NO.  
180CORN8



SUBSTITUTE E14319 & E14312 FOR  
T14319 & T14312, IF THERMAL  
BREAK IS NOT REQUIRED.

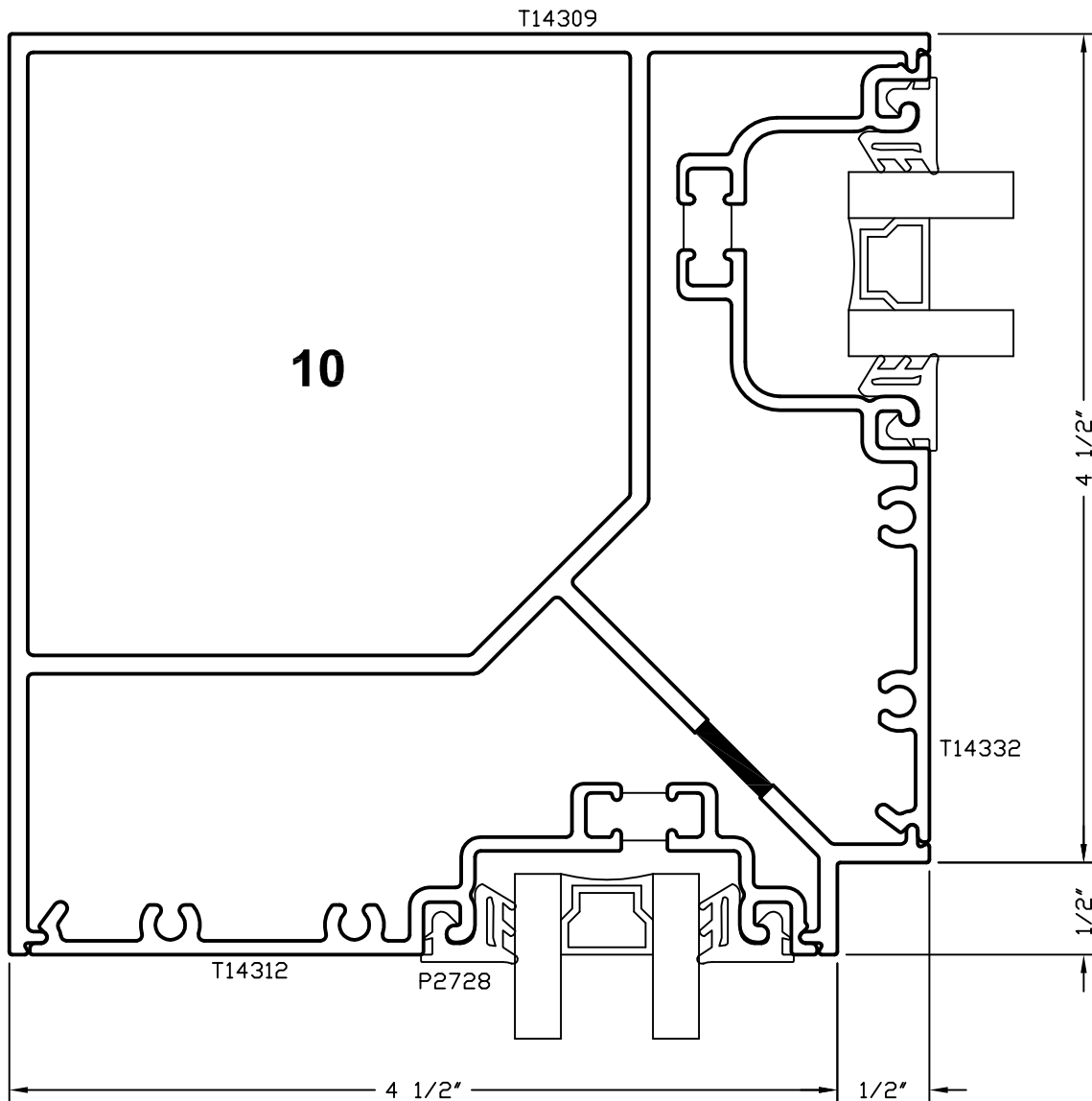
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.28

## 14000 Series Flush Glaze - I/O Plane

90° Corner - Inboard/Outboard Plane

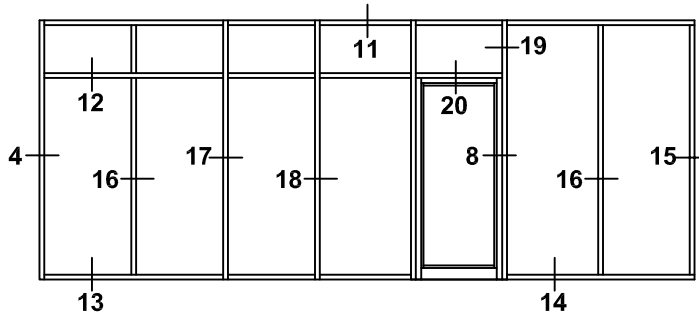
CAD DETAIL FILE NO.  
180CORN6



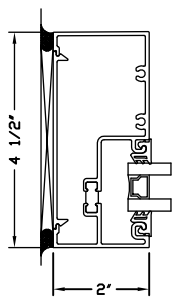
SUBSTITUTE E14309 & E14312 FOR  
T14309 & T14312, IF THERMAL  
BREAK IS NOT REQUIRED.



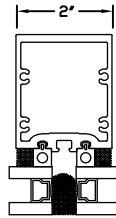
# 14000 Series Flush Glaze - I/O Plane Elevation & 1/4 Size Details



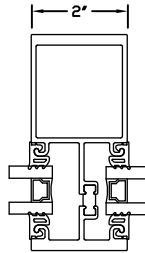
CAD DETAIL FILE NO.  
180ELEVA



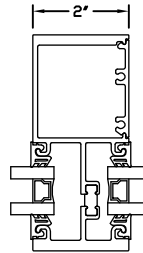
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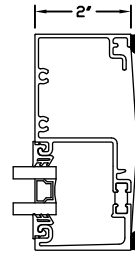
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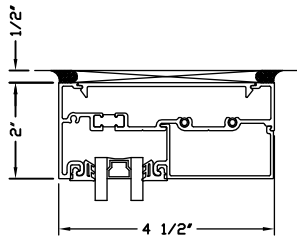
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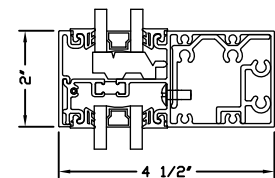
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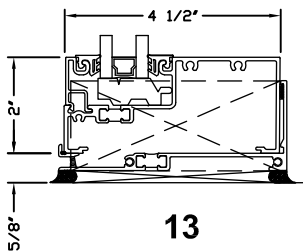
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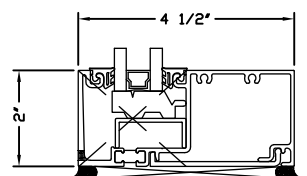
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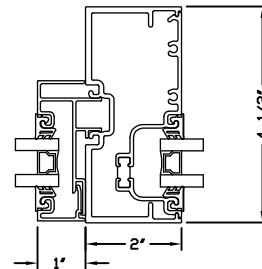
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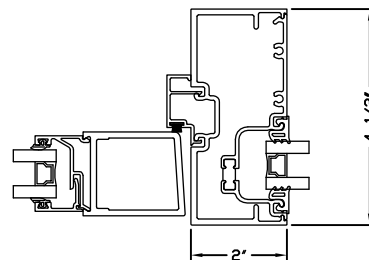
13



14

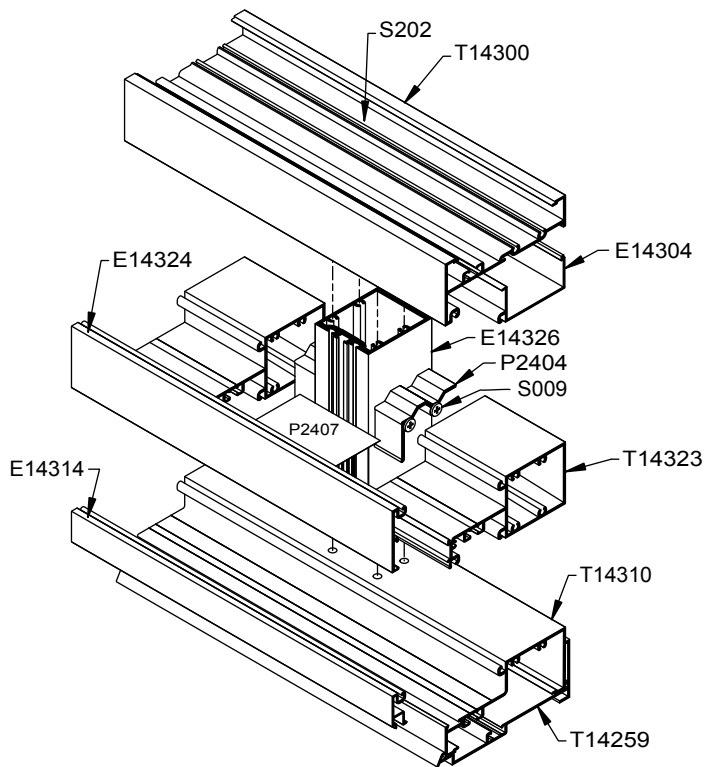
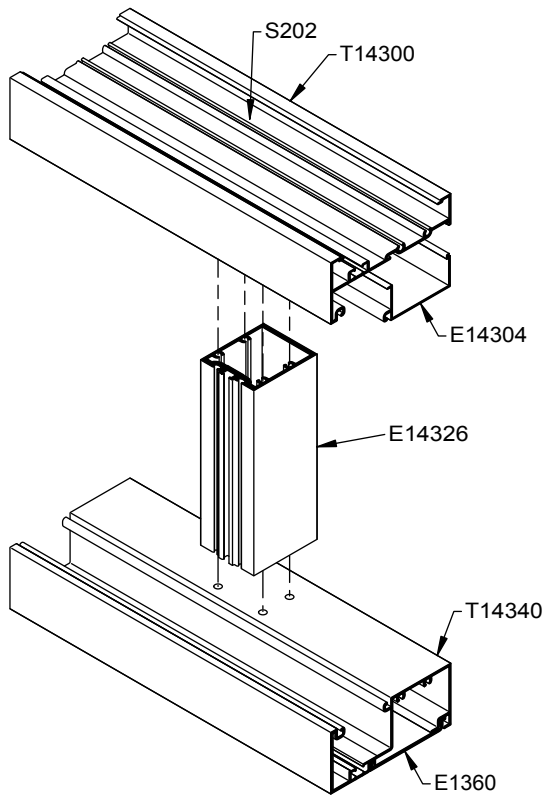


19



8

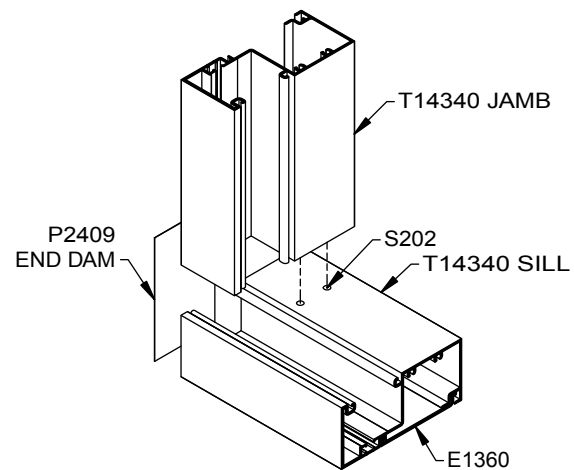
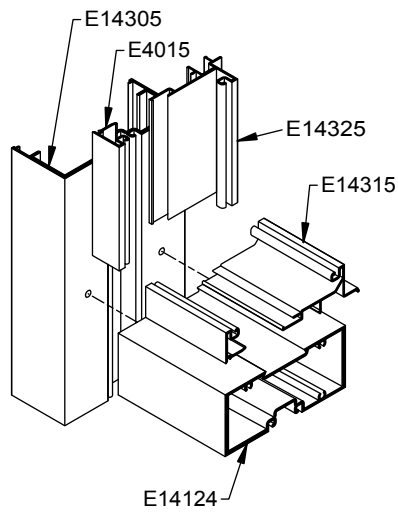
15.30  
14000 Series Flush Glaze - I/O Plane  
Isometric Assembly Details



# 15.31

## 14000 Series Flush Glaze - I/O Plane

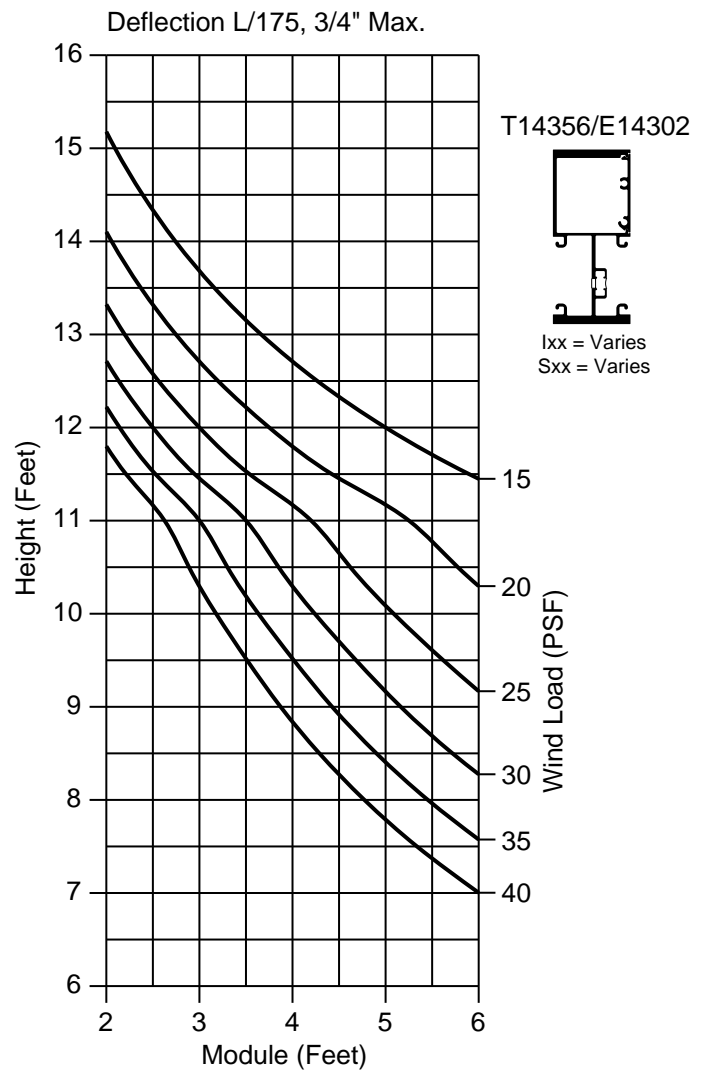
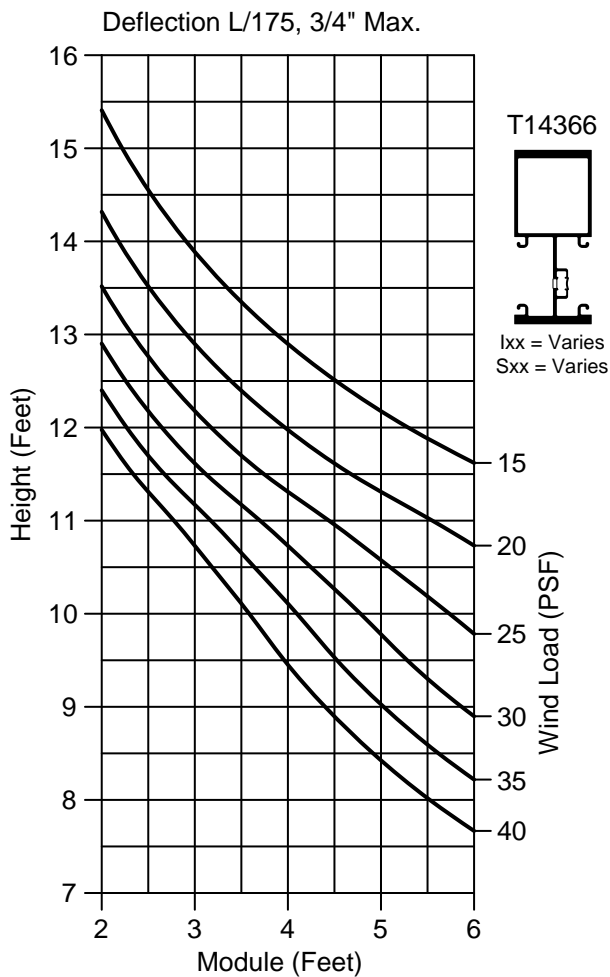
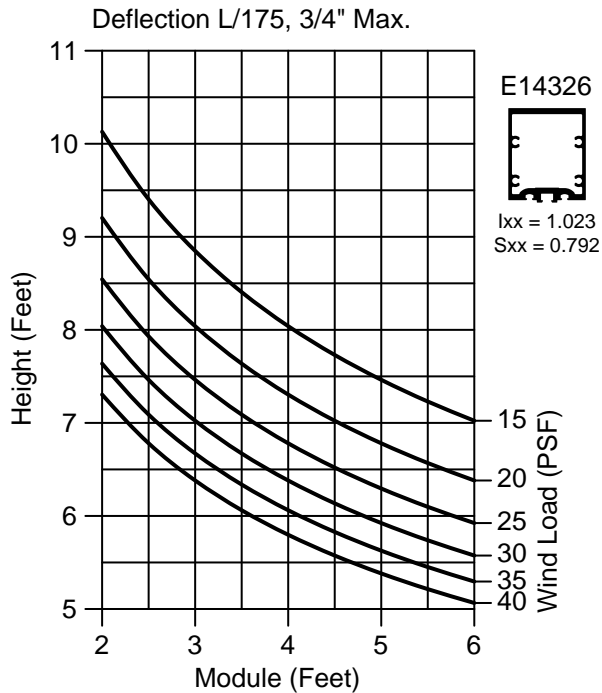
### Isometric Assembly Details



# 15.32

## 14000 Series Flush Glaze - I/O Plane

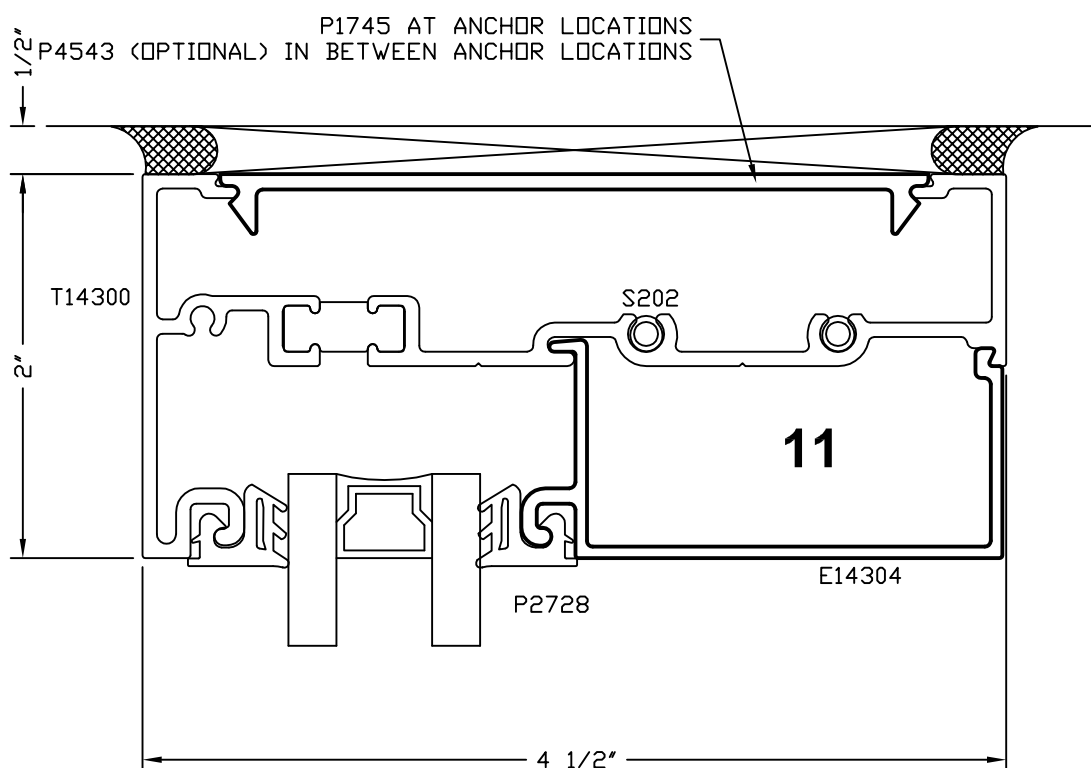
### Windload Charts



# 14000 Series Flush Glaze - I/O Plane

## Screw Spline Head - Inside Set/Outboard Plane

CAD DETAIL FILE NO.  
180HEAD15



SUBSTITUTE E14300 FOR T14300, IF  
THERMAL BREAK IS NOT REQUIRED.

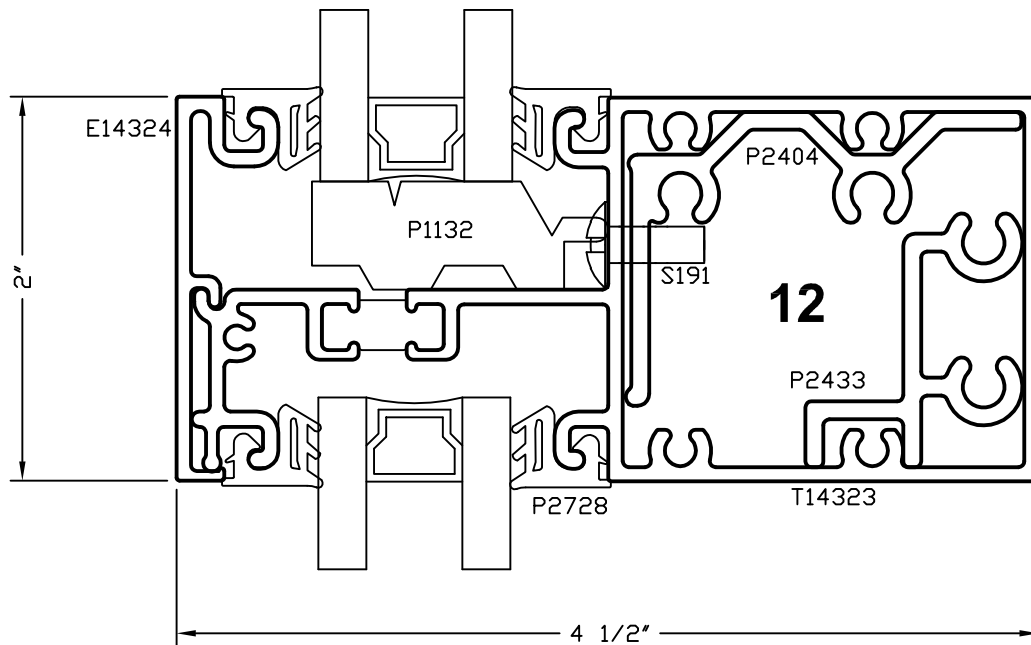
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.34

## 14000 Series Flush Glaze - I/O Plane

Shear Block Intermediate Horizontal - Inside Set/SSG Vertical

CAD DETAIL FILE NO.  
180HORZ15



SUBSTITUTE E14323 FOR T14323, IF  
THERMAL BREAK IS NOT REQUIRED.

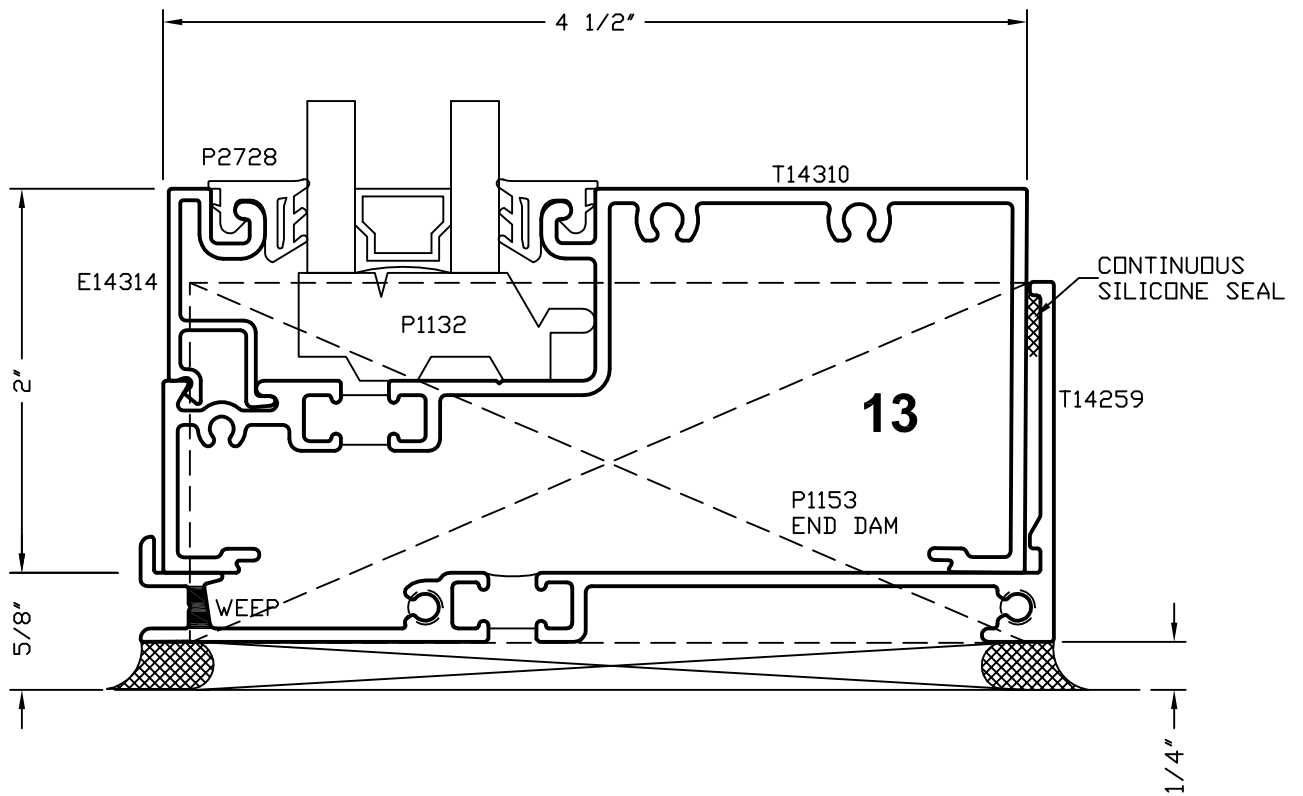
**TUBELITE®**  
DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS  
2013

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

# 14000 Series Flush Glaze - I/O Plane Screw Spline Sill - Outside Set/SSG Vertical

CAD DETAIL FILE NO.  
180SILL11



SUBSTITUTE E14310 & E14059 FOR  
T14310 & T14259, IF THERMAL  
BREAK IS NOT REQUIRED.

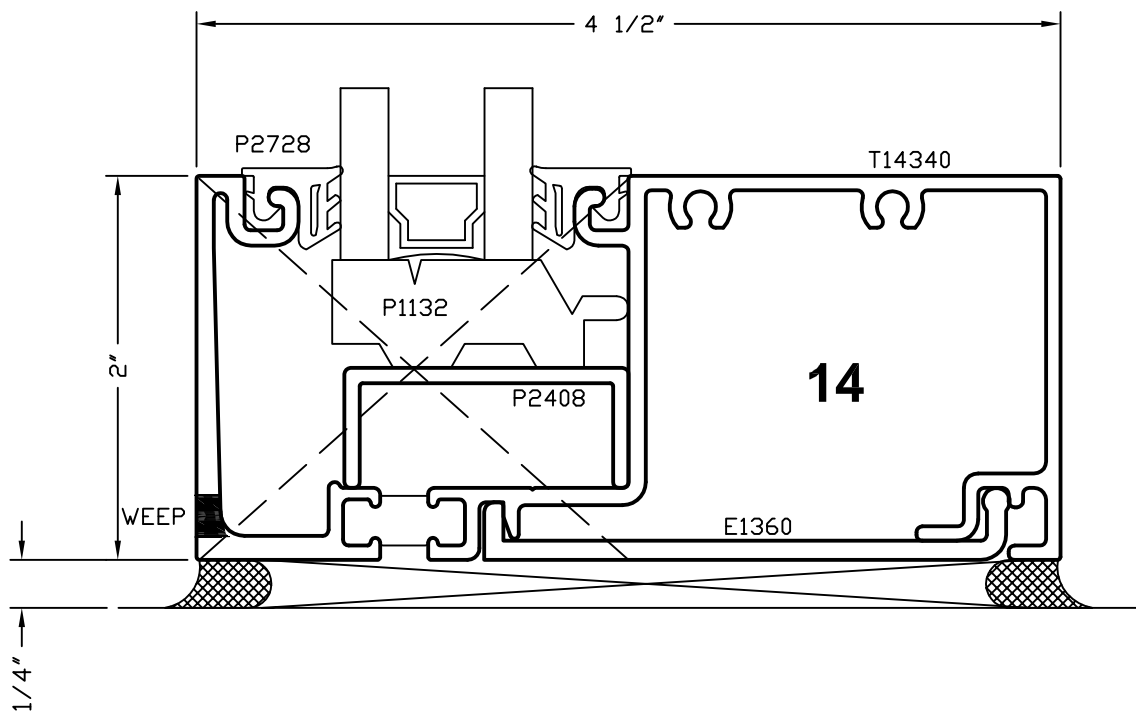
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.36

## 14000 Series Flush Glaze - I/O Plane

Screw Spline Sill With Sill Runner

CAD DETAIL FILE NO.  
180SILL10



SUBSTITUTE E14340 FOR T14340, IF  
THERMAL BREAK IS NOT REQUIRED.

**TUBELITE®**  
DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS

2013

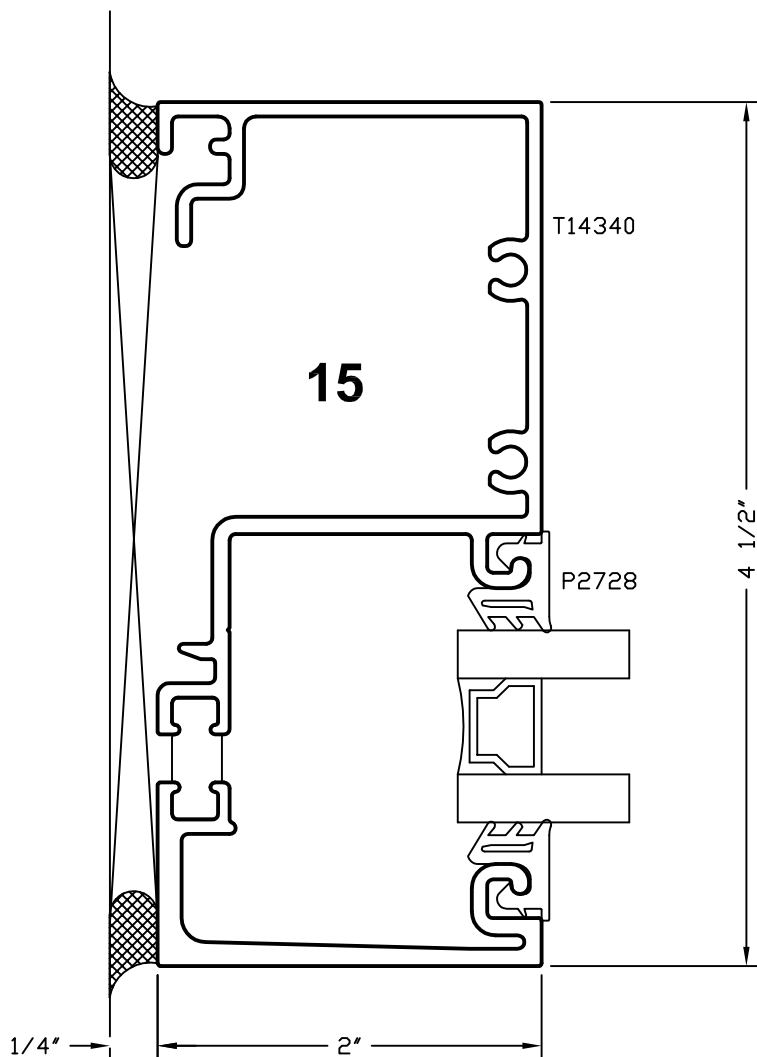
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE



15.37

# 14000 Series Flush Glaze - I/O Plane Alternate Screw Spline Jamb - Outboard Plane

CAD DETAIL FILE NO.  
180JAMB4



SUBSTITUTE E14340 FOR T14340, IF  
THERMAL BREAK IS NOT REQUIRED.

\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

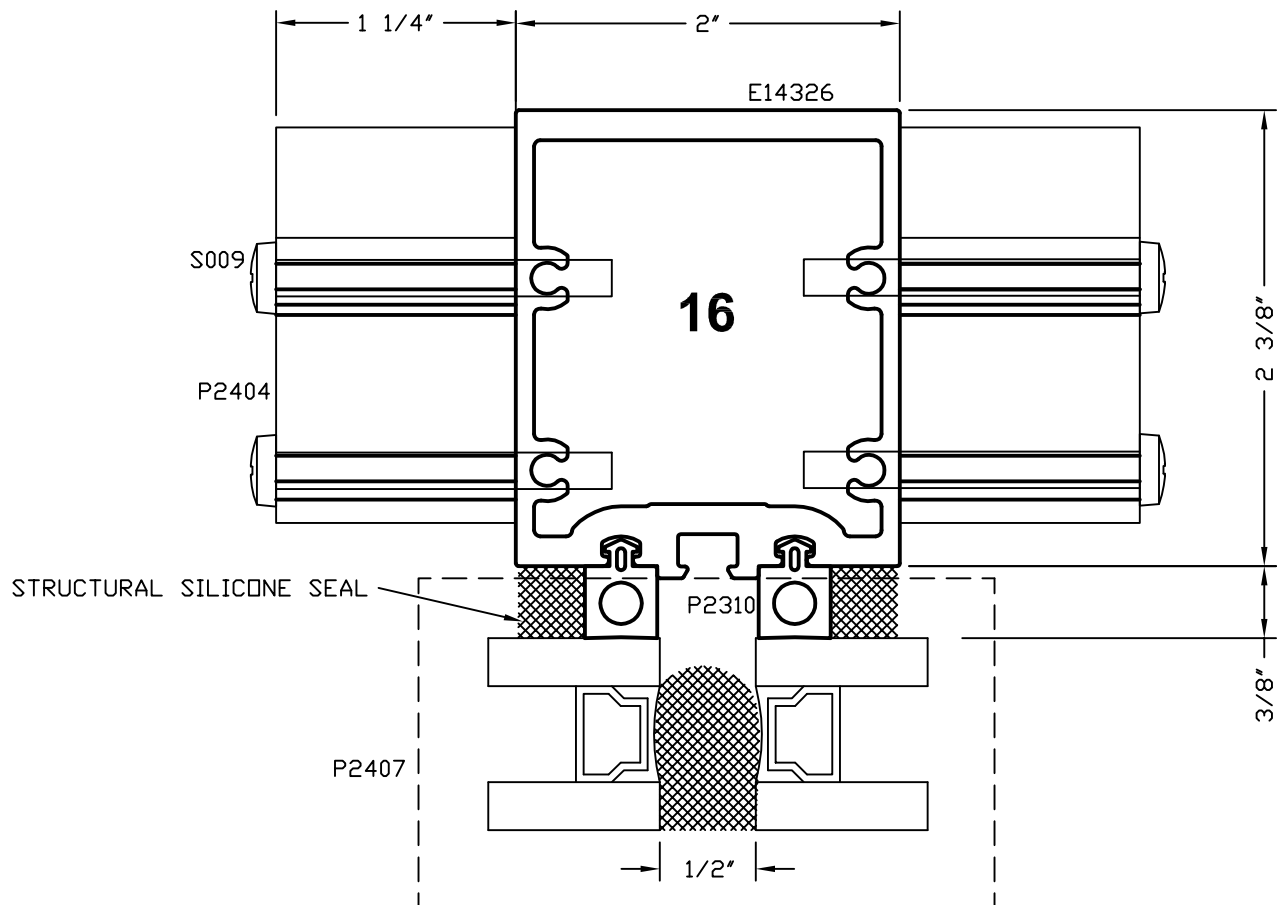
**TUBELITE**  
DEPENDABLE  
LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS  
2013

15.38

## 14000 Series Flush Glaze - I/O Plane

Silicone Glazed Vertical

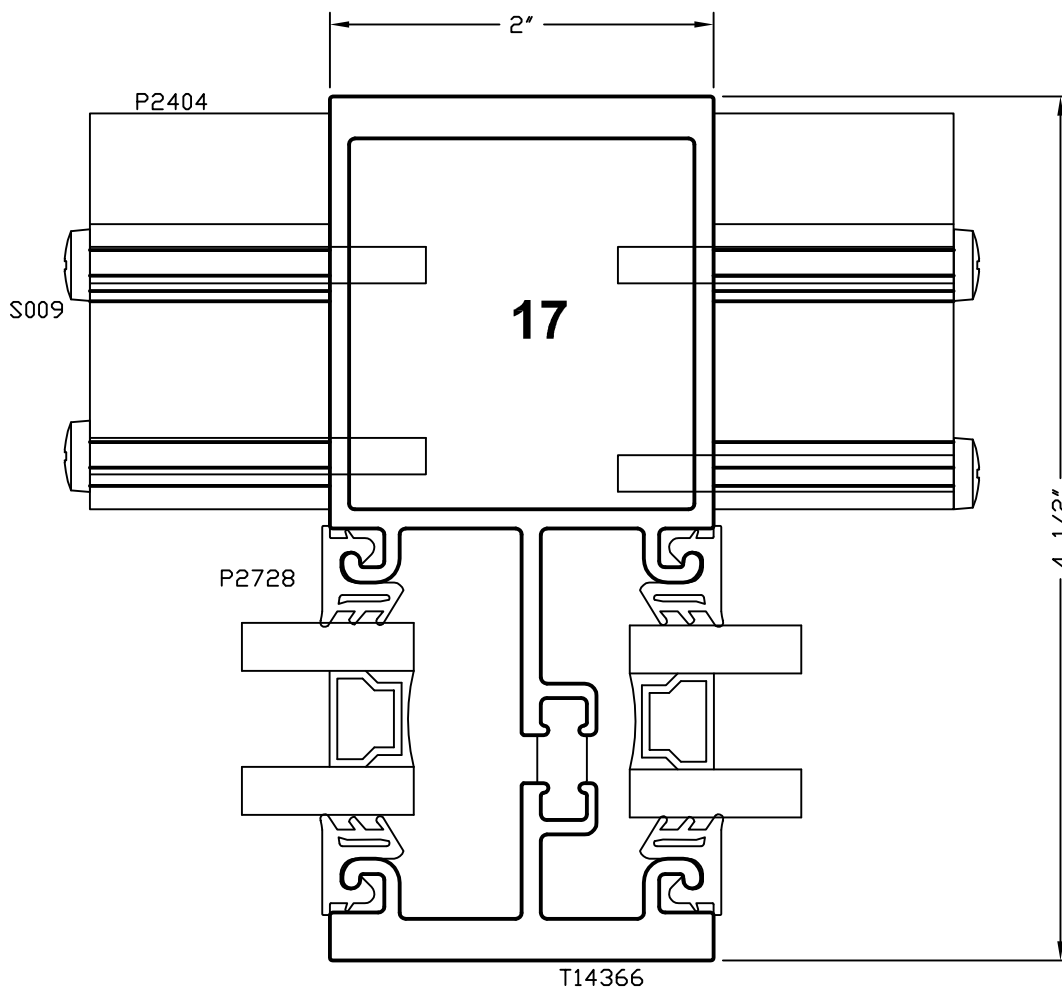
CAD DETAIL FILE NO.  
180VERT12



# 14000 Series Flush Glaze - I/O Plane

## Heavy Duty Tubular Vertical - Outboard Plane

CAD DETAIL FILE NO.  
180VERT14



SUBSTITUTE E14366 FOR  
T14366, IF THERMAL BREAK  
IS NOT REQUIRED.

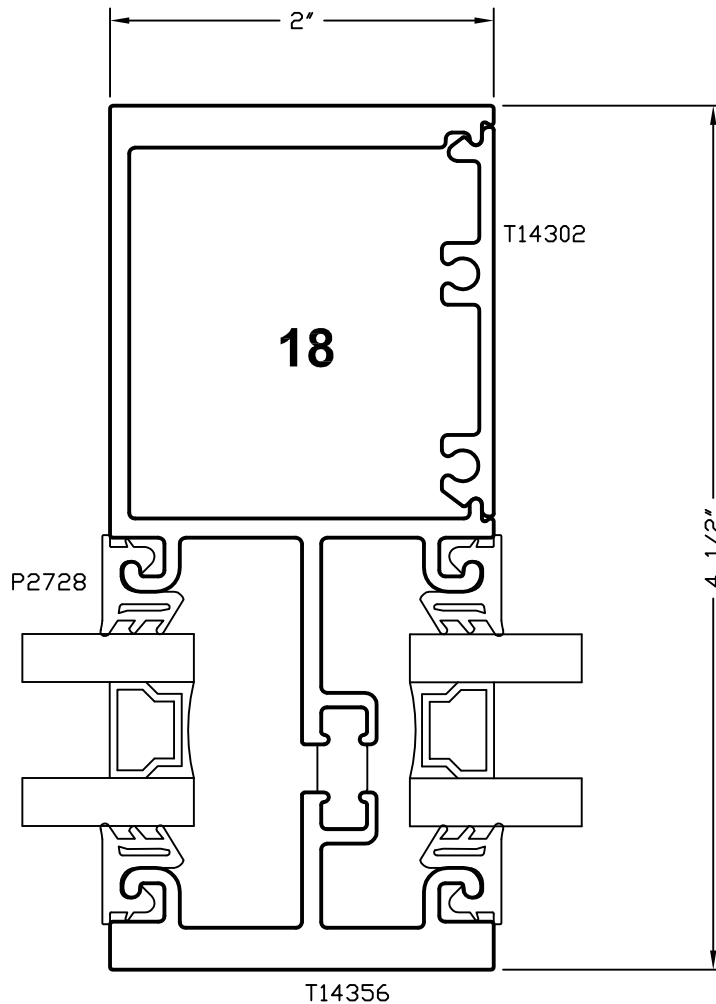
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

15.40

## 14000 Series Flush Glaze - I/O Plane

### Heavy Duty Screw Spline Vertical - Outboard Plane

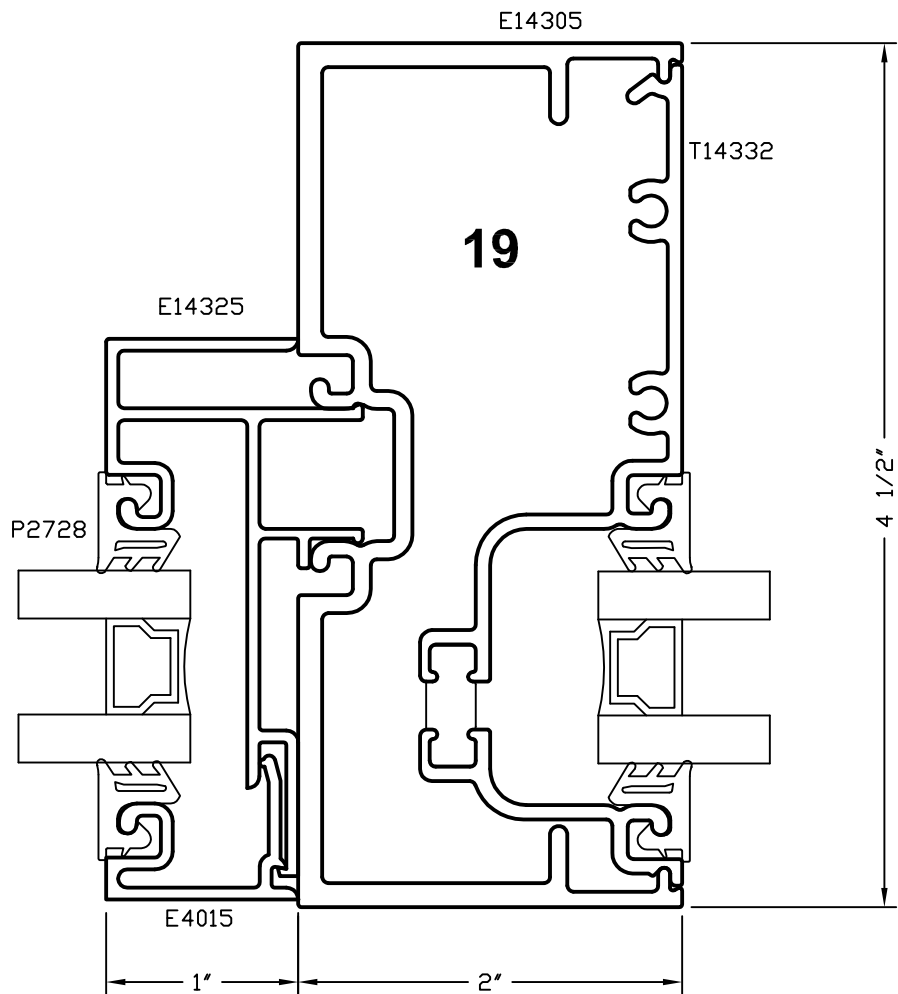
CAD DETAIL FILE NO.  
180VERT13



SUBSTITUTE E14356 FOR T14356, IF  
THERMAL BREAK IS NOT REQUIRED.

14000 Series Flush Glaze - I/O Plane  
Transom Door Jamb - Outboard Plane

CAD DETAIL FILE NO.  
180TRANVERT



SUBSTITUTE E14332 FOR T14332, IF  
THERMAL BREAK IS NOT REQUIRED.

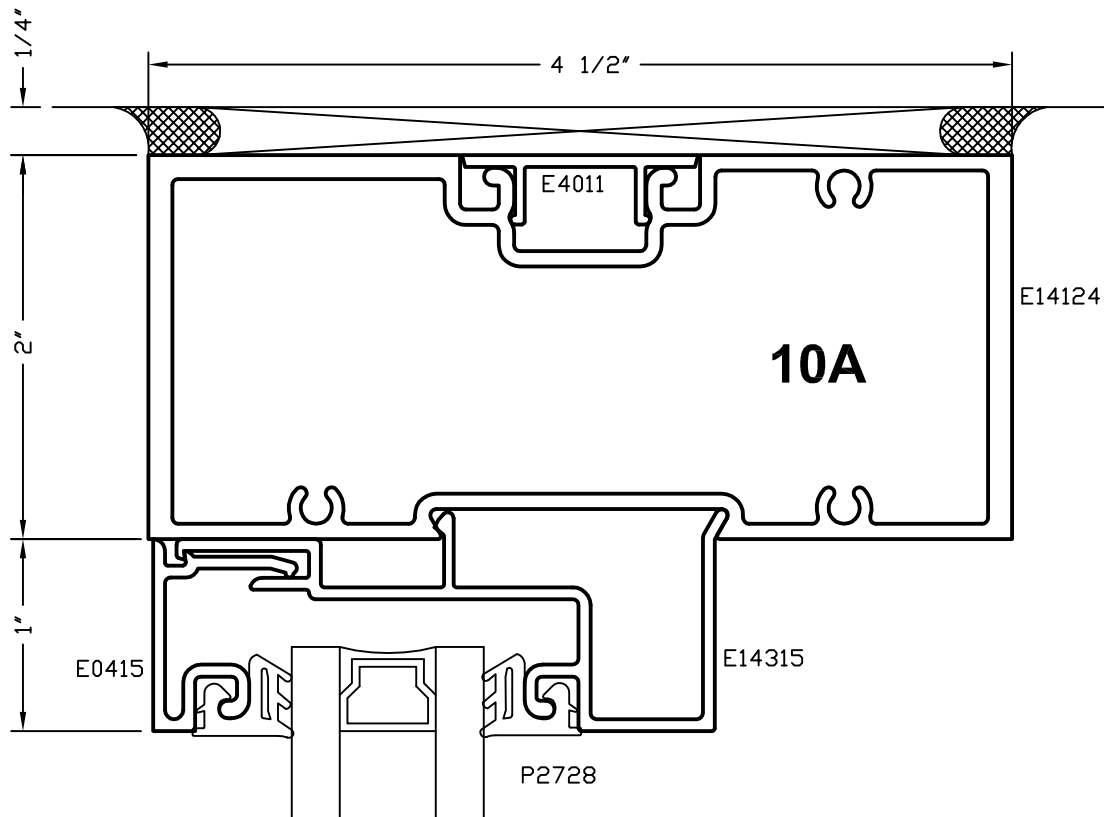
\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

# 15.41a

## 14000 Series Flush Glaze - I/O Plane

### Transom Header - Outboard Plane

CAD DETAIL FILE NO.  
180TRAN3



# 15.42

## E14000 Series Flush Glaze - I/O Plane

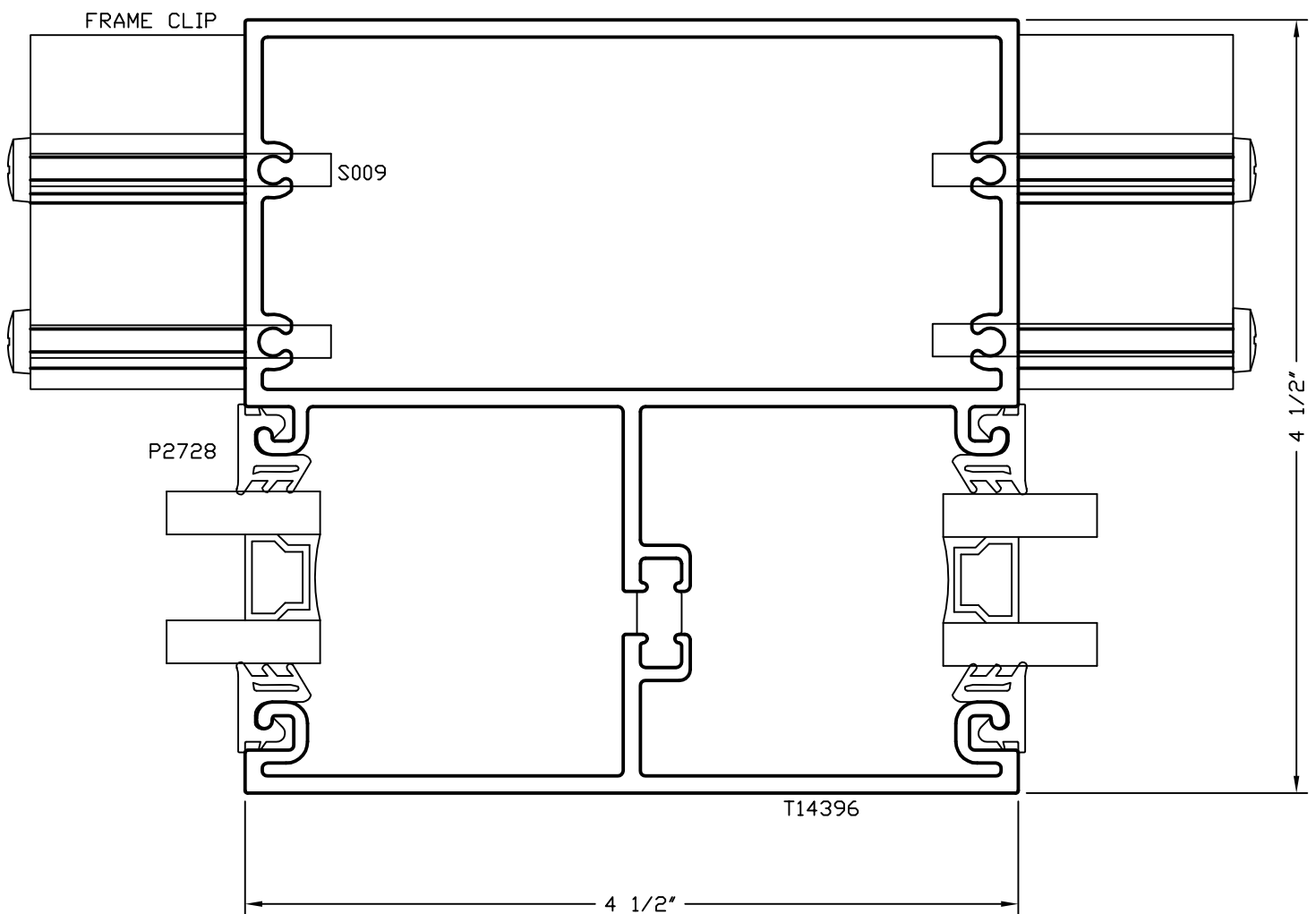
### Structural Values

Shape	Description	Area (in <sup>2</sup> )	Ixx (in <sup>4</sup> )	Sxx (in <sup>3</sup> )	Iyy (in <sup>4</sup> )	Syy (in <sup>3</sup> )
E14055	Sub Sill	0.619	1.662	0.610	0.107	0.072
E14259	Sub Sill	0.600	1.677	0.571	0.110	0.074
E14300	Open-back Head - Inside Glaze	0.845	2.213	0.840	0.181	0.163
E14301	Open-back Sill / Jamb	1.024	2.684	1.111	0.402	0.323
E14302	Vertical Flat Filler for E14306	0.244	0.089	0.085	0.001	0.007
E14303	Horizontal - Inside Glaze	1.154	2.631	1.045	0.290	0.206
E14304	Inside Glaze Glass Stop	0.316	0.278	0.215	0.040	0.050
E14305	Door Jamb	1.125	3.255	1.447	0.364	0.251
E14306	Open-back Intermediate Vertical	1.204	2.937	1.212	0.500	0.438
E14309	90° Corner	1.925	5.405	1.891	5.405	1.891
E14310	Open-back Head - Outside Glaze	0.898	2.126	0.901	0.367	0.316
E14311	Open-back Intermediate Vertical	0.971	2.487	1.026	0.321	0.245
E14312	Shallow Pocket Filler - Inboard	0.594	0.916	0.397	0.045	0.073
E14313	Horizontal - Outside Glaze	1.248	2.483	1.044	0.611	0.540
E14314	Glass Stop - Outside Glaze	0.189	0.005	0.016	0.023	0.036
E14319	135° Corner	1.115	3.069	0.947	1.381	0.535
E14321	Open-back Int. Vertical - Center	0.974	2.333	1.028	0.317	0.239
E14322	Deep Pocket Filler - Center	0.683	0.899	0.415	0.137	0.155
E14329	Head Receptor - Exterior Glaze	0.910	2.014	0.672	0.258	0.163
E14332	Deep Pocket Filler - Inboard	0.660	0.994	0.416	0.134	0.153
E14336	Expansion Vertical	0.878	2.189	0.863	0.208	0.219
E14339	Head Receptor - Interior	0.475	0.136	0.111	0.159	0.124
E14346	Expansion Vertical	0.820	1.959	0.840	0.086	0.107
E14323	Intermediate Horiz. - F/R Plane	1.205	2.199	0.916	0.585	0.541
E14326	Silicone Glazed Vertical - Front	1.258	1.023	0.792	0.662	0.662
E14340	Sill for E14326	1.162	2.985	1.286	0.648	0.627
E14342	Shallow Pocket Filler - Non P&D	0.520	0.820	0.378	0.022	0.061
E14356	Heavy Duty Open-back Vertical	1.715	4.902	2.010	0.625	0.570
E14366	Heavy Duty Tubular Vertical	1.921	5.320	2.322	0.826	0.814

# 14000 Series Flush Glaze - I/O Plane

## 4 1/2" x 4 1/2" Intermediate Vertical

CAD DETAIL FILE NO.  
180VERT16

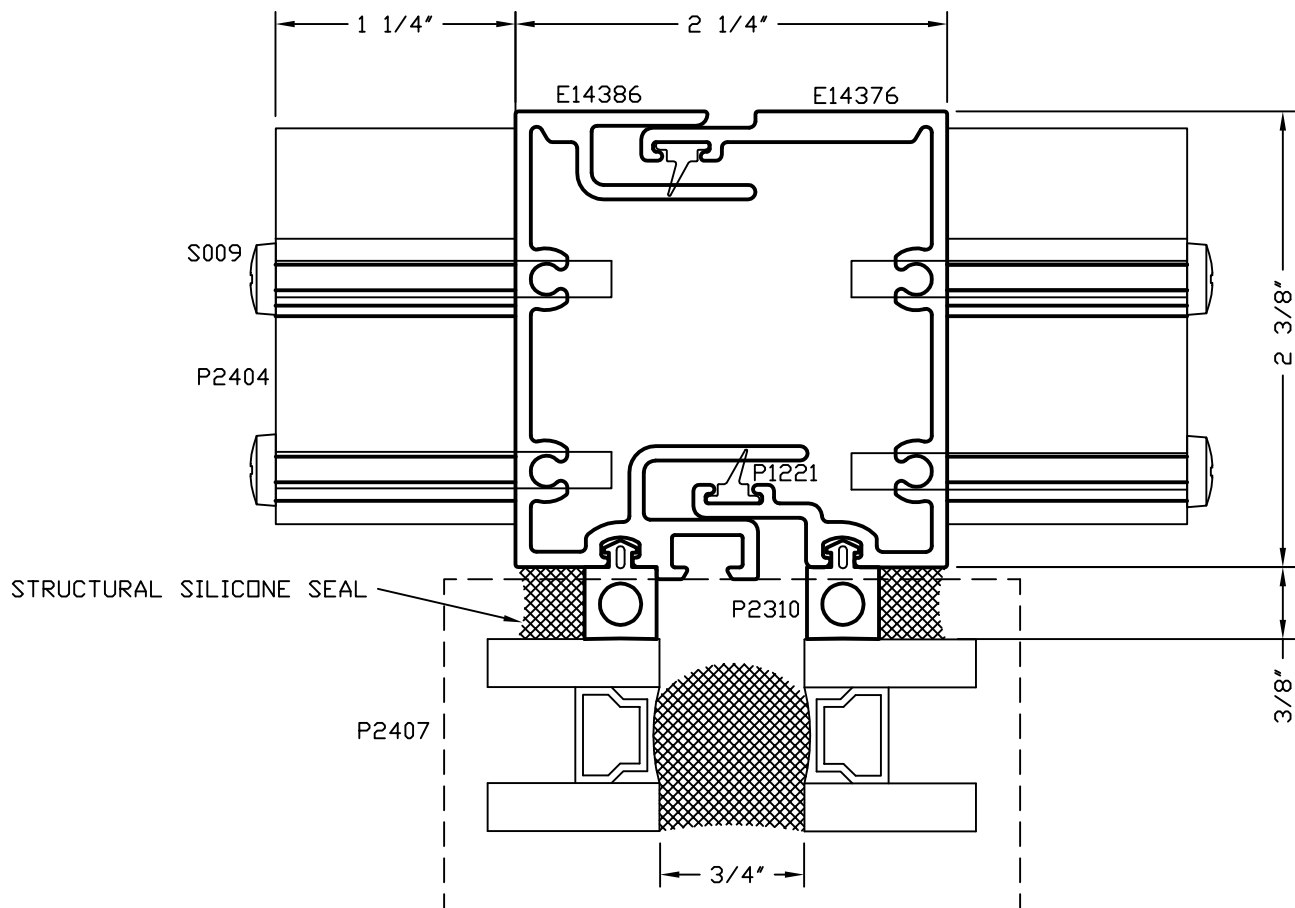




# 14000 Series Flush Glaze - I/O Plane

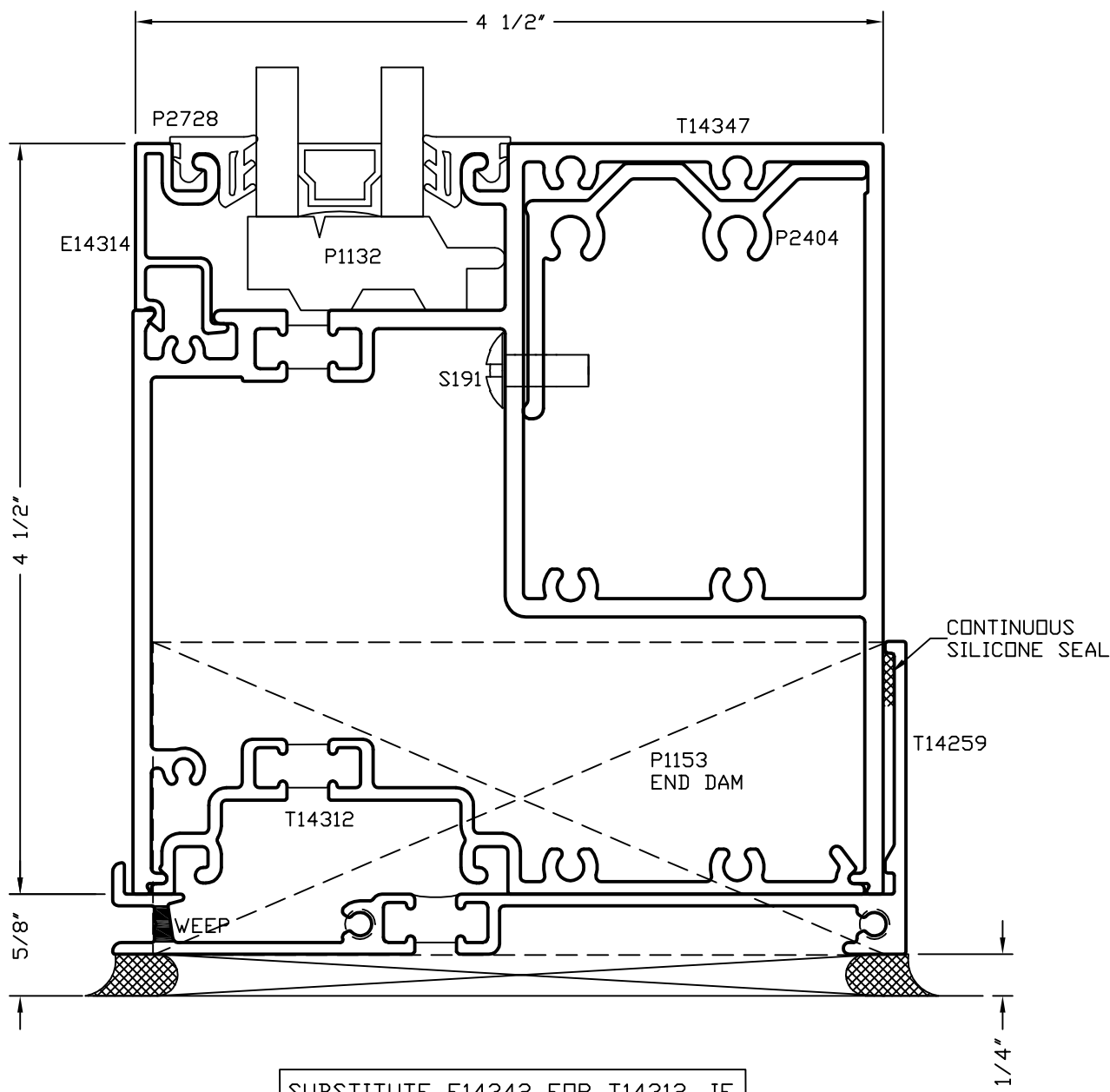
## SSG Expansion Vertical

CAD DETAIL FILE NO.  
180VERT15



14000 Series Flush Glaze - I/O Plane  
4 1/2" Screw Spline Sill - Outboard Plane

CAD DETAIL FILE NO.  
180SILL13

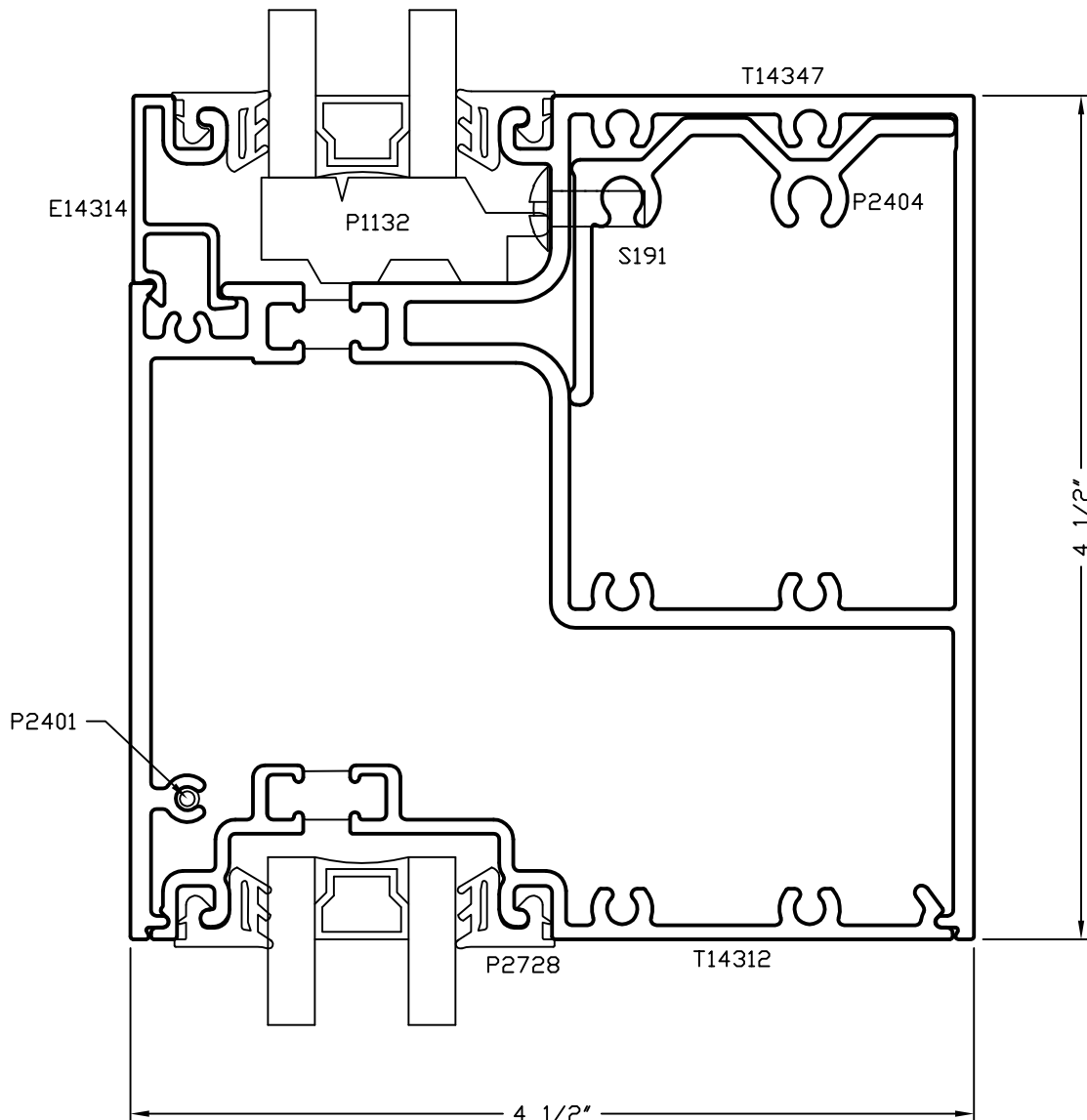


\*SEALANT, ROD, & ANCHORS NOT BY TUBELITE

# 14000 Series Flush Glaze - I/O Plane

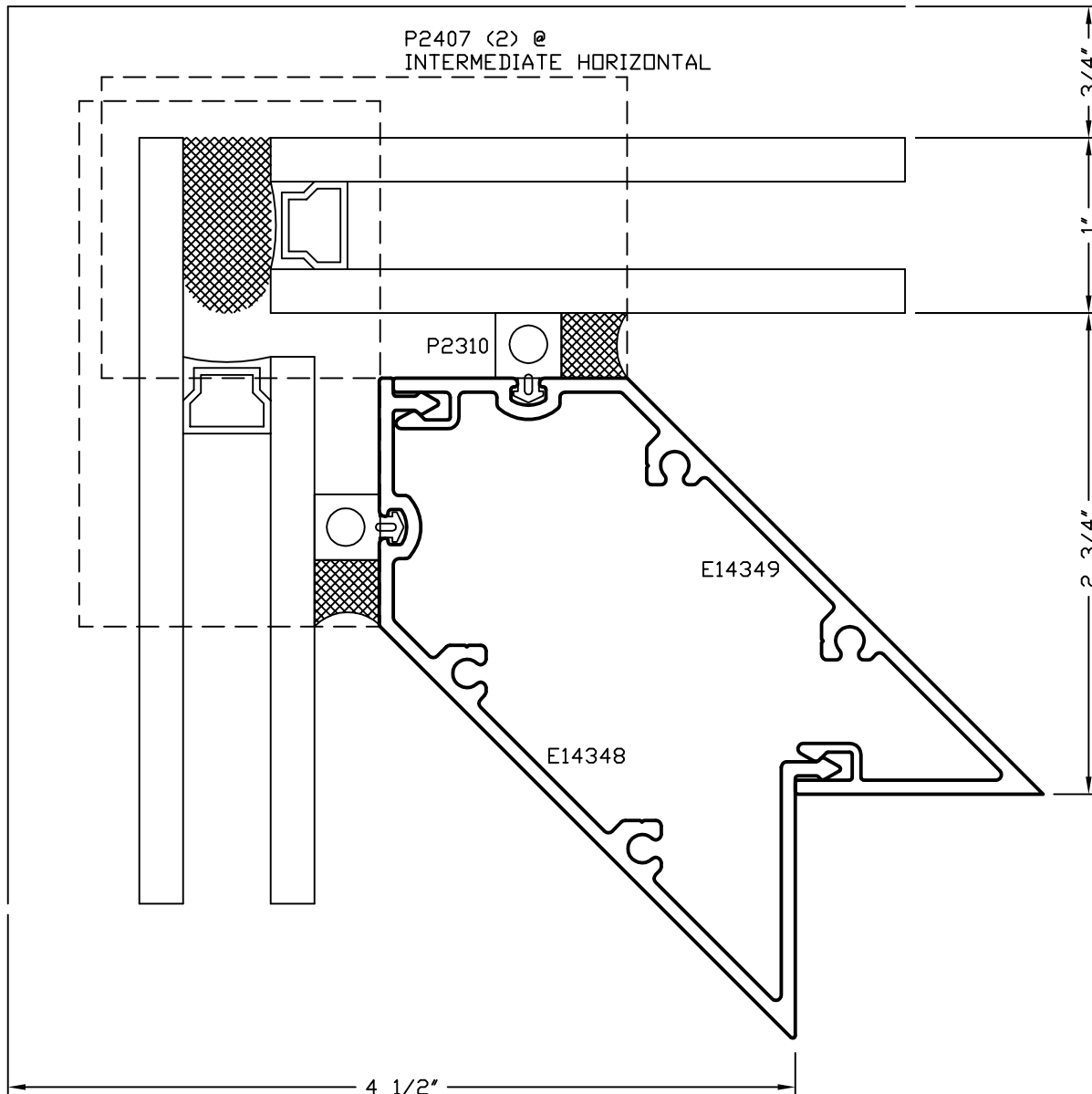
## 4 1/2" x 4 1/2" Shear Block Intermediate Horizontal

CAD DETAIL FILE NO.  
180HORZ16



# 14000 Series Flush Glaze - I/O Plane Corner

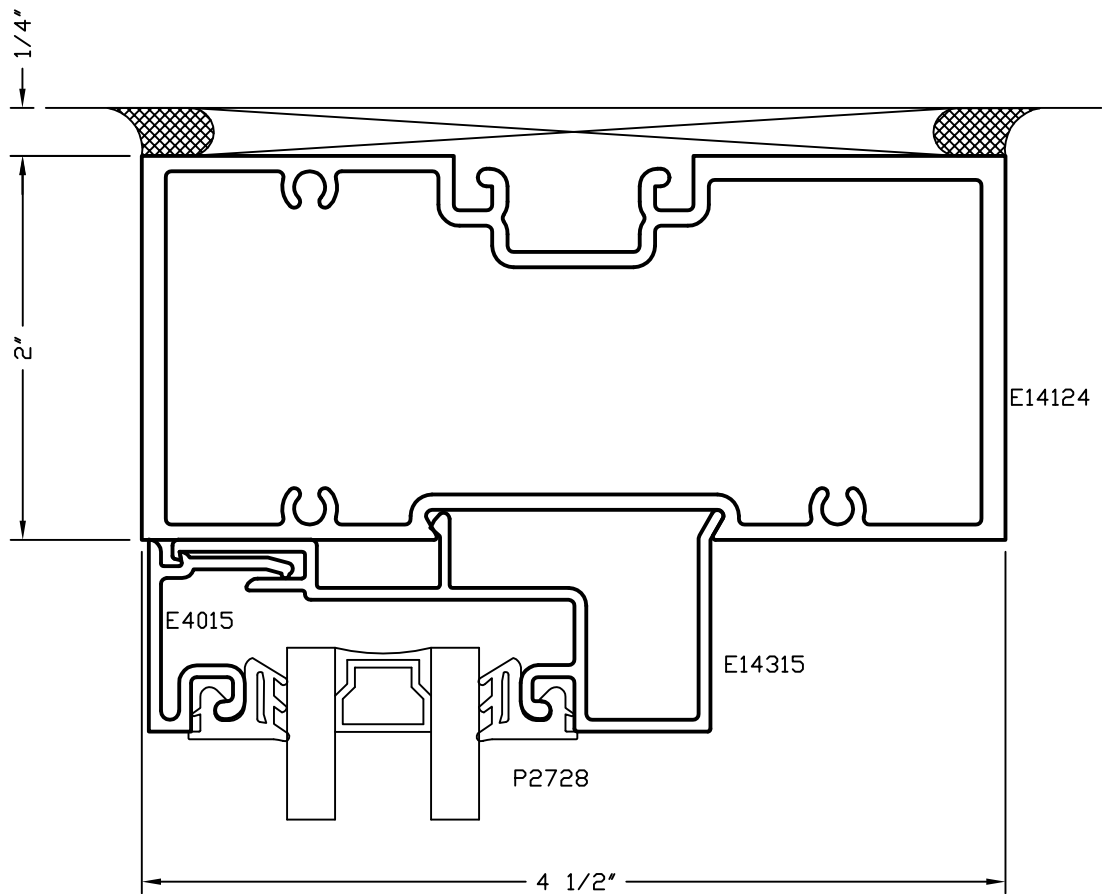
CAD DETAIL FILE NO.  
180CORN9



# 14000 Series Flush Glaze - I/O Plane

## Head

CAD DETAIL FILE NO.  
180HEAD16



# 15.41a

## 14000 Series Flush Glaze - I/O Plane

### Transom Header - Outboard Plane

CAD DETAIL FILE NO.  
180TRAN3

