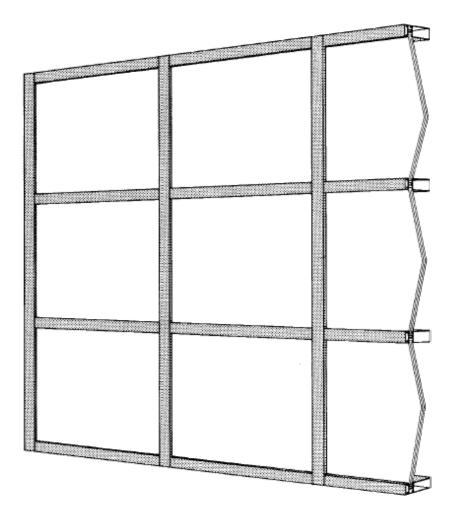


400 Series Curtainwall Job Name: South Shore Plaza Location: Braintree, MA Glazing Contractor: Glass Installations, Inc., Dorchester, MA Architect: Walker Consultants

## 21.01 400 Series Curtainwall Description





## 21.02 400 Series Curtainwall Guide Specifications

## General

### Description

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

Curtainwall framing shall be 400 Series Curtainwall 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 will be submitted upon request.

#### Performance Requirements

Air infiltration shall not exceed 0.06 CFM/Ft<sup>2</sup> when tested in accordance with ASTM E-283 "Rate of Air Leakage Through Exterior Windows" 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 501.1-83 "Standard Test Method for Metal Curtainwalls Using Dynamic Pressure" at a dynamic pressure equivalent of 15 PSF.

There shall be no buckling, stress on glass, edge seal failure, excess stress on curtainwall 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.

There shall be no "Life/Safety" type failures (glass breakage, anchor failures, or structural damage) when tested in accordance with AAMA 501.4, seismic test (lateral cycling.)

Structural performance shall be based on a maximum allowable deflection of L/175 of the span or 3/4" maximum. The system shall perform to this criteria when subjected to a wind load of (architect specify) \_\_\_\_\_ PSF.

— Thermal transmittance due to conduction (U<sub>c</sub>) shall not be greater than 0.66 BTU/Hr/Ft<sup>2</sup>/F<sup>0</sup> when tested in accordance with AAMA 1503.1-98, and the Condensation Resistance Factor of the framing (CRF) shall not be less than 68 when tested in accordance with AAMA 1503.1-98.

The system shall have a Sound Transmission Class (STC) rating of 32 and an Outdoor-Indoor Transmission Class (OITC) rating of 26 when tested in accordance with ASTM E90-97, ASTM E413-87 (reapproved 1994) and ASTM E1332-90.

## Products

### Materials

Extrusions shall be of aluminum alloy 6063-T5 or 6063-T6 (as required), manufactured within commercial tolerances and free from defects impairing strength and/or durability.

Screws, bolts and all other accessories to be compatible with the aluminum under normal service conditions.

Thermal barrier shall be by means of a flexible 55-60 durometer EPDM isolator located at the exterior side of the glass plane preventing continuous contact between exterior and interior metal.

#### Finish

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

Finish to be: (architect select) Etched and clear anodized (AA M12C22A31) Class 2 Clear (OA) (AA M12C22A41) Class 1 Clear (2A) Electrolytically deposited color (AA M12C22A44), Champagne (4K), Light Amber (2K), Amber (1K), Statuary Bronze (3K), Black (OD), or Elucropolymer painted color

Fluoropolymer painted color\_\_\_\_

## Execution

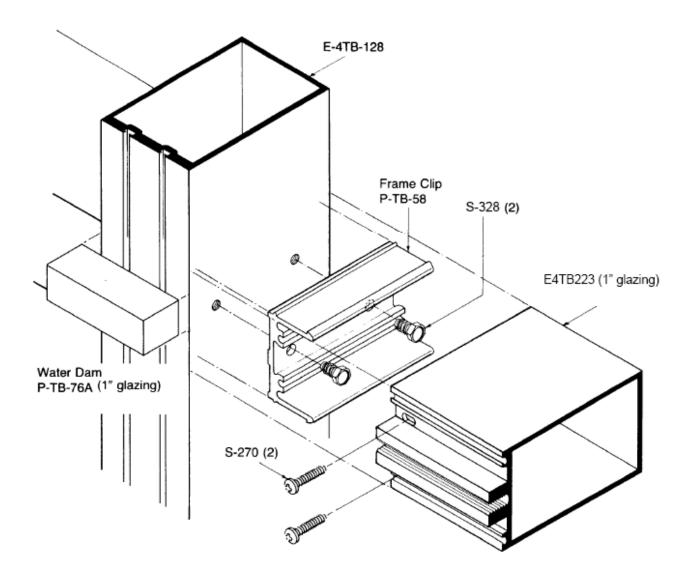
#### Installation

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

specifications are subject to change

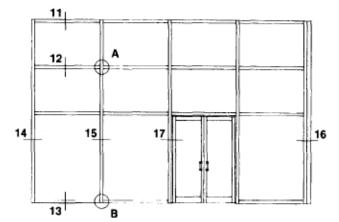


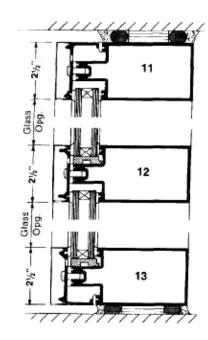
## 21.03 400 Series Curtainwall Silicone Glazed Vertical - Isometric

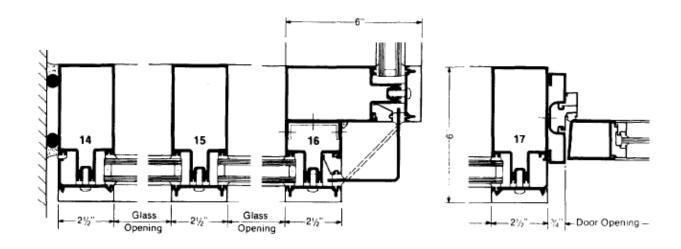


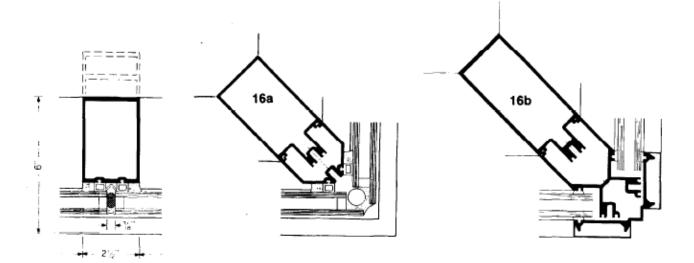






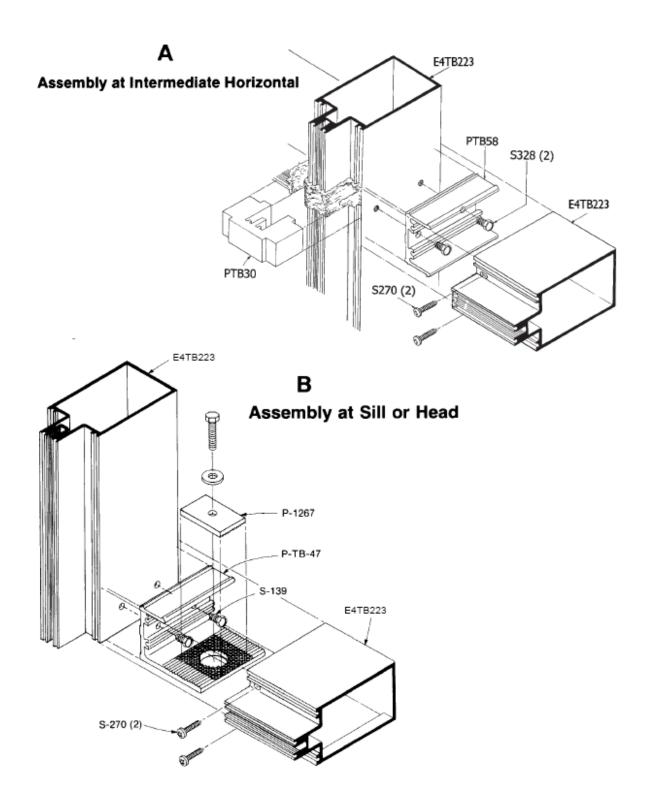






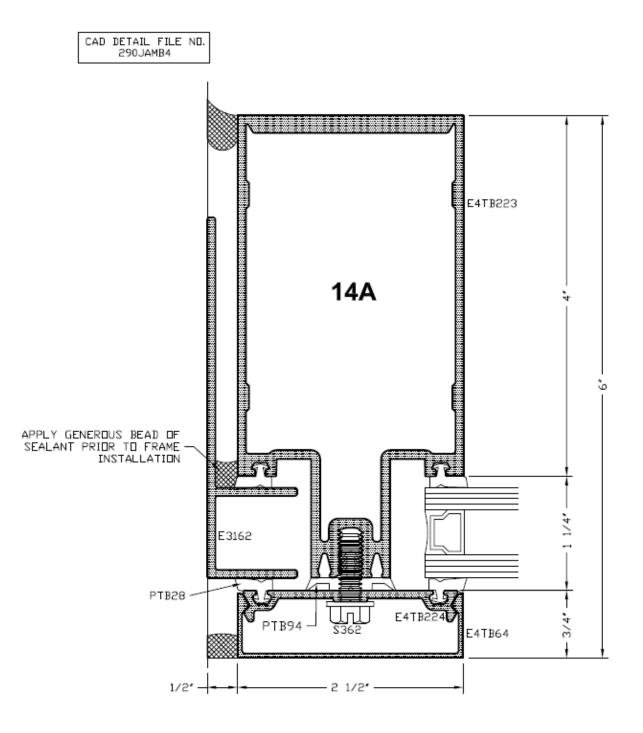
TUBELITE:

## 21.05 400 Series Curtainwall Clip Installation - Isometric



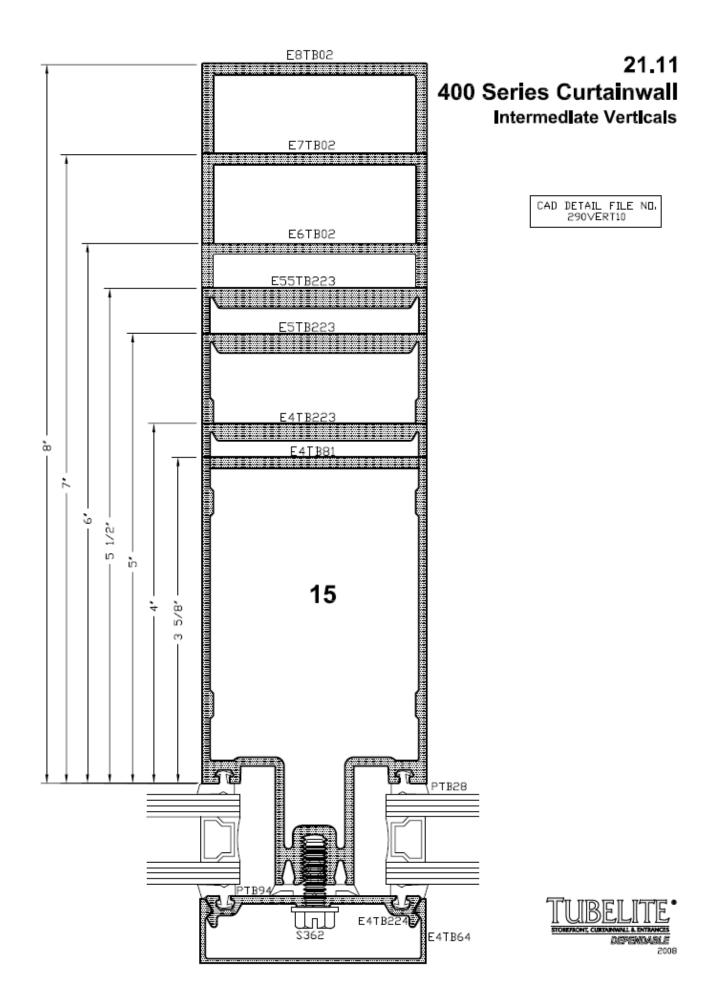


## 21.10 400 Series Curtainwall Tubular Jamb With "F" Jamb Anchor



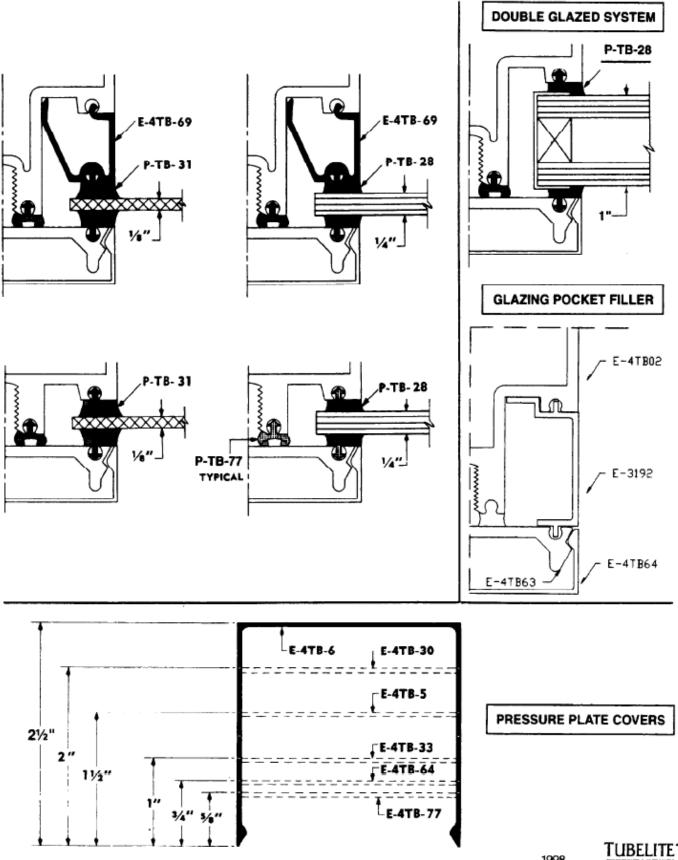


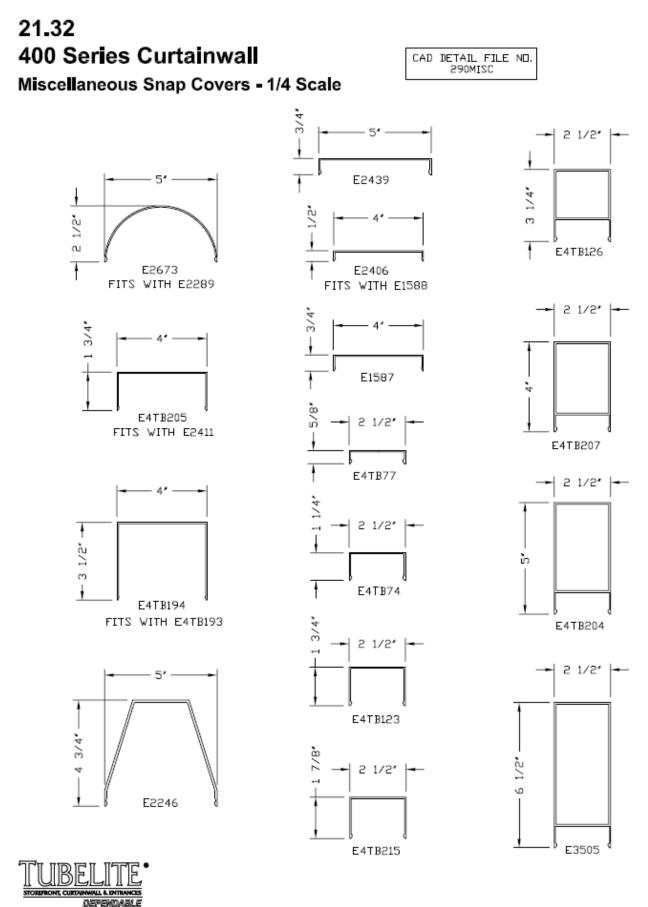
\*SEALANT, RDD, & ANCHORS NOT BY TUBELITE



# 21.23 **400 Series Curtainwall**

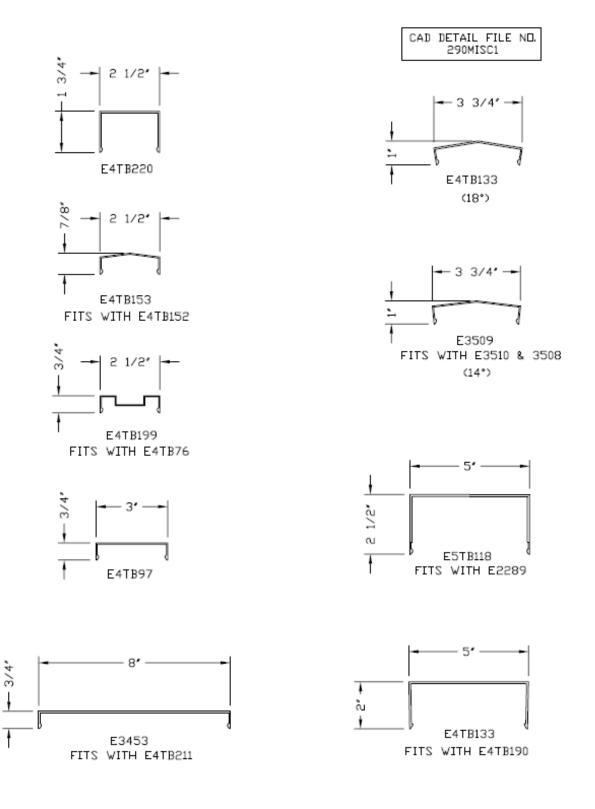
**Glass Pocket Reducers & Pressure Plate Covers** 





# 21.33 400 Series Curtainwall

Miscellaneous Snap Covers - 1/4 Scale





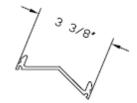
# 21.34 400 Series Curtainwall Miscellaneous Pressure Plates - 1/4 Scale

CAD	DETAIL	FILE	ND.
530WI2C5			

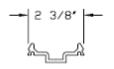


2 7/8

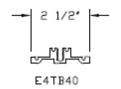
E4TB96

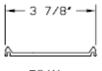


E4TB153 FITS WITH E4TB160

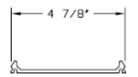


E4TB102









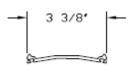
E2289 FITS WITH E2290 & E2288



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E3510 FITS WITH E3508 & E3509

Gr.



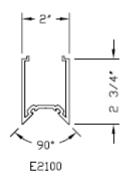
E4TB134

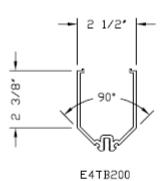


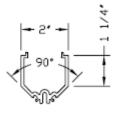
# 21.35 400 Series Curtainwall

Miscellaneous Adapters - 1/4 Scale

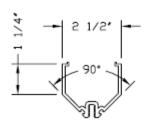








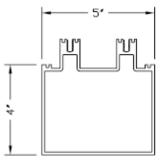
E2101



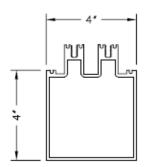
E4TB172



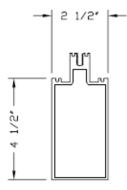
## 21.36 400 Series Curtainwall Miscellaneous Backmembers - 1/4 Scale



E2288 FITS WITH E2289



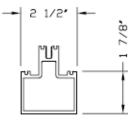
E4TB179 FITS WITH E2411, E1587, & E2406



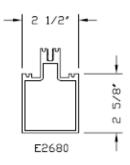
E45TB02 FITS WITH E2289

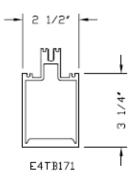




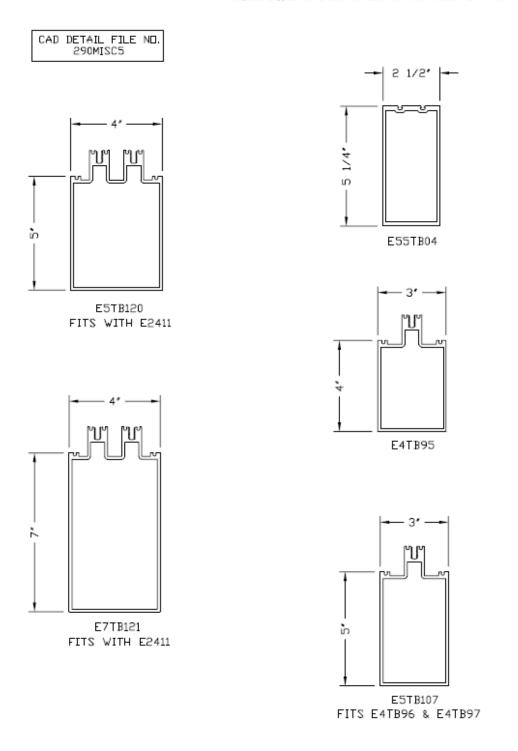






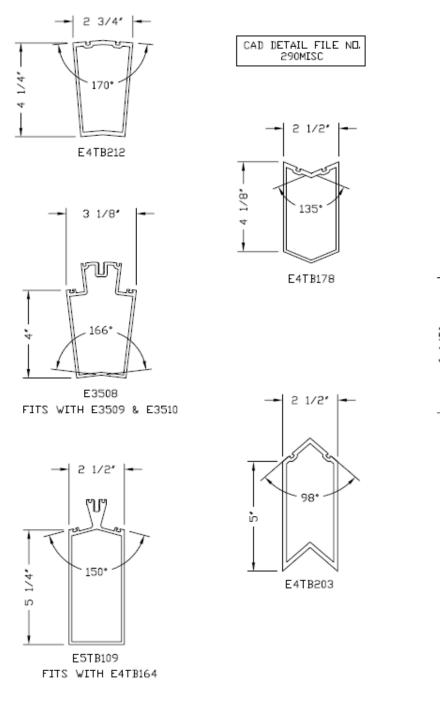


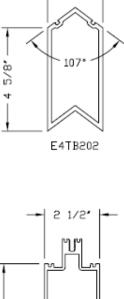
# 21.37 400 Series Curtainwall Miscellaneous Backmembers - 1/4 Scale





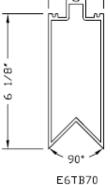
# 21.38 400 Series Curtainwall Miscellaneous Backmembers - 1/4 Scale

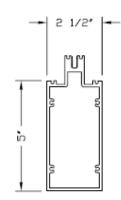




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E5TB91

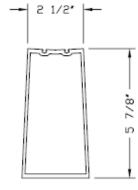








3/4'-





- 3 3/4" --

165°

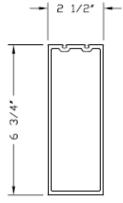
E5TB124

J

IJ

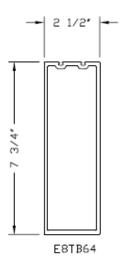
3/4

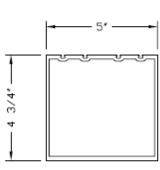
4



E3507







E4TB203

