23.01
400 I.G. Series Curtainwall
Description

Description

Tubelite 400 Series Curtainwall Framing for low and medium rise applications has been redesigned for installation labor savings and design flexibility.

Offset glass pockets and removable glass stops on the new 400 Series allow glazing or re-glazing from both the exterior and interior of the building. Broken lites can be replaced without removing the vertical pressure plates or snap covers. The new roll-over horizontal member permits erection of all the verticals first, to reduce installation time and cost. Open back head and jamb members provide economical alternatives to the previous hollow tube perimeters.

400 Series has a screw applied pressure plate to secure glazing materials. A variable depth snap cover conceals fasteners and allows shallow or deep reveals from the 2 1/2" face to the glass plane. Different finishes can also be used on interior and exterior curtainwall surfaces. Tubelite standard and custom doors are easily incorporated into the wall system using narrow sub-frames.

23.02
400 I.G. 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 *IG* 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^2 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 infiltration when tested in accordance with AAMA 501.1-83 "Standard Test Method for Metal Curtainwalls Using Dynamic Pressure" at a dynamic pressure equivalent of 12 PSF.

Structural performance shall be based on a maximum allowable deflection of L/175 of the span or L/240+1/4" maximum. The system shall perform to this criteria when subjected to a wind load of (architect specify) _____ PSF.

Thermal transmittance due to conduction (U_c) shall not be greater than .54 BTU/Hr/Ft^2/F^0 and the Condensation Resistance Factor of the framing (CRF_f) shall not be less than 63 when tested in accordance with AAMA 1503.1-88.

Products

Materials

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

Framing shall be shop fabricated. Final assembly shall be done at the jobsite in accordance with the manufacturer's installation instructions and approved shop drawings.

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

Optional: System shall allow for glazing and reglazing of vision lites from the interior of the building and the setting of spandrel lites from the interior.

Thermal barrier shall be by means of a flexible 55 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 1 Clear (OA)
(AA M12C22A41)
Class 2 Clear (2A)

Electrolytically deposited color
(AA M12C22A44),
Champagne (4K),
Light Amber (2K),
Amber (1K),
Statuary Bronze (3K),
Black (OD), or

Fluoropolymer painted color_____.

Execution

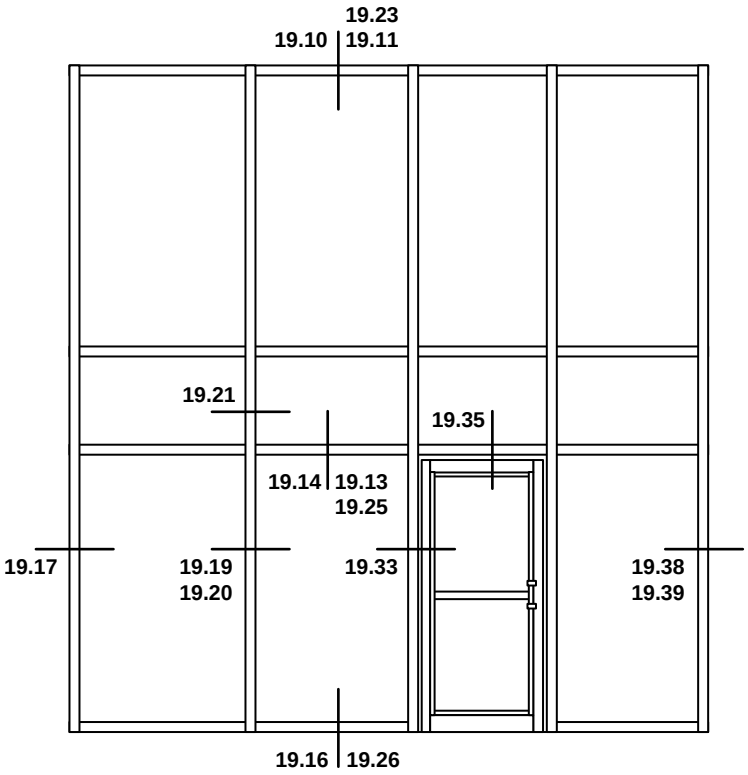
Installation

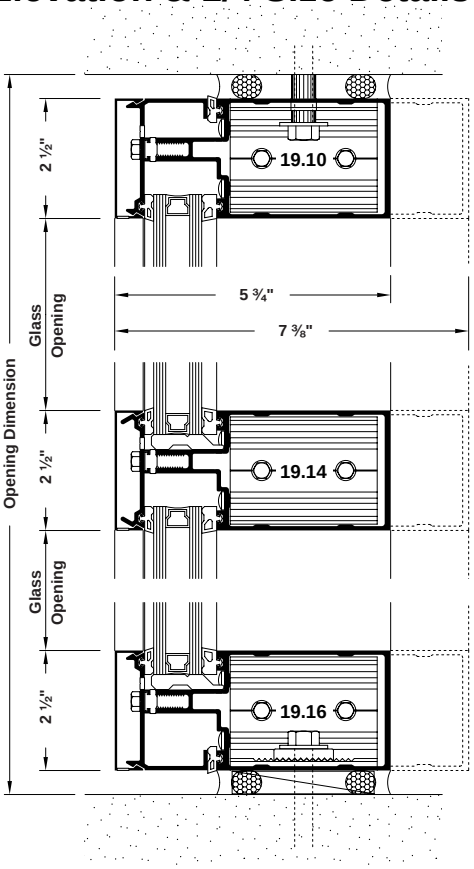
Shall be in accordance with the manufacturer's installation instructions and the approved shop drawings.

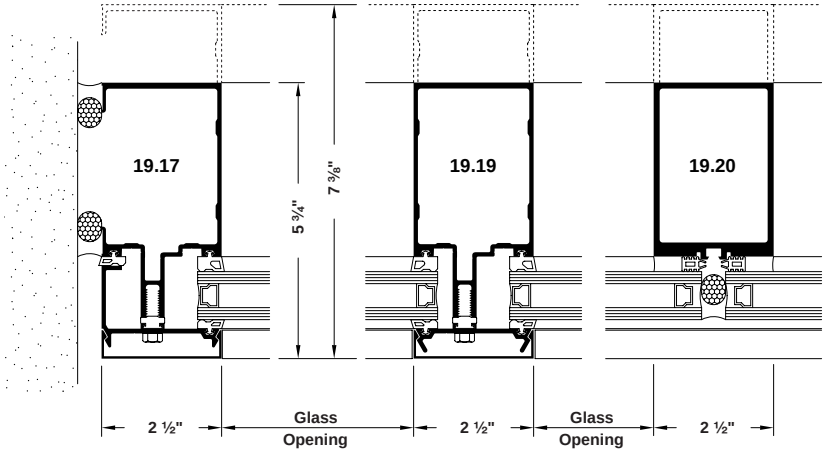
NOTE:

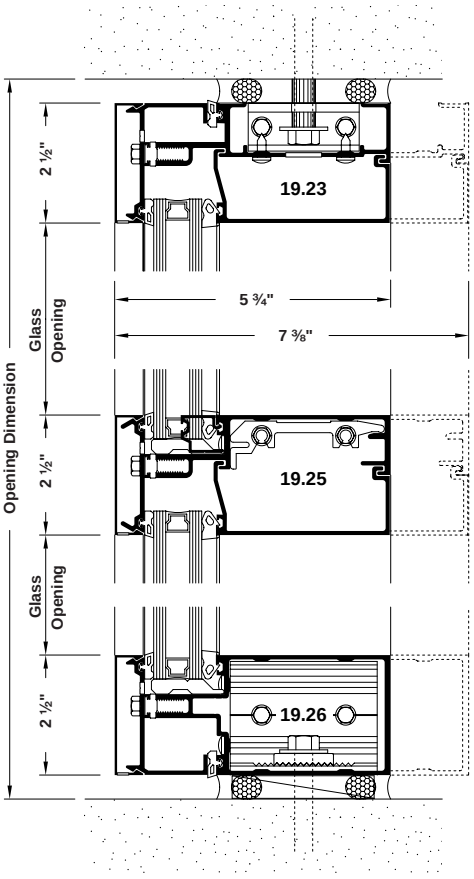
In keeping with Tubelite's policy of continuing product improvements, all specifications are subject to change without written notice by the manufacturer.

23.03
400 I.G. Series Curtainwall
Key Elevation & 1/4 Size Details



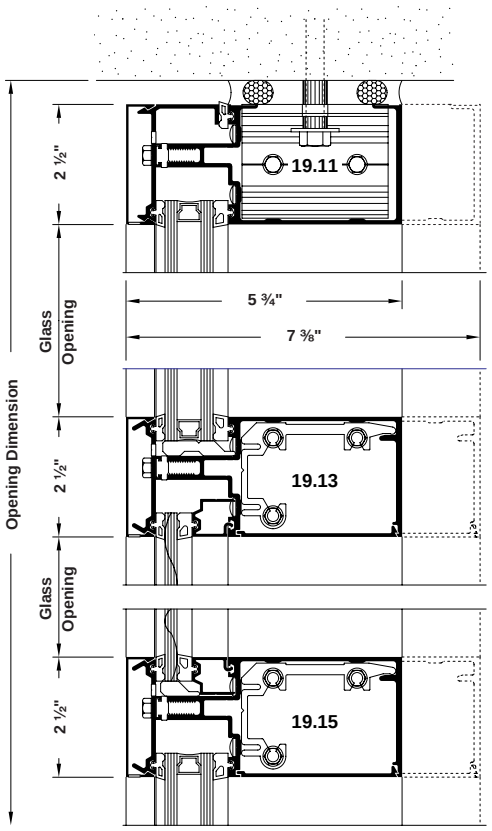


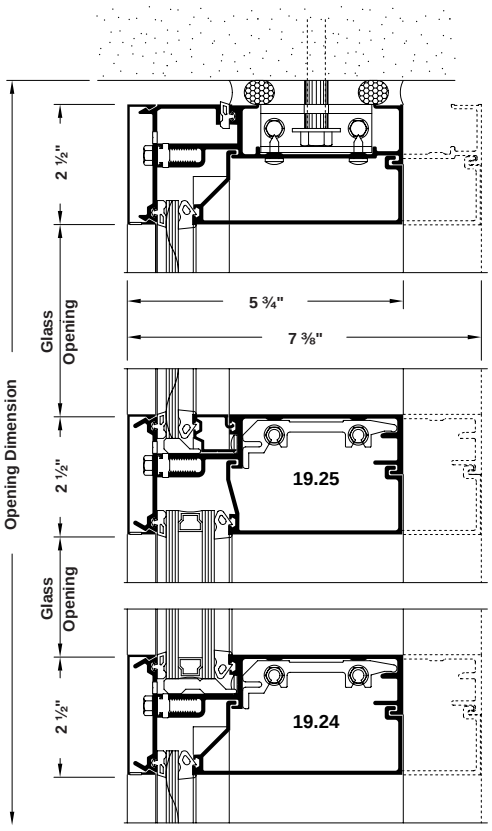


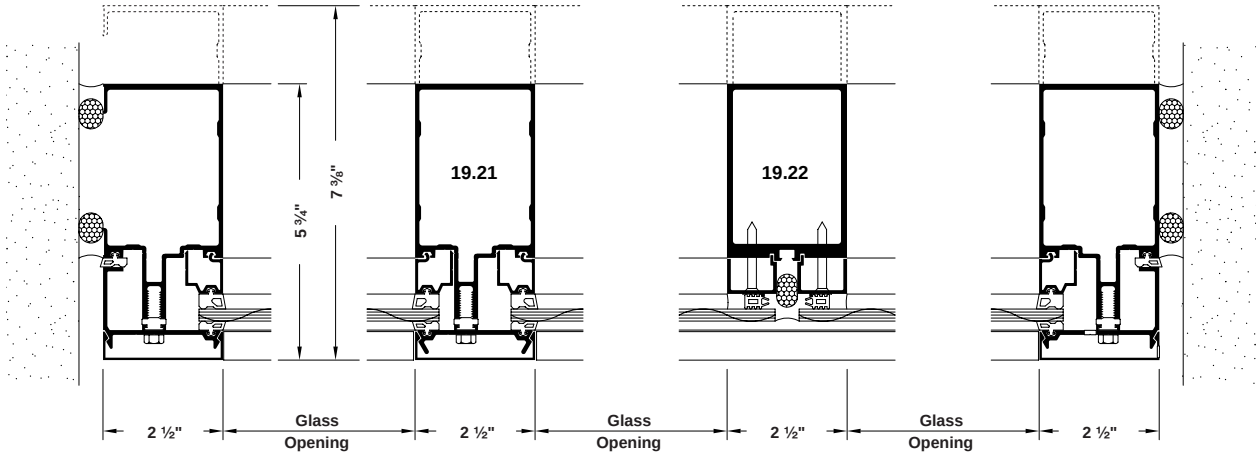


TUBELITE®
STOREFRONTS & ENTRANCES

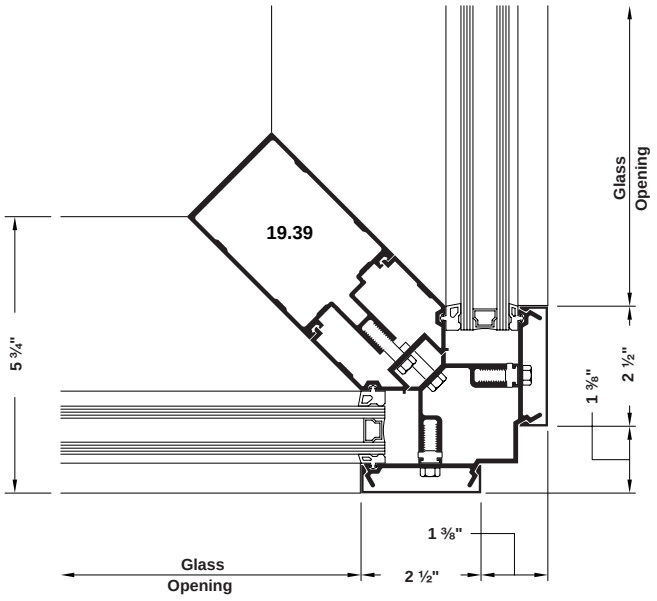
23.04
400 I.G. Series Curtainwall
1/4 Size Details

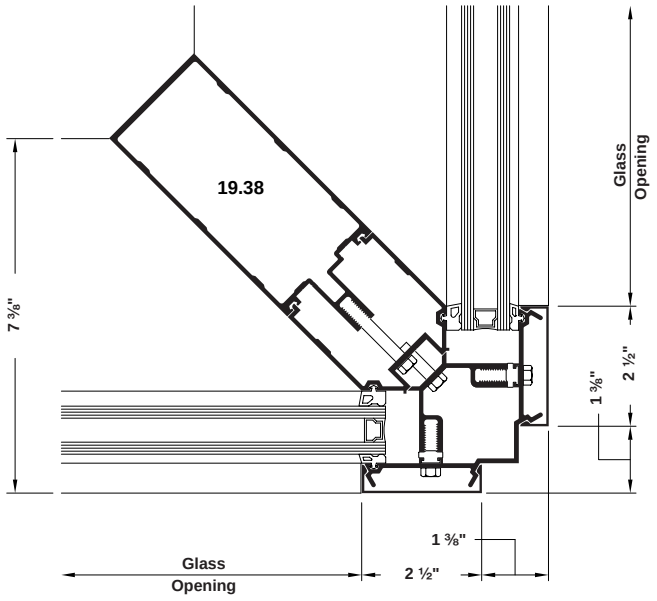


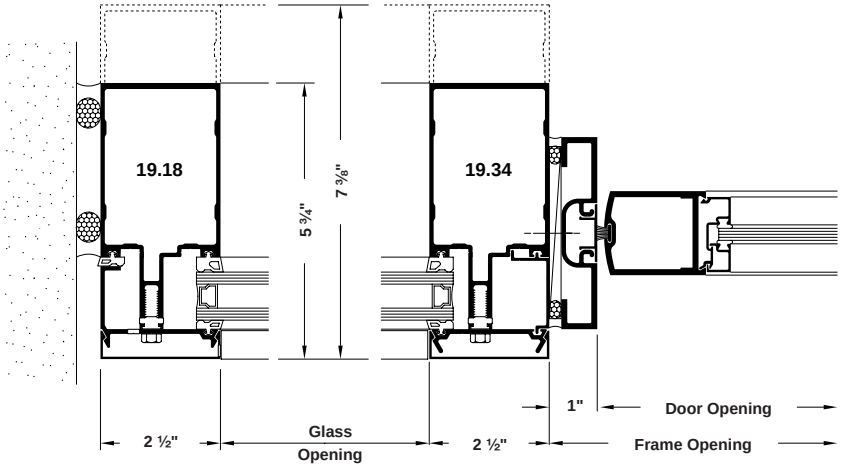


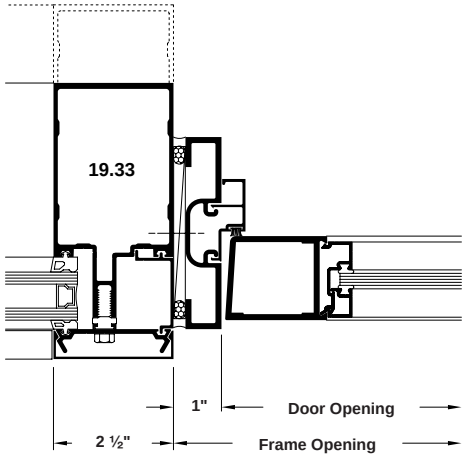


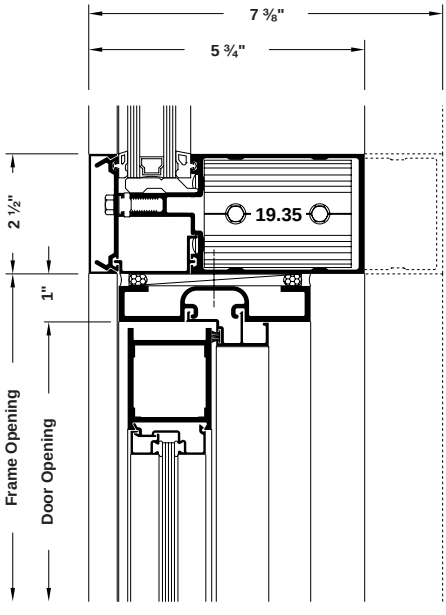
23.05
400 I.G. Series Curtainwall
1/4 Size Details

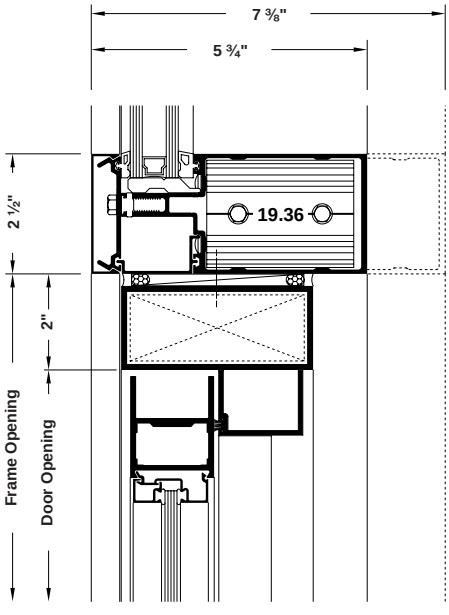


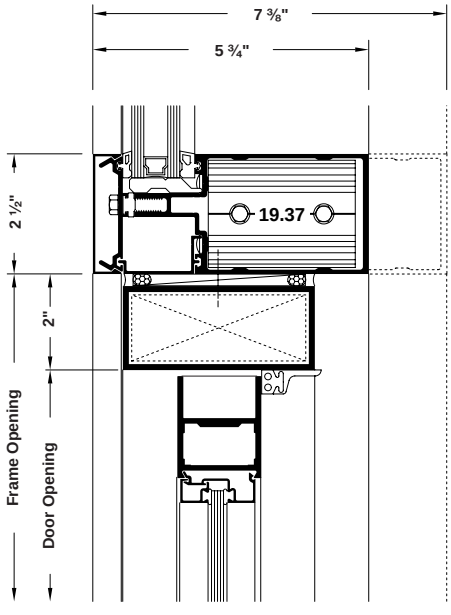




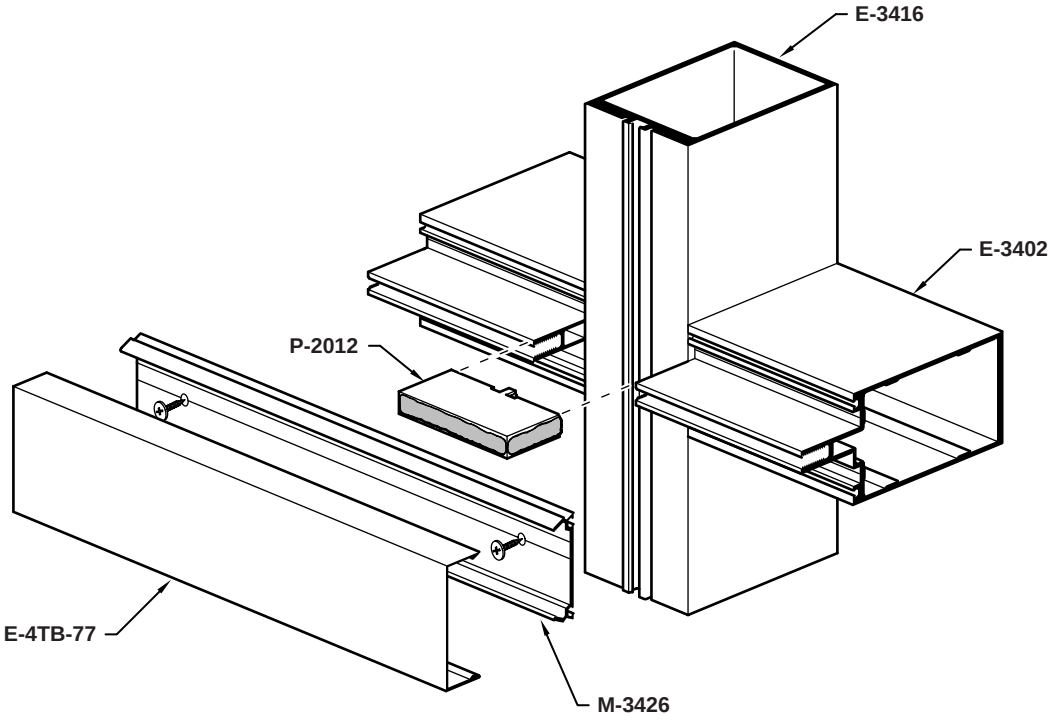








23.06
400 I.G. Series Curtainwall
Isometric Detail



23.07
400 I.G. Series Curtainwall
Isometric Detail