

SPECIFICATIONS**GENERAL-**

Aluminum framing shall be Marlin System (45 or 45T thermally improved - Architect to specify) as manufactured by Marlin windows.

MATERIALS-

All framing shall be aluminum extrusions of 6063-T5 alloy & temper. System 45T shall have a rigid polyurethane "thermal-barrier" as an integral contact between the interior and exterior aluminum sections including the door framing members utilizing a "thermal-break" door stop. Glazing gaskets shall be extruded E.P.D.M.

FINISH-

Standard architectural Class II anodic color conforming to Aluminum Association AA-M12-C22-A34 for dark bronze or AA-M12-C22-A31 for clear anodize. (Architectural Class I and Class II anodic finishes and organic coatings available - specify).

CONSTRUCTION-

Aluminum framing shall have a 2" face width and a depth of 4 1/2" and provide for flush glazing without projecting stops. The system shall use a continuous sub sill. Optional thermally improved concealed project-out vent (Architect specify). Additional sight line shall not exceed 1 3/8". (Consult factory for hardware and screen options.) **Maximum vent size 60" x 36"**.

PERFORMANCE-

System shall be tested in accordance with AAMA 501 and meet the requirements of ASTM E 283 for air infiltration, and ASTM E 331 for water penetration, and ASTM E 330 for structural performance. Deflection of mullions shall be limited to L/175 when subjected to the project design pressure of _____ P.S.F. (Architect to specify).

GLAZING-

Marlin system 45/45T shall accommodate 1" glazing as required. Provisions for 1/4" glazing shall be accommodated by use of an adapter.

INSTALLATION-

Glass and framing shall be installed straight, plumb, and level without twisting and securely anchored in place. All joints between framing and the building exterior shall be sealed to provide a watertight installation.

PROTECTION AND CLEANING-

The General Contractor shall provide adequate protection of the aluminum and glass surfaces from damage by grinding compound, lime, acids, cement or other contaminants. The General Contractor shall be responsible for final cleaning.

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CONSTRUCTION-

Aluminum framing shall have a 2" face width and a depth of 6" and provide for flush glazing without projecting stops. The system shall use a continuous sub sill. Optional thermally improved concealed project-out vent (Architect specify). Additional sight line shall not exceed 1 3/8". (Consult factory for hardware and screen options.) **Maximum vent size 60" x 36"**.

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GLAZING-

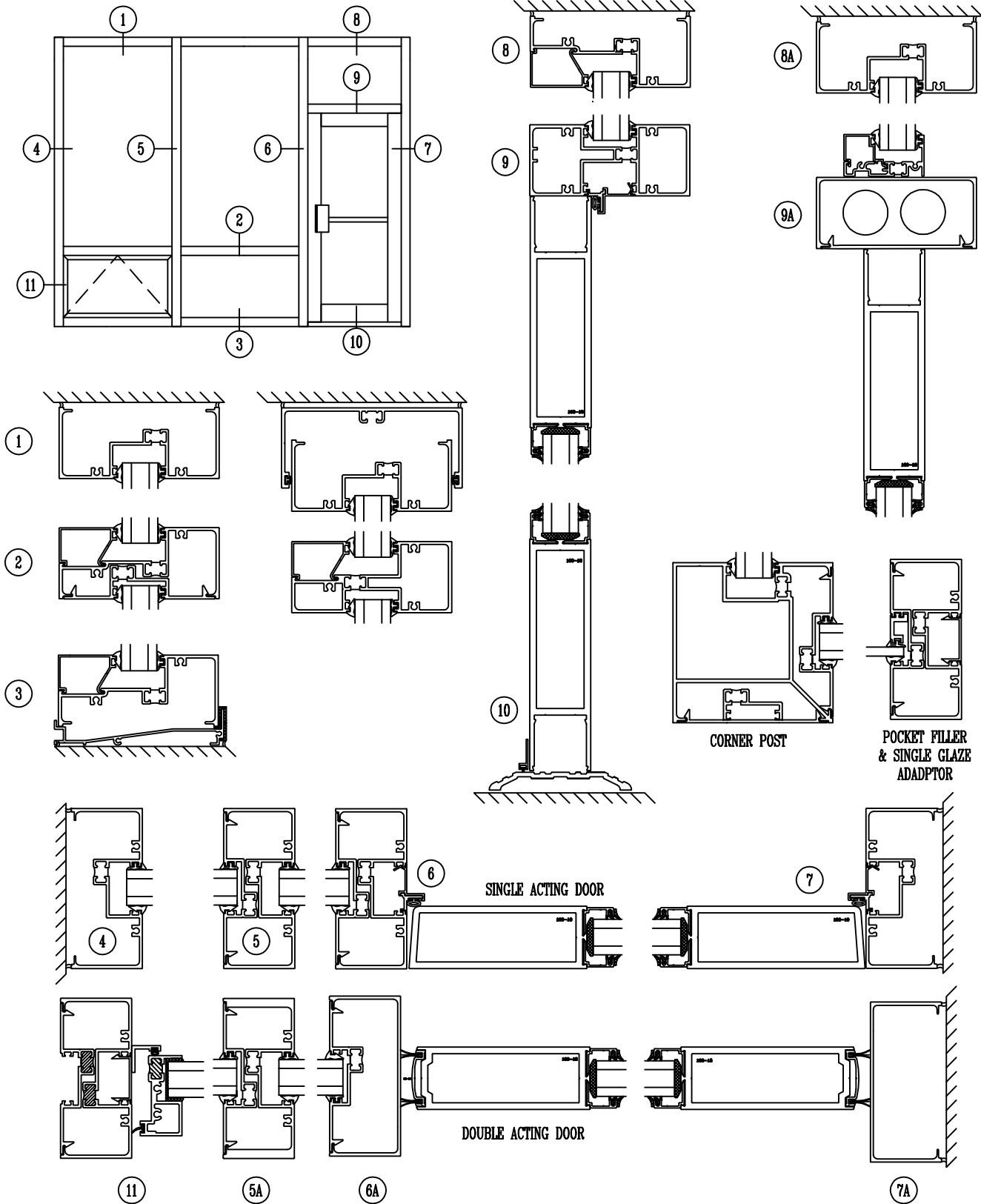
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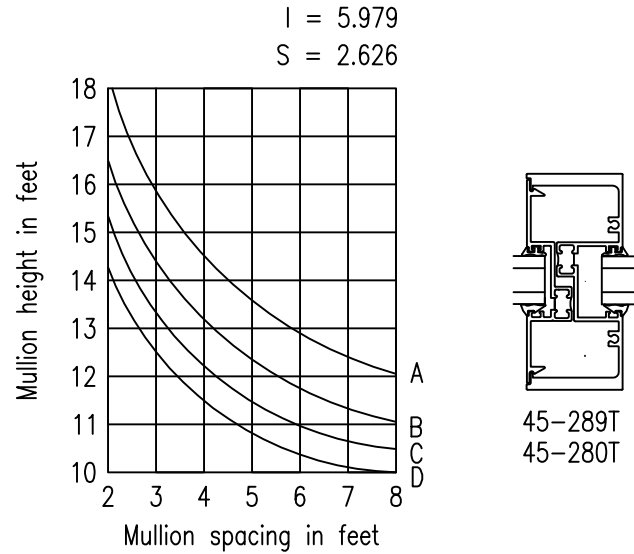
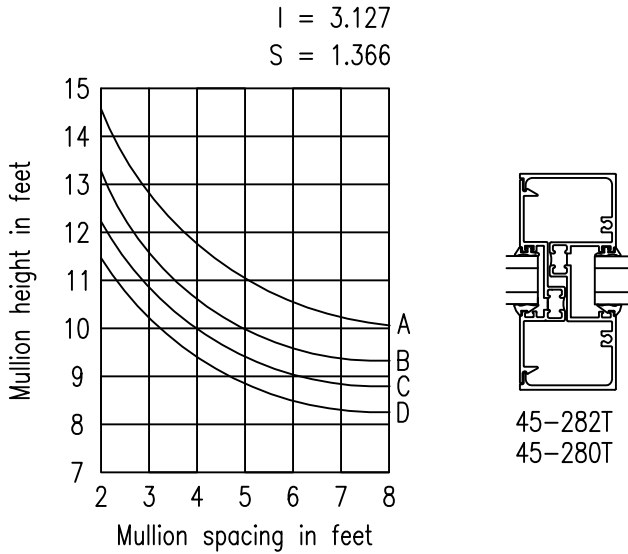
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WIND LOAD CHARTS

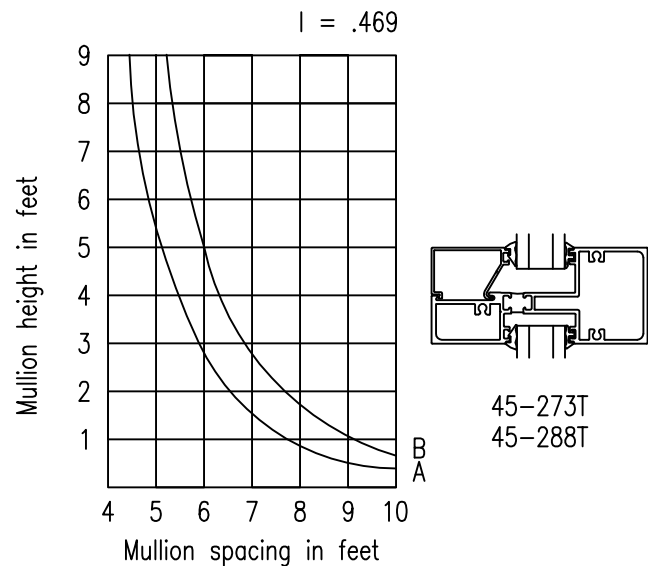
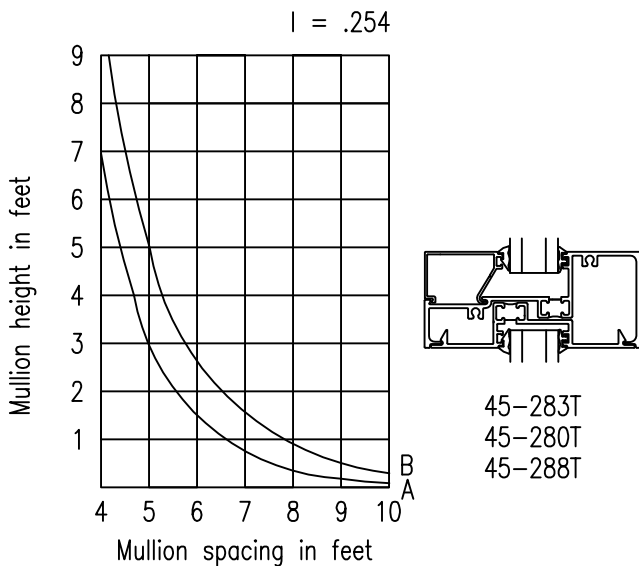
DEFLECTION LIMITED TO L/175

- A = 15 PSF
- B = 20 PSF
- C = 25 PSF
- D = 30 PSF



DEAD LOAD CHARTS

- 1/4 POINT LOADING (A)
- 1/8 POINT LOADING (B)

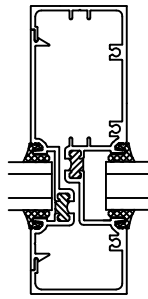
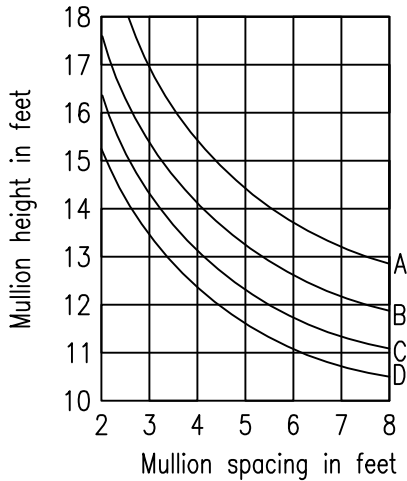


WIND LOAD CHARTS

DEFLECTION LIMITED TO L/175

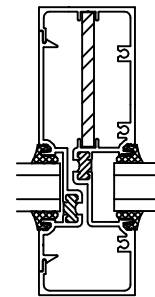
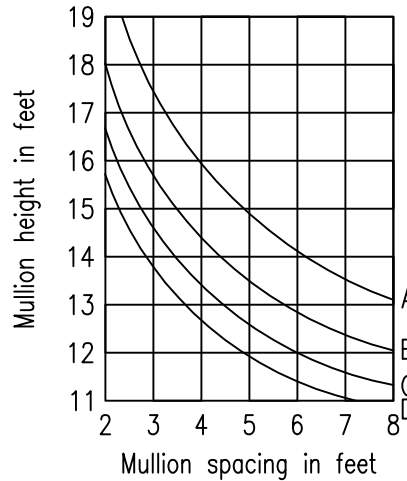
- A = 15 PSF
- B = 20 PSF
- C = 25 PSF
- D = 30 PSF

I = 7.243
S = 1.977



45-682T
45-680T

w/ 1/4" STEEL (1.257)
I = 8.498

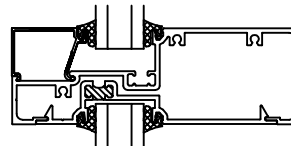
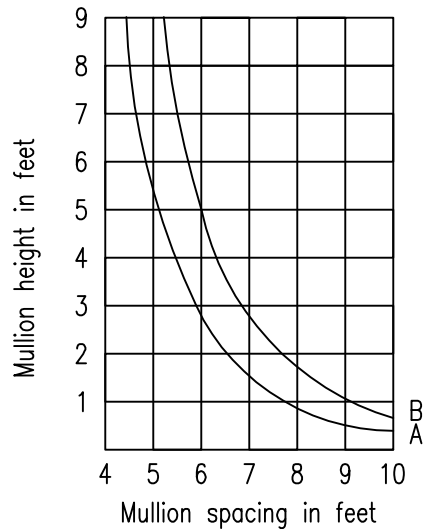


45-682T
45-680T

DEAD LOAD CHARTS

- 1/4 POINT LOADING (A)
- 1/8 POINT LOADING (B)

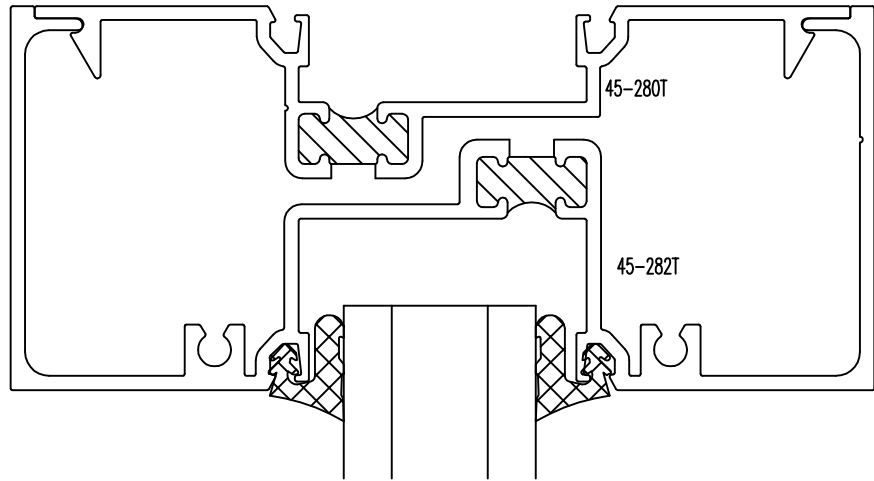
I = .441



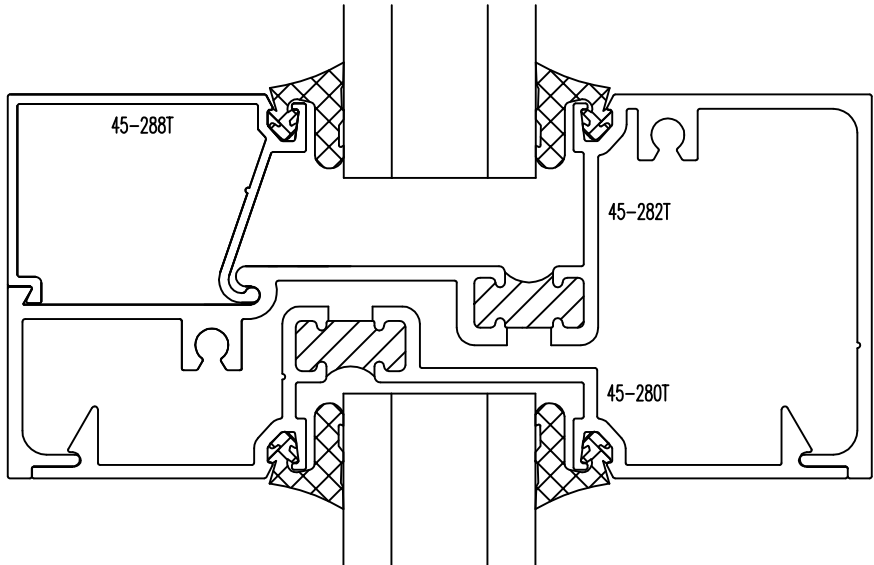
45-683T
45-288T

FULL SCALE

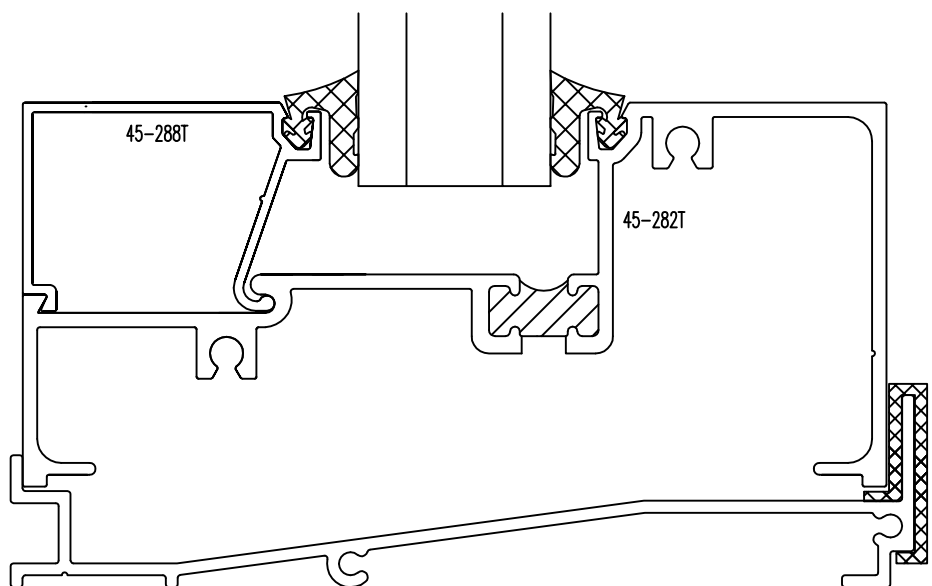
① HEAD

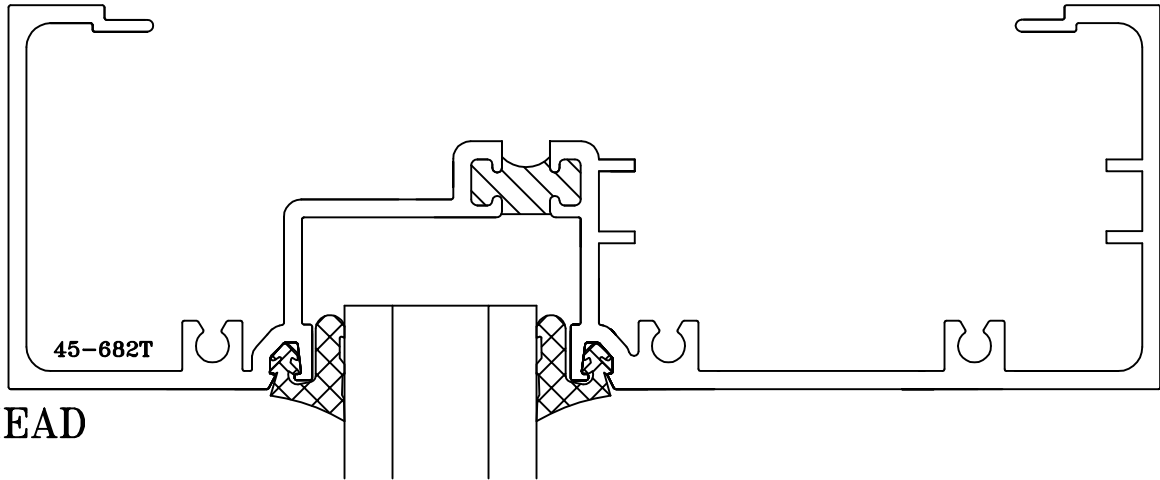


② HORIZONTAL

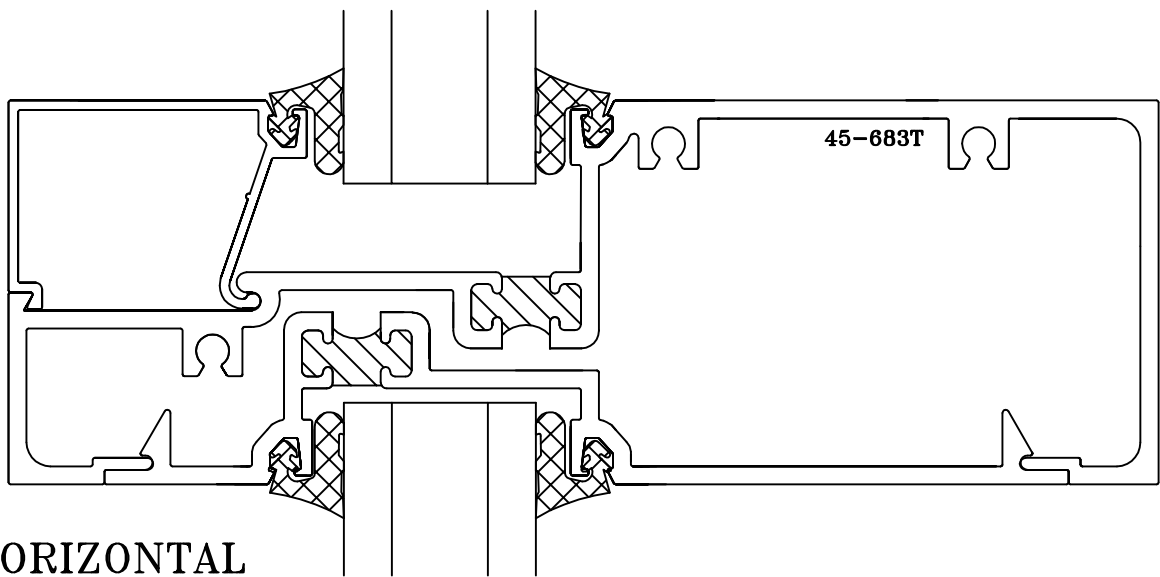


③ SILL

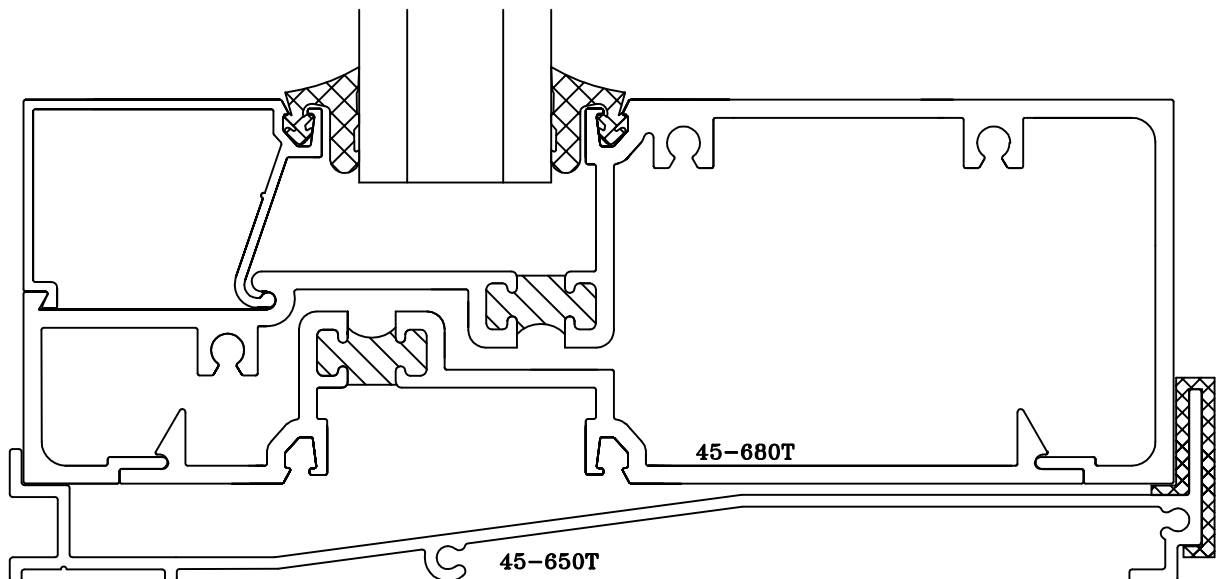




1A HEAD



2A HORIZONTAL

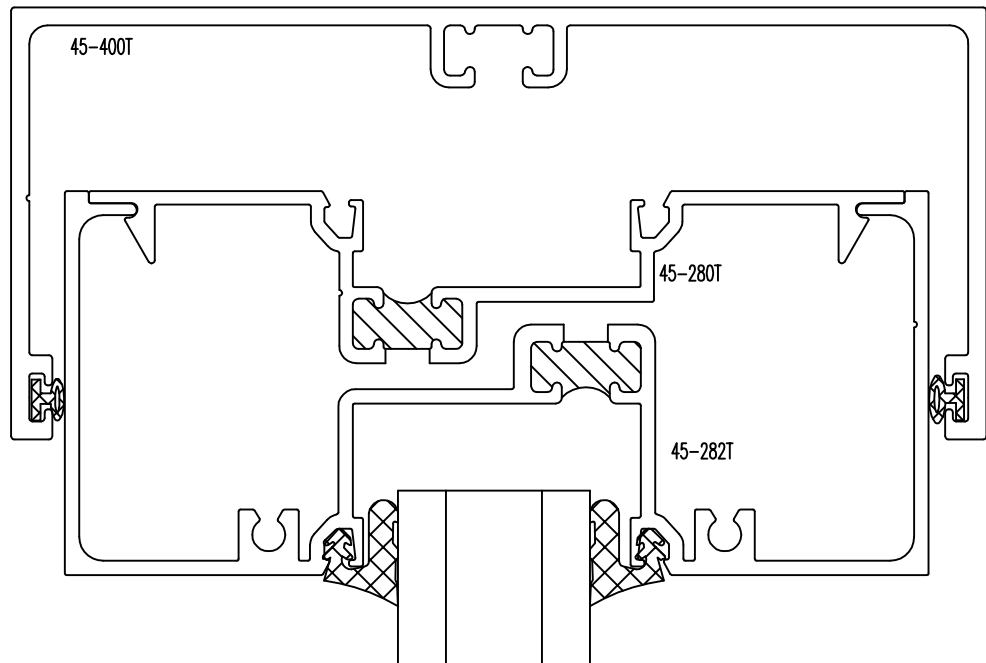


3A SILL

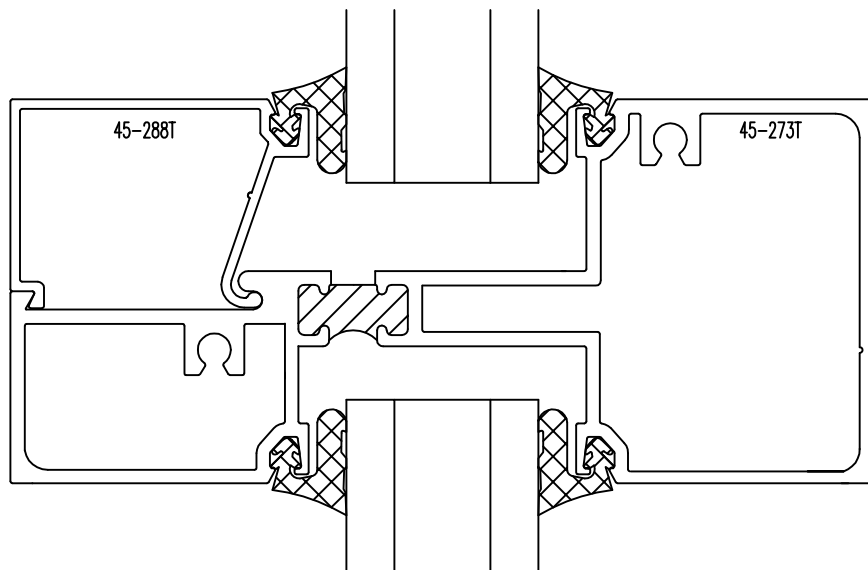
FULL SCALE

COMPENSATING CHANNEL

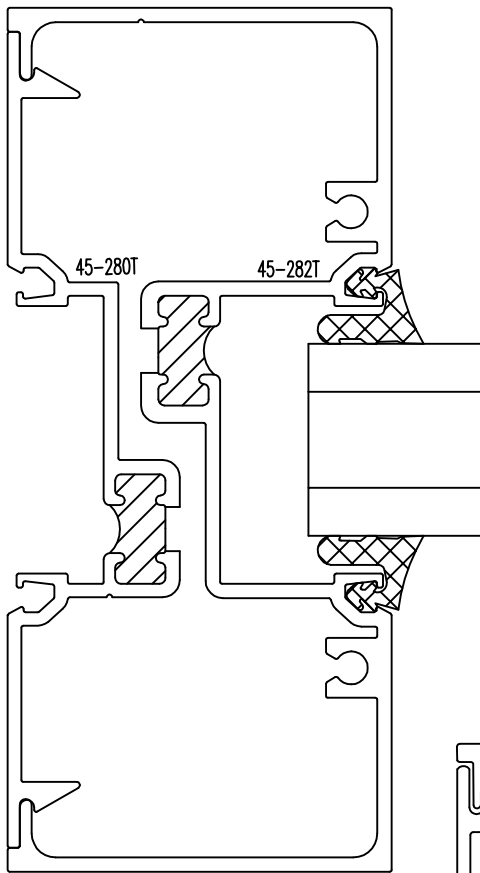
1A HEAD



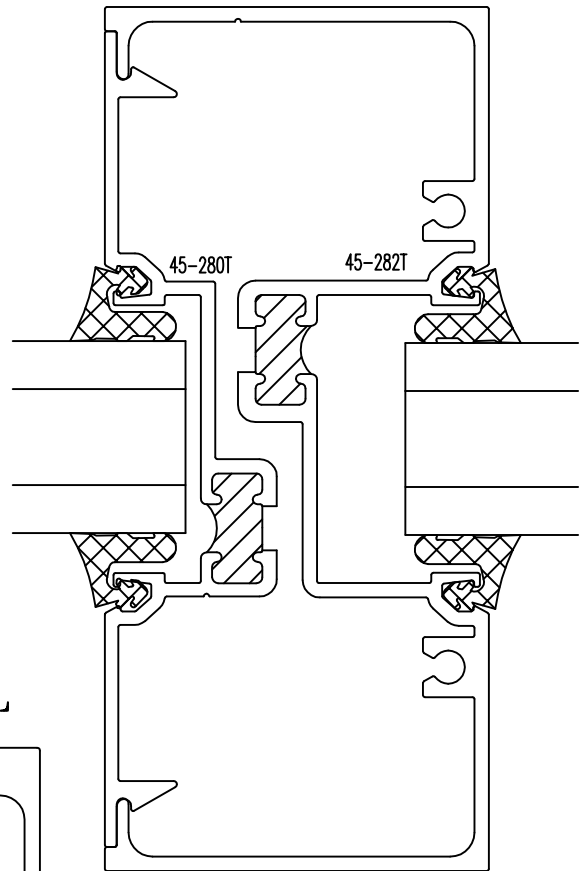
2A HORIZONTAL



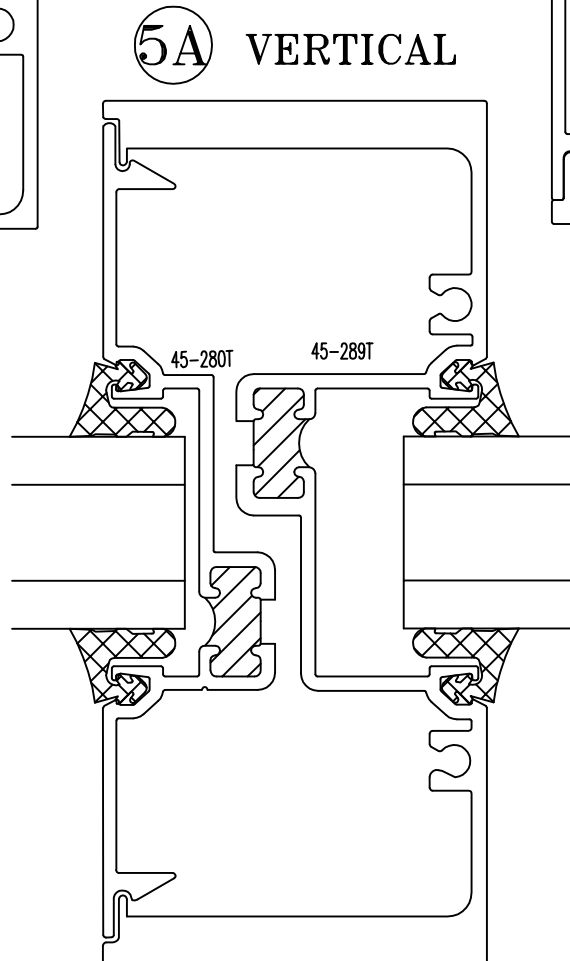
FULL SCALE



④ JAMB

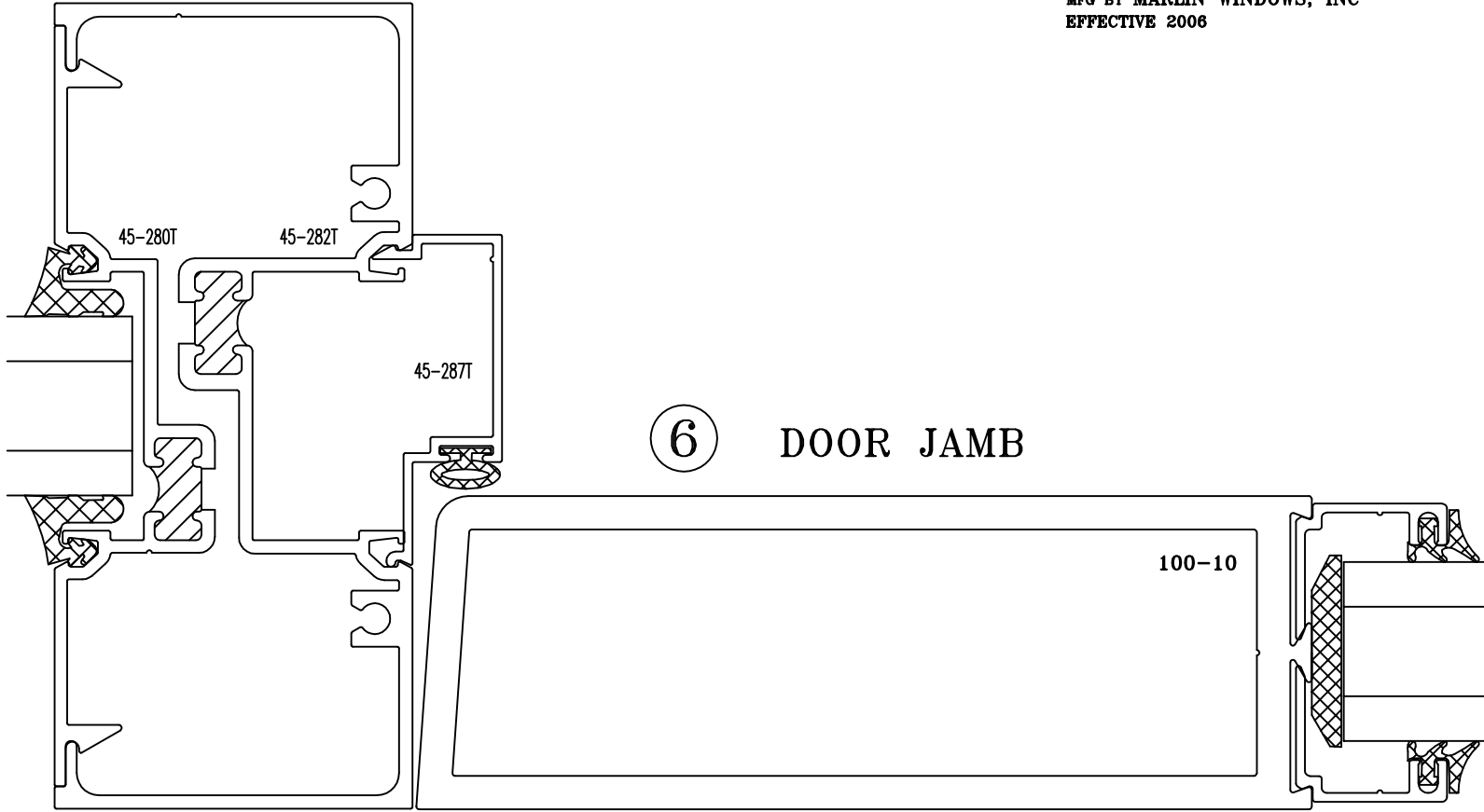


⑤ VERTICAL

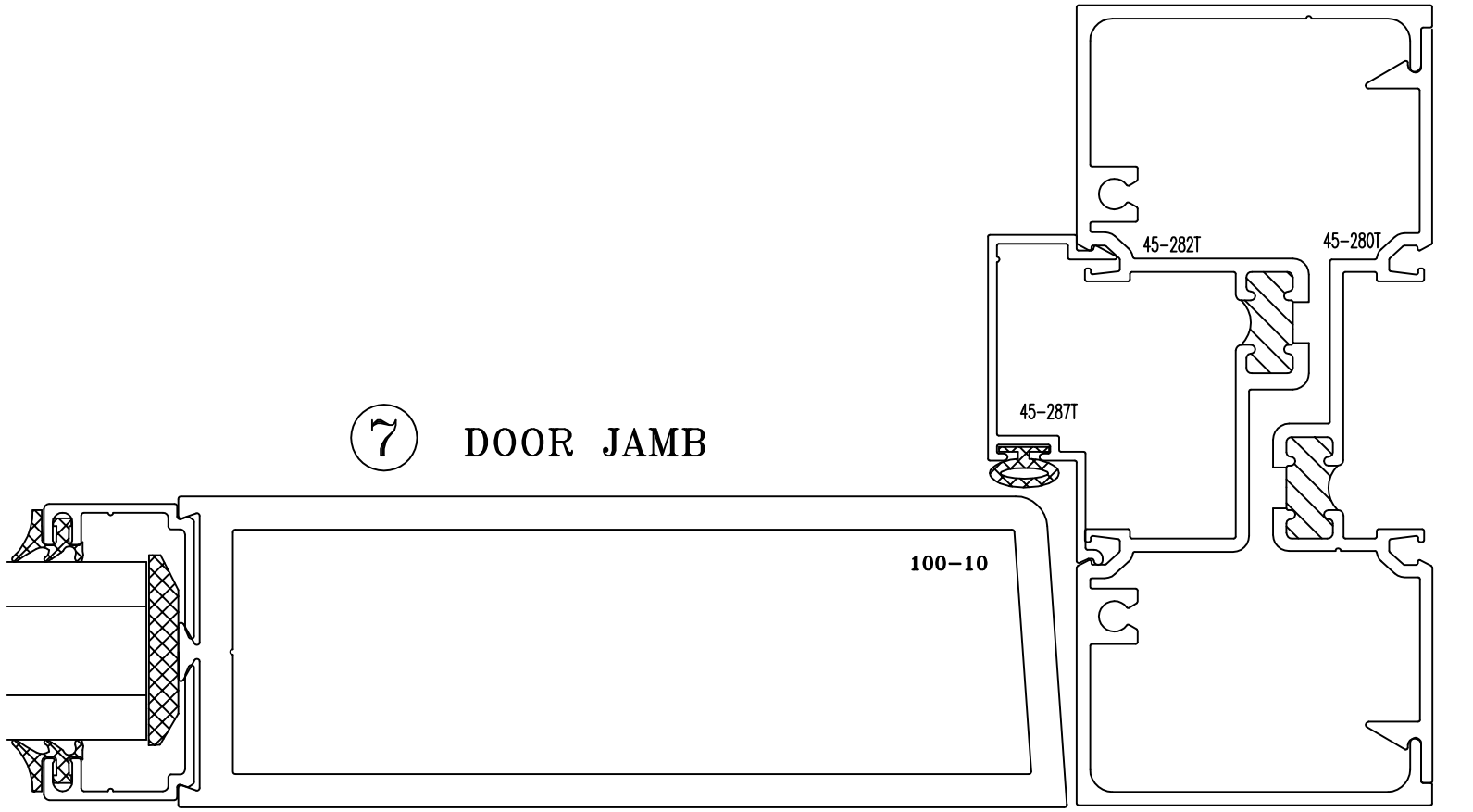


⑤A VERTICAL

MFG BY MARLIN WINDOWS, INC
EFFECTIVE 2006



⑥ DOOR JAMB

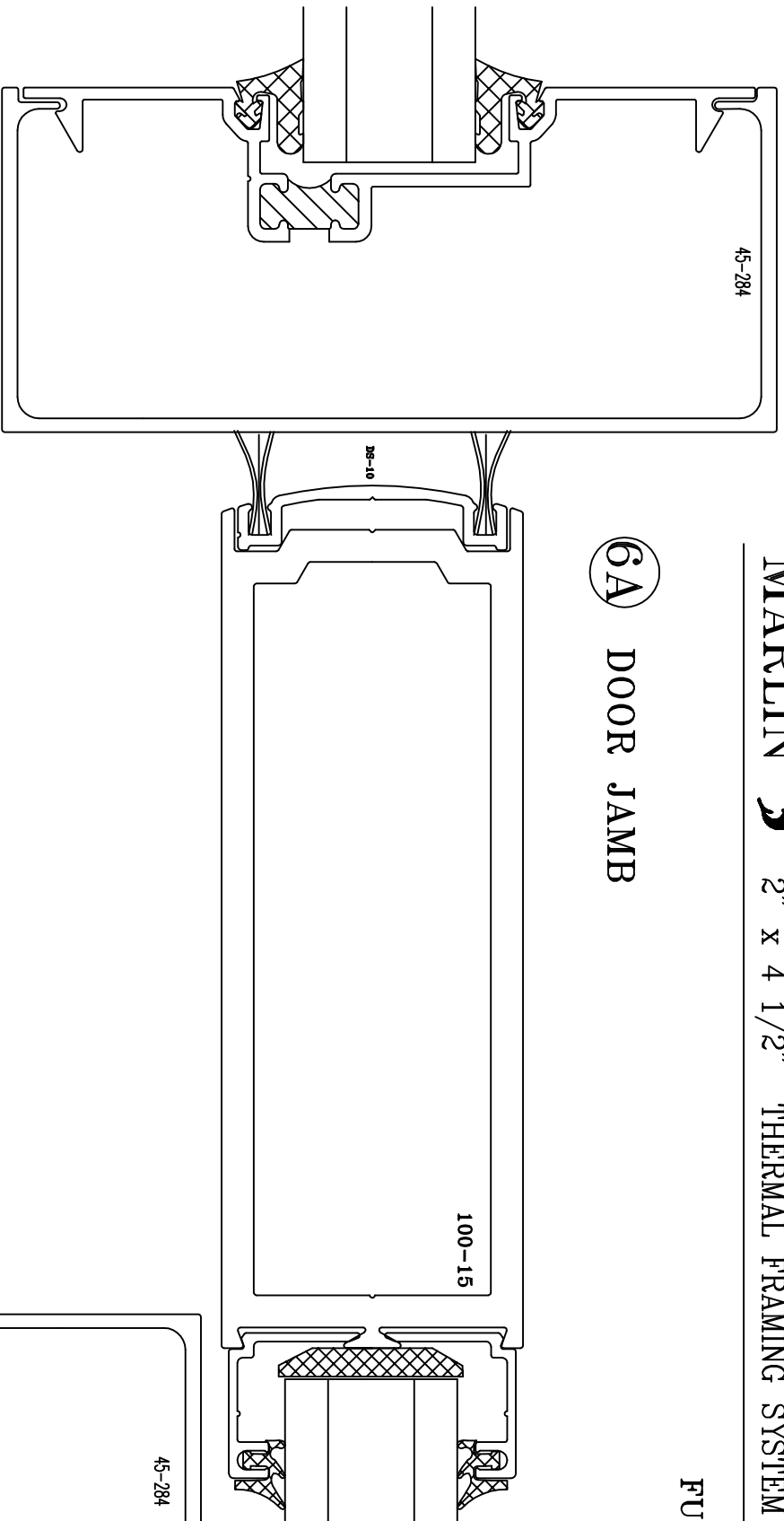


⑦ DOOR JAMB

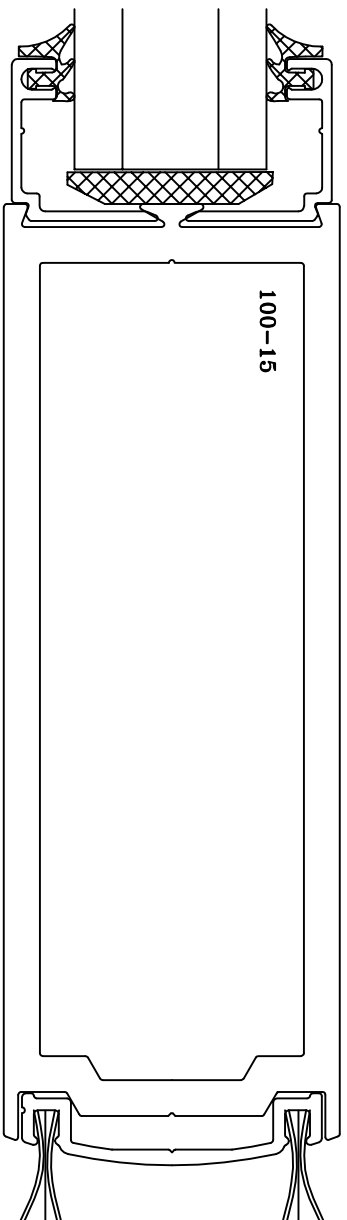
MARLIN 2" x 4 1/2" THERMAL FRAMING SYSTEM 45T 8

FULL SCALE

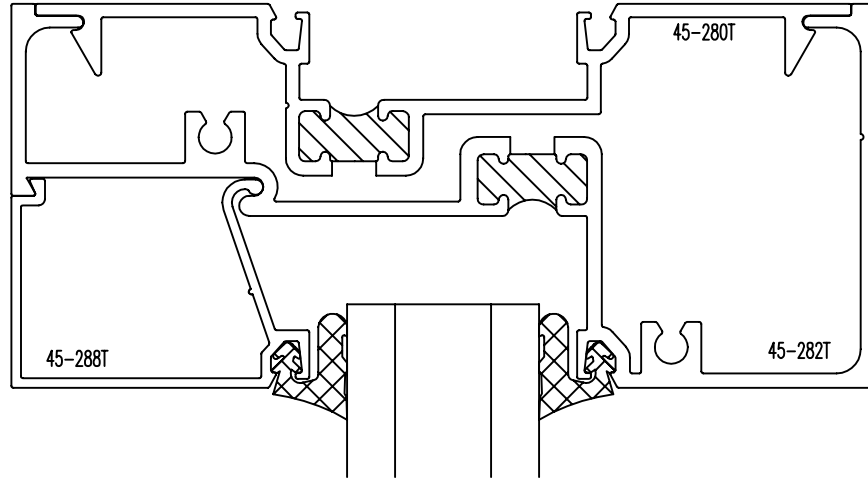
6A DOOR JAMB



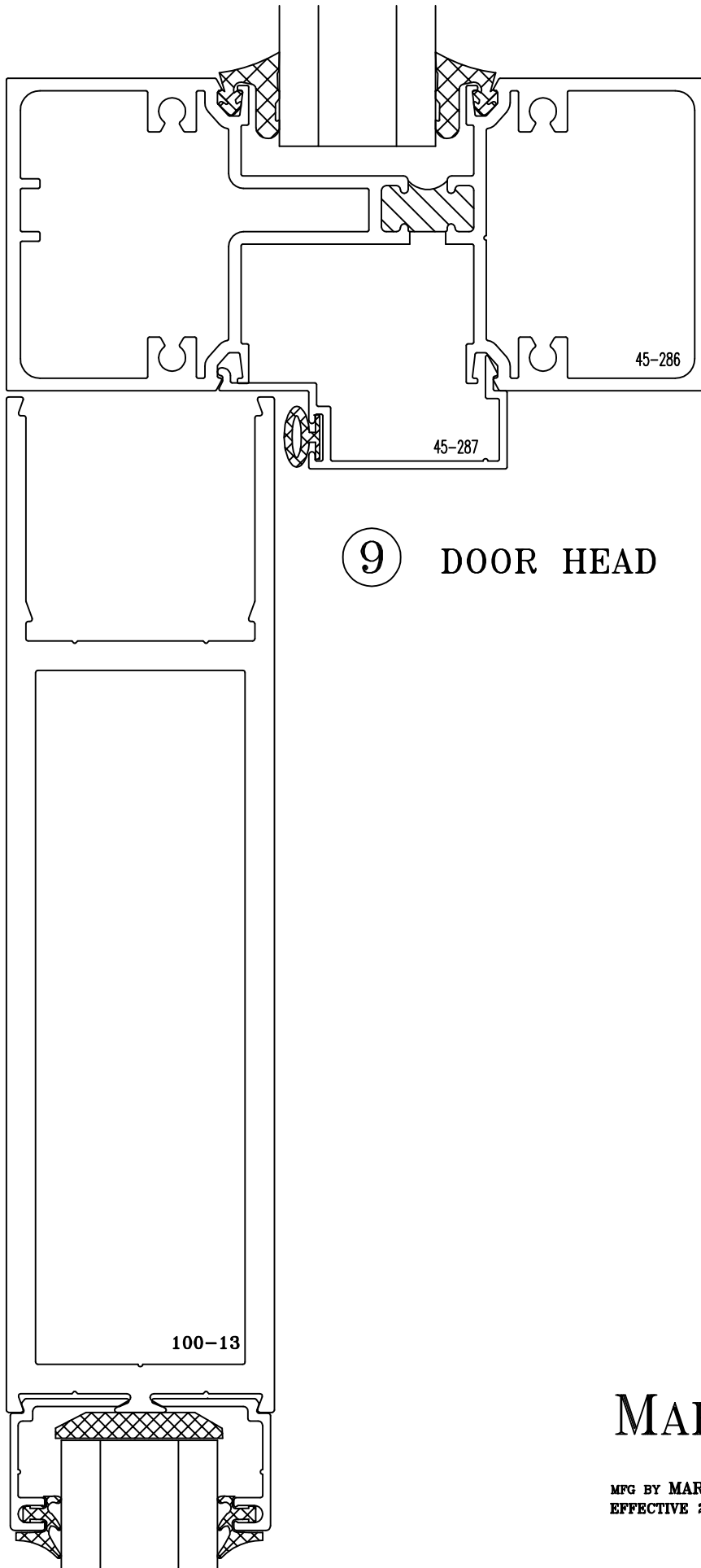
7A DOOR JAMB



FULL SCALE



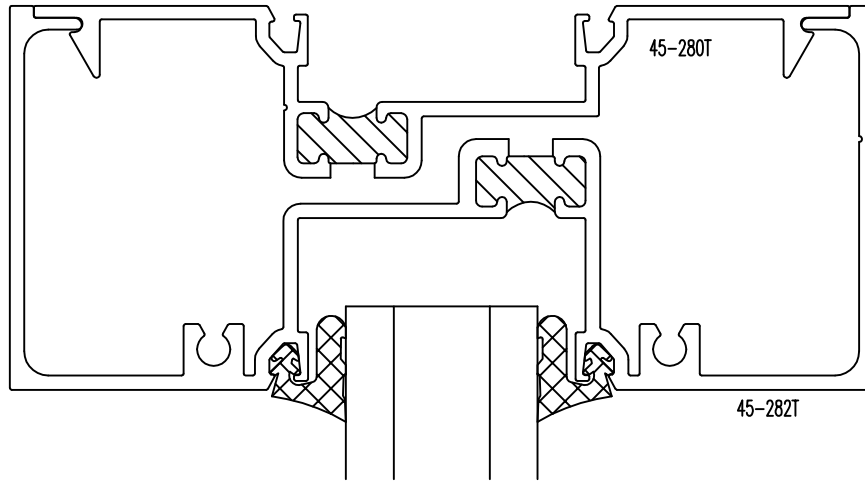
⑧ HEAD



MARLIN 

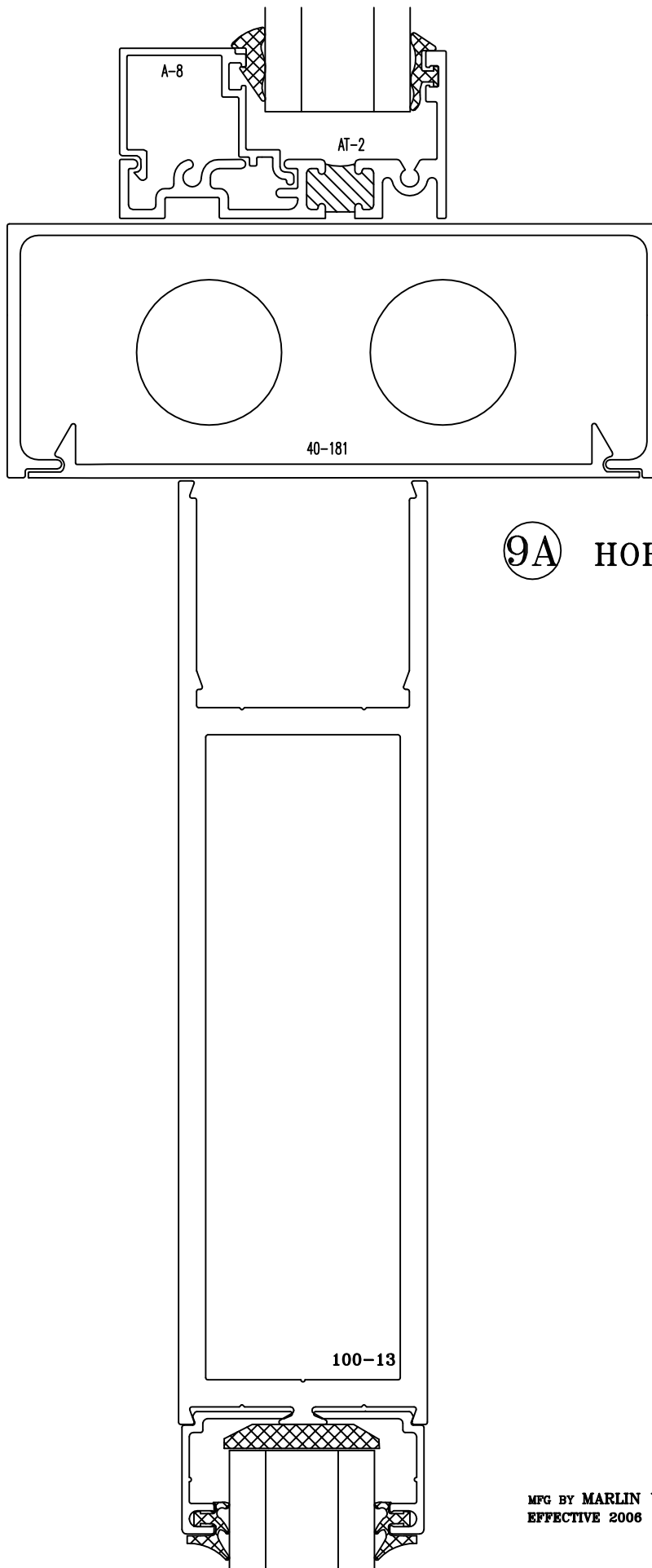
MFG BY MARLIN WINDOWS, INC
EFFECTIVE 2006

FULL SCALE



8A HEAD

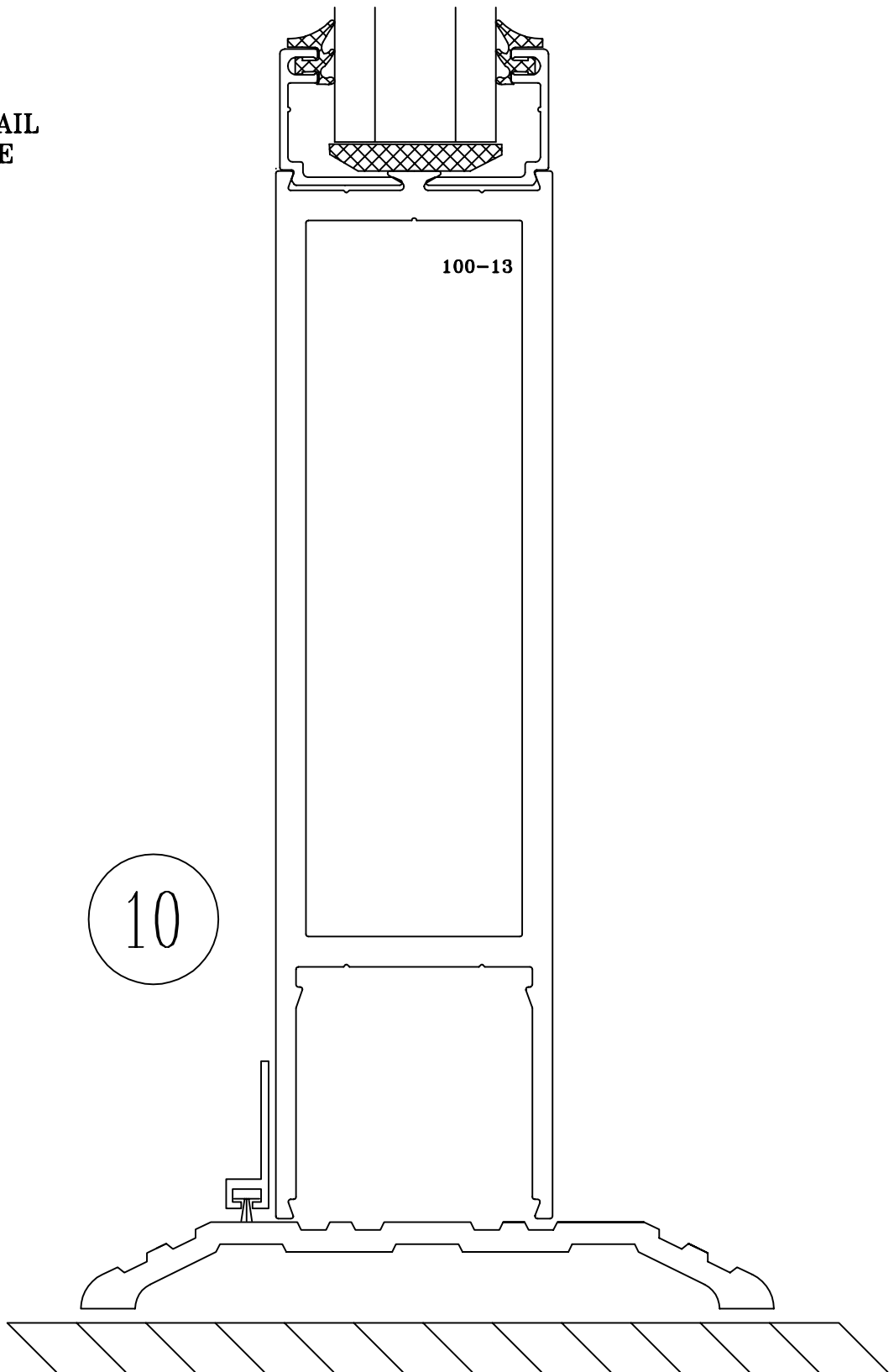
10a



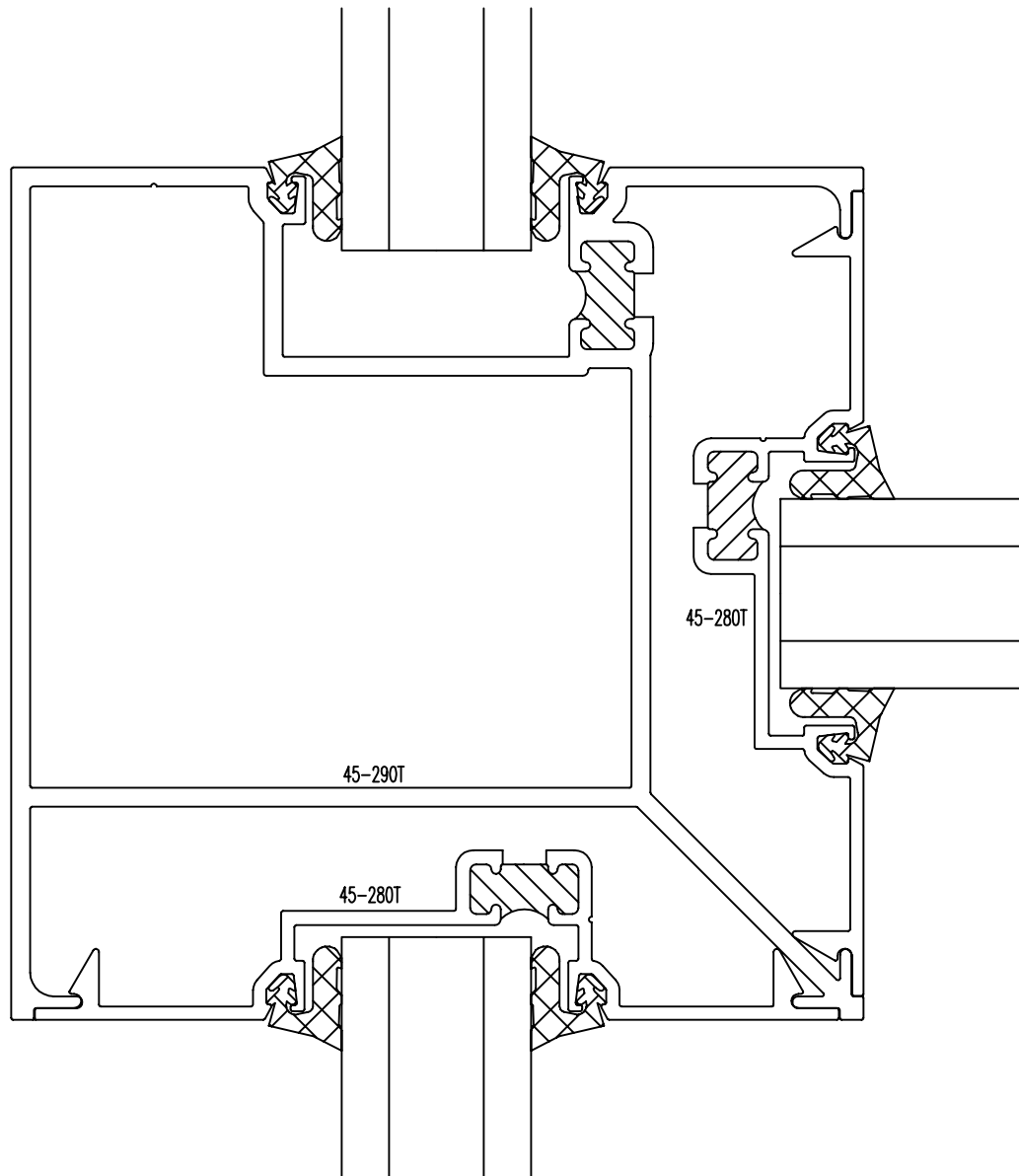
9A HORIZONTAL

FULL SCALE

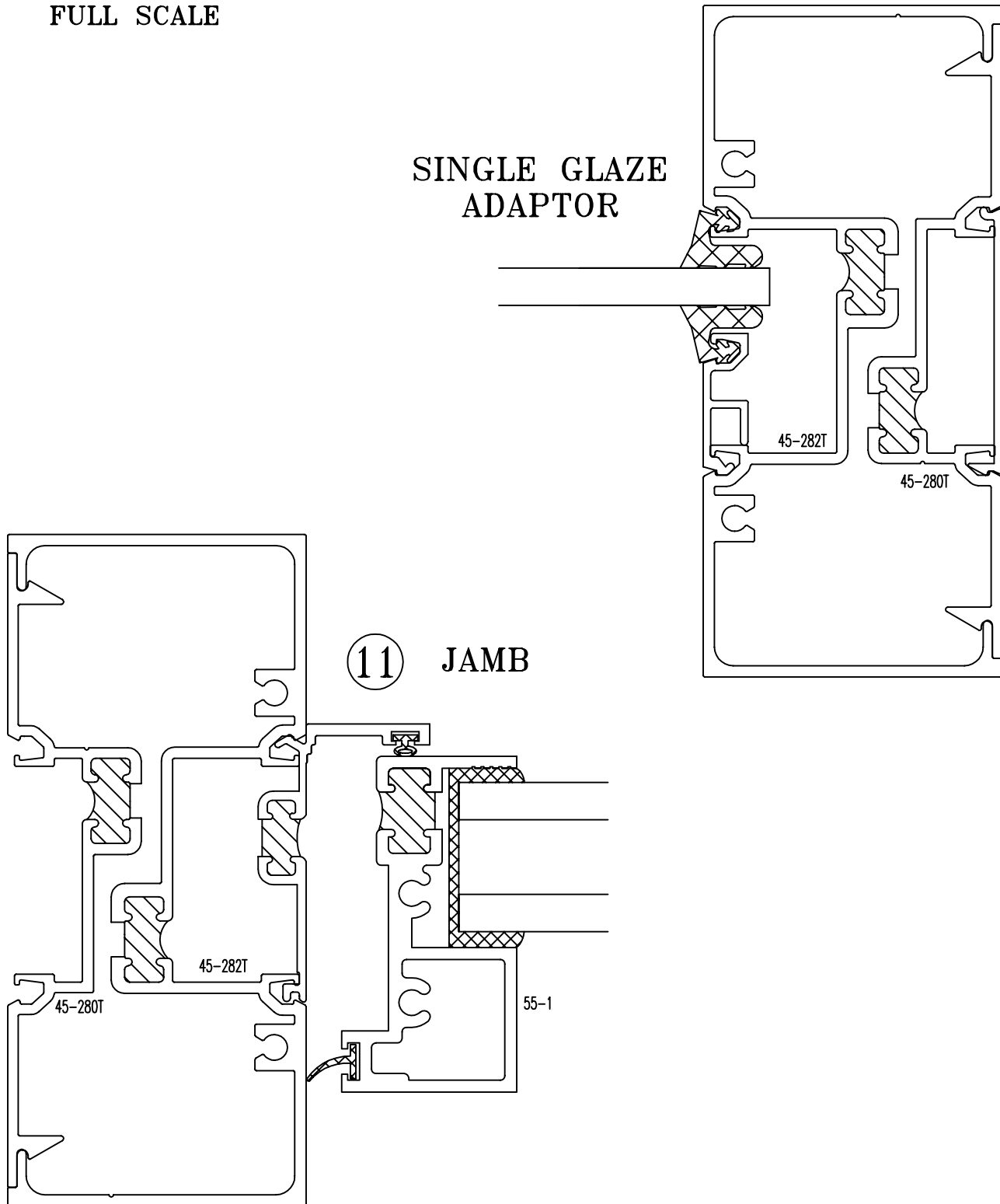
10" BOTTOM RAIL
ALSO AVAILABLE



FULL SCALE



FULL SCALE



BUTT GLAZE CORNER

