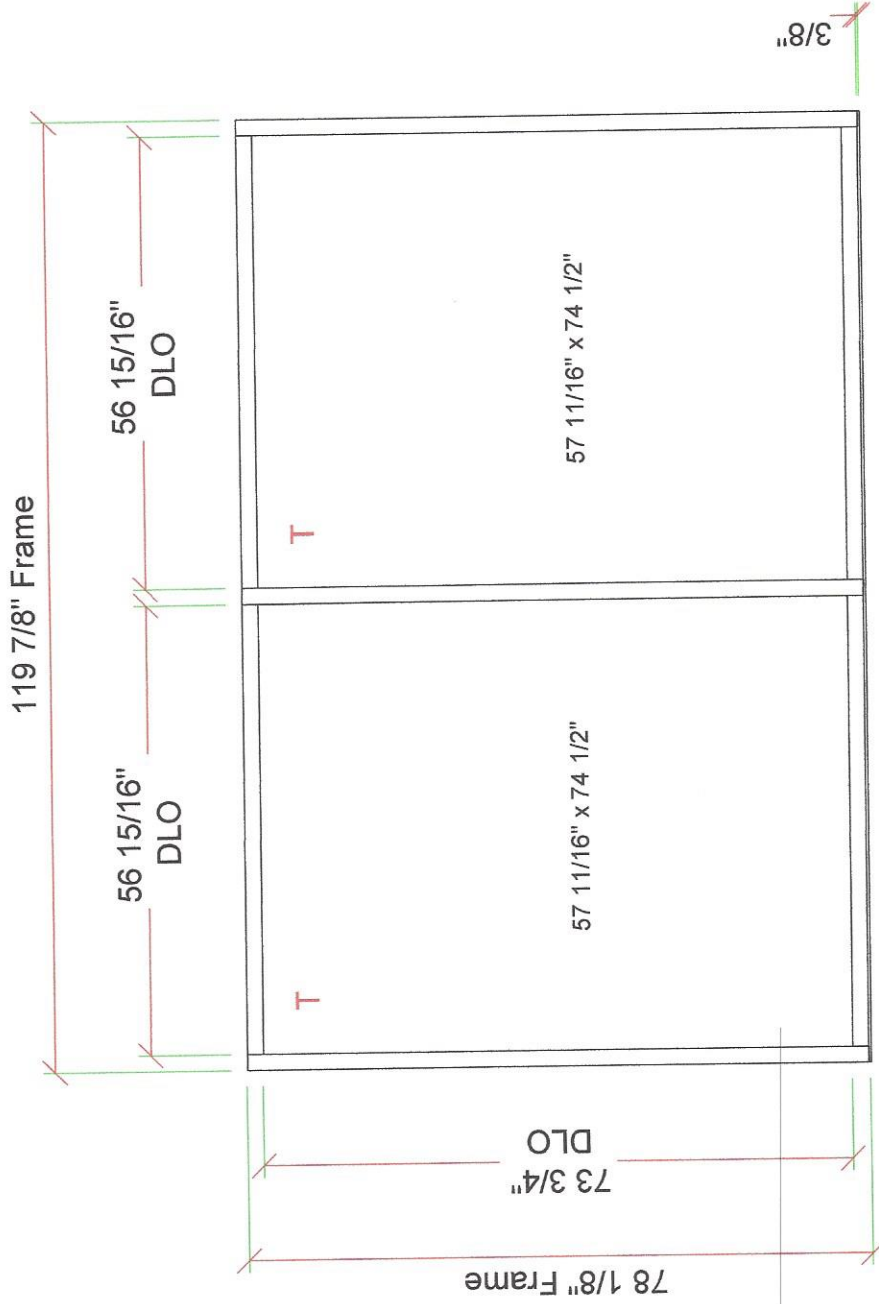


UNIVERSITY VILLAGE MARKET - SAL - 1 - 001 -
 EXTERIOR ENTRANCE (2 Thus)
 Frame: (C2-Clear) E14000 : Storefront : 2 x 4-1/2 : Flush
 Glaze : E45159 subsill



UNIVERSITY VILLAGE MARKET - SAL - 2 - 002 - EXTERIOR UPPER WINDOW (1
Thus)

Frame: (C2-Clear) E14000 : Storefront : 2 x 4-1/2 : Flush Glaze : E45159 subsill

SPECIFICATIONS: STANDARD ENTRANCE DOORS

GENERAL DESCRIPTION

Work includes furnishing all necessary materials, labor and equipment for the installation of the aluminum entrance doors, door frame and hardware as specified herein.
NOT included: Structural support of the framing system.

PRODUCTS/MATERIALS

Aluminum entrance shall be model (s): Narrow stile 2", Medium Stile 3 1/16" and Wide Stile 5" (Nominal) as manufactured by Ramco (Reliable Architectural Metals Company), Detroit, Michigan. Door and frame sections shall be extruded aluminum AA-6063-T5 alloy with a nominal wall thickness of .125". Glazing and door moldings a minimum of .062". Weather-stripping to be silicone treated plastic pile and glazing gaskets shall be EPDM elastomeric extrusions or vinyl with a fiberglass reinforcement cord to prevent stretching. Weather-stripped insert in top and bottom rail is (optional). .375" high tension, zinc plated steel tie rods run the full width of the top and bottom rails joined together with .250" aluminum reinforcing plates and .375" serrated lock nuts. Narrow Stile doors shall have an adjustable setting block in the top rail.

FINISH HARDWARE

Ramco doors shall be supplied with standard hardware unless otherwise specified. Refer to the finish hardware section of Division 8 for requirements for finish hardware items not specified herein. Glass and glazing shall conform to the requirements specified in section "Glass and Glazing." The architect must specify special hardware for custom doors and entrances. Hardware furnished by others shall be sent to Ramco for application.

FABRICATION

Doors shall be mortised to provide positive interlocking of door rails to door stiles. Assembled with .375" diameter high tension steel plated rod, with .250" reinforced corner plate. Welding is (optional) in corner construction.

FINISHES

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given an acid etch, followed by an anodic oxide treatment conforming to the American Architectural Metal Association to obtain a color anodized finish AA-M12C2XA31 class II (clear anodized) or AA-M12C2XA44 class I (dark bronze anodized). Wood grain, black anodize, powder coat, and Kynar finishes are available upon request.

EXECUTION

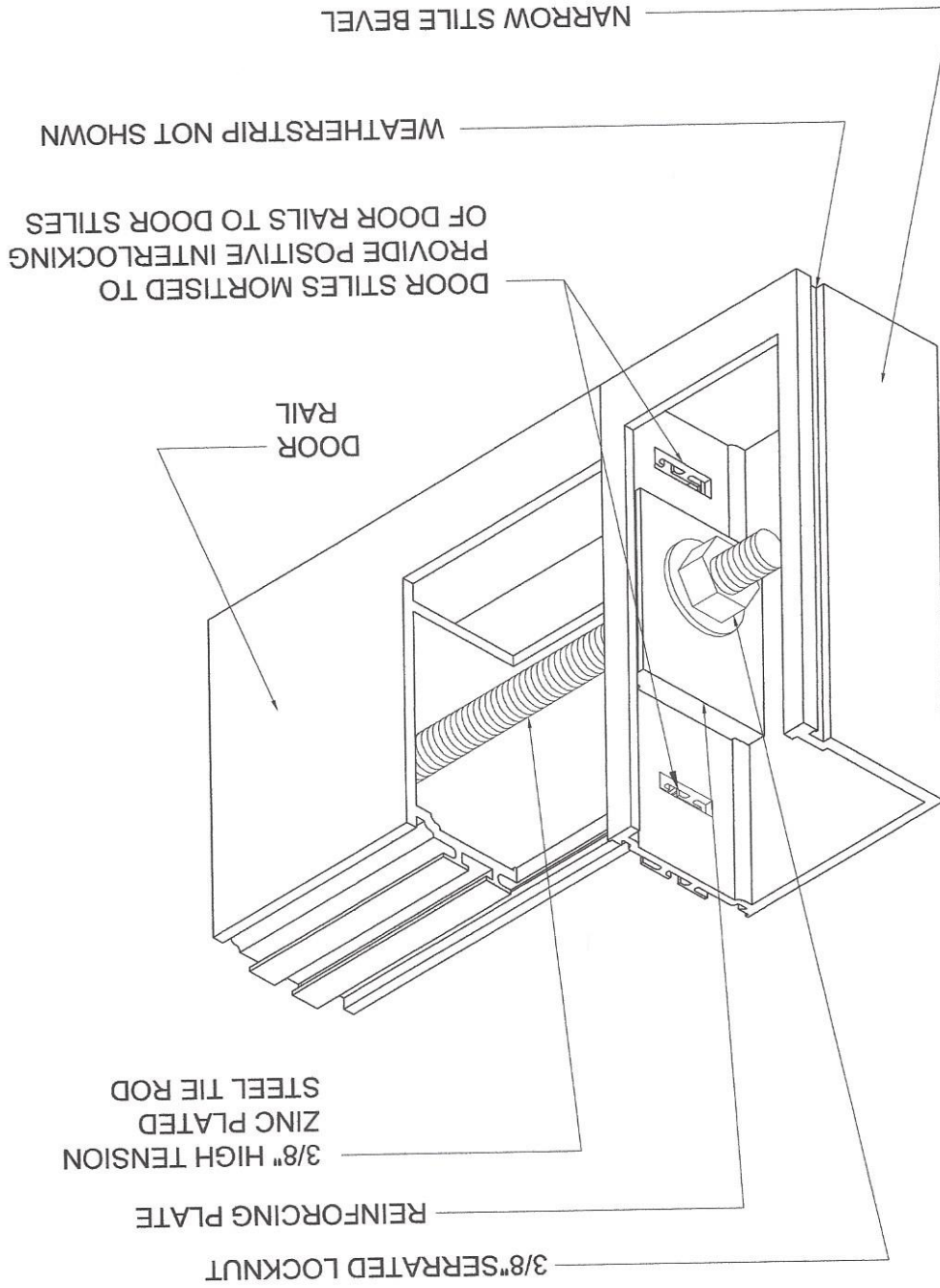
Entrance doors and framing system shall be installed, glazed, and adjusted by experienced workers in accordance with Ramco's installation instructions and the approved shop drawings.

CLEANING AND PROTECTION

The installer shall prevent the aluminum entrance materials and finish from damage during the installation of the materials. After installation it is the responsibility of the general contractor or owner to prevent damage to the aluminum entrance materials and finish. Ramco assumes no responsibility after pick up or delivery.

NOTE: "Always Service All Ways" is our trade mark and to keep up with today's innovations Ramco reserves the right to change specifications without written notice.

DOOR ASSEMBLY



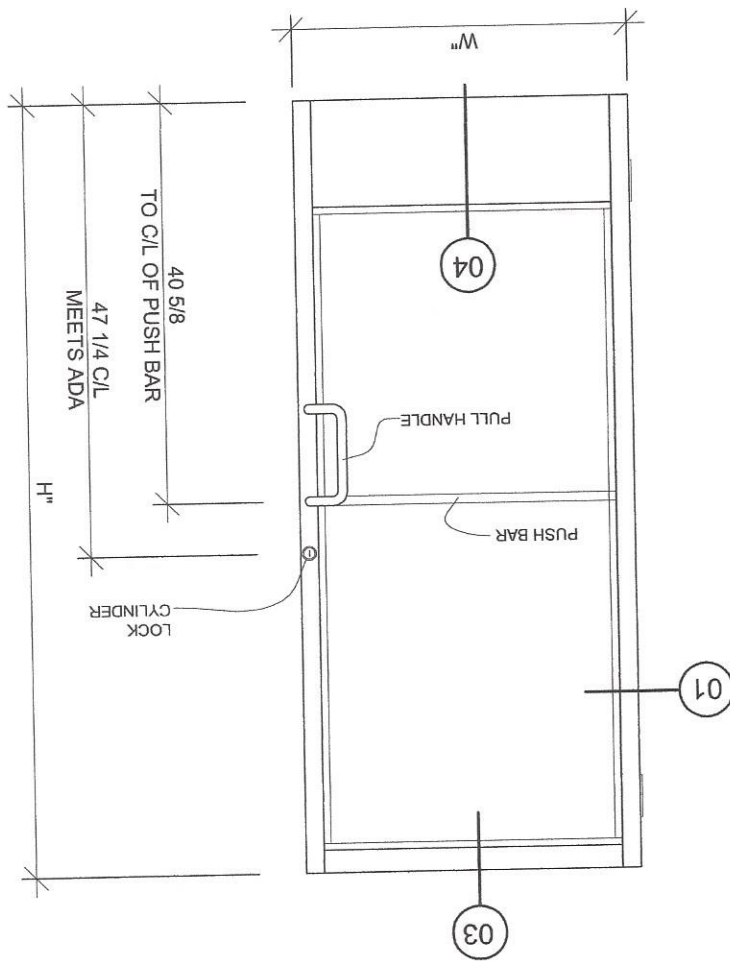
9751 ERWIN STREET
 DETROIT, MI 48213
 PH: 800.445.0263 FAX: 313.924.8877

RELIABLE ARCHITECTURAL METALS COMPANY



STILE	HANDING	SWING	WIDTH (W)	HEIGHT (H)
NARROW	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
NARROW	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"
MEDIUM	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
MEDIUM	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"
WIDE	(LH) OR (RH)	SINGLE OR DOUBLE	36"	84"
WIDE	(LH) OR (RH)	SINGLE OR DOUBLE	42"	84"

SINGLE DOOR STANDARD SIZES



STANDARD ENTRANCES

Ramco
 RELIABLE ARCHITECTURAL METALS COMPANY
 9751 ERWIN STREET
 DETROIT, MI 48213
 PH: 800.445.0263 FAX: 313.924.8877

SPECIFICATIONS: RTF 1850 SERIES 2" x 4 1/2"

GENERAL DESCRIPTION

Work includes furnishing all necessary materials, labor and equipment for the installation of the aluminum framing system as specified herein.

NOT included: Structural support of the framing system.

PERFORMANCE REQUIREMENTS

Structural Performance-Deflection shall be tested in accordance with the ASTM E330. Maximum deflection of a member shall not exceed L/175 of its span, and when the load is removed there shall be no evidence of permanent deformation or damage when tested under a load of (SPECIFY) PSF. Thermal Performance when tested in accordance with AAMA 1503.1-88 and ASTM C 236-89 Condensation Resistance Factor (CRF) will be a minimum of 63, and Thermal Transmittance (U Value) will be 0.46 BTU/HR/FT²/F or less.

PRODUCTS/MATERIALS

Extrusions shall be AA-6063-T5 alloy and temper (ASTM B221 alloy G.S.10A-T5) with a nominal wall thickness of .090". RTF 1850 Series is a thermally broken framing system with a pour and debridge process that combines a mechanical and adhesive bond between the urethane and the aluminum. Fasteners shall be aluminum; stainless steel or zinc plated steel in accordance with ASTM A 164. Glazing gaskets shall be EPDM elastomeric extrusions or vinyl with a fiberglass reinforcement cord to prevent stretching.

FABRICATION

The framing system shall provide for flush glazing on all sides with no projecting stops. Vertical and horizontal framing members shall have a nominal face dimension of 2" with an overall depth of 4 1/2".

FINISHES

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given an acid etch, followed by an anodic oxide treatment conforming to the American Architectural Metal Association to obtain a color anodized finish AA-M12C2XA31 class II (clear anodized) or AA-M12C2XA44 class I (dark bronze anodized). Black anodize, powder coat and Kynar finishes are available upon request.

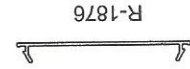
EXECUTION

The framing system shall be installed, glazed, and adjusted by experienced workers in accordance with Ramco's installation instructions and the approved shop drawings.

CLEANING AND PROTECTION

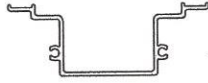
After installation all metal surfaces shall be cleaned to remove contaminants. All work shall be protected against damage until approved by the general contractor. Thereafter, it shall be the responsibility of the general contractor to provide protection and final cleaning.

NOTE: "Always Service All Ways" is our trade mark and to keep up with today's innovations Ramco reserves the right to change specifications without written notice.

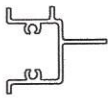


R-1876

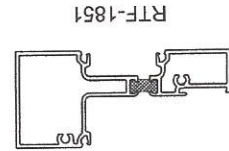
TR-5114 VINYL



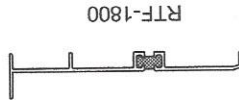
RTF-1848



RTF-1866



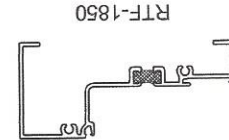
RTF-1851



RTF-1800



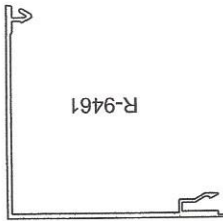
R-1853



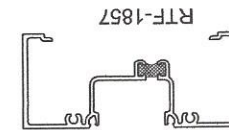
RTF-1850



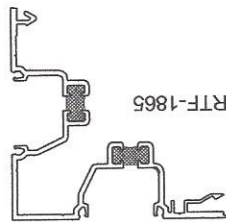
RTF-1854



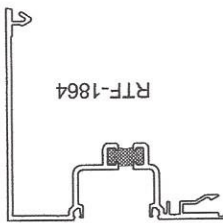
R-9461



RTF-1857



RTF-1865



RTF-1864

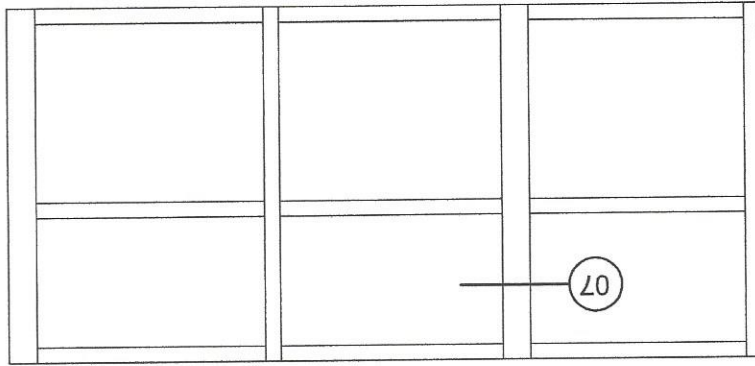
9751 ERWIN STREET
DETROIT, MI 48213
PH: 800.445.0263 FAX: 313.924.8877

RELIABLE ARCHITECTURAL METALS COMPANY

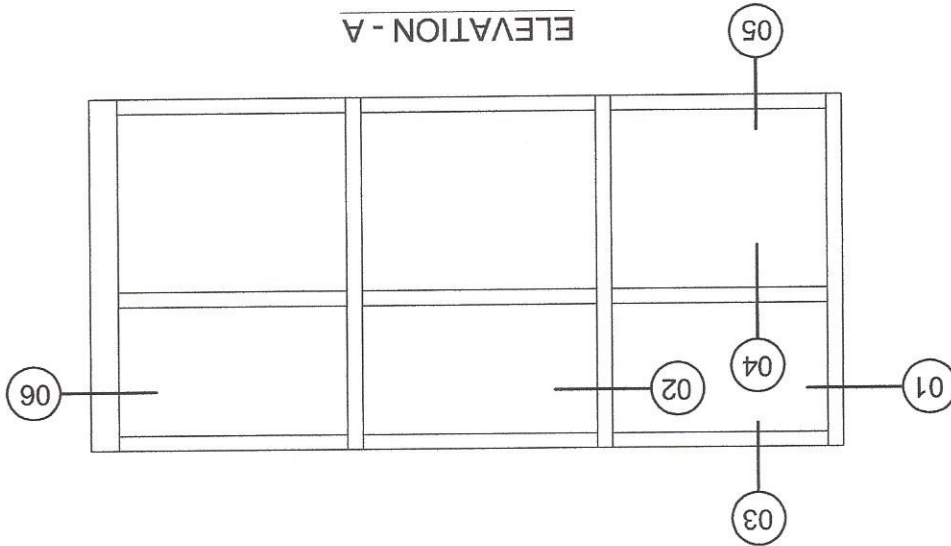


1850 SERIES
INDIVIDUAL EXTRUSIONS
1/4 SCALE

ELEVATION - B

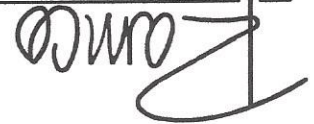


ELEVATION - A



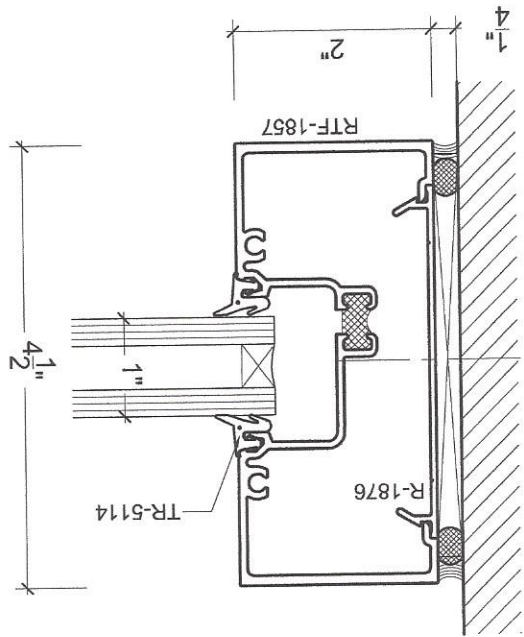
9751 ERWIN STREET
DETROIT, MI 48213
PH: 800.445.0263 FAX: 313.924.8877

RELIABLE ARCHITECTURAL METALS COMPANY

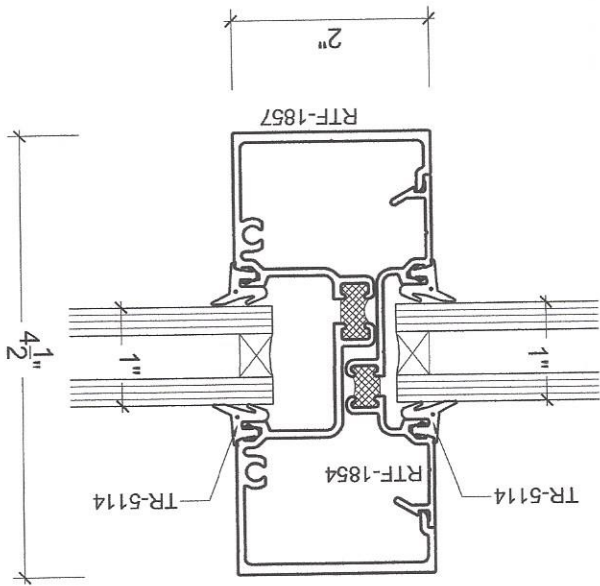


1850 SERIES
STOREFRONT TYPICAL ELEVATIONS
(1" GLAZING)

SECTION 1



SECTION 2



9751 ERWIN STREET
 DETROIT, MI 48213
 PH: 800.445.0263 FAX: 313.924.8877

RELIABLE ARCHITECTURAL METALS COMPANY



1850 SERIES
 DETAILS
 1/2 SCALE

Ramco

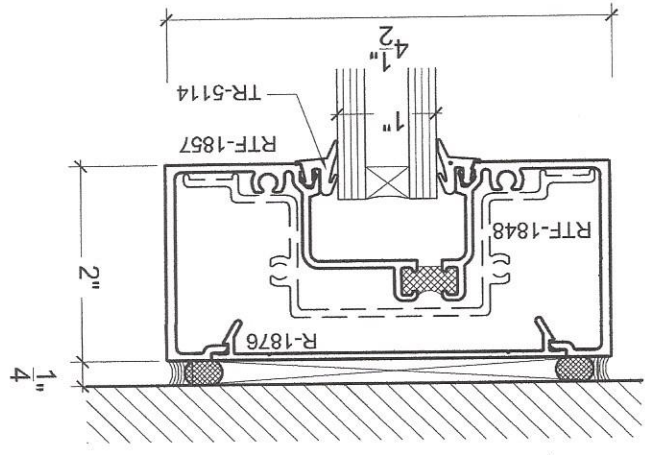
RELIABLE ARCHITECTURAL METALS COMPANY

9751 ERWIN STREET
DETROIT, MI 48213

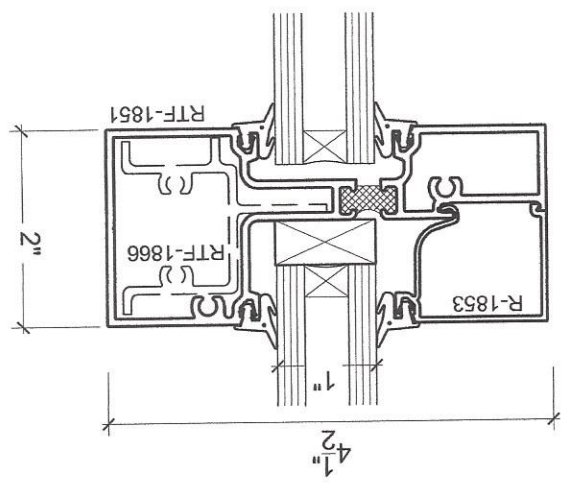
1850 SERIES

DETAILS
1/2 SCALE

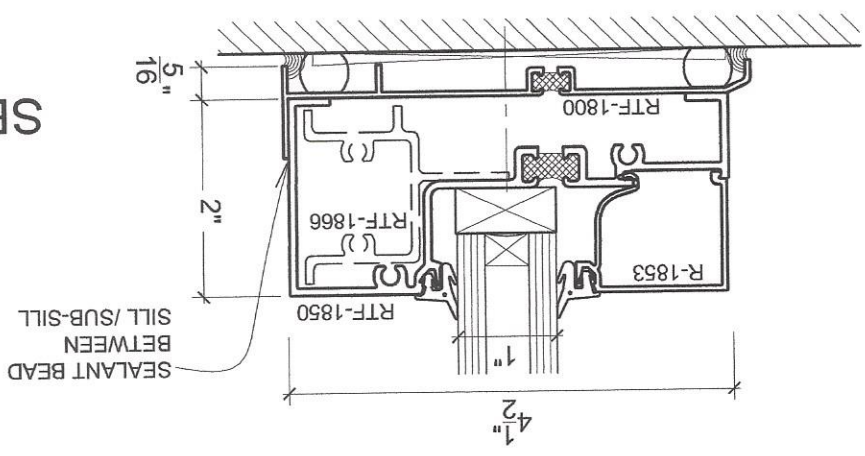
Ramco 2009



SECTION 3

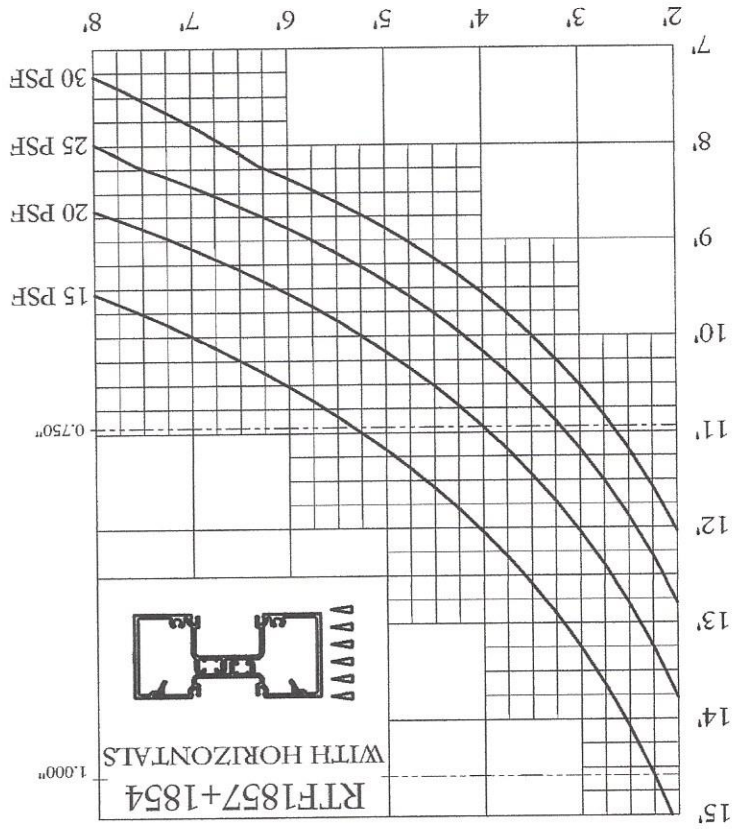


SECTION 4



SECTION 5

www.ramcometals.com



#1 THESE WINDLOAD CHARTS ARE BASED UPON THE LESSER OF DEFLECTION RATIO (L/175) OR STRESS (12667)

#2 THESE STRUCTURAL CURVES ARE ESTIMATES AND ARE PRESENTED TO THE BEST KNOWLEDGE OF THE WILLIAM L BONNELL CO. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CUSTOMER TO BE SATISFIED THAT THE CURVES ARE CORRECT. THE WILLIAM L BONNELL CO. MAY NOT BE HELD RESPONSIBLE IN ANY WAY FOR THE FAILURE OF PERFORMANCE RESULTING FROM THE USE OF THESE CURVES.