



GENERAL FRAME INFORMATION:

The Steelcraft Architectural Stick Systems are designed to fit virtually all construction requirements for commercial building applications. These frame assemblies are fabricated (cut and welded) from various framing components, to meet a wide range of architectural requirements based on aesthetics, functionality, and durability. These frames and their components are specifically designed to meet the high usage levels of all commercial and institutional buildings.

This section of the manual is designed to give an overview of the flexibility available in the Steelcraft Architectural Stick Systems. For maximum flexibility and functionality, the perimeter framing (open sections which attach to the wall systems) is available in several frame series. Anchorage to the wall and floor may vary from the details shown in the applicable frame Specification Sheets.

The Steelcraft Architectural Stick Systems are available in the following frame series:

- **Flush Frames (F and FN-Series):** Available as transom light/panel, side light/panel, transom and side light/panel, borrowed lights and frames with corner enclosures.
- **Drywall Frame (DW and K-Series):** Available only as borrowed lights. These frames are KD (knock down).
- **Multi-Use Frames (MU-Series):** Available as transom light/panel, side light/panel, transom and side light/panel, borrowed lights and entrance frames with corner enclosures.

USAGE AND APPLICATION:

To help simplify the use, selection and specification of Steelcraft framing systems, the following guidelines for base material selection can be used:

Material gage – the following base material thickness are available:

- **16 gage (1.3 mm)** – for Heavy Commercial and Institutional applications with high usage.
- **14 gage (1.7 mm)** – for Extra-heavy Commercial and Institutional applications with potential of extremely high usage.

Material selection — in addition to the thickness of base material, the following base material types of metal are available:

- **Cold Rolled Steel (CRS)** conforming to ASTM A1008 and ASTM A568 recommended for interior opening with normal humidity exposure.
- **Hot-Dip Galvannealed Steel** conforming to ASTM A924 and ASTM A653 recommended for exterior opening or interior openings with high humidity.

INSTALLATION:

Installation of all Steelcraft Framing Systems shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames. All fire rated frames must be installed in accordance with NFPA Pamphlet 80, and/or the local Authority Having Jurisdiction.

Glaze and seal all exterior elevations, or interior elevations subjected to high humidity exposure, in accordance with HMMA's Tech Note (HMMA820-TN03-07). Guidelines for Glazing Hollow Metal Transoms, Sidelights, and Windows.

INTRODUCTION:

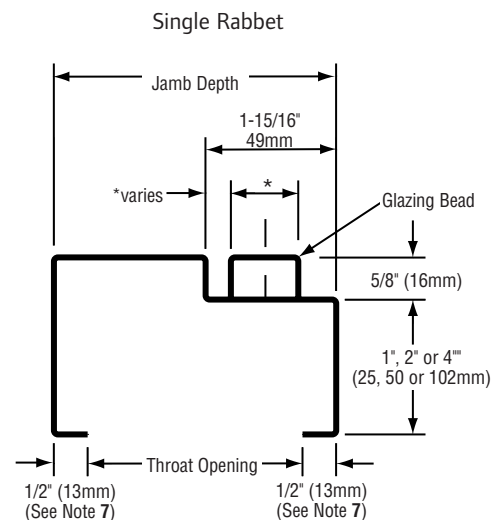
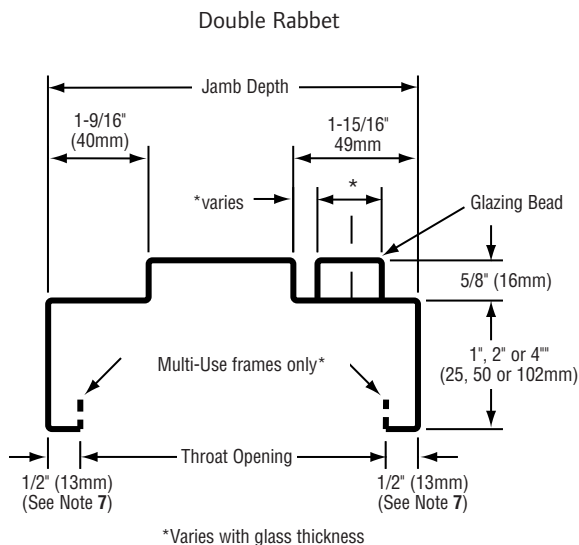
“Stick Sections”, which are lengths of component frame material, are used to produce transom, transom & sidelight, sidelight and borrowed lights. The components are cut to length, notched and/or mitered, assembled and welded into an assembly to meet the requirements and specifications of the opening. The individual sections and the welded assembly can be fabricated at the factory or at the distributor’s fabrication shop.

This publication is designed to show the assembly flexibility, and the components along with general cutting and assembly details. Other details include methods of splicing (for a frame when it exceeds shipping limitations), and other miscellaneous details.

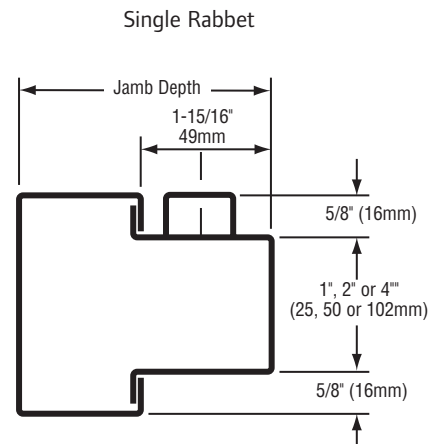
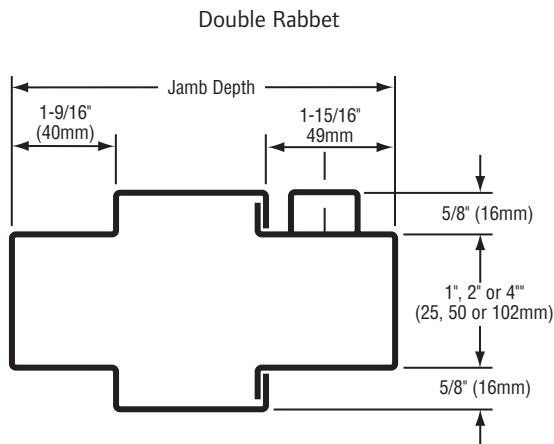
GENERAL INFORMATION:

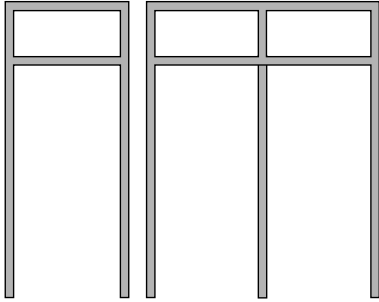
1. Standard components are either open (anchoring into the wall), or closed (mullions and dividers) sections.
2. Components are available in 16 and 14 gage non galvanized or optional galvanized steel (except as noted otherwise).
3. Components are available as either single or double rabbet. For the purpose of simplicity, all details are shown as double rabbeted.
4. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.
5. All sill sections (members attached to the floor) are recommended to be galvanized steel.
6. Closed sections are shown for 3 3/4” (95mm) jamb depth. 3” (76mm) jamb depth section has two-piece.
7. All frame open sections have standard 1/2” returns except MU Series and 5 3/4” jamb depth which have 7/16” returns.

OPEN SECTIONS



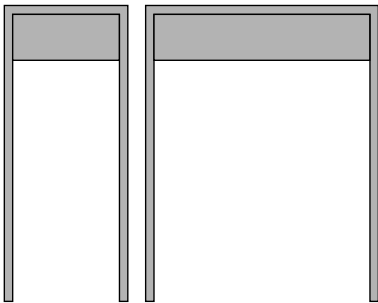
CLOSED SECTIONS





TRANSOM FRAMES

Door frame having a transom bar and glass, panel or louver above the door opening. The transom bar separates the door opening from the transom opening. The frame height will vary but normally extends to the ceiling above.



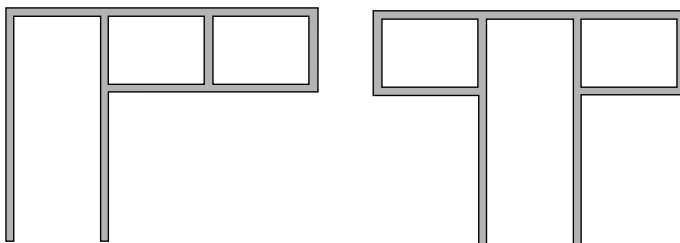
CEILING HEIGHT FRAME

Door frame without a transom bar and a panel mounted above the door. The panel is normally the same thickness and material as the door. The frame height will vary but normally extends to the ceiling.



TRANSOM SIDELIGHT FRAME

Door frame with transom bars and mullions dividing the entire frame into door and glass or panel openings. The frame height will vary but normally extends to the ceiling above.



SIDELIGHT FRAME

Door frame with glass openings attached to one or both sides of the door opening. The sidelight portion can be partial height of the door opening or extend the entire height of the door. The frame is only the door height. If the frame is greater than the door height the frame is defined as a transom sidelight frame.



BORROWED LIGHT

Four-sided frame without a door opening, prepared for glass installation in the field. The borrowed light can be designed for one or multiple pieces of glass. The frame can be located in the wall off the floor or sit on the floor and extend to the ceiling above.