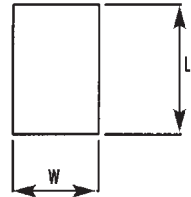
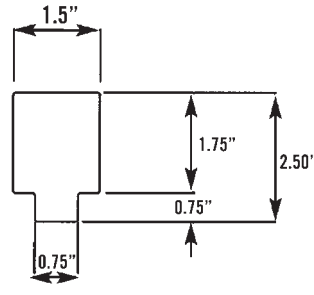




Stud sizes	162-250
W	0.75"
L	1.75"

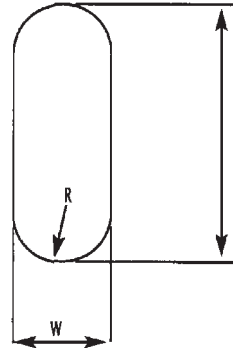


Rectangle punch

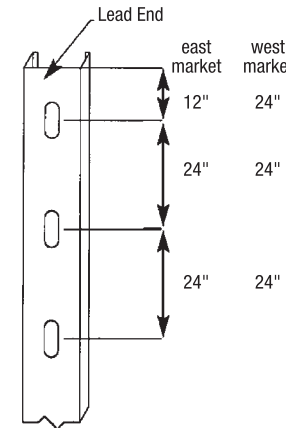


Keyhole punch

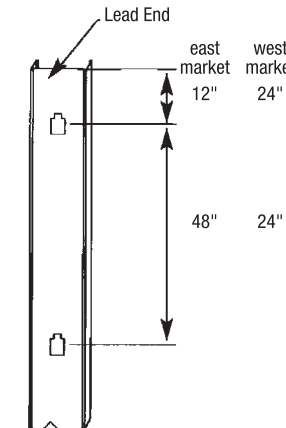
Stud sizes	250	350-1600
W	0.75"	1.5"
L	2"	4"
R	0.375"	0.75"



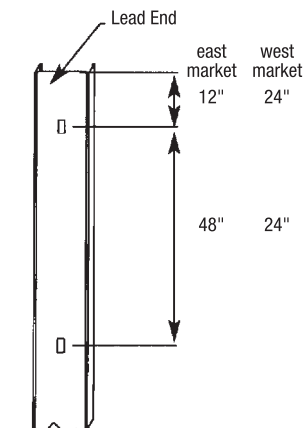
Oval punch



Structural stud punchout



Non-structural keyhole punchout



Non-structural rectangle punchout

Structural studs

Member depth	Punchout size
250 (2-1/2")	3/4" wide x 2" long oval
350 (3-1/2") - 1600 (16")	1-1/2" wide x 4" long oval

Technical support.

Technical support is the most important way we serve our present and prospective customers. After all, your experience with our products will only be a good one if you are satisfied that the material is right for the job and that it is being installed correctly. That's why we have provided four ways to make sure you can get the technical support you need.

Web support — www.clarkwestern.com contains information on the company, its products and a wealth of other information related to the steel framing industry. This web site also provides you with more detailed information about all of the company's products, including load and limiting heights tables for member sizes and configurations not contained in this printed manual. Please visit this site to familiarize yourself with what we have to offer.

Engineering software — To make sure you design structures successfully, we provide engineering software FREE to customers, engineers, architects and students. This state-of-the-art and user-friendly AISIWIN software helps configure exterior curtain wall framing for wind loads, load-bearing framing for combined loads, joists for required spans and anticipated load configurations, etc. A download is available from our web site.

ClarkWestern Design — A full service design and engineering firm that provides certified engineering shop drawing packages. ClarkWestern Design is licensed throughout the United States and can be reached by calling 877-832-3206.

ClarkWestern technical support — For general technical support on products, member sizing, industry standards, framing details or information on AISIWIN software, please call technical support at 888-437-3244.

Structural framing general notes.

- Physical properties and load tables have been calculated in conformance with the 2001 North American Specification [NASPEC] with 2004 supplement for the Design of Cold-Formed Steel Structural Members and the International Building Code [IBC] 2006. U.S. provisions (ASD) have been used.
 - All materials delivered from ClarkWestern shall be kept dry, preferably by being stored inside a building under a roof. Where necessary to store material outside, it shall be stacked off the ground, properly supported on a level platform, and fully protected from the weather. Reference ASTM C754 section 8 and ASTM C1007 section 4.
 - Effective properties on structural framing incorporate the strength increase from the cold work of forming as applicable per NASPEC A7.2.
 - Gross properties are based on the section away from punchouts. Effective properties are based on punched sections.
 - For those steels with both 33 and 50 ksi listings, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified by the end user at the time of quote and order.
 - The inside corner bend radii are based upon the standards set by SSMA for a given gauge or design thickness.
 - Where noted with a superscript "1", web height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
 - Where no effective properties are listed, width-to-thickness ratio limits per NASPEC B1 are exceeded. Only gross properties are available.
 - Tabulated gross properties are based on the full-unreduced cross sections of the studs, away from the web punchouts.
 - For deflection calculations, use the effective moment of inertia. Reference the NAS Commentary section C1.
 - Overall depth for track sections are equal to the nominal depth plus 2 times the design thickness plus the inside bend radius.
 - The standard protective coating for structural framing members is a G60 coating or equivalent. The standard protective coating for nonstructural framing members is a G40 coating or equivalent. Reference ASTM A1003 table 1.
 - Galvanize G90 is available by special order only and may result in additional cost and extended delivery times.
 - Nonstructural framing is not permitted in load-bearing [i.e. axial load greater than 100 lb/ft 200 lb/stud.] or exterior applications [i.e. lateral (or wind loads) more than 10 PSF.] Reference ASTM C645 section 3.2.2.
- ** Some building codes (e.g. Florida Building Code) do not allow such an increase in strength. In this case, please call our technical services for section properties w/o this increase.