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EPA of Ohio

FRAMING SYSTEMS

When You Want It Done RIGHT


Light-gauge Steel

Discover why year after year Custom Component Company® provides the structural framing for award-winning projects. "Trusses and framing systems are our business," states Valerie Hansen, President. "We've designed and built them for more than 46 years. Our average designer/office professional has 13 years tenure; the average plant worker 11.6 years."

CUSTOM COMPONENT COMPANY®

Custom Component fabricates wood, light-gauge steel, and hybrid wood and steel framing systems for commercial or residential projects. Serving the Midwestern United States, Custom Component's state-of-the-art manufacturing complex is located in the urban corridor running from Chicago to Milwaukee. Normal distribution of wood trusses has a 100-mile radius, light-gauge steel trusses have a 500-mile radius, with extended distribution available for large projects.

Custom Component offers complete framing systems: roof trusses, exterior wall components, interior wall partitions, floor trusses, steel beams, I-joists, laminated veneer lumber (LVL) and other engineered wood products. By utilizing a single software system for the roof, walls and floor, we can accurately assess load distribution throughout the structure. "We're one of a few firms that design and fabricate steel as well as wood structures," says Hansen.


Hybrid Construction

Custom Component's projects frequently receive national acclaim. The St. Lucy Church project was featured by the Wood Truss Council of America (WTCA) at the 1997 National Association of Home Builders (NAHB) show. With a 6/12 roof spanning 174 feet, the main body incorporated 115 different truss designs. The roof is supported by three girders. The main girder is nearly 91 feet long and 10 ply, while the other two are nearly 70 feet long and are also 10 ply.

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(See Custom Component's website at www.customcomponentcompany.com for a slideshow of this project.)

"We're committed to consistently building quality trusses," states Alex Almeida, Manager. Custom Component participates in the Wood Truss Council of America's quality control program, with certified compliance to the American National Standards Institute/Truss Plate Institute (ANSI/TPI) 1 quality standard. The ANSI/TPI 1 standard is referenced by the nation's three major building codes. In addition, Custom Component's trusses undergo independent third-party inspection by TPI.

"Custom Component's TrusSteel® cold-formed steel trusses provide the same span capabilities and design flexibilities as wood trusses," notes Ted Antrim, Sales. This engineered system allows much greater design flexibility than steel "C" truss framing.


Steel Wall Systems

Steel is up to two-thirds lighter than wood, is non-combustible and has the highest strength-to-weight ratio. Steel is dimensionally stable; it does not expand or contract in reaction to moisture in the environment; it does not rot, warp, split, crack or creep; nor is it vulnerable to termites or any type of organism (mold). More than 64 percent of the steel used for cold-formed steel framing is recycled steel, and the waste generated is 100 percent recyclable.

According to Hansen, Custom Component's wood trusses do not use large, old-growth trees — the span and strength are provided by value-added engineering. Using trusses significantly reduces lumber waste on the jobsite. All waste and in-plant wood cut-offs are recycled — none is sent to landfill.

"If your project is going for LEED™ [Leadership in Energy and Environmental Design] certification, Custom Component can provide steel trusses, or wood trusses fabricated from local timber (within 500 miles) and/or forests certified to Forest Stewardship Council (FSC) standards," says Hansen.

2006 winner of the Best Condminium Unit Design Award from the 50+ Housing Council of the NAHB, the Crossings at Geneva is a hybrid structure built with wood wall panels and light-gauge steel roof trusses. Antrim notes that new approaches that combine wood and steel framing, non-combustible roof or wall framing, and/or steel floor joists offer savings on total project costs and design alternatives. See Custom Component's website

for a link to the United States Department of Housing and Urban Development (HUD) Hybrid Wood and Steel Details Buyer's Guide.

When you want it done right, discover the value of working with Custom Component's experienced professionals.