The Steel Network, Inc.

QUALITY LIGHT STEEL FRAMING CONNECTIONS AND MEMBERS

General Information:

Registered Company Name: The Steel Network, Inc
Year Incorporated: 1998
State of Incorporation: Delaware
Number of Employees: 85
Business Type: Small Business
Ownership: Domestic

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DUNS Number: 171890601
CAGE/NCAGE: 3XTH5
CCR: Registered

About The Steel Network, Inc.:

The Steel Network, Inc. (TSN) is a manufacturer of light gauge (cold-formed) steel studs and connectors based in the United States. TSN provides solutions for all standard light steel framing applications, including load-bearing mid-rise construction systems, curtain wall systems, rigid connectors, vertical deflection connectors, lateral drift connectors and anchorage connectors. Substantial effort has been made by the industry to standardize construction practices to ensure the positive connections of light steel framing components. Toward this end, all TSN products have undergone extensive field and laboratory testing to achieve complete solutions for both designers and installers. TSN's SigmaStud® load bearing mid-rise construction system is widely used in commercial and government construction, such as hotels, dormitories and military barracks. TSN connector products are used in facade and interior light steel framing of any type of building.

In addition to its light gauge steel products, the Steel Network's subsidiary, Applied Science International (ASI), specializes in the development of engineering analysis and design software. Two primary ASI software products are SteelSmart® System (SSS) for light steel framing design, and Extreme Loading® for Structures (ELS) for analysis of structures under extreme loads (earthquakes, high wind, impact, blast, and progressive collapse). In addition to software development, ASI also provides consultation services in the fields of demolition analysis and planning, forensic engineering, blast analysis and design, progressive collapse design, and structural vulnerability assessment.

TSN's competitive advantage lies in the cost savings, rapid construction and green design/construction options provided by its core product lines, SigmaStud® Load-bearing Building System, BridgeClip®, VertiClip®, DriftClip®, PrimeWall® and Engineering Software.

Cold Formed Steel Construction Products & Engineering Services

Product Lines:

- Vertical Deflection Connectors
- Wall Bridging Connectors
- Rigid Connectors
- Mid-Rise Construction System
- Shear Wall
- Wall Openings
- Drift Connectors
- Partial Wall Framing
- Curved Wall Track
- Floor Connectors
- Roof/Truss Connectors
- Multi-purpose Connectors
- Drywall Framing
- Custom Connectors

Engineering Services:

- Value Engineering
- Structural Analysis
- Test Laboratory
- Custom Connections
- Product Development

Design Software:

- SteelSmart® System
- SteelSmart® Deck

Analysis Software:

- Extreme Loading® for Structures

NAICS Codes:

- 331221 - Rolled Steel Shape Manufacturing
- 332311 - Prefabricated Metal Building and Component Manufacturing
- 541330 - Engineering Services
- 511210 - Software Publishers
- 541613 - New product development services
- 541710 - R&D in the physical & engineering sciences

SIC Codes:

- 3444 - Sheet Metal Work
- 3449 - Miscellaneous Structural Metal Work
- 8711 - Engineering Services
- 8731 - R&D in the physical, engineering, & life sciences

Key Contacts:

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Recent Value Engineering & Manufacturing Work:

- **MEB Barracks, Ft. Drum, NJ -**Supplied cold-formed steel sections and connectors for a 3-story, 198-man, MEB barracks building constructed at Ft. Drum, NJ. Livable area: 177,400 sq ft., Project Budget: $25M, Client: Purcell Construction, Watertown, NY
- **EAB Barracks 2nd Phase, Ft. Drum, NJ -** Supplied cold-formed steel sections and connectors for one 246-man and one 216-man barracks buildings constructed at Ft. Drum, NJ., Livable area: 273,800 sq ft., Project Budget: $45M, Client: Purcell Construction, Watertown, NY
- **WIT Barracks, Ft. Campbell, KY -** Supplied cold-formed steel sections and connectors for a 4-story WIT barracks building constructed at Ft. Campbell, KY. Livable area: 135,000 sq ft., Project Budget: $30M, Client: Caddell Construction, Montgomery, AL
- **AIT Barracks 2nd Phase, Ft. Lee, VA -** Supplied cold-formed steel sections and connectors for three 5-story one barracks buildings constructed at Ft. Lee, VA., Livable area: 582,000 sq ft., Project Budget: $90M, Client: Purcell Construction, Watertown, NY
- **Hampton Inn - Dunn, NC -** five story Hampton Inn began as a project utilizing concrete block walls. A value engineering analysis initiated by the EOR and performed by TSN determined that SigmaStud® would provide a substantial savings compared with the original materials, enabling the project to move forward under a reduced budget. The lightening of the structure and redistribution the loads to the foundation resulted in the elimination of geo-piers and switch to typical spread footings. The total savings provided from the switch to SigmaStud® was $300,000.
- **Hilton Garden Inn , Southpoint – Durham, NC -** The six-story Hilton Garden Inn was originally designed with concrete block as the axial load bearing wall material. The change to SigmaStud® delivered exceptional value to the construction team, with the component weight of SigmaStud® (8psf) replacing the much more cumbersome 45psf concrete material. This 80% reduction in bearing weight resulted in the utilization of a traditional thickened slab in place of a larger, thicker foundation. Additionally, the decrease in the wall mass also produced a lower base shear, minimizing materials needed for shear wall construction. As a result of the change to SigmaStud® and by combining it with TSN's StiffWall® to address shear forces, the structural components were erected in six weeks rather than the 3.5 months it normally would have taken with the concrete block material.
- **Old Dominion University Quad Housing -** The six building Quad Housing development at Old Dominion University presented the construction team with an opportunity to save significant time and money through the use of SigmaStud® as the primary load bearing wall component, replacing concrete block. TSN provided a free value engineering comparison for the construction team, communicating the true value of utilizing SigmaStud® to the Architect, Engineer of Record, General Contractor, Sub-Contractor, Specialty Engineer, and the Owner/Developer. The switch to SigmaStud® and StiffWall® in each building resulted in a 30% savings in the cost of the wall construction, and created substantial additional savings by reducing the overall foundation requirements and accelerating the construction schedule to complete the project sooner than expected. The first 2 buildings were completed one year before the scheduled completion, resulting in the owner generating revenue one semester early. Building 6 is still under construction, but each of the 5 previous were completed well under the scheduled dates.
- **Residence Inn, Gainesville, FL -** The Residence Inn project at Gainesville presented an important opportunity for the Florida market to realize the value of steel framing. During the design process it was discovered that conventional block and plank could not be used due to sinkhole issues in the foundation. TSN's Team presented the construction team with an alternative that significantly lightened the overall weight, met design requirements, and accelerated the construction schedule. The original completion schedule based on the masonry structure was significantly reduced with the change to SigmaStud®. TSN's SigmaStud® and JamStud® were utilized in the construction of this Residence Inn.
- **University of North Carolina-Greensboro Dormitory - Greensboro, NC -** The five-story Dormitory at the University of North Carolina-Greensboro was constructed with SigmaStud® in conjunction with MSR Versa-Dek as the floor system. Originally designed as a cast-in-place concrete wall and floor structure, the project could not meet completion scheduling or budget. As the project was re-engineered using conventional SSMA "cee" sections, issues developed on the 1st floor with shear walls and section capacities. Finally, the utilization of SigmaStud®, StiffWall®, and lighter-weight composite decking all led to a reduction in the overall cost of $750,000, and, more importantly, the project was completed ahead of an accelerated construction schedule of 10 months for the 200,000 square foot structure.
- **Venice Lofts - Manayunk, PA -**The six-story Venice Lofts project was constructed with SigmaStud® in conjunction with hollow-core plank as the floor system. Originally designed with "cee" sections as the bearing wall components, SigmaStud's value was quickly established through lighter sections. The installation included panelized walls, further speeding the construction process. The switch to SigmaStud® provided savings in materials and labor involved; from a significant reduction in total tonnage, to less members to handle, to more efficient fastening of the sheathing to the studs.
- **Wyndham Hotel, Gettysburg, PA -** The six-story Wyndham Hotel in Gettysburg, PA was constructed with SigmaStud® in conjunction with Hollow-Core plank as the floor system. Originally designed with a cast-in-place concrete floor system with block walls, TSN's free value engineering service helped to illustrate the savings potential relating to the utilization of SigmaStud® and StiffWall® with hollow-core concrete plank.

Recent Structural Analysis Work: (Performed by Applied Science International, LLC a TSN Subsidiary)

- **Fort Bragg Barracks, USA, 2011 -** Performed non-linear dynamic analysis of the composite deck floor system of a 4 story barracks building to resist progressive collapse.
- **ARAMCO Vapor Cloud Blast Assessment, Saudi Arabia, 2011 -** Non-linear dynamic analysis of three structures (masonry, steel, and reinforced concrete) under the effects of a vapor cloud explosion (VCE).
- **Ft. Hood WIT Barracks, USA, 2010 -** Non-linear dynamic progressive collapse analysis (UFC 4-023-03) of a 5 story barracks building consisting of a cold formed steel stud bearing wall system.
- **Ft. Sam Houston WIT Complex, USA, 2010 -** Non-linear dynamic progressive collapse analysis (UFC 4-023-03) of a 5 story barracks building consisting of a cold formed steel stud bearing wall system.