

Metalite, Inc. Technical Data Sheet

1. Product Name

Metalite, Inc. Pre-Engineered Cold-Formed Truss System

2. Manufacturer

Metalite, Inc.
4226 Oakwood Road
Oakwood, GA 30566
(800) 964-1209 toll-free
(770) 539-9366 office
(770) 539-9393 fax
www.metalite-inc.com



3. Product Description

Metalite, Inc. is a fully engineered, integrated load bearing steel truss system is designed for commercial construction projects. From planning, design, engineering, jobsite fabrication and complete installation, Metalite, Inc. provides a complete system eliminating the employment of other trades involved in roof trusses and metal decking.

Metalite, Inc. systems can be used for dormitory, assisted living, educational, apartments, townhomes, condominiums, military applications and commercial construction. The system is compatible with other building trades such as exterior plywood or metal sheathing.

Composition & Materials

Metalite, Inc. is made from cold formed steel with a protective zinc coating. Produced from high quality steel Metalite, Inc. design, engineers, fabricates and installs high performance load-bearing metal roof trusses.

Truss Components

Roof trusses are manufactured onsite with closed edges minimizes dangers during handling. Components without closed edges are prohibited. Unauthorized installation of components is prohibited without written consent of Metalite, Inc.

Cold formed steel components are manufactured from ASTM A1103/A1003M galvanized sheet steel with a minimum G60 coating (per ASTM A924/A924M) with yield strengths of Grade 33 or 50 indicated in shapes, sizes and thickness detailed on the shop drawings.

33 mil (20 gauge) Members

Minimum uncoated steel thickness – 0.0329" (0.84 mm)

Maximum design thickness – 0.0346" (0.88 mm)

43 mil (18 gauge) Members

Minimum uncoated steel thickness – 0.0428" (1.09 mm)

Maximum design thickness – 0.0451" (1.15 mm)

54 mil (16 gauge) Members

Maximum uncoated steel thickness – 0.0538" (1.37 mm)

Maximum design thickness – 0.0566" (1.44 mm)

68 mil (14 gauge) Members

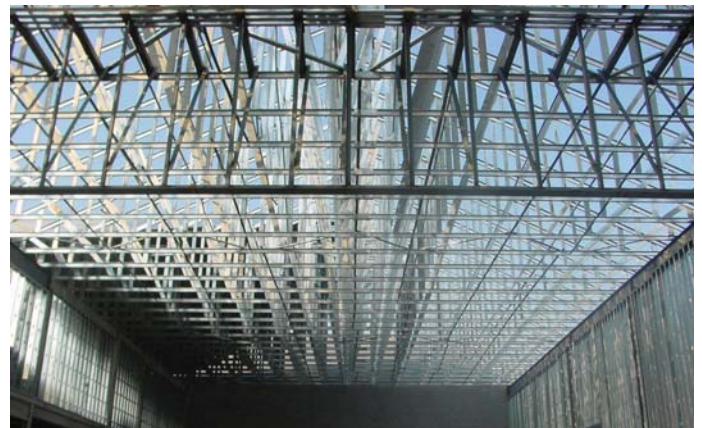
Maximum uncoated steel thickness – 0.0677" (1.72 mm)

Maximum design thickness – 0.07133" (1.81 mm)

97 mil (12 gauge) Members

Maximum uncoated steel thickness – 0.0966" (2.46 mm)

Maximum design thickness – 0.1017" (2.58 mm)



Fasteners

Metalite, Inc. will provide self-drilling, self tapping corrosion resistant screws of sufficient size and number to ensure strength of all connections, as specified by designer and engineer. All connections should be mechanically fastened.

Fabrication

Truss fabrication will be performed at the jobsite using a quality controlled manufacturing process used for over 20 years. Metalite, Inc has sufficient experience and designing and fabricating cold formed steel trusses equal in material, design, and extent to the system required for the project. The truss type will be fabricated as indicated on the drawings and specifications written and submitted by the designer and engineer. All components will be in compliance with the International Building Code (IBC).

Trusses, cords, webs, are jobsite fabricated in accordance with shop drawings and specifications using jiggling systems to ensure consistent component placement and alignment.

Limitations

Metalite, Inc. will provide load and span calculations. All designs will be reviewed by a qualified design professional familiar with the system and the requirements of the specific project.

4. Technical Data

American Iron and Steel Institute (AISI)

- AISI North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 Edition
- AISI Standard for Cold-Formed Framing – General Provisions, 2004 Edition
- AISI Standard for Cold-Formed Framing – Truss Design, 2004 Edition
- AISI Test Method for Effective Area of Cold Formed Steel Columns
- AISI Test Methods for Mechanically Fastened Cold-Formed Steel Connections

ASTM International

- ASTM A370 Standard Test Methods and Definitions for Mechanical Testing of Steel Products.
- ASTM A653/A653M Standard Specifications for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot Dip Process.
- ASTM A1003/A1003M Standard Specification for Sheet Steel, Carbon, Metallic and Non-metallic coated for Cold-Formed Framing Members.
- ASTM C1513-04 Standard Specification for Steel Tapping Screws for Cold Framed Steel Fastening Connections.

Environmental Considerations

Metalite, Inc. uses recycled steel with a minimum recycled content of greater than 59%

5. Installation

Metalite, Inc installs all projects by qualified professional installers. No need for outside trades such as sub-contractors to install Metalite, Inc products.

Building Codes

Current data on building codes requirements or product compliance can be obtained from Metalite. Installation will comply with all local, state and national code jurisdictions.

6. Availability and Cost

Metalite, Inc complete framing packages are available in the southeastern United States. Budget and installed cost information can be obtained from Metalite, Inc. by request.

7. Warranty

Contact Metalite, Inc directly for warranty information.

8. Maintenance

Metalite, Inc. systems require NO maintenance and will last the life of the installed structure when enclosed properly with a maintained roof cavity.

9. Technical Services

Metalite, Inc state of-the-art software will produce quality layout, design, engineering and shop drawings.

10. Filing Systems

- Sweets Catalog Files
- Metalite, Inc. product information available by request.