

CFS Trusses Subject to Corrosive Exposures

Purpose of this Bulletin

The following information is intended as an aid to the professional specifier when designing a building using galvanized cold-formed steel (CFS) members where the building structure will be exposed to a corrosive environment.

Information

Galvanized CFS steel members are typically manufactured using ASTM A653 steel with a G60 zinc coating. And, fasteners used in the construction of CFS steel structures are typically manufactured with a zinc coating. The zinc coatings provide the corrosion protection for the steel members. Refer to Technical Bulletin TB01.09.13, titled "Galvanization Standards", for other information regarding corrosion protection.

Responsibility

It is the responsibility of the TrusSteel Fabricator to transmit this information to the Engineer of Record or Architect and to assure that they understand it completely. Alpine suggests that TrusSteel fabricators keep a record of their trusses that go into any environments where those trusses may be exposed to a corrosive environment.

It is the responsibility of the Engineer of Record or Architect to determine if the use of CFS steel members is appropriate for use in a specific corrosive environment.

Recommendations

The following are recommendations that are to be followed when specifying CFS steel members for use in a corrosive environment. These recommendations are to be used as a guide to the specifier and they may not be the only recommendations needed to design an adequate corrosion-resistant system.

- Framing members/trusses must be isolated and protected by means of a ceiling vapor barrier.
- Roof areas where framing members/trusses are used to enclose a corrosive environment must be ventilated separately from other roof sections and enclosed areas.
- Framing members/trusses must be periodically inspected for signs of corrosion throughout the life of the structure. Any signs of "red rust" require immediate corrective action. If you choose to use a zinc-rich paint to repair a galvanized surface, you should contact the paint manufacturer and determine if that paint is suitable for use in your specific corrosive exposure.

Included Documents

None.

Revisions

- This bulletin was revised on 1/10/02.