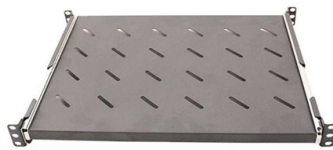


# Cable tray requirements for hydrogen-related sites



## Overview

Cable tray systems must comply with article 318 with respect to ampacity, grounding, fill, spacing and segregation of cable types. Cables must comply with their respective NEC articles and should be listed but in Division 2 locations it is not necessary that they be listed for. Your practical guide to selecting, certifying, and installing aluminum cable trays safely in Class I Div 2 / Zone 1 areas—where sparks or corrosion must be avoided. “Can I use aluminum cable trays near hydrogen gas?

What stops them from causing explosions?

” If you manage petrochemical plants or. Cable Trays have been permitted in the hazardous (classified) locations in the National Electrical Code for Class I (flammable vapor and gases) since the 1978 NEC and have been used extensively in chemical plants, refineries, and other types of facilities. Department of Energy (DOE) under Contract No. Seismic Category II cable trays and their supports are also designed utilizing the design criteria of this appendix. These code requirements are based on the 2005 edition of the Compressed Gases and Cryogenic Fluids Code (NFPA 55), the 2009 edition of the International Fire Code (IFC), and the 2009 edition.

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### Cable Trays In Hazardous (Classified) Locations | Cable Tray Institute

The acceptability of a cable tray system in a hazardous location (or any location) depends on the cable. Section 318-3 indicates that cable tray in hazardous locations shall contain only the cable types ...

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### Cable Tray SHIB NAL

As with any electrical equipment, cable trays and the wiring contained in the trays must be listed, labeled or otherwise approved, pursuant to the requirements of 29 CFR § 1910.303(a).

### Requirements for Hydrogen Storage and Use

This section is a broad overview of the fire and building code requirements for various quantities of hydrogen. A section number is listed in parenthesis after each code requirement.

### Appendix 3F Cable Trays and Cable Tray Supports

Cable ties are provided at spacing greater than 4 feet, thereby permitting cable movement within the trays. The damping ratio used for the cable tray system is dependent on the level of seismic input ...

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Can have a significant impact on the system size, layout, auxiliary power requirements, and operation Water usage and waste requirements may be challenging for some locations

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#### CABLETECH HAZARDOUS LOCATIONS

Any suitable type of wire or cable if installed in type PVC conduit, type RTRC conduit, and type HDPE encased in a concrete envelope a minimum of 50 mm (2 in.) thick and provided with not less than ...

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