

SECTION 16111

CABLE TRAYS

Part 1 -Design Directives

Cable tray may be specified for use within buildings for telecommunications, energy management and data wiring systems. The cable tray used for this purpose will be part of a complete raceway system. The cable tray will be used for the routing of data, energy management and communications wiring in vertical and horizontal spaces, exposed and concealed (but accessible) where necessary. Branches from the cable tray to individual utilization points shall be in EMT and the EMT shall be attached to the cable tray via an approved connector. This raceway assembly shall be grounded the same as any other raceway used in electrical systems.

Cable tray loading shall be reviewed with the Hanover Fire Department to determine if special sprinkler or fire alarm requirements are necessary due to quantity of cables installed in the tray.

Separation shall be maintained throughout the entire length of the cable tray for different wiring systems.

Part 2 -Products

Solid bottom aluminum cable tray with solid covers for exposed installations

Aluminum ladder tray for concealed spaces above suspended ceilings or exposed in mechanical rooms and closets.

Wire cage type tray for concealed installations above suspended ceilings or exposed in mechanical rooms and closets

Center rail type tray for concealed installations above suspended ceilings or exposed in mechanical rooms and closets

Part 3 -Execution

Cable tray shall be installed so that it is readily accessible for the addition of new generations of data, energy management and phone wiring systems. Cable tray shall be installed so that no part of the tray is directly over or under and parallel to any mechanical piping or duct systems. Tray shall be securely fastened to the building structure and shall not share supports with other non-electrical systems. Where tray penetrates floors in vertical runs it shall be fire stopped in accordance with standard fire stopping practices.