DIVISION 9 - FINISHES

Section 09100 - Metal Support Systems

Introduction

This section refers to light gauge metal framing and should use a "performance specification". Do not specify proprietary manufacturer's names or materials, and do not restrict vendors to a limited list.

Where not otherwise required by code and so to achieve greatest flexibility and cost efficiencies, non-bearing interior partitions shall be uninsulated, both sides fully sheathed, textured and painted full height terminating at the top plate 6” above ceiling, and laterally braced to structure above. Exceptions to this basic design standard requires that the Design Professional at the onset of the Schematic Design phase estimate the added cost of all interior partitions having thermal or acoustic insulation and/or extending partitions above ceilings to underside of structural deck. Approval for such exceptions is required by the PDC project manager.

In areas where partitions are subject to severe impact loads, and in situations where fixtures and appurtenances are intended to be supported directly from partitions, require the installation of backing and/or blocking in the partitions, according to the following criteria. Describe the locations for all backing and blocking on the drawings. Considerations for blocking are as follows:

Specify appropriate size/gauge of metal backing for support of heavy wall hung fixtures, handrails, etc., with a minimum load resistance capacity of 200 lbs. in any direction.

3-1/2" blocking at the bottom of heavy duty partitions where resilient floors are scheduled to be installed (to protect wall from floor cleaning equipment impacts)

Provide backing/blocking at points of attachments for small fixtures, toilet accessories, partitions, handrails, door stops, etc. Backing/blocking shall be minimum 2x6 wood or minimum 6”x16 gauge flat strapping.

Coordinate this Section closely with Section 09200 Lath and Plaster and Section 09250 Gypsum Board.

Part 1 – General

- These standards shall be applicable unless the partition or wall is specifically designed otherwise.
- All cold formed steel shall comply with Steel Stud Manufacturers Association (SSMA) and American Iron and Steel Institute (AISI).

Part 2 – Products

- Prescribe all studs to be minimum 20 gauge (steel stud gauge). Locate all studs at 16” OC. Specify minimum G60 studs for all interior wet walls.

Part 3 - Execution

- Require that all metal support systems attached to the structure above (including floor tracks, ceiling tracks, and perimeter wall studs) be installed using only drilled anchors. Powder driven fasteners are allowed if installed with minimum 1” long shot pins (.145 shank size) are used with the correct load. Maximum 16” OC.
- Specify neoprene gaskets under runner tracks and perimeter studs at acoustical-rated partitions. Floor runner tracks (and some ceiling tracks) to be set in a bead of caulking.

- Specify framing intersections and special conditions as follows:

    - Three studs or floating stud at all corners
    - Double 20 gauge studs at door jambs, and each side of openings & end of wall terminations
    - Double studs both sides of expansion joints
    - Specify slip track at ceiling conditions where deflection is anticipated.
    - Provide double studs at all door openings with studs secured together on both sides.
    - Provide intermediate bracing placed at 6’ OC. Provide minimum ¾” cold rolled channel bridging with clips at 48”.
    - Specify blocking and attachment devices to be provided where shelves or casework are installed.
    - All walls enclosing plumbing waste or vent lines to be appropriately sized to accommodate plumbing lines and/or 6” minimum in depth unless a chase is provided.
    - When splicing interior non-load bearing metal studs. Only use CFSEI.org approved designs for splicing of Cold formed steel studs.

End of Section 09100