

When the Trespa Meteon System is used, we need to ask what our vertical channels will be attached to.

We never want to assume that our vertical channels will align with the steel studs, because the panel joints and vertical channels may change after the studs are installed.

It is not our position to say what gauge horizontal strapping is to be used. That is for the Structural Engineer to determine, based upon the wind load and bldg height, etc. We need the vertical channels to be secured with bolts or screws (spec'd by the Structural Engineer) to have a pull-out strength to withstand whatever the wind load is for that area, attached every 30" going up the vertical channels. Sometimes they specify screws spaced closer than 30" with a lighter pull-out strength.

The issue for the Structural Engineer is that it is impossible to get very good pull-out strength with 5/8" plywood. They could use thicker plywood and space the vertical channel screws closer than 30", but it is easier and usually preferred to specify horizontal steel strapping spaced every 30". We have had projects in the past with 16 gauge studs mounted horizontally and notched around the vertical studs, and also projects with 14 ga flat strapping.

Dens Glass and drywall panels have no screw pull-out strength, so some sort of horizontal strapping will be required when DensGlas or drywall is used as the shear wall.

When CMU or block walls are used, they will provide more than enough anchorage with the proper bolt, Redhead, expansion shield, etc.

Our recommendation is to have the Structural Engineer on the job calc what is required, based upon the wind-loading of the area and the wall structure that our panels are being attached to.

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