



General

These details are provided as a guide for the use of the CleanSeam™ panels as interior walls, partitions and ceilings for typical processing applications utilizing the CleanSeam™ system's seamless FRP liner. For specific applications, modifications or variations of these details may be required. It is the responsibility of the project's designer to assure project details are appropriate for the intended use.

Current product specifications and performance certifications are available on-line at metlspan.com.

Note: the CleanSeam™ panels are not intended for exterior applications or fire resistance rated construction.

Support Framing & Connections

It is the responsibility of the project designer to determine the vertical and horizontal design loads imposed upon the panels and to design the required suspension and bracing system to resist those design loads. These details show methods of connecting suspension members to the panel assemblies.

Metl-Span's Technical Services is available to verify panel load/span and panel connections capabilities when provided with the job specific design load data.

Note: operating conditions, such as differential air pressures induced by the ventilation system and rapid temperature change must be considered within the design loads.

Panel Thickness

The panel thickness is a primary factor determining the thermal insulating value and the load/span capability of the CleanSeam™ panels. It is the responsibility of the project's designer to specify the appropriate wall and ceiling panel thickness required for the project's operating conditions and design loads.

Note: on some of these details, necessary panel thickness limitations are specified.

Vapor Barrier

When using the CleanSeam™ panels, the continuity of the FRP liner functions as a vapor barrier on the interior side of the walls and ceilings. It is the responsibility of the project's designer to determine if the project's environment and operating conditions require exterior vapor seals. Considering these are interior walls and ceilings, exterior vapor seals shown on these details are the default condition only in cases where the room's interior is specified to Metl-Span as being cooler than the surrounding ambient temperature.

FRP Liner Seams

The seamless continuity of the FRP liner is provided by the field applied CleanSeam™ Weld/Seal system which welds the FRP liner edges together at the panel side joints, wall to ceiling junctions and wall corner junctions. At these joints and junctions a 1/8" to 3/8" continuous gap is to be provided between the opposing liner edges or surfaces. The gap is required to allow the flow of weld/seam material into and behind the liner joint as necessary for a full strength joint weld.

the wall and ceiling panel side joints are designed to provide the required liner edge gap when the joints are properly assembled. At the wall to ceiling junctions, it is suggested to use shims between the adjacent panels to assure the required gap.

FRP Cover Trims

To maintain the seamless continuity of the interior liner system, it is intended that the panel framing and panel connections are applied to the exterior side of the panels. For conditions where the panel framing and connections can only be applied on the interior side, FRP trim profiles are available to cover the panel framing member and connection fasteners (such as the bottom flange of the Tuff Tee™ ceiling support). The application of the CleanSeam™ weld/Seam at the edges of the trim provides a seamless transition between trim and liner.

**APPLICATION:
PROCESSING**

**CLEANSEAM™
DISCLAIMER NOTES**

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