FRP CLEANSEAM™
INSULATED METAL WALL PANEL
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GENERAL:

These details are provided as a guide for the use of the FRP CLEANSEAM™ panels as perimeter walls and partitions for typical processing applications utilizing the FRP CLEANSEAM™ system's seamless smooth 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 FRP 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.

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 FRP 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 FRP CLEANSEAM™ panels, the continuity of the FRP liner functions as a vapor barrier on the interior side of the walls. 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.
GENERAL:

FRP Liner Seams
The seamless continuity of the FRP liner is provided by the field applied FRP CLEANSEAM™ Rigid Curing Sealant system which seals the FRP liner edges together at the panel side joints 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 seam material into and behind the liner joint as necessary for a full strength joint seam.

The wall panel side joints are designed to provide the required liner edge gap when the joints are properly assembled.

FRP PVC 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 PVC trim profiles are available to cover the panel framing member and connection fasteners. The application of the FRP CLEANSEAM™ Rigid Curing Sealant at the edges of the trim provides a seamless transition between trim and liner.
FRP CLEANSEAM™ PERIMETER WALL PANEL SECTION

T = PANEL THICKNESS
2", 3", 4", 5" OR 6"

INTERIOR FACE 1)
22 GA. 24 GA. OR 26 GA. STEEL
SLIGHT MESA ON MESA PROFILE
EGLOR WHITE/POLYESTER

Exterior face 1)
22 GA. 24 GA. OR 26 GA. STEEL
(EMBOSSED MESA PROFILE)
EGLOR WHITE/POLYESTER

FRP CLEANSEAM™
SMOOTH FRP FACE

INSULATION CORE

FEMALE END

NOTE
SMOOTH FRP SIDE,
EMBOSSED MESA PROFILE ONLY

MALE END

PANEL COVERAGE 3'-4' [122]

DIRECTION OF INSTALLATION

FRP CLEANSEAM™ PARTITION WALL PANEL SECTION

T = PANEL THICKNESS
2", 3", 4", 5" OR 6"

INTERIOR FACE 1)
22 GA. 24 GA. OR 26 GA. STEEL
SMOOTH FRP FACE

Exterior face 1)
22 GA. 24 GA. OR 26 GA. STEEL
(EMBOSSED MESA PROFILE)
EGLOR WHITE/POLYESTER

FRP CLEANSEAM™
SMOOTH FRP FACE

INSULATION CORE

FEMALE END

NOTE
SMOOTH FRP SIDE,
EMBOSSED MESA PROFILE ONLY

MALE END

PANEL COVERAGE 3'-4' [122]

DIRECTION OF INSTALLATION
FRP CLEANSEAM™ PERIMETER WALL PANEL JOINT SECTION

FRP CLEANSEAM™ PARTITION WALL PANEL JOINT SECTION

APPLICATION:  
PROCESSING

PERIMETER AND PARTITION WALL - CF 44.4"  
FRP CLEANSEAM™

DRAWING NO:  
CSM-PJ-02

DATE:  
APRIL '20

REV:  
00
NOTE:
DUE TO LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE. DETAIL IS INTENDED FOR CONDITIONS WITH TEMPERATURE DIFFERENCE BETWEEN THE TWO SIDES.

T = PANEL THICKNESS
4", 5" OR 6"

NOTE:
FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.

APPLICATION: PROCESSING
PARTITION WALL - COOLER BASE
FRP CLEANSEAM™

DRAWING NO: CSM-BE-01A
DATE: APRIL '20
REV: 00
T = PANEL THICKNESS
2", 3", 4", 5" OR 6"

WARM

METL-SPAN
FRP CLEANSEAM™ PANEL

FRP CLEANSEAM™
SMOOTH FRP FACE

PANEL JOINT BUTYL SEALANT
SHOWN IS RECOMMENDED
FOR WASH DOWN APPLICATION

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.

PVC BASE TRIM
FRP CLEANSEAM™
RIGID CURING SEALANT
(Field Applied)

ADHESIVE TAPE
(Field Applied)

FINISH FLOOR

ADHESIVE TAPE
(Field Applied)

CONC. FASTENERS
(Not By METL-SPAN)

CONC. SLAB
(Not By METL-SPAN)

16 GA. GALV.
10' BASE CHANNEL

POLYURETHANE
TUBE SEALANT

APPLICATION:
PROCESSING

PERIMETER WALL
BASE
FRP CLEANSEAM™

DRAWING NO:
CSM-BE-02

DATE:
APRIL '20

REV:
00
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.

NOTE:
DUE TO LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE. DETAIL IS INTENDED FOR CONDITIONS WITH TEMPERATURE DIFFERENCE BETWEEN THE TWO SIDES.

T = PANEL THICKNESS
4", 5" OR 6"

METL-SPAN FRP CLEANSEAM™ PANEL
FRP CLEANSEAM™ SMOOTH FRP FACE

NOTE:
PANEL JOINT BUTYL SEALANT SHOWN IS OPTIONAL ON COLD SIDE

FRP CLEANSEAM™ RIGID CURING SEALANT (FIELD APPLIED)
ADHESIVE TAPE (FIELD APPLIED)
1/4"-12 X 1" PH TYPE 3 @ 12" O.C.
PVC BASE TRIM FRP CLEANSEAM™ RIGID CURING SEALANT (FIELD APPLIED)

FINISH FLOOR
ADHESIVE TAPE (FIELD APPLIED)
10" - 16 GA. GALV. ANGLE
POLYURETHANE TUBE SEALANT
CONC. FASTENERS (NOT BY METL-SPAN)
THERMAL BREAK INSULATION STRIP (NOT BY METL-SPAN)

NON-SKINNING BUTYL TUBE SEALANT
CONC. SLAB (NOT BY METL-SPAN)
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
CURB REQUIRED FOR COOLERS.

NOTE:
DUE TO LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE. DETAIL IS INTENDED FOR CONDITIONS WITH TEMPERATURE DIFFERENCE BETWEEN THE TWO SIDES.

T = PANEL THICKNESS
4", 5" OR 6"
NOTE:

4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
Curb required for coolers.

NOTE:
DUE TO LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE. DETAIL IS INTENDED FOR CONDITIONS WITH TEMPERATURE DIFFERENCE BETWEEN THE TWO SIDES.
NOTE:

4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
(SPACE ABOVE CEILING MUST BE VENTILATED)

HANGER ROD
(NOT BY METL-SPAN)

SEALANT
(NOT BY METL-SPAN)

NOTE:
16 GA. 2" X 2" ANGLE (NON-WALKABLE)
14 GA. 2" X 2" ANGLE (WALKABLE)

ROD INSULATION
(NOT BY METL-SPAN)

SEALANT
(NOT BY METL-SPAN)

#14 X (T+1)" PANCAKE HEAD
TYPE 3 @ 12" O.C.

CORNER TRIM
[F5190]

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.

F.I.P. INSULATION
(NOT BY METL-SPAN)

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.

16 GA. GALV.
10" CHANNEL

SEALANT TAPE

1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 8" O.C.

METL-SPAN
FRP CLEANSEAM™ PANEL

T = PANEL THICKNESS
2", 3", 4", 5" OR 6"

T = PANEL THICKNESS
3" (NON-WALKABLE)
4", 5" OR 6" (WALKABLE)

FRP CLEANSEAM™ RIGID CURING SEALANT
(FIELD APPLIED)

ADHESIVE TAPE
(FIELD APPLIED)

INTERIOR PVC CORNER TRIM

METL-SPAN
INSULATED CEILING PANEL

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.

10"-16 GA. GALV.
2" X 2" ANGLE

WARM

WARM

APPLICATION:
PROCESSING

PERIMETER WALL TO CEILING
FRP CLEANSEAM™

CSM-CG-01
APRIL '20
00

DRAWING NO:

DATE:

REV:
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.

(SPACE ABOVE CEILING MUST BE VENTILATED)

HANGER ROD (NOT BY METL-SPAN)
SEALANT (NOT BY METL-SPAN)

#14 X (T+1") PANCAKE HEAD
TYPE 3 @ 12" O.C.

ROD INSULATION (NOT BY METL-SPAN)
SEALANT (NOT BY METL-SPAN)

FRP CLEANSEAM™
RIGID CURING SEALANT (FIELD APPLIED)
ADHESIVE TAPE (FIELD APPLIED)
10"-16 GA. GALV.
2" X 2" ANGLE
INTERIOR PVC CORNER TRIM
FIELD CUT THERMAL BREAK
F.I.P. INSULATION (NOT BY METL-SPAN)
FRP CLEANSEAM™ SMOOTH FRP FACE

T = PANEL THICKNESS
4", 5" OR 6"

C = PANEL THICKNESS
3" (NON-WALKABLE)
4", 5" OR 6" (WALKABLE)

COLD

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.
16 GA. GALV.
10" CHANNEL

1/4"-12 X 1" PH
TYPE 3 @ 12" O.C.
ADHESIVE TAPE (FIELD APPLIED)
FRP CLEANSEAM™
RIGID CURING SEALANT (FIELD APPLIED)
FRP CLEANSEAM™ SMOOTH FRP FACE
NOTE:
FRP CLEANSEAM™ SMOOTH FRP FACE
SHOWN IS OPTIONAL ON COLD SIDE

WARM

16GA. 2" X 2" ANGLE (NON-WALKABLE)
14GA. 2" X 2" ANGLE (WALKABLE)
NOTE:
4", 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.
16' LENGTH
10' LENGTH
10' LENGTH