FRP CLEANSEAM™
INSULATED METAL WALL PANEL
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PVC TRIMS

9550PVC PVC BASE TRIM
9560PVC PVC JOINT COVER TRIM
9570PVC PVC HEF-T TRIM
9580PVC INTERIOR PVC CORNER TRIM
9590PVC EXTERIOR PVC CORNER TRIM
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™ PANEL JOINT SECTION

**PERIMETER WALL**

- **FRP CLEANSEAM™ PANEL**
- **METL-SPAN**
- **INTERIOR (FACE 2)**
  - 22 GA, 24 GA, OR 26 GA, STEEL
  - (LIGHT MESA OR MESA PROFILE)
  - IGLOO WHITE/POLYESTER
- **EXTIOR (FACE 1)**
  - 22 GA, 24 GA, OR 26 GA, STEEL
  - (EMBOSSSED MESA PROFILE)
  - IGLOO WHITE/POLYESTER
- **NON-SKINNING BUTYL JOINT SEALANT**
  - (FIELD APPLIED, IF REQUIRED)
- **FRP CLEANSEAM™ RIGID CURING SEALANT**
  - (FIELD APPLIED)
- **FRP CLEANSEAM™ SMOOTH FRP FACE**
- **T = PANEL THICKNESS**
  - 2", 3", 4", 5" OR 6"

**PARTITION WALL**

- **FRP CLEANSEAM™ PANEL**
- **METL-SPAN**
- **INTERIOR (FACE 2)**
  - 22 GA, 24 GA, OR 26 GA, STEEL
  - (LIGHT MESA OR MESA PROFILE)
  - IGLOO WHITE/POLYESTER
- **EXTIOR (FACE 1)**
  - 22 GA, 24 GA, OR 26 GA, STEEL
  - (EMBOSSSED MESA PROFILE)
  - IGLOO WHITE/POLYESTER
- **NON-SKINNING BUTYL JOINT SEALANT**
  - (FIELD APPLIED, IF REQUIRED)
- **FRP CLEANSEAM™ RIGID CURING SEALANT**
  - (FIELD APPLIED)
- **FRP CLEANSEAM™ SMOOTH FRP FACE**
- **T = PANEL THICKNESS**
  - 2", 3", 4", 5" OR 6"

**Dimensions:**
- \( \frac{3}{16} \)" NOMINAL GAP
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"

FRP CLEANSEAM™
SMOOTH FRP FACE

FRP CLEANSEAM™
RIGID CURING SEALANT (FIELD APPLIED)

ADHESIVE TAPE (FIELD APPLIED)
CONTINUOUS NON-SKINNING BUTYL TUBE SEALANT W/ MARRIAGE BEAD TO PANEL JOINT SEALANT

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)
10'-16 GA. GALV. ANGLE
NON-SKINNING BUTYL TUBE SEALANT
POLYURETHANE TUBE SEALANT

CONC. FASTENERS (NOT BY METL-SPAN)
CONC. SLAB (NOT BY METL-SPAN)

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

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

PERIMETER WALL - COOLER BASE
FRP CLEANSEAM™
T = PANEL THICKNESS
2", 3", 4", 5" OR 6"

WARM

FRP CLEANSEAM™
SMOOTH FRP FACE

FRP CLEANSEAM™ RIGID CURING SEALANT
(FIELD APPLIED)

COMPOSITE CURB
(RECOMMENDED,
NOT BY METL-SPAN)

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

PANEL JOINT BUTYL SEALANT
SHOWN IS RECOMMENDED
FOR WASH DOWN APPLICATION

16 GA. GALV.
10" BASE CHANNEL

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

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

FRP CLEANSEAM™ RIGID CURING SEALANT
(FIELD APPLIED)

POLYURETHANE TUBE SEALANT

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

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

URETHANE FLOORING
(RECOMMENDED, NOT BY METL-SPAN)

CONC. FASTENERS
(NOT BY METL-SPAN)

CONC. SLAB
(NOT BY METL-SPAN)

WARM

METL-SPAN FRP CLEANSEAM™ PANEL

FRP CLEANSEAM™ RIGID CURING SEALANT
(FIELD APPLIED)

COMPOSITE CURB
(RECOMMENDED,
NOT BY METL-SPAN)

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

PANEL JOINT BUTYL SEALANT
SHOWN IS RECOMMENDED
FOR WASH DOWN APPLICATION

FINISH FLOOR
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.

WARM

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

COLD

METL-SPAN
FRP CLEANSEAM™ PANEL
FRP CLEANSEAM™ RIGID CURING SEALANT
(SMOOTH FRP FACE)
(FIELD APPLIED)

COMPOSITE CURB
(RECOMMENDED,
NOT BY METL-SPAN)

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

NON-SKINNING BUTYL TUBE SEALANT

FRP CLEANSEAM™ RIGID CURING SEALANT
(FIELD APPLIED)

COMPOSITE CURB ADHESIVE
(NOT BY METL-SPAN)

10'-16 GA. GALV. ANGLE

1/4" X 12 X 1" PH

TYPE 3 @ 12" O.C.

URETHANE FLOORING
(RECOMMENDED, NOT BY METL-SPAN)

POLYURETHANE
TUBE SEALANT

CONC. FASTENERS
(NOT BY METL-SPAN)

CONC. SLAB
(NOT BY METL-SPAN)

THERMAL BREAK
INSULATION STRIP
(NOT BY METL-SPAN)

FINISH FLOOR

APPLICATION: BASE WITH COMPOSITE CURB - COOLER
FRP CLEANSEAM™

DRAWING NO:
CSM-BE-03A

DATE:
APRIL '20

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

WARM

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

COLD

FRP CLEANSEAM™ SMOOTH FRP FACE
NOTE:
PANEL JOINT BUTYL SEALANT SHOWN IS OPTIONAL ON COLD SIDE
METL-SPAN FRP CLEANSEAM™ PANEL
FRP CLEANSEAM™ RIGID CURING SEALANT (FIELD APPLIED)
ADHESIVE TAPE (FIELD APPLIED)
CONTINUOUS NON-SKINNING BUTYL TUBE SEALANT W/ MARRIAGE BEAD TO PANEL JOINT SEALANT
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)
10" - 16 GA. GALV. ANGLE
NON-SKINNING BUTYL TUBE SEALANT
POLYURETHANE TUBE SEALANT
CONC. FASTENERS (NOT BY METL-SPAN)

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.

URETHANE FLOORING (RECOMMENDED, NOT BY METL-SPAN)
CONCRETE CURB (NOT BY METL-SPAN)
THERMAL BREAK INSULATION STRIP (NOT BY METL-SPAN)
POLYURETHANE TUBE SEALANT
CONC. FASTENERS (NOT BY METL-SPAN)
10" - 16 GA. GALV. ANGLE

APPLICATION: PROCESSING
BASE WITH CONCRETE CURB - COOLER
FRP CLEANSEAM™
DRAWING NO: CSM-BE-04A
DATE: APRIL '20
REV 00
COLD

#14 X 3" PANCAKE HEAD
TYPE 3 @ 12" O.C.

EXTERIOR PVC
CORNER TRIM

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

ADHESIVE TAPE
(FIELD APPLIED)

FRP CLEANSEAM™ RIGID
CURING SEALANT
(FIELD APPLIED)

FRP CLEANSEAM™ SMOOTH FRP FACE

METL-SPAN
FRP CLEANSEAM™ PANEL

FRP CLEANSEAM™ SMOOTH FRP FACE

METL-SPAN
FRP CLEANSEAM™ PANEL

SEALANT TAPE

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

10'-16 GA. GALV. ANGLE

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

METL-SPAN
FRP CLEANSEAM™ PANEL

CORNER TRIM

WARM

NOTE:
Panel corners must be
protected by bollards
(NOT BY METL-SPAN)

T = PANEL THICKNESS
2"

T = PANEL THICKNESS
2"
NOTE:

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

**PERIMETER WALL TO CEILING**

**FRP CLEANSEAM™**

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

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

**WARM**

- **#14 X (T+1)" PANCAKE HEAD TYPE 3 @ 12" O.C.**
- **CORNER TRIM [FS190]**
- **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**
- **3" (NON-WALKABLE)**
- **4.5" OR 6" (WALKABLE)**

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**MEXTL-SPAN INSULATED CEILING PANEL**

- **1/4"-12 X 1" PH TYPE 3 @ 12" O.C.**
- **10' - 16 GA. GALV. 2" X 2" ANGLE**
- **INTERIOR PVC CORNER TRIM**
- **ADHESIVE TAPE (FIELD APPLIED)**
- **FRP CLEANSEAM™ RIGID CURING SEALANT (FIELD APPLIED)**
- **FRP CLEANSEAM™ SMOOTH FRP FACE**

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**CSM-CG-01**

**DATE:** APRIL '20

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

(SPAC above ceiling must be ventilated)

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

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

CORNER TRIM
[F=190]

VAPOR BARRIER
(NOT BY METL-SPAN)

FIELD CUT
THERMAL BREAK

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

ROD INSULATION
(NOT BY METL-SPAN)

SEALANT
(NOT BY METL-SPAN)

SEALANT TAPE

1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 6" O.C.

METL-SPAN
FRP CLEANSEAM™ PANEL

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

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

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

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

C

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

COLD

METL-SPAN
INSULATED CEILING PANEL
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:
PANEL JOINT BUTYL SEALANT
SHOWN IS OPTIONAL ON COLD SIDE

WARM

#14 X (T+1/2") PANCake HEAD
TYPE 3 @ 12" O.C.
FRP CLEANSEAM™
10'-16 GA. GALV.
2" X 2" ANGLE
SEALANT
(NOT BY METL-SPAN)
ROD INSULATION
(NOT BY METL-SPAN)
SEALANT
(NOT BY METL-SPAN)
HANGER ROD
(NOT BY METL-SPAN)

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

4". 5" OR 6" FRP CLEANSEAM™ PANEL RECOMMENDED FOR COOLERS.

(SPACE ABOVE CEILING MUST BE VENTILATED)
10' LENGTH
16' LENGTH
10' LENGTH