COLD STORAGE
APPLICATION
INSULATED METAL WALL PANEL
INDEX:

GENERAL:
CS-IN-01 INDEX SHEET
CS-INFO-01 DISCLAIMER NOTES
CS-INFO-02 SEALANTS & FASTENERS

PANEL JOINT:
CS-PJ-01 CF PANEL JOINT - FREEZER OR COOLER
CS-PJ-02 CFR AND CF45 PANEL JOINT - FREEZER OR COOLER

FASTENING:
CS-FSTN-01A PANEL ATTACHMENT - LIGHT GAUGE - SIDE JOINT ONLY
CS-FSTN-01B PANEL ATTACHMENT - HEAVY GAUGE - SIDE JOINT ONLY
CS-FSTN-01C PANEL ATTACHMENT - LIGHT GAUGE - SIDE JOINT AND BULB-TITE
CS-FSTN-01D PANEL ATTACHMENT - LIGHT GAUGE - SIDE JOINT AND GIRT CLIPS W/BULB-TITE
CS-FP-1-2 FASTENING PATTERN FP1 AND FP2
CS-FP-3-4 FASTENING PATTERN FP3 AND FP4
CS-FP-5-6 FASTENING PATTERN FP5 AND FP6
CS-FP-7-8 FASTENING PATTERN FP7 AND FP8
CS-FP-9-10 FASTENING PATTERN FP9 AND FP10

WITH PART NUMBERS

BASE:
CS-BE-01-A BASE - FREEZER OR COOLER
CS-BE-02-A BASE - COOLER
CS-BE-03-A LOW ROOF/HIGH WALL INTERSECT - FREEZER OR COOLER
CS-BE-04-A BASE - COOLER
CS-BE-05-A BASE W/O INSULATION - COOLER
CS-BL-01-A BASE @ LINER WALL W/CHANNEL - FREEZER
CS-BP-01-A BASE W/CHANNEL - FREEZER/FREEZER
CS-BP-01A-A BASE W/ANGLE - FREEZER/FREEZER
CS-BP-02-A BASE W/CHANNEL - FREEZER/FREEZER
CS-BP-03-A BASE - COOLER/AMBIENT
CS-BP-04-A BASE - COOLER/COOLER OR AMBIENT/AMBIENT
CS-BP-05-A BASE W/CHANNEL - COOLER
CS-BP-05A-A BASE W/ANGLE - COOLER
CS-BP-06-A BASE W/CHANNEL
CS-BP-06A-A BASE W/ANGLE

STACK JOINT:
CS-SJ-01-A STACK JOINT - FREEZER OR COOLER
INDEX:

WITH PART NUMBERS

CORNER:
CS-CE-01-A OUTSIDE CORNER - TUBE SUPPORT - FREEZER/FREEZER
CS-CE-02-A OUTSIDE CORNER - FREEZER/FREEZER
CS-CE-03-A INSIDE CORNER - FREEZER/FREEZER
CS-CL-01-A LINER CORNER - FREEZER OR COOLER
CS-CP-01-A PARTITION CORNER - FREEZER OR COOLER
CS-CP-02-A WALL INTERSECTION - FREEZER OR COOLER
CS-CP-03-A WALL INTERSECTION - FREEZER OR COOLER
CS-CP-04-A WALL INTERSECTION - FREEZER OR COOLER

CEILING:
CS-CG-03-A CEILING SUPPORT W/CHANNEL AND COVER TRIM - FREEZER OR COOLER
CS-CG-04-A CEILING SUPPORT - HEF-T - FREEZER OR COOLER
CS-CG-05-A CEILING PANEL JOINT W/ALUMINUM HEF-T & SPLICE ASSEMBLY
- FREEZER OR COOLER
CS-CG-05A-A ALUMINUM HEF-T W/HANGER RODS & SPLICE ANGLE ASSEMBLY
- FREEZER OR COOLER
CS-CG-06-A CEILING SUPPORT - FREEZER OR COOLER
CS-CG-07-A CEILING SUPPORT - FREEZER OR COOLER
CS-CG-08-A CEILING SUPPORT - FREEZER OR COOLER
CS-CG-09-A CEILING SUPPORT - FREEZER OR COOLER
CS-CG-10-A CEILING SUPPORT - FREEZER OR COOLER
CS-CG-11-A CEILING SUPPORT - 8" S-CLIP TO HANGER ROD - FREEZER OR COOLER
CS-CG-12-A CEILING SUPPORT - 8" S-CLIP @ BUTT JOINT - FREEZER OR COOLER

EAVE/PARAPET/WALL TO ROOF:
CS-EE-01-A EAVE - FREEZER OR COOLER
CS-EE-02-A EAVE W/GUTTER - FREEZER OR COOLER
CS-PT-01-A PARAPET - FREEZER OR COOLER
CS-WR-01-A WALL TO ROOF - FREEZER/COOLER OR COOLER/AMBIENT
CS-WR-02-A WALL TO ROOF - COOLER/COOLER OR AMBIENT/AMBIENT
CS-WR-02A-A WALL TO ROOF - COOLER/COOLER OR AMBIENT/AMBIENT
CS-WR-03-A LOW ROOF/HIGH ROOF INTERSECT - FREEZER OR COOLER

WALL TO CFR:
CS-CFR-EV-01-A LOW EAVE - FREEZER OR COOLER
CS-CFR-EV-G1-A LOW EAVE WITH NORTHERN GUTTER - FREEZER OR COOLER
CS-CFR-EV-G3-A LOW EAVE WITH STANDARD GUTTER - FREEZER OR COOLER
CS-CFR-EV-02-A HIGH EAVE - FREEZER OR COOLER
CS-CFR-RK-01-A RAKE WITH HIGH PROFILE TRIM - FREEZER OR COOLER
CS-CFR-AT-01-A INTERMEDIATE ATTACHMENT - FREEZER OR COOLER
CS-CFR-EL-01-A ENDLAP ATTACHMENT - FREEZER OR COOLER
CS-CFR-RG-01-A RIDGE - FREEZER OR COOLER
CS-CFR-TR-09-A TRANSITION - FREEZER OR COOLER

APPLICATION:
COLD STORAGE

INDEX SHEET

DRAWING NO:
CS-INDEX-02-A

DATE: JUN '20

REV: 00
DISCLAIMER:

THESE DETAILS ARE BASED ON INDUSTRY ACCEPTED PRACTICES AND PROVIDE A GUIDELINE FOR PROPER INSULATED METAL PANEL AND COMPONENT INSTALLATION.


FOR PROJECTS LOCATED IN EXTREMELY COLD CLIMATES, EXPOSED TO HIGH WIND-DRIVEN RAIN OR UNUSUAL INTERIOR CONDITIONS (SUSTAINED TEMPERATURES BELOW 65°F), IT MAY BE ADVISABLE TO MODIFY THE VAPOR BARRIER (JOINT SEALANT) LOCATION, OR TO ADD OPTIONAL EXTERIOR JOINT SEALANTS.

IT IS THE SOLE RESPONSIBILITY OF THE PROJECT ARCHITECT TO VERIFY VAPOR BARRIER LOCATION, INSULATION REQUIRED BY CODE AND HVAC EQUIPMENT/VENTILATION REQUIREMENTS TO ALLOW PROPER AIR FLOW AND THE PREVENTION OF CONDENSATION.

IT IS ALSO THE SOLE RESPONSIBILITY OF THE PROJECT ARCHITECT TO DETERMINE PROJECT-SPECIFIC DESIGN LOADS. METL-SPAN TECHNICAL SERVICES IS AVAILABLE TO VERIFY ALLOWABLE PANEL SPANS AND FASTENING REQUIREMENTS WHEN PROVIDED WITH THIS INFORMATION.

THE DETAILS CONTAINED HEREIN SHOW SIDE JOINT FASTENING ONLY. PLEASE CONTACT METL-SPAN TECHNICAL SERVICES FOR PROJECT-SPECIFIC FASTENING REQUIREMENTS.

ALL STRUCTURAL SUPPORTS ARE SHOWN FOR CLARITY ONLY, AND ARE NOT PROVIDED BY METL-SPAN.
SEALANTS, FASTENERS & CLOSURE MATERIAL:

BUTYL CAULK: FOR COMMERCIAL/INDUSTRIAL PROJECTS THE CAULK IS USUALLY APPLIED TO THE INTERIOR JOINT FEMALE POCKET (SEE DISCLAIMER). BUTYL CAULK IS ALSO USED TO CREATE "MARRIAGE BEADS" WHICH TIE THE PANEL SIDEJOINT VAPOR SEALS TO PANEL ENDJOINT VAPOR SEALS. BUTYL CAULK IS CONSIDERED "NON-SKINNING", WHICH MEANS IT STAYS SOFT, FLEXIBLE, AND DOES NOT HARDEN. BUTYL CAULK IS FOR UNEXPOSED AREAS ONLY, AND CANNOT BE USED WHERE IT WILL BE EXPOSED TO WEATHER OR SUNLIGHT.

BUTYL SEALANT TAPE: APPLIED BETWEEN FLASHINGS AND PANELS TO FORM A WEATHERTIGHT SEAL. ALL FASTENERS PENETRATING THE FLASHING MUST BE INSERTED THROUGH THE SEALANT TAPE.

URETHANE CAULK: USED IN LIEU OF BUTYL SEALANT WHERE THERE IS EXPOSURE TO THE ELEMENTS. IT IS RECOMMENDED FOR LAPPED TRIMS, EXPOSED PERIMETER SEALS AT FRAMED OPENINGS OR TO SEAL BETWEEN DIFFERENT CONSTRUCTION MATERIALS, SUCH AS METAL TO CONCRETE.

PANEL FASTENERS: INSULATED METAL PANEL FASTENERS ARE GENERALLY EITHER SELF-DRILLING/SELF-TAPPING (ALSO KNOWN AS TEK SCREWS), OR SELF-TAPPING (ALSO KNOWN AS B POINT SCREWS).

TEK FASTENERS CONTAIN A BUILT-IN DRILL POINT, AND DO NOT REQUIRE PRE-DRILLING. THEY ARE THE QUICKEST AND EASIEST WAY TO ATTACH PANELS TO LIGHT-MEDIUM GAUGE SUPPORTS.

B POINT FASTENERS REQUIRE A TWO-STEP OPERATION: FIRST HOLES ARE PRE-DRILLED INTO THE PANEL AND STRUCTURAL SUPPORT WITH AN APPROPRIATE SIZED BIT, THEN THE FASTENER IS INSERTED INTO THE HOLE AND TIGHTENED. B POINTS ARE TYPICALLY USED TO ATTACH PANELS TO MEDIUM-HEAVY GAUGE SUPPORTS THAT ARE NOT PENETRABLE BY TEK FASTENERS. IT IS IMPORTANT THAT THE PRE-DRILLED HOLES ARE SIZED CORRECTLY FOR THE FASTENERS TO ACHIEVE PROPER PULLOUT VALUES.

BULB-TITE® RIVETS: ARE SIMILAR TO EXPANSION FASTENERS, AND ARE USED WHERE BACK FASTENING OF THE PANELS TO STRUCTURAL SUPPORTS IS REQUIRED. HOLES MUST BE PRE-DRILLED WITH A 5/16" DIAMETER. THE GRIP RANGE OF THE RIVETS MUST BE MATCHED TO THE THICKNESS OF THE STRUCTURAL SUPPORT TO ENSURE PROPER FASTENING.
CF42
FLUTE/MESA OR LIGHT MESA

WT = WALL THICKNESS
4", 5", 6" OR 8"

NOTE:
FIELD APPLY 1/2" CONTINUOUS BEAD OF
BUTYL SEALANT IN INTERIOR FEMALE GROOVE
BEFORE INSTALLING ON THE WARM SIDE OF PANEL
OR AS SPECIFIED PER JOB REQUIREMENTS.

CF42
MESA/MESA OR MESA/LIGHT MESA

WT = WALL THICKNESS
4", 5", 6" OR 8"

NOTE:
FIELD APPLY 1/2" CONTINUOUS BEAD OF
BUTYL SEALANT IN INTERIOR FEMALE GROOVE
BEFORE INSTALLING ON THE WARM SIDE OF PANEL
OR AS SPECIFIED PER JOB REQUIREMENTS.

CF42
LIGHT MESA/LIGHT MESA
(INTERIOR ONLY)

WT = WALL THICKNESS
8"

NOTE:
FIELD APPLY 1/2" CONTINUOUS BEAD OF
BUTYL SEALANT IN INTERIOR FEMALE GROOVE
BEFORE INSTALLING ON THE WARM SIDE OF PANEL
OR AS SPECIFIED PER JOB REQUIREMENTS.
RT = ROOF THICKNESS
4", 5" OR 6"
(TYPICAL FOR COLD STORAGE)
2", 2 1/2" OR 3"
(PLEASECONTACT TECH SERVICES)

NOTE:
FIELD APPLIED 1/4" CONTINUOUS BEAD OF
BUTYL SEALANT IN INTERIOR FEMALE GROOVE
MAY BE REQUIRED IN COOL STORAGE. PROJECT ENGINEER
RESPONSIBLE FOR STATING REQUIREMENTS.

CFR42
MESA/MESA

WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN
INSULATED PANEL

CF45
MESA/MESA OR
LIGHT MESA/LIGHT MESA

APPLICATION:
COLD STORAGE
CFR AND CF45 PANEL JOINT
FREEZER OR COOLER
FASTENING PATTERN 1
SIDE JOINT FASTENING

DIMENSION IS FROM
FEMALE EDGE +/- 1.5"

10.5"

FASTENING PATTERN 2
SIDE JOINT FASTENING
AND ONE DOME HEAD BULB-TITE® RIVET

INSTALL RIVET THROUGH GIRT FLANGE INTO
MESA WHERE THE SKIN MAKES CONTACT
WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO
MEET SPECIFIC LOAD REQUIREMENTS)
DIMENSION IS FROM FEMALE EDGE +/- 1.5"

(FP3)

FASTENING PATTERN 3
SIDE JOINT FASTENING
AND TWO DOME HEAD BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

DIMENSION IS FROM FEMALE EDGE +/- 1.5"

(FP4)

FASTENING PATTERN 4
SIDE JOINT FASTENING
WITH THREE DOME HEAD BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
DIMENSION IS FROM FEMALE EDGE +/- 1.5"  

(FP5)  

FASTENING PATTERN 5  
SIDE JOINT FASTENING  
AND BACK FASTENING WITH  
FOUR DOME HEAD BULB-TITE® RIVETS  

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL  

DIMENSION IS FROM FEMALE EDGE +/- 1.5"  

(FP6)  

FASTENING PATTERN 6  
SIDE JOINT FASTENING  
AND ONE GIRT CLIP WITH TWO DOME HEAD BULB-TITE® RIVETS  

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL  

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
DIMENSION IS FROM FEMALE EDGE +/- 1.5"

10.5"  10.5"

(FP7)

FASTENING PATTERN 7
SIDE JOINT FASTENING
AND TWO GIRT CLIPS WITH FOUR DOME HEAD
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

DIMENSION IS FROM FEMALE EDGE +/- 1.5"

10.5"  10.5"  10.5"

(FP8)

FASTENING PATTERN 8
SIDE JOINT FASTENING
WITH THREE GIRT CLIPS WITH SIX DOME HEAD
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE INTO MESA WHERE THE SKIN MAKES CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
FASTENING PATTERN 9
WITH FOUR SELF-TAPPING SCREWS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

FASTENING PATTERN 10
WITH FIVE SELF-TAPPING SCREWS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)
NOTE: DUE TO THE LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE.

WARM
- METL-SPAN INSULATED PANEL
- FIELD APPLIED 3/4" CONTINUOUS BEAD OF NON-SKINNING BUTYL TUBE SEALANT IN FEMALE GROOVE ON WARM SIDE.
- ELASTOMERIC SEALANT [J7203EGR] ON TOP OF POURABLE URETHANE [J720ZUGR] W/MARRIAGE BEAD TO PANEL JOINT SEALANT
- 12 X 1" HWH TYPE 3 W/WASHER @ 12" O.C. [17]
- NON-SKINNING BUTYL TUBE SEALANT [7100BWH]
- COUNTER FLASH [F5084]
- POLYURETHANE TUBE SEALANT [HW540]
- CONC.FASTENERS (NOT BY PANEL MANUFACTURER)

COLD
- WT = WALL THICKNESS 4", 5", 6" OR 8"
- OPTION: ANGLE CAN BE TURNED INWARD OR OUTWARD. IF TURNED INWARD A GAP IS REQUIRED.
- 10'- 16 GA. GALV. 2" X 2" ANGLE [AN220400]
- 3" X 3" ANGLE [AN300600]
- 12 X 1" HWH TYPE 3 W/WASHER @ 12" O.C. MAX. [17]
- CONC.FASTENERS (NOT BY PANEL MANUFACTURER)
- POLYURETHANE TUBE SEALANT [HW540]

FINISHED FLOOR

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE
BASE COOLER

FACE DIM.
BASE TRIM
4 1/2"  F5084
5 1/2"  F5085
6 1/2"  F5086
---  ---

DRAWING NO:  CS-BE-04-A
DATE:  JUN '20
REV:  00
WT = WALL THICKNESS
4”, 5”, 6” OR 8”

COLD

METL-SPAN INSULATED PANEL

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

12 X 1” HWH TYPE 3
W/WASHER @ 12” O.C. [17]

T.O.SLAB

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

POLYURETHANE TUBE SEALANT [HWS40]

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

WARM

FIELD APPLIED 1/4” CONTINUOUS BEAD OF NON-SKINNING BUTYL TUBE SEALANT IN FEMALE GROOVE ON WARM SIDE.

LINE OF FACE OF WALL

CONT. BUTYL SEALANT [NOT BY PANEL MANUFACTURER]

NON-SKINNING BUTYL TUBE SEALANT [7100BWH]

16 GA. GALV.
10” BASE CHANNEL
[SEE CHART]

NOTE:
DUE TO THE LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE.

REFER TO SHEET “CS-INFO” FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

<table>
<thead>
<tr>
<th>WT</th>
<th>16 GA. BASE CHANNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>CHDZ0675</td>
</tr>
<tr>
<td>5”</td>
<td>CHEZ0775</td>
</tr>
<tr>
<td>6”</td>
<td>CHFZ0875</td>
</tr>
<tr>
<td>8”</td>
<td>CHHC1075</td>
</tr>
</tbody>
</table>

APPLICATION: COLD STORAGE

BASE
W/OUT INSULATION COOLER

CS-BE-05-A
JUN ’20
00
WT = WALL THICKNESS
4", 5", 6" OR 8"

WARM

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

METL-SPAN INSULATED PANEL

16 GA. GALV. LINER CLIP @ 10'-0" O.C. VERTICALLY

FIELD APPLIED 1/4" CONTINUOUS BEAD OF NON-SKINNING BUTYL TUBE SEALANT IN FEMALE GROOVE ON WARM SIDE.

16 GA. GALV. 10" BASE CHANNEL [SEE CHART]

NON-SKINNING BUTYL TUBE SEALANT [7100BW]

POLYURETHANE TUBE SEALANT [HW540]

COLD

SEALANT (NOT BY PANEL MANUFACTURER)

SLIP SHEET (NOT BY PANEL MANUFACTURER)

FIELD CUT THERMAL BREAK

12 X 1" HWH TYPE 3 W/WASHER @ 12" O.C. [17]

FLOOR INSULATION (NOT BY PANEL MANUFACTURER)

VAPOR BARRIER (NOT BY PANEL MANUFACTURER)

NON-SKINNING BUTYL TUBE SEALANT [7100BW]

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

FINISHED FLOOR

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
Refer to sheet "CS-INFO" for additional information regarding the application of sealants, fasteners and closure materials.
WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN INSULATED PANEL

FIELD APPLIED 1/4"
CONTINUOUS BEAD OF
NON-SKINNING BUTYL
TUBE SEALANT IN FEMALE
GROOVE ON WARM SIDE.

10-16 GA. GALV.
2" X 2" ANGLE [AN220400]
3" X 3" ANGLE [AN330600]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

NON-SKINNING BUTYL
TUBE SEALANT
[F100BWH]

SEALANT
(NOT BY PANEL MANUFACTURER)

SLIP SHEET
(NOT BY PANEL MANUFACTURER)

POLYURETHANE
TUBE SEALANT
[HW540]

CONC.FASTENERS
(NOT BY PANEL MANUFACTURER)

THERMAL BREAK
INSULATION STRIP
(NOT BY METL-SPAN)

FINISHED FLOOR

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
WT = WALL THICKNESS
4", 5", 6" OR 8"

WARM

METL-SPAN INSULATED PANEL
FIELD APPLIED 1/2"
CONTINUOUS BEAD OF
NON-SKINNING BUTYL
TUBE SEALANT IN FEMALE
GROOVE ON WARM SIDE.

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

16 GA. GALV.
10' BASE CHANNEL
[SEE CHART]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

NON-SKINNING BUTYL
TUBE SEALANT
[7100XWH]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

NOTE:
DUE TO THE LACK OF PERIMETER
INSULATION, CONDENSATION
MAY OCCUR ON THE WARM SIDE

COLD

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

POLYURETHANE
TUBE SEALANT
[HWS40]

CONT. FASTENERS
(NOT BY PANEL MANUFACTURER)

T.O. SLAB

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE

BASE W/CHANNEL COOLER

WT
16 GA. BASE CHANNEL
4" CHD20675
5" CHEZ0775
6" CHFZ0875
8" CHHL1075
WARM

METL-SPAN INSULATED PANEL
FIELD APPLIED 3/4"
CONTINUOUS BEAD OF
NON-SKINNING BUTYL
TUBE SEALANT IN FEMALE
GROOVE ON WARM SIDE.

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

10'-16 GA. GALV.
2" X 2" ANGLE [AN220400]
3" X 3" ANGLE [AN330000]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

NON-SKINNING BUTYL
TUBE SEALANT
[71008WH]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

POLYURETHANE
TUBE SEALANT
[HWS40]

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

NOTE:
DUE TO THE LACK OF PERIMETER
INSULATION, CONDENSATION
MAY OCCUR ON THE WARM SIDE

COLD

WT = WALL THICKNESS
4", 5", 6" OR 8"

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

10'-16 GA. GALV.
2" X 2" ANGLE [AN220400]
3" X 3" ANGLE [AN330000]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

NON-SKINNING BUTYL
TUBE SEALANT
[71008WH]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

POLYURETHANE
TUBE SEALANT
[HWS40]

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

T.O. SLAB

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION
REGARDING THE APPLICATION OF SEALANTS, FASTENERS
AND CLOSURE MATERIALS.
WT = WALL THICKNESS
4", 5", 6" OR 8"

WARM

METL-SPAN INSULATED PANEL

FIELD APPLIED 3/4"
CONTINUOUS BEAD OF
NON-SKINNING BUTYL
TUBE SEALANT IN FEMALE
GROOVE ON WARM SIDE.

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

16 GA. GALV.
10' BASE CHANNEL
[SEE CHART]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

NON-SKINNING BUTYL
TUBE SEALANT
[71000WH]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

NOTE:
DUE TO THE LACK OF PERIMETER
INSULATION, CONDENSATION
MAY OCCUR ON THE WARM SIDE

COLD

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C.
[17]

T.O. SLAB

POLYURETHANE
TUBE SEALANT
[HWS40]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
Refer to sheet "CS-INFO" for additional information regarding the application of sealants, fasteners and closure materials.

Application: Cold Storage
Base: W/Angle
WT = WALL THICKNESS
4", 5", 6" OR 8"

WARM

METLSPAN INSULATED PANEL
ELASTOMERIC SEALANT
[7203EGR] ON TOP
POURABLE URETHANE
[7202UGR] W/MARRIAGE BEAD TO PANEL JOINT SEALANT
FLUTE CLOSURE STRIP
(1) PER PANEL
(IF REQUIRED)
[7607UBK]
1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 8" O.C.
[4A]
SEALANT TAPE
[73008GR]

COLD

14 GA. 4 HOLE CF PANEL CLIP
4" X 3/4"
[4633GNC]
1/4"-14 HWH TYPE B
W/O WASHER (2) PER CLIP
[SEE CHART]
(PRE-DRILL, REF. SHEET FST1)
(ADDITIONAL FASTENERS MAY BE REQUIRED BASED ON NEGATIVE WIND PressURES)

1/4"-14 HWH TYPE B
W/O WASHER (2) PER CLIP
[SEE CHART]
(PRE-DRILL, REF. SHEET FST1)
(ADDITIONAL FASTENERS MAY BE REQUIRED BASED ON NEGATIVE WIND Pressures)

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

SUPPORT
(NOT BY PANEL MANUFACTURER)

URETHANE FOAM SPACER
(NOT BY PANEL MANUFACTURER)

1/4"-14 HWH TYPE B
W/O WASHER (2) PER CLIP
[SEE CHART]
(PRE-DRILL, REF. SHEET FST1)
(ADDITIONAL FASTENERS MAY BE REQUIRED BASED ON NEGATIVE WIND Pressures)

CONTINUOUS ANGLE SUPPORT REQUIRED
(NOT BY PANEL MANUFACTURER)
PLEASE SPECIFY GAUGE OF SUPPORT

14 GA. 4 HOLE CF PANEL CLIP
4" X 3/4"
[4633GNC]

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE 5 CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1/64PNC</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION:
COLD STORAGE

STACK JOINT
FREEZER OR COOLER

DRAWING NO: CS-SJ-01-A
DATE: JUN '20
REV 00
WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN
INSULATED PANEL

SEALANT TAPE
[7300BGR]

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

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

FIELD CUT THERMAL BREAK

CORNER TRIM
[F5152]

COLD

SUPPORT
(NOT BY PANEL MANUFACTURER)

SS #14 HWH TYPE B
W/BONDED WASHER
@ EACH SUPPORT
[1340S]
(PRE-DRILL, REF. SHEET FST1)

CORNER TRIM
[F5140]

1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 12" O.C.
[4A]

WARM

WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN
INSULATED PANEL

<table>
<thead>
<tr>
<th>WT</th>
<th>CORNER TRIM</th>
<th>TYPE B THROUGH FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>F5152</td>
<td>1340S</td>
</tr>
<tr>
<td>5&quot;</td>
<td>F5153</td>
<td>1348S</td>
</tr>
<tr>
<td>6&quot;</td>
<td>F5154</td>
<td>1356S</td>
</tr>
<tr>
<td>8&quot;</td>
<td>F5155</td>
<td>1384S</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE

OUTSIDE CORNER TUBE SUPPORT FREEZER/FREEZER

DRAWING NO: CS-CE-01-A
DATE: JUN '20
REV 00
WT = WALL THICKNESS
4", 5", 6" OR 8"

COLD

SUPPORT
(NOT BY PANEL MANUFACTURER)
1/4"-14 x 7/8" HWH TYPE 1
W/WASHER @ 12" O.C.
[4A]
SS #14 HWH TYPE B
w/BONDED WASHER
@ EACH SUPPORT
[13405]
(PRE-DRILL, REF. SHEET FST1)
CORNER TRIM
[FS140]

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

FIELD CUT
THERMAL BREAK

METL-SPAN
INSULATED PANEL

SEALANT TAPE
[73008G]

1/4"-14 x 7/8" HWH TYPE 1
W/WASHER @ 8" O.C.
[4A]

WARM

METL-SPAN
INSULATED PANEL

CORNER TRIM
[FS152]

WT = WALL THICKNESS
4", 5", 6" OR 8"

APPLICATION:
COLD STORAGE

OUTSIDE CORNER
FREEZER/FREEZER

<table>
<thead>
<tr>
<th>WT</th>
<th>CORNER TRIM</th>
<th>FASTENERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>FS152</td>
<td>13405</td>
</tr>
<tr>
<td>5&quot;</td>
<td>FS153</td>
<td>13485</td>
</tr>
<tr>
<td>6&quot;</td>
<td>FS154</td>
<td>13565</td>
</tr>
<tr>
<td>8&quot;</td>
<td>FS156</td>
<td>13845</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
COLD

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

FIELD CUT
THERMAL BREAK

CORNER TRIM
[F5101]
1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 12" O.C.
[4A]

SS #14 HWH TYPE B
w/BONDED WASHER
@ EACH SUPPORT
[13405]
(PRE-DRILL, REF. SHEET FST1)

SUPPORT
(NOT BY PANEL MANUFACTURER)

WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN
INSULATED PANEL

SEALANT TAPE
[7300BGR]

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

CORNER TRIM
[F5165]
1/4"-14 X 7/8" HWH TYPE 1
W/WASHER @ 8" O.C.
[4A]

METL-SPAN
INSULATED PANEL

WARM

WT = WALL THICKNESS
4", 5", 6" OR 8"

<table>
<thead>
<tr>
<th>WT</th>
<th>CORNER TRIM</th>
<th>FASTENERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>FS101</td>
<td>13405</td>
</tr>
<tr>
<td>5&quot;</td>
<td>FS124</td>
<td>13415</td>
</tr>
<tr>
<td>6&quot;</td>
<td>FS125</td>
<td>13565</td>
</tr>
<tr>
<td>8&quot;</td>
<td>FS126</td>
<td>13845</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE
INSIDE CORNER FREEZER/FREEZER

DRAWING NO: CS-CE-03-A
DATE: JUN '20
REV: 00
WT = WALL THICKNESS
4", 5", 6" OR 8"

COLD

SEPARATED FOR CLARITY
METL-SPAN INSULATED PANEL
TERMINATION BAR
(NOT BY PANEL MANUFACTURER)
1/4"-1/4 X 7/8" HWH TYPE 1
W/WASHER @ 8" O.C.
[4A]

METL-SPAN INSULATED PANEL
CORNER TRIM
[F3140]

METL-SPAN INSULATED PANEL

WARM

SEALANT TAPE
[73008GR]
EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)
FIELD CUT THERMAL BREAK
VAPOUR BARRIER
(NOT BY PANEL MANUFACTURER)

WT = WALL THICKNESS
4", 5", 6" OR 8"

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
EXPLAINABLE FOAM INSULATION (NOT BY PANEL MANUFACTURER)
FIELD CUT THERMAL BREAK
VAPOR BARRIER (NOT BY PANEL MANUFACTURER)
CORNER TRIM [FS101]
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 8" O.C. [4A]
SEALANT TAPE [7300BGR]

WARM

WT = WALL THICKNESS
4", 5", 6" OR 8"

CORNER TRIM [FS140]
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 12" O.C. [4A]
METL-SPAN INSULATED PANEL

COLD

WT = WALL THICKNESS
4", 5", 6" OR 8"

<table>
<thead>
<tr>
<th>WT</th>
<th>CORNER TRIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>FS101</td>
</tr>
<tr>
<td>5&quot;</td>
<td>FS124</td>
</tr>
<tr>
<td>6&quot;</td>
<td>FS125</td>
</tr>
<tr>
<td>8&quot;</td>
<td>FS134</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
**Application:** Cold Storage  
**Wall Intersection:** Freezer or Cooler

### Technical Details

- **Joint Trim:** See Chart  
- **Double Vapor Barrier:** Not by Panel Manufacturer  
- **Expandable Foam Insulation:** Not by Panel Manufacturer  
- **Sealant Tape:** 7300BGR

### Diagram Details

- **Warming Section:**
  - 1/4"-14 x 7/8" HWH Type 1
  - W/Washer @ 8" O.C.
  - [4A]
  - Sealant Tape 7300BGR

- **Colder Section:**
  - 1/4"-14 x 7/8" HWH Type 1
  - W/Washer @ 12" O.C.
  - [4A]

### Table of Fastener Sizes

<table>
<thead>
<tr>
<th>WT</th>
<th>CORNER TRIM</th>
<th>TYPE B THROUGH FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>F5621</td>
<td>1340S</td>
</tr>
<tr>
<td>5&quot;</td>
<td>F5622</td>
<td>1348S</td>
</tr>
<tr>
<td>6&quot;</td>
<td>F5623</td>
<td>1356S</td>
</tr>
<tr>
<td>8&quot;</td>
<td>F5624</td>
<td>1384S</td>
</tr>
</tbody>
</table>

**Refer to Sheet "CS-INFO" for Additional Information Regarding the Application of Sealants, Fasteners and Closure Materials.**
REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE
WALL INTERSECTION FREEZER OR COOLER

WALL (NOT BY PANEL MANUFACTURER)
VAPOR BARRIER (NOT BY PANEL MANUFACTURER)
EXPANDABLE FOAM INSULATION (NOT BY PANEL MANUFACTURER)
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 8" O.C. [4A]
CORNER TRIM [FS140]
METL-SPAN INSULATED PANEL

CORNER TRIM [FS140]

WARM

WT = WALL THICKNESS 4", 5", 6" OR 8"

COLD
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

**APPLICATION:**
COLD STORAGE

CEILING SUPPORT
W/CHANNEL AND COVER TRIM
FREEZER OR COOLER

DRAWING NO:
CS-CG-03-A

DATE:
JUN '20

REV:
00
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

**APPLICATION:**
COLD STORAGE

**CEILING SUPPORT:**
HEF-T
FREEZER OR COOLER

**DRAWING NO:**
CS-CG-04-A

**DATE:**
JUN '20

**REV:**
00
(SPACE ABOVE CEILING MUST BE VENTILATED)

NOTE:
CEILING PANELS MUST BE SUSPENDED FROM STRUCTURAL ABOVE. WALLS ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF THE CEILING, AND THE SUSPENSION SYSTEM.

NOTE:
ALL INSTALLATION OF THE INSULATED CEILING PANELS AND IT'S COMPONENTS MUST BE COMPLETED PRIOR TO ANY FOOT TRAFFIC ON THE CEILING. DURING INSTALLATION, IF THERE IS A PAUSE IN INSTALLING THE PANELS, THE LAST COURSE OF PANELS MUST BE SECURED PROPERLY, AND NO FOOT TRAFFIC SHALL BE ALLOWED ON THE PANELS DURING THIS PHASE.

NOTE:
(1) SPACE ABOVE CEILING MUST BE VENTILATED
(2) ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETE, PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

** IMPORTANT NOTES: **

DEPENDING ON PANEL AND SUPPORT SYSTEM, 16 GA. ANGLE MAY BE REQUIRED TO BE SUPPORTED BY ROOF STEEL. METHOD OF SUPPORT NOT BY PANEL MANUFACTURER. PLEASE REFERENCE CS-CG-64-A AND CS-CG-05-A.

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 5" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE).

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

*FIELD APPLY 1/2" CONTINUOUS BEAD OF BUTYL SEALANT IN INTERIOR FEMALE GROOVE BEFORE INSTALLING.

***WARM SIDE ONLY***
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
(SPACE ABOVE CEILING MUST BE VENTILATED)

HANGER ROD
(NOT BY PANEL MANUFACTURER)

SEALANT
(NOT BY PANEL MANUFACTURER)

ROD INSULATION
(NOT BY PANEL MANUFACTURER)

3/8" NUT & WASHER
(NOT BY PANEL MANUFACTURER)

SEALANT
(NOT BY PANEL MANUFACTURER)

WALL
(NOT BY PANEL MANUFACTURER)

CORNER TRIM
[F5140]

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

DOUBLE BEAD BUTYL TAPE
1" X 1/4" X 20'
[7405BWH]

FIELD CUT
THERMAL BREAK

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

WARM

F.I.P. INSULATION
(NOT BY PANEL MANUFACTURER)

BACKER ROD & SEALANT
(NOT BY PANEL MANUFACTURER)

SEPARATION FOR
CLARITY

OPTIONAL DOUBLE BEAD
BUTYL TAPE 1" X 1/4" X 20'
[7405BWH]

NOTE: INTERIOR VAPOR SEAL MAY
BE REQUIRED IN COOLERS.
PROJECT DESIGNER RESPONSIBLE
FOR STATING REQUIREMENTS.

*FIELD APPLY ½" CONTINUOUS
BEAD OF BUTYL SEALANT IN
INTERIOR FEMALE GROOVE
BEFORE INSTALLING.
***WARM SIDE FIRST***

** IMPORTANT NOTES:

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A
MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO
ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS,
FASTENERS AND CLOSURE MATERIALS.

APPLICATION: COLD STORAGE

CEILING SUPPORT FREEZER OR COOLER

DRAWING NO: CS-CG-09-A

DATE: JUN '20

REV 00
**IMPORTANT NOTES:**

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
**IMPORTANT NOTES:**

THIS DETAIL MUST BE USED WITH DETAIL CS-CG-12. INTERMEDIATE ATTACHMENT IS REQUIRED.

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
**IMPORTANT NOTES:**

THIS DETAIL MUST BE USED WITH DETAIL CS-CG-11. INTERMEDIATE ATTACHMENT IS REQUIRED.

THIS DETAIL IS ONLY VALID WITH MAXIMUM 42" WIDE CEILING PANELS WITH A MINIMUM THICKNESS OF 2-1/2" OR 3" (NON-WALKABLE) OR 4", 5", 6" OR 8" (WALKABLE)

BRACING OF ROD MAY BE REQUIRED, DESIGNED AND SUPPLIED BY OTHERS (NOT BY PANEL MANUFACTURER).

ALL CEILING SUPPORT COMPONENTS AND PANELS MUST BE INSTALLED COMPLETELY PRIOR TO ALLOWING ANY TRAFFIC ON CEILING.

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

**APPLICATION:**
COLD STORAGE

**CEILING SUPPORT:**
8" S-CLIP @ BUTT JOINT
FREEZER OR COOLER
Refer to sheet "CS-INFO" for additional information regarding the application of sealants, fasteners and closure materials.

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE S CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
</tr>
</tbody>
</table>

Application: Cold Storage
Eave: Freezer or Cooler

Drawing No: CS-EE-01-A
Date: Jun '20
Rev: 00
Non-Skinnning Butyl Tube Sealant
[7100BWH]
Panel Cap & Fastener
(Not by Panel Manufacturer)
Vapor Barrier
(Not by Panel Manufacturer)
Seal to Face of Panel
Double Bead Butyl Tape
1" x 1/4" x 20'
[1400BWH]
Eave Trim, Metal Cleat,
Fastener & Method
of Installation
(Not by Panel Manufacturer)
Cutter
(Not by Panel Manufacturer)
Flute Closure Strip
(1) per Panel
(if required)
[7607UBK]
1/4"-14 HWH Type B
W/O Washer (2) per Clip
[See Chart]
(PRE-DRILL, REF. SHEET FST1)
(Additional Fasteners May
be Required Based on
Negative Wind Pressures)
14 GA. 4 Hole CF Panel Clip
4" x 3/4"
[4633GNC]
MTEX-SPAN
Insulated Panel

Gravel Stop
(Not by Panel Manufacturer)
Roof Membrane Sealant
& Method of Installation
(Not by Panel Manufacturer)
F.I.P. Insulation
(Not by Panel Manufacturer)

WT = Wall Thickness
4", 5", 6" or 8"

<table>
<thead>
<tr>
<th>WT</th>
<th>Type B Clip Fastener</th>
<th>Type 5 Clip Fastener</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
</tr>
</tbody>
</table>

Refer to Sheet “CS-INFO” for additional information regarding the application of sealants, fasteners and closure materials.

Application:
Cold Storage
Eave w/Gutter
Freezer or Cooler

Drawing No:
CS-EE-02-A
Date:
JUN '20
Rev:
00
**COPING TRIM** 
(NOT BY PANEL MANUFACTURER)

**VAPOUR BARRIER** 
(NOT BY PANEL MANUFACTURER)
SEAL TO FACE OF PANEL

**DOUBLE BEAD BUTYL TAPE** 
1" X 1/4" X 20'  
[7405BWH]

**EAVE TRIM, METAL CLEAT, FASTENER & METHOD OF INSTALLATION** 
(NOT BY PANEL MANUFACTURER)

**FLUTED CLOSURE STRIP** 
(1) PER PANEL  
(IF REQUIRED) 
[76007UDN]

**1/4"-1/4 W/W HWH TYPE B** 
W/O WASHER (2) PER CLIP  
[SEE CHART] 
(PRE-DRILL, REF. SHEET FS71) 
(ADDITIONAL FASTENERS MAY BE REQUIRED BASED ON NEGATIVE WIND PRESSURES)

**14 GA. #10 F.C. PANSL CLIP** 
4" X 3/4"  
[4633GNC]

**METL-SPAN INSULATED PANEL**

**WARM**

**COLD**

WT – WALL THICKNESS
4", 5", 6" OR 8"

**PANEL CAP & FASTENERS** 
(NOT BY PANEL MANUFACTURER) 
INSTALL IMMEDIATELY TO PROTECT AGAINST WEATHER

**FASTENERS** 
@ 8" O.C.  
(NOT BY PANEL MANUFACTURER)

**INSULATED CANT.** 
(NOT BY PANEL MANUFACTURER)

**ROOF MEMBRANE, SEALANT & METHOD OF INSTALLATION** 
(NOT BY PANEL MANUFACTURER)

**F.I.P. INSULATION** 
(NOT BY PANEL MANUFACTURER)

**ANGLE** 
(NOT BY PANEL MANUFACTURER)

---

**APPLICATION:**
COLD STORAGE

**PARAPET:**
FREEZER OR COOLER

---

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE S CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
</tr>
</tbody>
</table>

**REFER TO SHEET “CS-INFO” FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.**
WALL TO ROOF
FREEZER/COOLER
COOLER/AMBIENT

APPLICATION:
COLD STORAGE

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE S CLIP FASTENER</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
</tr>
</tbody>
</table>

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN
INSULATED PANEL

COMPRESSION BAR
(NOT BY PANEL MANUFACTURER)

ANGLE SUPPORT & FORM OF ATTACHMENT
TO STRUCTURAL STEEL
(NOT BY PANEL MANUFACTURER)

1/4"-14 HWH TYPE B
W/O WASHER (2) PER CLIP
[SEE CHART]
(PRE-DRILL, REF. SHEET FST1)

14 GA. 4 HOLE CF PANEL CLIP
4" X 3/4"
[46330NC]

F.L.P. INSULATION
(NOT BY PANEL MANUFACTURER)

ROOF MEMBRANE, SEALANT & METHOD OF INSTALLATION
(NOT BY PANEL MANUFACTURER)

PANEL CAP & FASTENERS
(NOT BY PANEL MANUFACTURER)
INSTALL IMMEDIATELY TO PROTECT AGAINST WEATHER

NON-SKINNING BUTYL
TUBE SEALANT
[71008BW]

DOUBLE BEAD BUTYL TAPE
1" X 1/4" X 20'
[7405BW]

12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C
[17]
**NOTE:**
To allow room for movement, do not overtighten fastener.

**MINERAL FIBER INSULATION,**
**ROOF INSULATION**
**AND METAL DECK**
(Not by METL-SPAN)

**FASTENER**
(Not by panel manufacturer)
**CONT. 3"X8" 16 GA, SLOTTED ANGLE**
(Not by panel manufacturer)
**SECURED WITH 1/4"-15 X 1-1/4" LL**
HWH TYPE 3 W/WASHER @ 12" O.C. [1E]

**METL-SPAN INSULATED PANEL**

**WT**
WALL THICKNESS
4", 5", 6" OR 8"

Refer to sheet "CS-INFO" for additional information regarding the application of sealants, fasteners and closure materials.

APPLICATION:
COLD STORAGE

WALL TO ROOF
COOLER/COOLER
AMBIENT/AMBIENT

DATE: JUN '20

DRAWING NO:
CS-WR-02-A

REV 00
WALL TO ROOF
COOLER/COOLER
AMBIENT/AMBIENT

WT - WALL THICKNESS
4", 5", 6" OR 8"

*NOTE:
TO ALLOW ROOM FOR MOVEMENT,
DO NOT OVER TIGHTEN FASTENER.

METL-SPAN
INSULATED PANEL

FASTENER
(NOT BY PANEL MANUFACTURER)
CONT. 3"X5" 16 GA.
SLOTTED ANGLE
(NOT BY PANEL MANUFACTURER)
SECURED WITH
1/4"-16 X 1-1/4" LL
HWH TYPE 3 W/WASHER
@ 12" O.C.
[IE]

FASTENER
(NOT BY PANEL MANUFACTURER)
CONT. 3"X5" 16 GA.
SLOTTED ANGLE
(NOT BY PANEL MANUFACTURER)
SECURED WITH
1/4"-16 X 1-1/4" LL
HWH TYPE 3 W/WASHER
@ 12" O.C.
[IE]

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE S CLIP FASTENER</th>
<th>RT</th>
<th>CFR PANEL CLIP</th>
<th>EAVE TRIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
<td>4&quot;</td>
<td>4104GNC</td>
<td>F3416</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
<td>5&quot;</td>
<td>4105GNC</td>
<td>F3416</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
<td>6&quot;</td>
<td>4106GNC</td>
<td>F3417</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

APPLICATION: COLD STORAGE
LOW EAVE FREEZER OR COOLER

DRAWING NO: CS-CFR-EV-01-A
DATE: JUN '20
REV 00
REFER TO SHEET “CS-INFO” FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

<table>
<thead>
<tr>
<th>WT</th>
<th>TYPE B CLIP FASTENER</th>
<th>TYPE S CLIP FASTENER</th>
<th>RT</th>
<th>CFR PANEL CLIP</th>
<th>EAVE TRIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1832PNC</td>
<td>1732PNC</td>
<td>4&quot;</td>
<td>4104GNC</td>
<td>F3416</td>
</tr>
<tr>
<td>5&quot;</td>
<td>1840PNC</td>
<td>1740PNC</td>
<td>5&quot;</td>
<td>4105GNC</td>
<td>F3416</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1848PNC</td>
<td>1748PNC</td>
<td>6&quot;</td>
<td>4106GNC</td>
<td>F3417</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1864PNC</td>
<td>1764PNC</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

APPLICATION: COLD STORAGE
LOW EAVE WITH STANDARD GUTTER FREEZER OR COOLER

DRAWING NO: CS-CFR-EV-G3-A
DATE: JUN '20
REV: 00
1/4"-1/4 X 1 1/4" LL HWH TYPE 3 W/1 1/8" WASHER @ EACH BACKUP PLATE [43L]

TRIPLE BEAD BUTYL TAPE 2 1/2" X 3/16" X 20' [HW502]

3" OVERLAP

RT = ROOF THICKNESS

TRIPLE BEAD BUTYL TAPE 2 1/2" X 3/16" X 20' [HW502]
(SEE INSTALLATION GUIDE)

BUTYL SEALANT TAPE 1/4" ROUND X 40' CLIP SEALANT [7412BWH]
DOUBLE VAPOR VAPOR BARRIER (NOT BY PANEL MANUFACTURER)

#14 HWH TYPE 3
w/BONDED WASHER @ 12" O.C. [SEE CHART]

RAKE ZEE TRIM [F3444]

DOUBLE BEAD BUTYL TAPE
1" X 1/4" X 20' [74058BWH]

JOINT TRIM [F5620]
1/4"-14 X 7/8" LL HWH TYPE 1 W/WASHER @ 8" O.C. [4]

DOUBLE BEAD BUTYL TAPE
1" X 1/4" X 20' [74058BWH]

DOUBLE BEAD BUTYL TAPE
1" X 1/4" X 20' [74058BWH]

METL-SPAN CFR INSULATED ROOF PANEL

* OPTIONAL:
NON-SKINNING BUTYL TUBE SEALANT [71098WH]

* NOTE: INTERIOR VAPOR SEAL MAY BE REQUIRED IN COOLERS. PROJECT DESIGNER RESPONSIBLE FOR STATING REQUIREMENTS.

LOCK RIVET @ 12" O.C. (NOT BY PANEL MANUFACTURER)

CONTINUOUS SUPPORT (NOT BY PANEL MANUFACTURER)

COLD

WARM

COLD STORAGE

ROOF TRANSITION FREEZER OR COOLER

WT = WALL THICKNESS
4", 5", 6" OR 8"

CORNER TRIM [F5140]
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 8" O.C. [4A]

SEALANT TAPE [72006SR] W/ MARRIAGE BEAD TO PANEL JOINT SEALANT

NON-SKINNING BUTYL TUBE SEALANT [71098WH]

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.

RT = ROOF THICKNESS
4", 5", OR 6"

THROUGH FASTENER

4" 1148P
5" 1196P
6" 1164P

APPLICATION:

DATE:
JUN '20

REV 00

DRAWING NO:
CS-CFR-TR-09-A