COLD STORAGE
APPLICATION
INSULATED METAL WALL PANEL
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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 WEATHER TIGHT 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 HOLE 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 ½" 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 ½" 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 ½" CONTINUOUS BEAD OF BUTYL SEALANT IN INTERIOR FEMALE GROOVE BEFORE INSTALLING ON THE WARM SIDE OF PANEL OR AS SPECIFIED PER JOB REQUIREMENTS.

APPLICATION: COLD STORAGE

CF PANEL JOINT
FREEZER OR COOLER

DRAWING NO: CS-PJ-01
DATE: JUN '20
REV 00
RT = ROOF THICKNESS
4", 5" OR 6"
(TYPICAL FOR COLD STORAGE)
2", 2 1/2" OR 3"
(PLEASE CONTACT
TECH SERVICES)

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

CFR42
MESA/MESA

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

CF45
MESA/MESA OR
LIGHT MESA/LIGHT MESA

APPLICATION:
COLD STORAGE

CFR AND CF45 PANEL JOINT
FREEZER OR COOLER

DRAWING NO:
CS-PJ-02

DATE:
JUN '20

REV:
00
APPLICATION: COLD STORAGE

PANEL ATTACHMENT - HEAVY GAUGE SIDE JOINT AND GIRT CLIPS W/BULB-TITE
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"

(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"

(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)
NON-SKINNING BUTYL TUBE SEALANT @ PANEL JOINT
EXTERIOR FACE OF WALL PANEL

ELASTOMERIC SEALANT ON TOP OF POURABLE URETHANE W/MARRIAGE BEAD TO PANEL JOINT SEALANT

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

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

ELASTOMERIC SEALANT [7203GR] ON TOP OF POURABLE URETHANE [7202UGR] W/MARRIAGE BEAD TO PANEL JOINT SEALANT

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

FLOOR INSULATION (NOT BY PANEL MANUFACTURER)
VAPOUR BARRIER (NOT BY PANEL MANUFACTURER)
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

FIELD CUT THERMAL BREAK

16 GA. GALV. 10" BASE CHANNEL [SEE CHART]
POLYURETHANE TUBE SEALANT [HWS46]

12 X 1" HWH TYPE 3 W/WASHER @ 12" O.C. [17]
NON-SKINNING BUTYL TUBE SEALANT [7108WH]
COUNTER FLASH [SEE CHART]

WT 16 GA. BASE CHANNEL
4" CHDZ0675
5" CHEZ0775
6" CHFZ0875
8" CHM1175

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

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

APPLICATION: COLD STORAGE
BASE FREEZER OR COOLER

DRAWING NO: CS-BE-01-A
DATE: JUN '20
REV 00
APPLICATION:
COLD STORAGE

BASE COOLER

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

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

WT

1/2" MAXIMUM
STRUCTURAL MEMBER

METL-SPAN
INSULATED PANEL

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

NON-SKINNING BUTYL
TUBE SEALANT
[7100BWH]

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

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

COLD

ELASTOMERIC SEALANT
[7203GGR]
ON TOP OF
POURABLE URETHANE
[7202UGR]
W/MARRIAGE BEAD TO
PANEL JOINT SEALANT

12 X 1" HWH TYPE 3
W/WASHER @ 8" O.C.
[17]

WARM

SEALANT TAPE
[7300BG]

FLUTE CLOSURE STRIP
(1) PER PANEL
(IF REQUIRED)
[7607UBK]

COUNTER TRIM
[5573]

INSULATED CANT
(NOT BY PANEL MANUFACTURER)

ROOF MEMBRANE, SEALANTS AND
METHOD OF ATTACHMENT
(NOT BY PANEL MANUFACTURER)

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APPLICATION:
COLD STORAGE

LOW ROOF/HIGH WALL
INTERSECT W/CHANNEL
FREEZER OR COOLER

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REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
NOTE:
DUE TO THE LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE

WARM
METL-SPAN INSULATED PANEL
FIELD APPLIED 3/8" CONTINUOUS BEAD OF NON-SKINNING BUTYL TUBE SEALANT IN FEMALE GROOVE ON WARM SIDE.
ELASTOMERIC SEALANT [7203EGR] ON TOP OF POURABLE URETHANE [7202UGR] W/MARRIAGE BEAD TO PANEL JOINT SEALANT

COLD
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 [AN330600]
12 X 1" HWH TYPE 3
W/WASHER @ 12" O.C. MAX.
[17]
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)
POolyURETHANE TUBE SEALANT [HW540]

FACE DIM.
NON-SKINNING BUTYL TUBE SEALANT [7100BW]
COUNTER FLASH [F5084]

POLYURETHANE TUBE SEALANT [HW540]
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

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

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-IN60" for additional information regarding the application of sealants, fasteners and closure materials.

WT | 16 GA. BASE CHANNEL
---|-------------------
4" | CHDZ0675
5" | CHEZ0775
6" | CHFZ0875
8" | CHM1075
WT = WALL THICKNESS 4", 5", 6" OR 8"

METL-SPAN INSULATED PANEL
CONC.FASTENERS (NOT BY PANEL MANUFACTURER)

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 [HWS40]

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)
VAPOUR BARRIER (NOT BY PANEL MANUFACTURER)

NON-SKINNING BUTYL TUBE SEALANT [7100BW]
CONC.FASTENERS (NOT BY PANEL MANUFACTURER)

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

APPLICATION: COLD STORAGE
@ LINER WALL W/CHANNEL
FREEZER

WT 16 GA. BASE CHANNEL
4" CHDZ0675
5" CHEZ0775
6" CHFZ0875
8" CHHZ1075

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

APPLICATION: COLD STORAGE

BASE W/CHANNEL FREEZER/FREEZER
FIELD APPLIED 3/4 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 [71008W]

POLYURETHANE TUBE SEALANT [HW540]

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

COLD

COLDEST

SEALANT (NOT BY PANEL MANUFACTURER)
SLIP SHEET (NOT BY PANEL MANUFACTURER)

FIELD CUT THERMAL BREAK

FLOOR INSULATION (NOT BY PANEL MANUFACTURER)
VAPOUR BARRIER (NOT BY PANEL MANUFACTURER)
CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

APPLICATION: COLD STORAGE
BASE W/ANGLE FREEZER/FREEZER

DRAWING NO: CS-BP-01A-A
DATE: JUN '20
REV 00
FIELD CUT THERMAL BREAK

FLOOR INSULATION (NOT BY PANEL MANUFACTURER)

VAPOR BARRIER (NOT BY PANEL MANUFACTURER)

CONC. FASTENERS (NOT BY PANEL MANUFACTURER)

NON-SKINNING BUTYL TUBE SEALANT [7100BWH]

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

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 [7100BWH]

POLYURETHANE TUBE SEALANT [HW540]

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

FINISHED FLOOR

METL-SPAN INSULATED PANEL

WARM

COLD

SEALANT (NOT BY PANEL MANUFACTURER)

SLIP SHEET (NOT BY PANEL MANUFACTURER)

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

APPLICATION: COLD STORAGE

BASE W/CHANNEL FREEZER/FREEZER

WT
16 GA. BASE CHANNEL

4"
CHDZ0675

5"
CHEZ0775

6"
CHFZ0875

8"
CHHZ1075

DRAWING NO: CS-BP-02-A
DATE: JUN '20
REV 00
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 [AN330000]

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)

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 1/2"
CONTINUOUS BEAD OF
NON-SKINNING BUTYL
TUBE SEALANT IN FEMALE
GROOVE ON WARM SIDE.

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
[7100BWH]

NOTE:
DUE TO THE LACK OF PERIMETER
INSULATION, CONDENSATION
MAY OCCUR ON THE WARM SIDE
IF TEMPERATURES ARE NOT
THE SAME IN BOTH ROOMS.

COOLER/COOLER
OR
AMBIENT/AMBIENT

SEALANT
(NOT BY PANEL MANUFACTURER)

SLIP SHEET
(NOT BY PANEL MANUFACTURER)

POLYURETHANE
TUBE SEALANT
[HW940]

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

NON-SKINNING BUTYL
TUBE SEALANT
[7100BWH]

CONC. FASTENERS
(NOT BY PANEL MANUFACTURER)

FINISHED FLOOR

WT

16 GA. BASE CHANNEL

4"
CHDZ0675

5"
CHEZ0775

6"
CHFZ0875

8"
CHHZ1075

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

APPLICATION: COLD STORAGE

BASE
COOLER/COOLER
AMBIENT/AMBIENT

DRAWING NO: CS-BP-04-A
DATE: JUN '20
REV 00
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.

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
[71008WH]

CONT. BUTYL SEALANT
(NOT BY PANEL MANUFACTURER)

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

WARM

METL-SPAN INSULATED PANEL
FIELD APPLIED ⅛ 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 [71009WH]

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

CONT. BUTYL SEALANT (NOT BY PANEL MANUFACTURER)

POLYURETHANE TUBE SEALANT [HW540]

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

NOTE: DUE TO THE LACK OF PERIMETER INSULATION, CONDENSATION MAY OCCUR ON THE WARM SIDE.
WT = WALL THICKNESS
4", 5", 6" OR 8"

METL-SPAN INSULATED PANEL

SEALANT TAPE
[7300BGR]

1/4"x.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]

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

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

METL-SPAN INSULATED PANEL

APPLICATION:
COLD STORAGE

OUTSIDE CORNER
TUBE SUPPORT
FREEZER/FREEZER

WT | CORNER TRIM | TYPE B THROUGH FASTENER
---|-------------|------------------------
4" | F5152       | 1340S                  
5" | F5153       | 1348S                  
6" | F5154       | 1356S                  
8" | F5160       | 1384S                  

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

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

FIELD CUT THERMAL BREAK

VAPOUR BARRIER
(NOT BY PANEL MANUFACTURER)

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

SEALANT TAPE
[730086R]

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

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]

WARM

METL-SPAN
INSULATED PANEL

METL-SPAN
INSULATED PANEL

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<th>WT</th>
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REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS AND CLOSURE MATERIALS.
EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

FIELD CUT
THERMAL BREAK

CORNER TRIM
[F5101]
1/4" X 1/2" HWH TYPE 1
W/WASHER @ 12" O.C. [4A]

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

SUPPORT
(NOT BY PANEL MANUFACTURER)

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

COLD

METL-SPAN
INSULATED PANEL

SEALANT TAPE
[7300BGR]

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

CORNER TRIM
[F5165]
1/4" X 1/2" HWH TYPE 1
W/WASHER @ 8" O.C. [4A]

METL-SPAN
INSULATED PANEL

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

WARM

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

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APPLICATION:
COLD STORAGE

INSIDE CORNER
FREEZER/FREEZER
WT = WALL THICKNESS
4", 5", 6" OR 8"

COLD

SEPARATED FOR CLARITY
METL-SPAN INSULATED PANEL
TERMINATION BAR (NOT BY PANEL MANUFACTURER)
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 8" O.C. [4A]
SEALANT TAPE [73008GR]
EXPANDABLE FOAM INSULATION (NOT BY PANEL MANUFACTURER)
FIELD CUT THERMAL BREAK
VAPOR BARRIER (NOT BY PANEL MANUFACTURER)

WARM

METL-SPAN INSULATED PANEL
1/4"-14 X 7/8" HWH TYPE 1 W/WASHER @ 12" O.C. [4A]
CORNER TRIM [F3140]
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
LINER CORNER FREEZER OR COOLER

DRAWING NO: CS-CL-01-A
DATE: JUN '20
REV 00
EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

FIELD CUT
THERMAL BREAK

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

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

SEALANT TAPE
[7300BGR]
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

Drawing No: CS-CP-02-A
Date: JUN '20
Rev: 00
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
**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
**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

*FIELD APPLY 1/2" CONTINUOUS BEAD OF BUTYL SEALANT IN INTERIOR FEMALE GROOVE BEFORE INSTALLING.***WARM SIDE ONLY***
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 ITS 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 CEILING 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-04-A.

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).

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

APPLICATION:
COLD STORAGE

CEILING PANEL JOINT W/ALUMINUM HEF-T & SPlice ASSEMBLY VIEW FROM TOP SIDE FREEZER OR COOLER

DRAWING NO:
CS-CG-05-A

DATE:
JUN '20

REV: 00
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 CEILING 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 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).

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.

---

**APPLICATION:**
COLD STORAGE

**CEILING SUPPORT:**
FREEZER OR COOLER

**DRAWING NO.:**
CS-CG-06-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.

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

**WARM SIDE ONLY**

**APPLICATION:**
COLD STORAGE

**CEILING SUPPORT**
FREEZER OR COOLER

**DRAWING NO:**
CS-CG-07-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 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.

APPLICATION: COLD STORAGE

CEILING SUPPORT FREEZER OR COOLER

DRAWING NO: CS-CG-10-A

DATE: JUN '20

REVISION: 00
**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.

**APPLICATION:**
COLD STORAGE

**CEILING SUPPORT**
8" S-CLIP TO HANGER ROD
FREEZER OR COOLER
**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
NON-SKINNING BUTYL TUBE SEALANT
[7100BWH]

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

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

PANEL CAP & FASTENER
(NOT BY PANEL MANUFACTURER)

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)
SEAL TO FACE OF PANEL

DOUBLE DEAD BUTYL TAPE
1" X 1/4" X 20'
[74050WH]

EAVE TRIM: METAL CLEAT, FASTENER & METHOD OF INSTALLATION
(ANT BY PANEL MANUFACTURER)

FLUTE CLOSURE STRIP
(1) PER PANEL
(IF REQUIRED)
[7857UBK]

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

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

METL-SPAN INSULATED PANEL

WT – WALL THICKNESS
4", 5", 6" OR 8"

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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"

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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)

FLUTE CLOSURE STRIP
(1) PER PANEL
(IF REQUIRED)
[7607UDK]

1/4"-14 HWH TYPE B
W/0 WASHER (2) PER CLIP
[SEE CHART]
(PRE-DRILL, REF. SHEET FST1)
(ADDITIONAL FASTENERS MAY
BE REQUIRED BASED ON
NEGATIVE WIND PRESSURES)

1/4 GA. 5 HOI FLAT ROLL CLIP
4" X 3/4'
[4633GCFC]

METL-SPAN
INSULATED PANEL

WARM

COLD

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.

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APPLICATION: COLD STORAGE

WALL TO ROOF
FREEZER/COOLER
COOLER/AMBIENT

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

DRAWING NO: CS-WR-01-A
DATE: JUN '20
REV 00
**NOTE:**
TO ALLOW ROOM FOR MOVEMENT,
DO NOT OVER-TIGHTEN FASTENER.

MINERAL FIBER INSULATION,
ROOF INSULATION
AND METAL DECK
(NOT BY METL-SPAN)

FASTENER
(NOT BY PANEL MANUFACTURER)
CONT. 3"X6" 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.

FASTENER
(NOT BY PANEL MANUFACTURER)
CONT. 3"X6" 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.

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.
FASTENER (NOT BY PANEL MANUFACTURER)
CONT. 3"X6" 16 GA.
SLOTTED ANGLE (NOT BY PANEL MANUFACTURER)
SECURED WITH 1/4" X 1-1/4" LL
HWH TYPE 3 W/WASHER @ 12" O.C.

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

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.
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APPLICATION: COLD STORAGE
LOW EAVE FREEZER OR COOLER

DRAWING NO: CS-CFR-EV-01-A
DATE: JUN '20
REV 00
DOUBLE BEAD BUTYL TAPE 5/32" X 1/2" X 40' @ SIDEDJOINTS  
(SEE INSTALLATION GUIDE [74065WH])

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

GUTTER HANGER @ PANEL SEAM  
[F555]

1/4"-14 X 7/8" LL HWH TYPE 1  
W/WASHER (2) PER HANGER  
[4]

GUTTER SUPPORT @ PANEL SIDELAP & MIDPOINT  
[F551]

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

EAVE TRIM  
[SEE CHART]

1/4"-14 X 7/8" LL HWH TYPE 1  
W/WASHER @ EACH HIGH MESA  
[4]

VAPOR BARRIER  
(NOT BY PANEL MANUFACTURER)

NORTH GUTTER  
[F4300]

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

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

FLUTE CLOSURE STRIP  
(1) PFQ PANFI  
(IF REQUIRED)  
[7607UBK]

14 GA. 4 HOLE CF PANEL CLIP  
4" X 3/4"  
[46336NC]

WARM  
METL-SPAN  
INSULATED PANEL

COLD  

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

EXPANDABLE FOAM INSULATION  
(NOT BY PANEL MANUFACTURER)

BUTYL SEALANT TAPE  
1/4" ROUND X 40'  
CLIP SEALANT  
[7412BWH]

1/4"-14 X 1-1/4" LL  
HWH TYPE 3 W/WASHER  
@ EACH SIDELAP  
[16]

CFR PANEL CLIP  
@ EA. PANEL SIDELAP  
[SEE CHART]

METL-SPAN CFR  
INSULATED ROOF PANEL  

1/4"-14 X 2" HWH TYPE 3  
W/O WASHER (3) PER CLIP  
[15165NC]

- OPTIONAL:  
CONTINUOUS NON-SKINNING  
BUTYL TUBE SEALANT  
W/ MARRIAGE BEAD TO  
PANEL JOINT SEALANT  
[71008WH]

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

- OPTIONAL:  
CONTINUOUS NON-SKINNING BUTYL  
TUBE SEALANT  
[71008WH]

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

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)

EAVE SUPPORT  
(NOT BY PANEL MANUFACTURER)

REFER TO SHEET "CS-INFO" FOR ADDITIONAL INFORMATION  
REGARDING THE APPLICATION OF SEALANTS, FASTENERS  
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APPLICATION:  
COLD STORAGE

LOW ROOF/HIGH ROOF  
INTERSECT

FREEZER OR COOLER

DRAWING NO.: CS-CFR-EV-G1-A  
DATE: JUN '20  
REV. 00
Refer to sheet "CS-INFO" for additional information regarding the application of sealants, fasteners and closure materials.

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Application: Cold Storage

Low Eave with Standard Gutter
Freezer or Cooler

Drawing No: CS-CFR-EV-G3-A

Date: Jun '20

Rev: 00
**Application:** Cold Storage  
**RAKE**  
**With High Profile Trim**  
**Freezer or Cooler**

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**Notes:**
- **1/4"-14 X 7/8" LL HWH Type 1 W/Washer @ 8" O.C.**
- **Double Bead Butyl Tape 1" X 1/4" X 20' [7405BWH]**
- **RAKE ZEE Trim [F3444]**
- **Double Bead Butyl Tape 1" X 1/4" X 20' [7405BWH]**

**Vapor Barrier** (Not by Panel Manufacturer)

**Rake Trim** [See Chart]

**Expandable Foam Insulation** (Not by Panel Manufacturer)

**1/4"-14 HWH Type B W/O Washer (2) Per Clip** [See Chart] (Pre-Drill Ref. Sheet FST) (Additional Fasteners May Be Required Based on Negative Wind Pressures)

**1/4"-14 X 7/8" HWH Type 1 W/Washer @ 8" O.C.** [4A]

**Double Bead Butyl Tape 1" X 1/4" X 20' [7405BWH]**

**Flute Closure Strip (1) Per Panel (If Required) [7607UBK]**

**14 GA. 4 Hole CF Panel Clip 4" X 3/4" [46335NC]**

**MeteL-Span Insulated Panel**

**WT = WALL THICKNESS**  
4", 5", 6" or 8"

---

**MeteL-Span CFR Insulated Roof Panel**

**Optional:** Non-Skimming Butyl Tube Sealant [7100BWH]

*Note: Interior Vapor Seal May Be Required in Coolers. Project Designer Responsible for Stating Requirements.*

**Rake Support** (Not by Panel Manufacturer)
BUTYL SEALANT TAPE
1/4" ROUND X 40' CLIP SEALANT
[7412BWH]

CFR PANEL CLIP
@ EA. PANEL SIDELAP
[SEE CHART]

METL SPAN CFR INSULATED ROOF PANEL
1/4"-1.4 X 2" HWH TYPE 3 W/O WASHER (3) PER CLIP
[1616PNC]

ROOF PURLINS
(NOT BY PANEL MANUFACTURER)

\( \frac{3}{2}'' \) MINIMUM PANEL BEARING SURFACE

COLD

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

APPLICATION: COLD STORAGE
INTERMEDIATE ATTACHMENT FREEZER OR COOLER

DRAWING NO: CS-CFR-AT-01-A
DATE: JUN '20
REV. 00
1/4"-14 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" OVERLAY
3 T

RT = ROOF THICKNESS 4 1/2", 5" OR 6" 

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]

CFR PANEL CLIP @ EA. PANEL SIDELAP [SEE CHART]

OPTIONAL:
CONTINUOUS NON-SKINNING BUTYL TUBE SEALANT W/ MARRIAGE BEAD TO PANEL JOINT SEALANT [7100BWH]

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

FASTENERS (NOT BY PANEL MANUFACTURER)

ARCH/G.C. NOTE: ADDITIONAL STEEL REQUIRED (NOT BY PANEL MANUFACTURER)

2 1/2" MINIMUM PANEL BEARING SURFACE

METL-SPAN CFR INSULATED ROOF PANEL
BACK-UP PLATE FACTORY INSTALLED @ EACH HIGH MESA, 4" O.C. [421GNC]
1/4"-14 X 2" HWH TYPE 3 W/O WASHER (3) PER CLIP [1618PNC]
TRIPLE BEAD BUTYL TAPE 2 1/2" X 3/16" X 20' [HW502]
ROOF FURLENS (NOT BY PANEL MANUFACTURER)

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

APPLICATION: COLD STORAGE
ENDLAP ATTACHMENT FREEZE OR COOLER

RT | CFR PANEL CLIP
---|------------------
4"  | 4104GNC
5"  | 4105GNC
6"  | 4106GNC
--- | ---

DRAWING NO: CS-CFR-EL-01-A
DATE: JUN '20
REV 00
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'
[74058WH]

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'
[74058WH]

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

RT = ROOF THICKNESS
4" 5" OR 6"

COLD

METL-SPAN CFR
INSULATED ROOF PANEL

* OPTIONAL:
NON-SKINNING BUTYL
TUBE SEALANT
[71008WH]

* 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)

WARM

METL-SPAN CFR
INSULATED ROOF PANEL

NON-SKINNING BUTYL
TUBE SEALANT
[71008WH]

EXPANDABLE FOAM INSULATION
(NOT BY PANEL MANUFACTURER)

VAPOR BARRIER
(NOT BY PANEL MANUFACTURER)

CONTINUOUS SUPPORT
(NOT BY PANEL MANUFACTURER)

METL-SPAN INSULATED PANEL

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

SEALANT TAPE
[72008SR]
W/ MARRIAGE BEAD TO
PARTIAL JOINT SEALANT

NON-SKINNING BUTYL
TUBE SEALANT
[71008WH]

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.

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APPLICATION:
COLD STORAGE

ROOF TRANSITION
FREEZER OR COOLER

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

DATE: JUN '20

REV 00