

DRAWING INDEX

SERIAL NO.	DETAIL NO.	DESCRIPTION	ADHERED EPDM ROOF SYSTEM		
1 GENERAL: DRAWING INDEX & LEGEND			BALLASTED EPDM ROOF SYSTEM		
2 MEMBRANE DAMAGES & REPAIRS			MECHANICALLY ATTACHED EPDM ROOF SYSTEM		
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3 FASTENERS' FIELD DEVELOPED DEFICIENCIES			ROOF TYPES: "E" (EPDM ROOFS ONLY)		
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8	E 2.2.2	MEMBRANE - WET ROOF AREAS. PAGE 2 OF 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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15	E 2.6.3	MEMBRANE SEAM - RESTORATION OF T-JOINT DETAIL.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	E 2.6.4	MEMBRANE SEAM - RESTORATION OF FIELD SEAM AT VERTICAL TRANSITION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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18 E 3.1.2 FASTENERS-PROTRUSION WITH WET CONDITIONS. PAGE 2 OF 2. ROOF REPLACEMENT STAGE			DETAIL NUMBER		



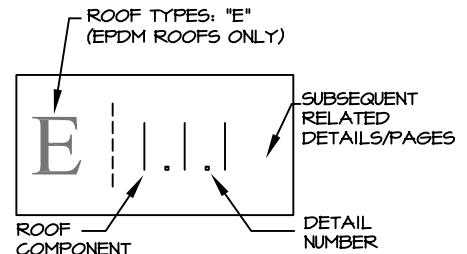
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I.1.2	I.1.3	E	1.1.1

EPDM ROOF
MEMBRANE:
RESTORATION
DETAILS

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20	E	4.2 GUTTER EDGE RESTORATION DETAIL.	<input type="radio"/> <input type="radio"/> <input type="radio"/>
		5 VERTICAL FLASHING DEFICIENCIES	
21	E	5.1 FLASHING TENTING CONDITION AT VERTICAL TRANSITIONS OF RISING WALLS	<input type="radio"/> <input type="radio"/> <input type="radio"/>
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23	E	5.2.2 3-D VIEW OF DETAIL 5.2.1 "A" & "B"	<input type="radio"/> <input type="radio"/> <input type="radio"/>
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26	E	6.1 OUTSIDE CORNER FLASHING RESTORATIO DETAIL	<input type="radio"/> <input type="radio"/> <input type="radio"/>
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		7 ROOF PENETRATION DEFICIENCIES	
28	E	7.1.1 PREMOLDED FLASHING REPIAR # 1	<input type="radio"/> <input type="radio"/> <input type="radio"/>
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31	E	7.2.1 RESTORATION OF FIELD FABRICATED FLASHING DETAIL.	<input type="radio"/> <input type="radio"/> <input type="radio"/>



EPDM ROOF MEMBRANE: RESTORATION DETAILS



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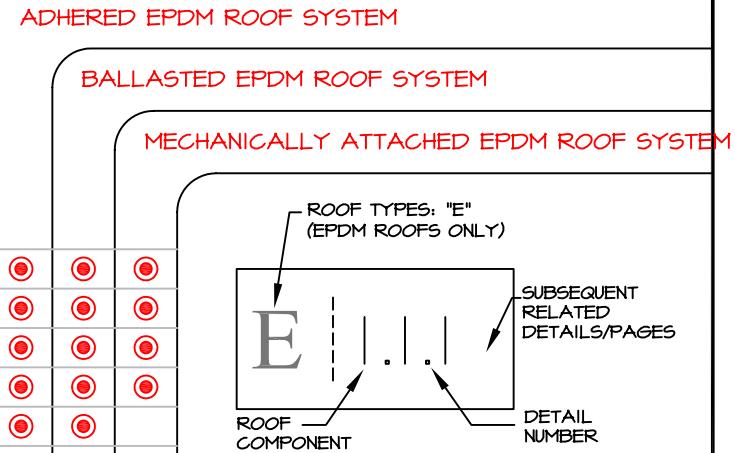
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1.1.1 1.1.3	E 1.1.2

DRAWING INDEX

SERIAL NO.	DETAIL NO.	DESCRIPTION	ADHERED EPDM ROOF SYSTEM	BALLASTED EPDM ROOF SYSTEM	MECHANICALLY ATTACHED EPDM ROOF SYSTEM
	8	ROOF DRAINAGE SYSTEM DEFICIENCIES			
32	E 8.1.1	TROUBLESHOOTING AT SCUPPER ABOVE MASONRY CAVITY WALL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33	E 8.1.2	TROUBLESHOOTING AT SCUPPER ABOVE STUD WALL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34	E 8.1.3	RESTORATION OF THROUGH WALL SCUPPER DETAIL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35	E 8.2.1	RESTORATION OF OVERFLOW SCUPPER DETAIL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36	E 8.3.1	TYP. ROOF DRAIN FLASHING REPAIR	<input type="radio"/>	<input type="radio"/>	
37	E 8.4.1	TROUBLESHOOTING FOR MOISTURE-LADEN INSULATION AT ADJUSTABLE HEIGHT ROOF DRAIN	<input type="radio"/>	<input type="radio"/>	
	9	MEMBRANE ADDITIONAL SECUREMENT AGAINST WIND UP-LIFT			
38	E 9.1.1	MEMBRANE FASTENING IN THE FIELD OF MEMBRANE	<input type="radio"/>	<input type="radio"/>	
39	E 9.1.2	MEMBRANE FASTENING AT MEMBRANE SEAMS	<input type="radio"/>	<input type="radio"/>	



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**EPDM ROOF
MEMBRANE:
RESTORATION
DETAILS**

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):

I.I.1 I.I.2

EPDM ROOF RESTORATION
DETAIL

E

1.1.3

LEGEND

	EXISTING RIGID BOARD ROOF INSULATION - DRY		NEW BONDING ADHESIVE IN 2D DETAIL.
	EXISTING RIGID BOARD ROOF INSULATION - WET, SHOWING MOISTURE CONDITIONS AFTER ROOF SURVEY.		EXISTING BONDING ADHESIVE IN 2D DETAIL.
	COMPRESSED & WET INSULATION		NEW/EXISTING BONDING ADHESIVE IN 3D SKETCH
	WATER (NOT MOISTURE)		EXISTING SEAM OVERLAY
	NEW REPLACEMENT RIGID BOARD INSULATION TO MATCH WITH EXISTING IN TYPE & THICKNESS		NEW SPLICING CEMENT IN 2D DETAIL.
	EPDM MEMBRANE DAMAGED DUE TO OIL OR FAT.		EXISTING SPLICING CEMENT IN 2D DETAIL.
	ROOF STONE BALLAST AT BALLASTED EPDM ROOFS		SPLICING CEMENT IN 3D SKETCH.
	EXISTING FOAM INSULATION AROUND PIPES		HP-250 PRIMER
	SEAM TAPE IN 3-D SKETCHES		WEATHERED MEMBRANE CLEANER



PRODUCT LEGEND & ABBREVIATIONS

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):

1.3.2	1.3.3

EPDM ROOF RESTORATION
DETAIL

E 1.3.1

LEGEND

	3" OR 6" SecurTape		WIND-DRIVEN RAIN
*****	NEW WATER CUT-OFF MASTIC		MIGRATING RAIN WATER INSIDE THE BUILDING ENVELOPE
*****	EXISTING WATER CUT-OFF MASTIC		LOOSE BATT INSULATION IN STUD WALLS
	NEW IN-SEAM SEALANT		EXISTING FACE BRICK
	EXISTING IN-SEAM SEALANT		EXISTING CMU (CONCRETE MASONRY UNIT)
OR	EXISTING TERMINATION BAR		EXISTING CAVITY WALL INSULATION
	NEW TERMINATION BAR		NEW LAP SEALANT IN 2D DETAIL.
	NEW WOOD BLOCKING, WHERE REQUIRED		NEW/EXISTING LAP SEALANT IN 3D SKETCH.
	EXISTING WOOD BLOCKING		EXISTING LAP SEALANT IN 2D DETAIL.



PRODUCT LEGEND & ABBREVIATIONS

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):

1.3.1	1.3.3

EPDM ROOF RESTORATION
DETAIL

E 1.3.2

ABBREVIATIONS

3-D	3 DIMENSIONAL VIEW		
DIM.	DIMENSION		
P1, P2, P3, P4	PRIORITIES		
RUSS	REINFORCED UNIVERSAL SECUREMENT STRIP		
T.O.D.	TOP OF DECK		
T.O.W.	TOP OF WALL		
YR	YEAR		



PRODUCT LEGEND & ABBREVIATIONS

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
I.3.1	I.3.2

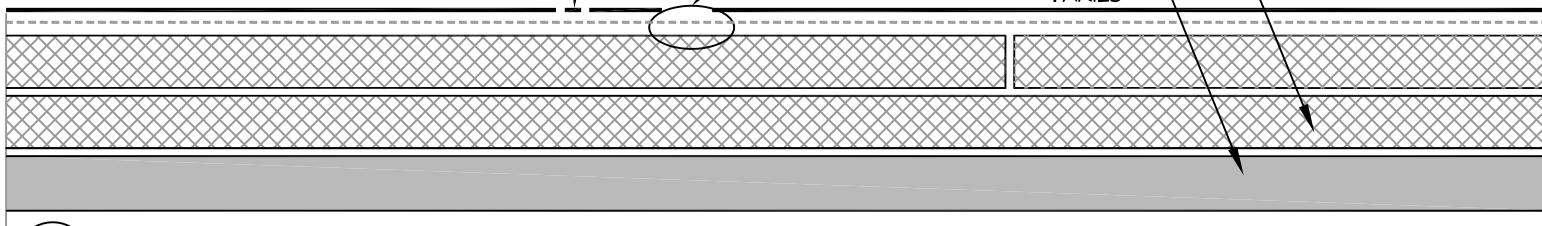
EPDM ROOF RESTORATION
DETAIL

E	1.3.3
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VERIFY THE PRESENCE OF MOISTURE WITHIN 6" DIAMETER OF DEFICIENCY WITH A HAND-HELD MOISTURE METER (DELMHURST BD-9 OR SIMILAR) TO SEE IF ROOF SYSTEM IS DRY UNDERNEATH THE DEFICIENCY. IF INSULATION IS DRY, INSTALL A NEW PATCH PER DETAIL B BELOW. OTHERWISE, CONTINUE TESTING IN SURROUNDING AREA TO THE EXTENT OF THE WET ROOF SYSTEM & DRAW DASHED LINE FOR WET AREA REPLACEMENT.

VISUALLY IDENTIFIED CUT/HOLE/DAMAGED MEMBRANE, ENCIRCLE ON MEMBRANE FOR REPAIRS.
INSULATION, TYPE AND THICKNESS VARIES

ROOF DECK, TYPE VARIES

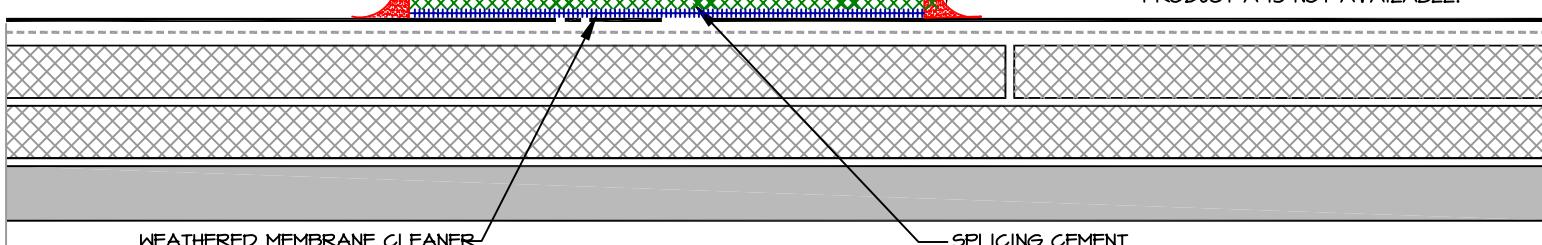


A FIELD SURVEYED MEMBRANE DEFICIENCIES

NEW 6" WIDE PRESSURE-SENSITIVE CURED COVER STRIP PATCH. EXTEND MIN. 3" BEYOND THE EDGE OF ANY CUT/HOLE

LAP SEALANT

TYPES OF MARKERS SUGGESTED TO MARK THE DEFICIENCIES ON ROOF MEMBRANES: MANUFACTURER: LA-CO/MARKAL
PRODUCT A: "QUIK STIK", WHITE MARKER ON BLACK MEMBRANE OR COLORED MARKER ON WHITE MEMBRANE OR
PRODUCT B: "VALVE ACTION PAINT MARKER", IF PRODUCT A IS NOT AVAILABLE.



B REPAIR PATCH AT ABOVE LOCATION, WHERE INSULATION IS FOUND DRY.

NOTE: THIS DETAIL ONLY APPLIES AT ROOF CUTS WHERE DRY INSULATION EXISTS. WHERE WET INSULATION IS FOUND, FOLLOW DETAIL 2.2.2 ON NEXT PAGE.

SURVEY STEPS:

STEP 1: ON FULLY ADHERED ROOF SYSTEMS, WALK THROUGH VERIFYING EVERY SQUARE FOOT OF ROOF AREA TO IDENTIFY & MARK THE CUTS/HOLES OR SIMILAR DAMAGES IN THE ROOF MEMBRANE. USE LISTED TYPE OF PEN.

STEP 2: ENCIRCLE AROUND THE CUT/HOLE THEN VERIFY BY WALKING IN THE VICINITY OF DEFICIENCY TO FEEL THE SOFTNESS UNDER FOOT PRESSURE. IF THE AREA FEELS SOFTER, LIGHTLY MARK TO THE EXTENT OF SOFTNESS WITH A DASHED LINE USING AN ERASABLE CRAYON.

STEP 3: USE A HAND-HELD MOISTURE METER (DELMHURST BD-9) TO PROBE UNDER THE MEMBRANE TO IDENTIFY THE PRESENCE OF MOISTURE AT CUT/HOLE FIRST. IF FOUND DRY, INSTALL A PATCH PER DETAIL B ABOVE. IF MOISTURE IS RECORDED, CONTINUE TESTING WITHIN THE DASHED LINE AREA TO CONFIRM THE EXTENT OF WET CONDITIONS.

STEP 4: MARK A SOLID LINE WITH ERASABLE CRAYON TO DETERMINE A BOUNDARY BETWEEN DRY & WET ROOF CONDITIONS. THE MARKING MAY APPEAR LIKE A WIGGLY LINE INTO A CLOUD LIKE APPEARANCE.

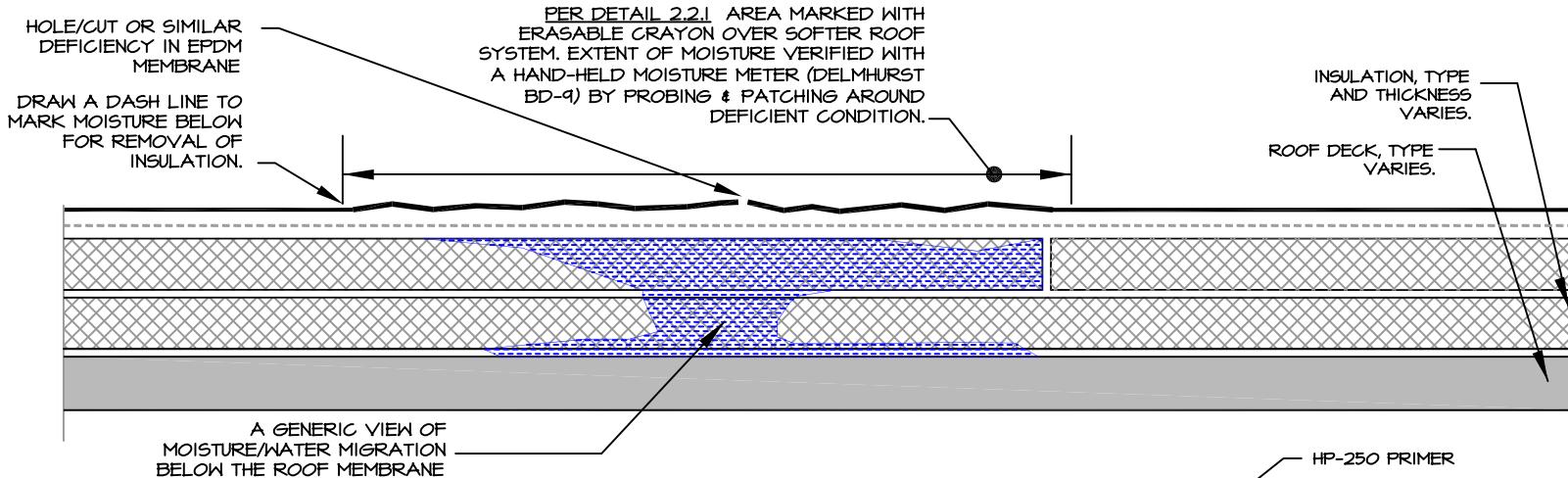
STEP 5: DEVELOP A STRAIGHT LINE RECTANGULAR AREA AROUND THIS CLOUD FORM TO CONVENE THE ROOF REPLACEMENT WITH NEW INSULATION BOARDS. USE PERMANENT MARKER "QUIK-STIK" FOR FUTURE REPLACEMENT OF WET AREA.



MEMBRANE - CUTS, HOLES OR SIMILAR DAMAGES. PAGE 1 OF 2.

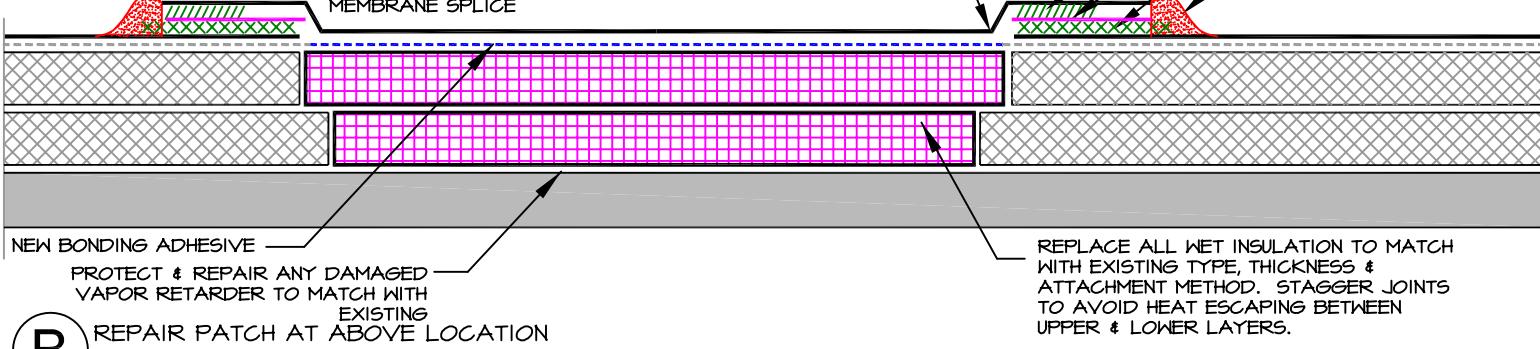
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2.2.2
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EPDM ROOF RESTORATION DETAIL E 2.2.1



A CUTS/HOLE REPAIR/REPLACEMENT - AT MOISTURE LADEN INSULATION

NEW EPDM MEMBRANE TO MATCH IN KIND, TYPE & THICKNESS WITH EXISTING. PATCH TO OVERLAP MIN. 6" AT EXISTING EPDM MEMBRANE. USE SECURTAPE FOR MEMBRANE SPLICING.



B REPAIR PATCH AT ABOVE LOCATION

REPLACE ALL WET INSULATION TO MATCH WITH EXISTING TYPE, THICKNESS & ATTACHMENT METHOD. STAGGER JOINTS TO AVOID HEAT ESCAPING BETWEEN UPPER & LOWER LAYERS.

NOTES:

1. THIS DETAIL SHOULD BE USED IN CONTINUATION WITH DETAIL 2.2.I. AND FOLLOW THE ROOF SURVEY STEPS NOTED ON DETAIL 2.2.I. THIS DETAIL ONLY REQUIRES PATCHING OF CUT/HOLES IF THERE IS NO MOISTURE RECORDED IN INSULATION BEHIND THE CUT.
2. ONCE MOISTURE IS RECORDED (SIMILAR TO DEPICTED IN ABOVE DETAIL) MARK FOR REPLACEMENT IN A RECTANGULAR SHAPE DESPITE THE FACT THE MOISTURE DIAGRAM WILL APPEAR LIKE A CLOUD. MAKE A ROOF CUT TO IDENTIFY THE COMPLETE ROOF SYSTEM BELOW TO REPLACE WITH NEW SYSTEM TO MATCH WITH EXISTING.
3. IF PERMANENT PATCH IS NOT INSTALLED, A TEMPORARILY PATCH WITH A DUCT TAPE SHOULD BE INSTALLED TO IMPEDE THE MIGRATION OF MOISTURE UNDER THE MEMBRANE.

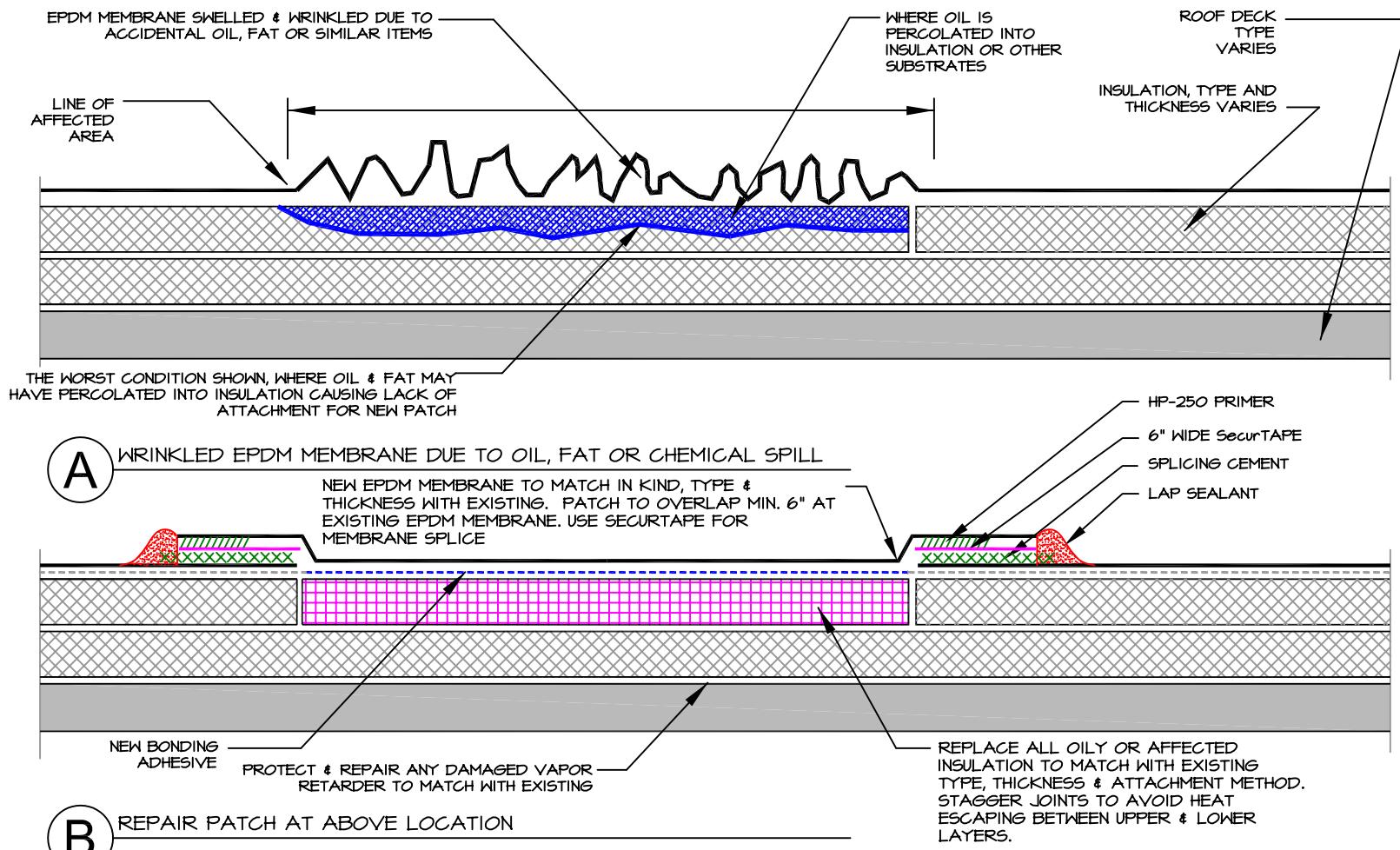


MEMBRANE - WET ROOF AREAS. PAGE
2 OF 2.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
2.2.I
LEGEND 1.3.1

E

2.2.2



NOTES:

1. FIELD VERIFY ALL THE LOCATIONS OF OIL, FAT OR OTHER SIMILAR SPILLAGE ON THE EPDM MEMBRANE. COORDINATE WITH THE OWNER TO AVOID FUTURE SPILLAGE, e.g., MODIFY THE HVAC UNITS CAUSING THE LEAKAGE OF OILS ONTO EPDM MEMBRANE, OR AREAS ABOVE KITCHEN WILL REQUIRE FAT GUARDS WHERE EXHAUST VENTS WERE INSTALLED WITHOUT FAT GUARDS.
2. PATCH INSTALLATION WILL BE A FUTILE EFFORT UNLESS THE CAUSE OF OIL OR FAT SPILLAGE IS NOT BLOCKED OR RECTIFIED. ENSURE FIRST NECESSARY MODIFICATIONS ARE MADE AS NEEDED.
3. MAKE A ROOF CUT TO SEE THE UNDERLYING CONDITIONS. REMOVE ALL PORTIONS OF SUBSTRATE THAT WILL AFFECT THE ADHESION QUALITY OF NEW PATCH DUE TO PRESENCE OF PERCOLATED OIL BEHIND. REMOVE SUBSTRATE AS NECESSARY AND REPLACE TO MATCH WITH EXISTING.
4. INSTALL A NEW PATCH EXTENDING MIN. 6" BEYOND THE CUT DIMENSIONS.



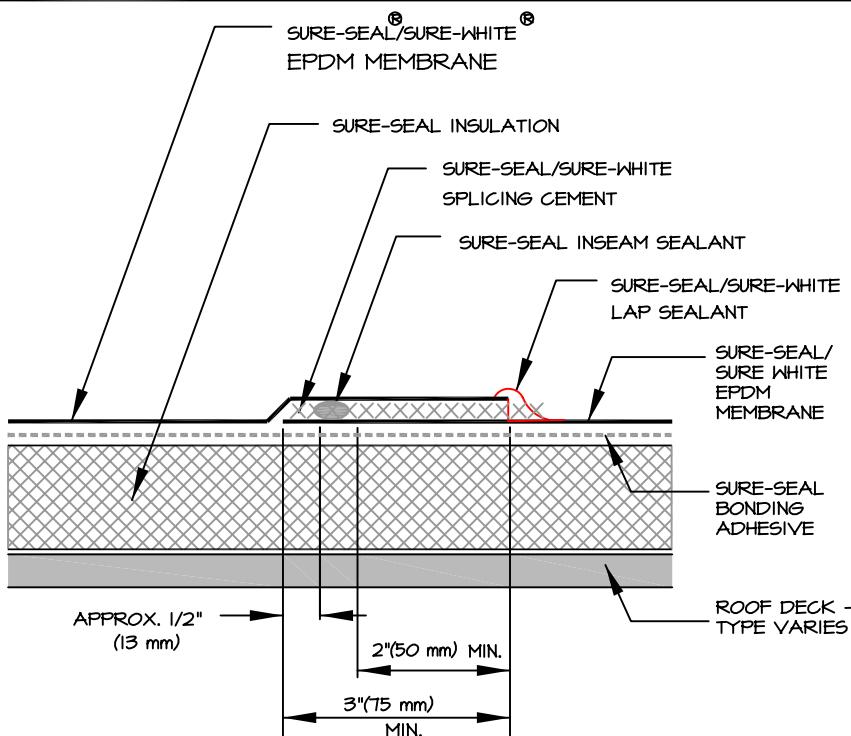
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MEMBRANE - BLISTERED DUE TO OIL, FAT OR CHEMICAL SPILLS

FOR APPLICABLE
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INFORMATION, SEE
PAGES OR
DETAIL(S).
2.2.2
LEGEND 3.1

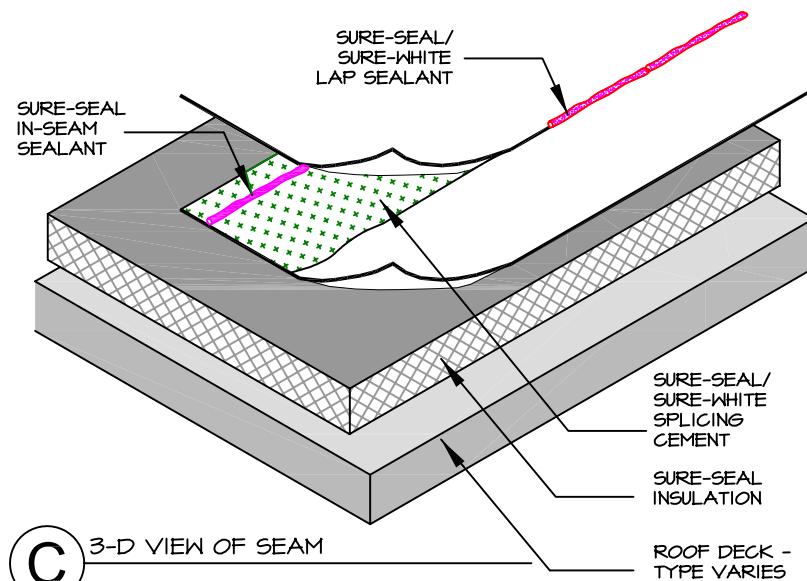
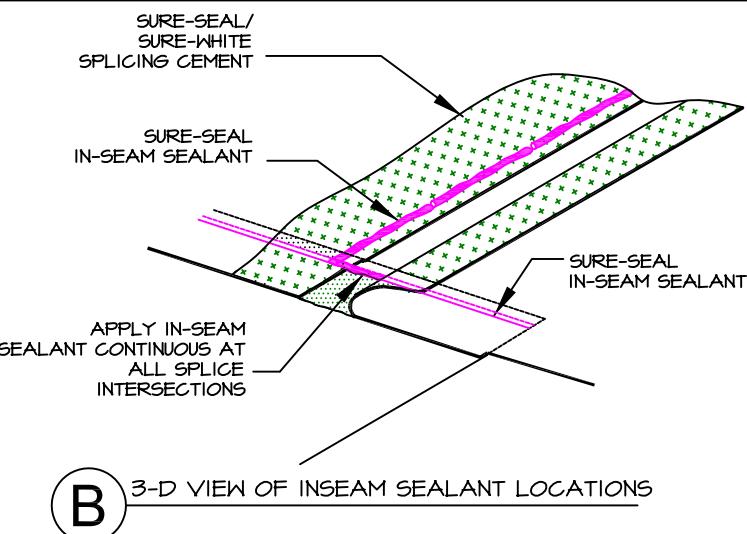
EPDM ROOF RESTORATION
DETAIL
E

2.3



NOTES:

1. MEMBRANE SPLICE PROCEDURE IS FOR SPLICES BETWEEN CURED EPDM SECTIONS.
2. APPLY SPlicing CEMENT OVER ENTIRE 3" (75 mm) MINIMUM SPLICE AREA PRIOR TO APPLICATION OF IN-SEAM SEALANT.
3. IN-SEAM SEALANT SHALL BE CONTINUOUS ALONG THE LENGTH OF THE SPLICE.
4. LIMITED FOR USE ON PROJECTS WITH MAX. 10 YR. WARRANTY. NOT FOR USE ON MECHANICALLY FASTENED ROOFING SYSTEMS - REGARDLESS OF WARRANTY LENGTH.

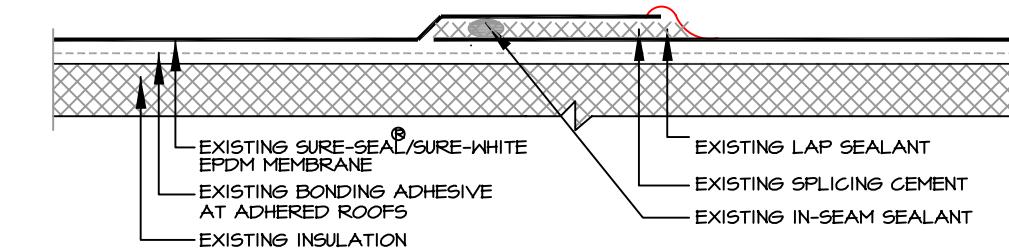


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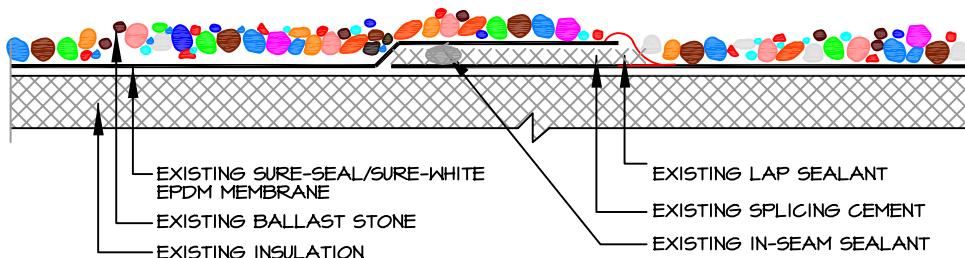
LEGEND I.3.1

EPDM ROOF RESTORATION
DETAIL

2.4



A EXISTING SEAM: ORIGINAL CONSTRUCTION - ADHERED SYSTEM



B EXISTING SEAM: ORIGINAL CONSTRUCTION - BALLASTED WITH STONE

REMOVE & RESET
STONE BALLAST AFTER
REPAIRS ARE
COMPLETED AT SEAMS,
WHERE STONE
BALLASTED ROOFS
EXIST

WEATHERED MEMBRANE CLEANER. COAT
CLEANED SURFACE WITH EP-95. SEE SHEET
2.5.2

THOROUGHLY CLEAN & APPLY
SPlice ADHESIVE AT UNBONDED
SEAM AREAS & RESET THE SEAM

C FIELD SEAM PREPARATION - BOTH ADHERED & BALLASTED MEMBRANES

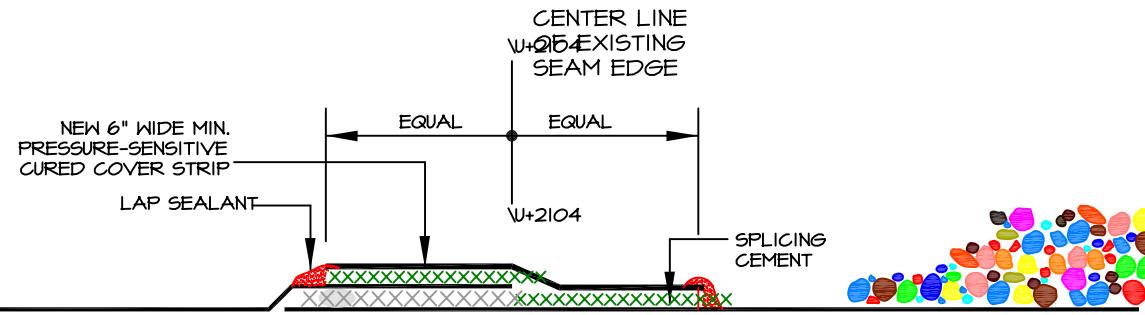
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LEGEND	1.3.1

EPDM ROOF RESTORATION
DETAIL

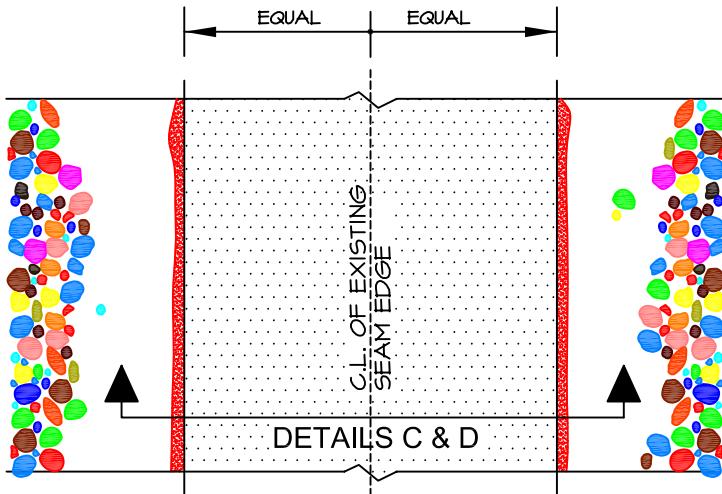
E 2.5.1

CARLISLE
Carlisle SynTec Incorporated

REMOVE & RESET BALLAST STONE
AFTER REPAIRS ARE COMPLETED
AT SEAMS, WHERE BALLASTED
ROOFS EXIST



D FIELD SEAM RESTORATION - BOTH ADHERED & BALLASTED MEMBRANES



E PLAN VIEW OF SEAM - BOTH ADHERED & BALLASTED SYSTEMS

NOTES:

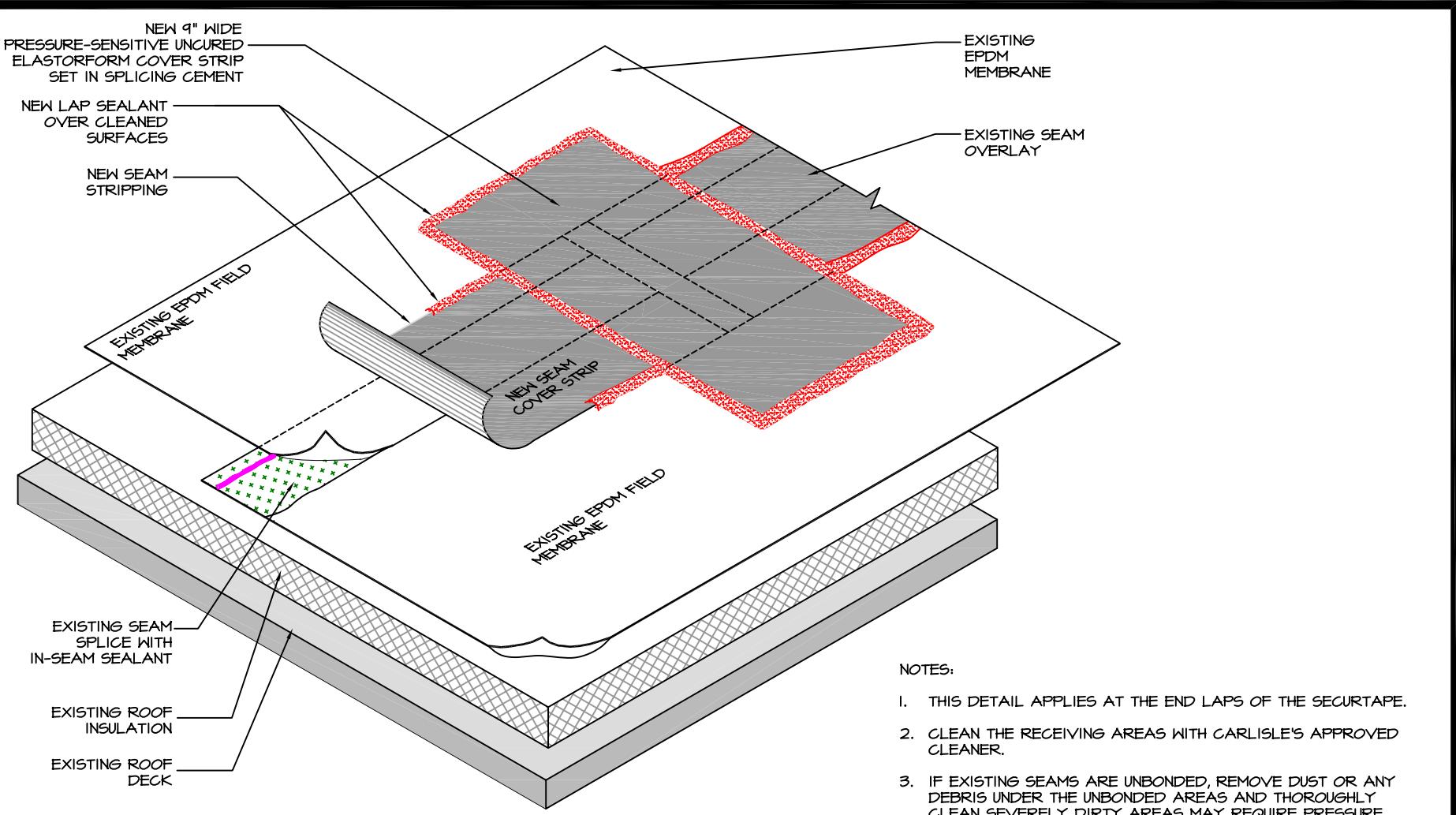
1. FIRST, INSPECT TO IDENTIFY DEFICIENT SEAMS AND MARK FOR REPAIR LOCATIONS. ON BALLASTED ROOFING SYSTEMS, IT WILL REQUIRE THE REMOVAL OF THE STONE AT EACH SEAM.
2. ENSURE THERE IS NO MOISTURE PRESENT UNDER THE DEFICIENT SEAM, OTHERWISE, ALSO MARK FOR CUT(S), HOLES OR SIMILAR DEFICIENCIES & REPLACE THE WET PORTIONS OF ROOF SYSTEM.
3. REMOVE STANDING WATER WITHIN THE WORK AREAS AND FIRST THOROUGHLY CLEAN & DRY THE MEMBRANE SURFACE.
4. AT DRY BUT DUSTY AREAS, REMOVE ALL DUST. USE SOFT NYLON BRUSH AT STUBBORN DUST AND THOROUGHLY CLEAN, WASH & DRY THE SURFACE.
5. USE CARLISLE APPROVED CLEANER TO CLEAN AND PREPARE FOR SPLICE APPLICATION. USE FRESH COTTON RAGS AT EACH AREA AND ACHIEVE A DARK BLACK SURFACE OF EPDM.
6. APPLY SPLICE ADHESIVE PER CARLISLE'S SPECIFICATIONS.
7. INSTALL NEW 6" WIDE MIN. PRESSURE-SENSITIVE CURED COVER STRIP OR 9" WIDE UNCURED PRESSURE SENSITIVE ELASTOFORM FLASHING IN SPLICE ADHESIVE.
8. IF WATER TEST IS NOT REQUIRED BY DESIGNER, REPLACE THE STONE AT BALLASTED ROOFING SYSTEM AREAS.
9. OTHERWISE PERFORM A WATER TEST TO VERIFY THE LEAK LOCATIONS AND REPAIR ACCORDINGLY.



MEMBRANE SEAM RESTORATION OF
FIELD SEAM. PAGE 2 OF 2.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
2.4
2.5.1
2.6.1
2.6.2
2.6.3
LEGEND I.3.1

EPDM ROOF RESTORATION
DETAIL
E 2.5.2



A

RESTORATION OF SPLICED SEAMS WITH IN-SEAM SEALANT

NOTES:

1. THIS DETAIL APPLIES AT THE END LAPS OF THE SECURTAPE.
2. CLEAN THE RECEIVING AREAS WITH CARLISLE'S APPROVED CLEANER.
3. IF EXISTING SEAMS ARE UNBONDED, REMOVE DUST OR ANY DEBRIS UNDER THE UNBONDED AREAS AND THOROUGHLY CLEAN SEVERELY DIRTY AREAS MAY REQUIRE PRESSURE CLEANING WITH HARD NYLON OR SOFT WIRE BRUSH TO ACHIEVE A DARK BLACK SURFACE OF MEMBRANE.
4. REBOND THE DETACHED AREAS WITH SPLICING CEMENT
5. INSTALL A MIN. 9" WIDE PRESSURE-SENSITIVE UNCURED ELASTORM FLASHING COVER STRIP SET IN SPLICING CEMENT.



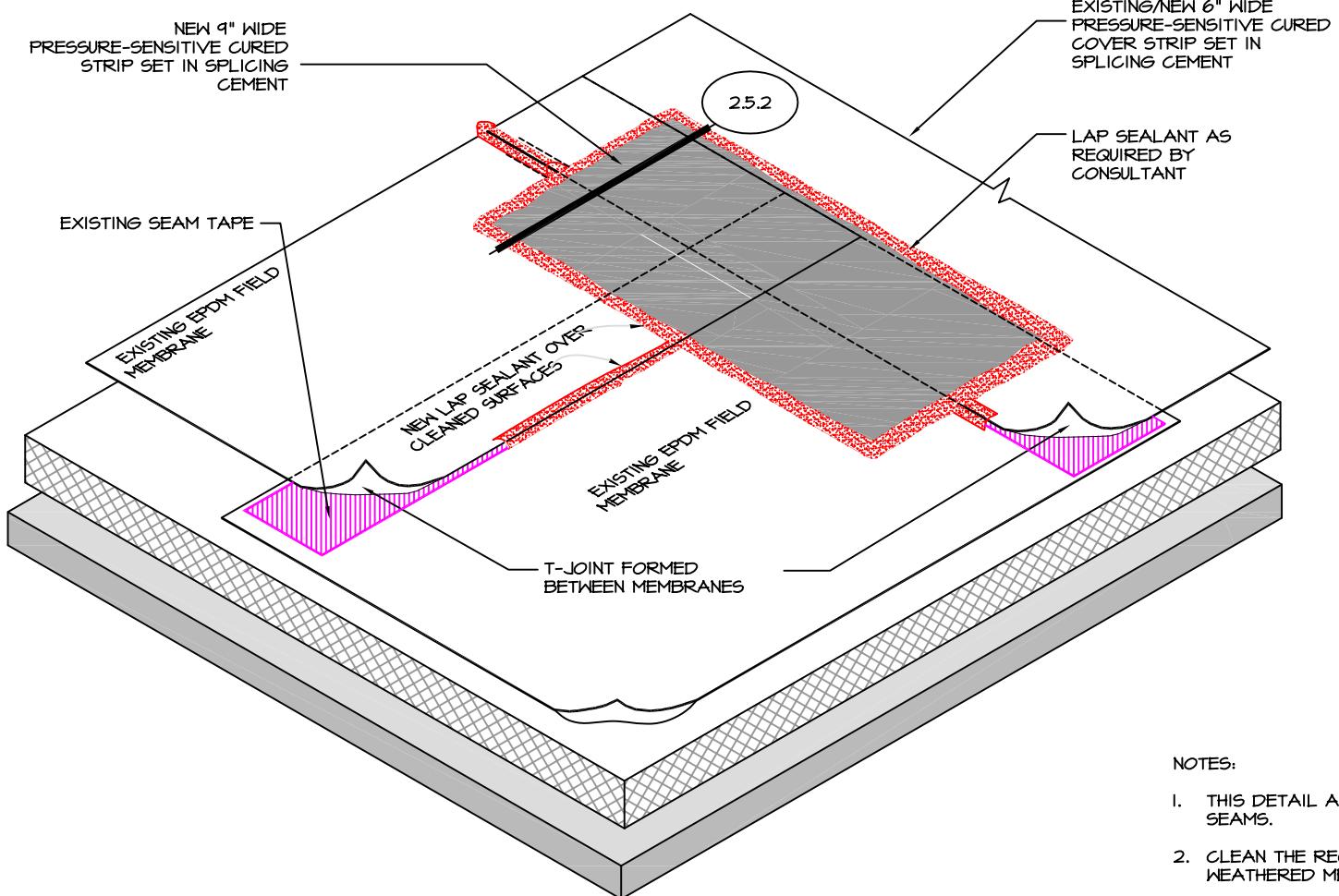
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RESTORATION OF SPLICED SEAMS
WITH IN-SEAM SEALANT

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
2.4
2.5.1
2.6.1
2.6.3
LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E 2.6.1



NOTES:

1. THIS DETAIL APPLIES AT THE T-JUNCTION OF SEAMS.
2. CLEAN THE RECEIVING AREAS WITH CARLISLE'S WEATHERED MEMBRANE CLEANER.
3. IF EXISTING SEAMS ARE UNBONDED, REMOVE DIRT UNDER THE UNBONDED AREAS AND THOROUGHLY CLEAN.
4. REBOND THE DETACHED AREAS WITH SPLICING CEMENT.

(A)

RESTORATION OF SEAMS WITH EXISTING SEAM TAPES

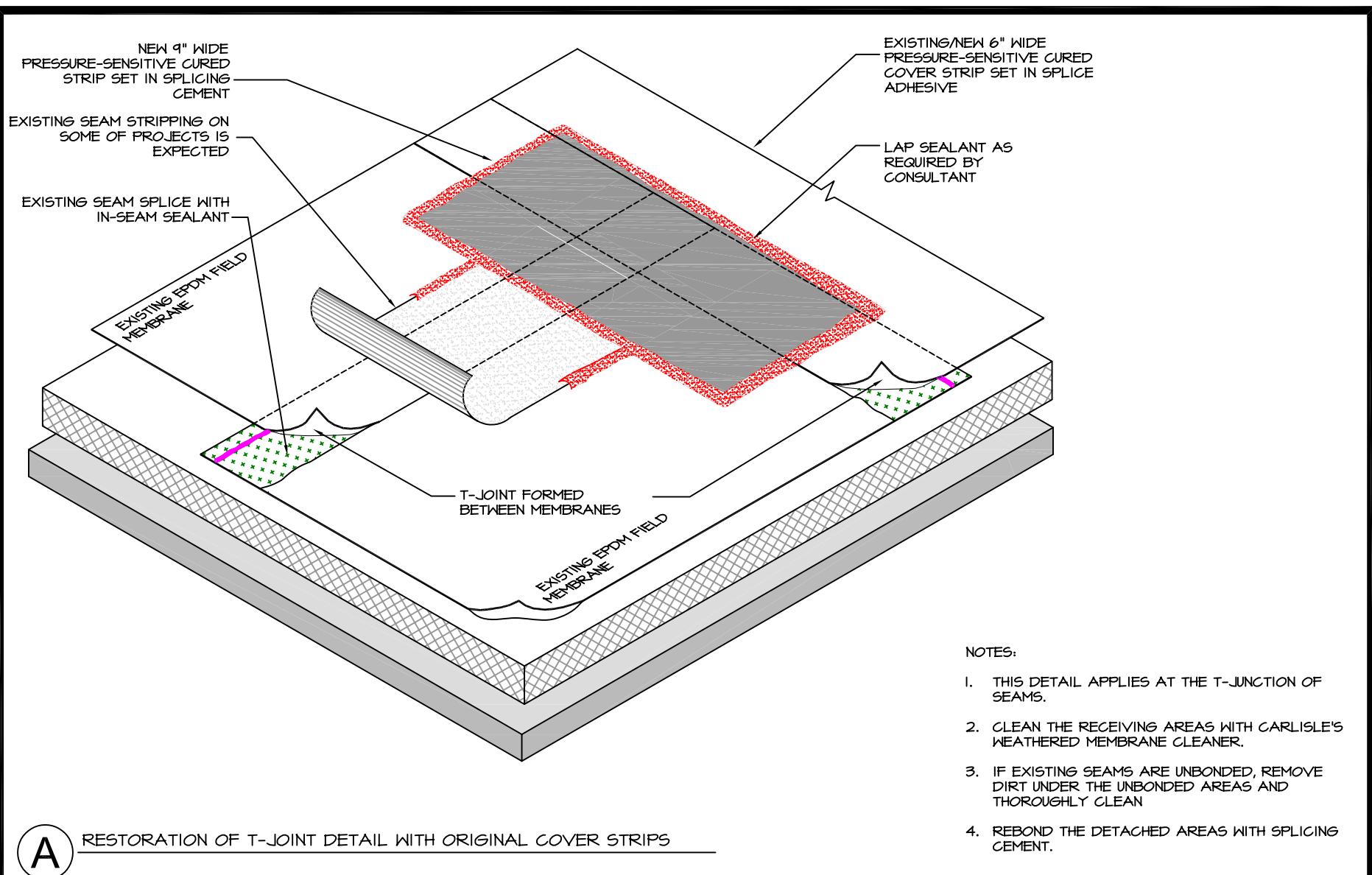
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Carlisle SynTec Incorporated

RESTORATION OF SEAMS WITH EXISTING SEAM TAPES

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAILS:	
2.4	2.5.1
2.5.2	2.6.1
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EPDM ROOF RESTORATION
DETAIL

E 2.6.2



A

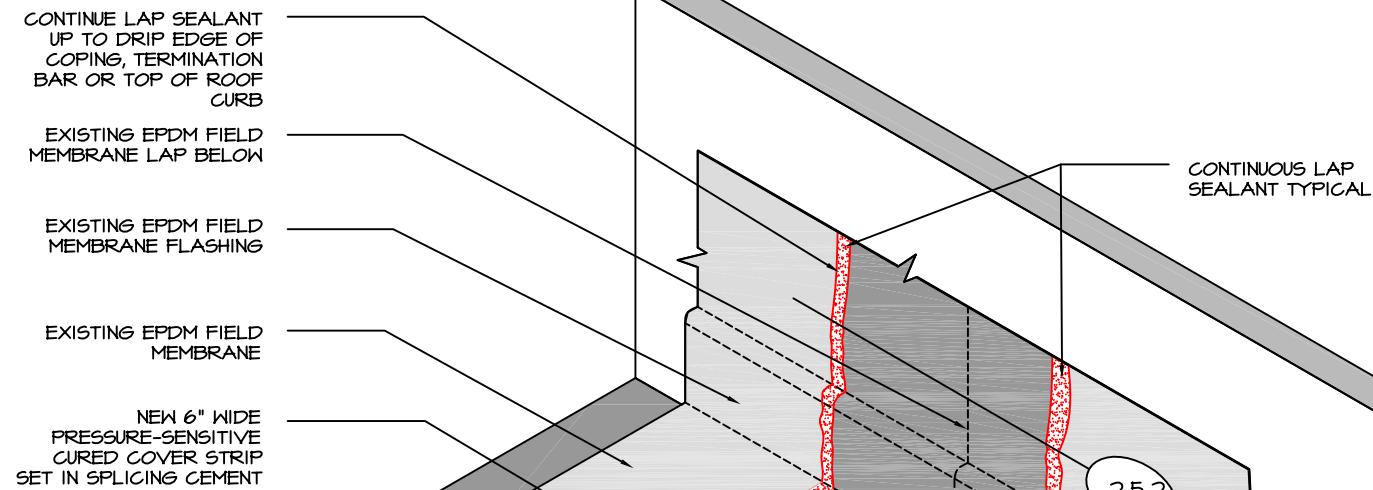
RESTORATION OF T-JOINT DETAIL WITH ORIGINAL COVER STRIPS

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MEMBRANE SEAM - RESTORATION OF T-JOINT DETAIL.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
2.4	2.5.1
2.5.2	2.6.1
2.6.3	
LEGEND	3.1

EPDM ROOF RESTORATION DETAIL
E 2.6.3



NOTES:

1. FIRST, INSPECT THE ENTIRE PERIMETER AND MARK THE VISUAL DEFICIENCIES.
2. RESECURE THE ANCHOR STRIP WHERE LOOSE OR FASTENERS ARE PROTRUDING OUT. COORDINATE WITH THE OWNER TO REPLACE THE EXISTING ANCHOR STRIP WHERE IT IS NOT SERVICEABLE.
3. INSPECT THE EXISTING FIELD LAP SEAM FOR UNBONDING CONDITIONS AND FIRST INSTALL A REPAIR PATCH PRIOR TO COMPLETE STRIPPING OF SEAM.
4. WHERE NEW STRIPPING IS TO BE INSTALLED, THOROUGHLY CLEAN THE RECEIVING AREAS WITH CARLISLE'S WEATHERED MEMBRANE CLEANER.
5. REFER TO SECTION DETAIL 2.5.2 FOR CROSS SECTION DETAIL.

A

RESTORATION OF FIELD SEAM AT VERTICAL TRANSITION

EXISTING PERIMETER
ANCHOR STRIP-ENSURE
IT IS SECURED
PROPERLY



MEMBRANE SEAM - RESTORATION OF FIELD SEAM AT VERTICAL TRANSITION

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
2.4	2.5.1
2.5.2	2.6.1
2.6.2	
LEGEND 1.3.1	

EPDM ROOF RESTORATION
DETAIL

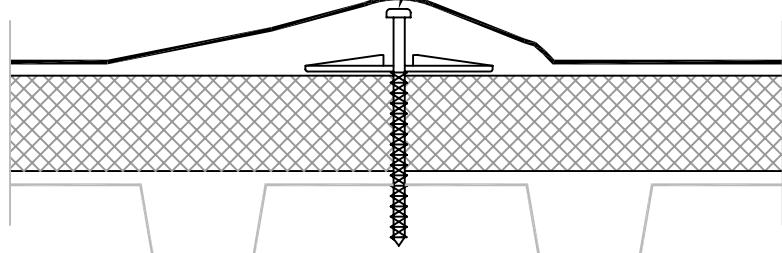
E 2.6.4

**DEFICIENCY -
STAGE 1**

REPAIR

REPAIR DETAIL

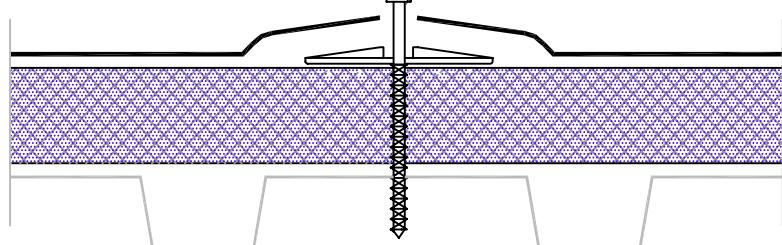
FASTENER BACKED OUT,
CAUSING TENTING CONDITION IN
EPDM MEMBRANE. SEE DETAIL
B OR DETAIL C WHERE
PROTRUSION MAY CAUSE
PUNCTURE.



(A) EARLY TENTING CONDITION DUE TO ELEVATED FASTENERS

**DEFICIENCY -
STAGE 2**

FASTENER PROTRUDED
THROUGH EPDM MEMBRANE,
CAUSING HOLE IN
MEMBRANE - POSSIBLY
CAUSING WET INSULATION.



NOTE: FILED VERIFY THE PRESENCE OF MOISTURE BELOW EPDM MEMBRANE.
REPLACE PORTION OF ROOF WHERE WET, OTHERWISE REPLACE FASTENER
AND COVER WITH A NEW EPDM PATCH. INSULATION MAY BE WET OR DRY AT
DIFFERENT LOCATIONS. CONSULTANT TO VERIFY THE OVERALL CONDITION OF
ROOF.

**(C) REPLACEMENT - WHERE OVERALL CONDITION IS NOT
ACCEPTABLE & INSULATION IS WET**

**REPLACE - ADVANCED
STAGE & WET**

INSTALL NEW PRESSURE-SENSITIVE CURED
COVER STRIP. EXTEND MIN. 3" BEYOND
THE EDGE OF ANY CUT/SPLIT IN
MEMBRANE BELOW

INSTALL NEW APPROVED FASTENER
WITH FASTENING PLATE THROUGH
EXISTING EPDM MEMBRANE.

SURE-SEAL
LAP SEALANT

REMOVE & DISCARD THE EXISTING
PROTRUDED FASTENER AND SAVE FOR
CONSULTANT'S REVIEW.

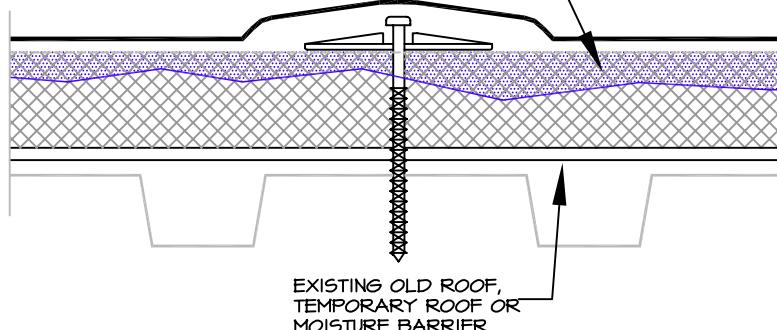
**(B) REPAIR - WHERE OVERALL ACCEPTABLE CONDITION &
INSULATION IS DRY**

NOTES:

1. NOTE TO CONSULTANT: THE PROCESS OF LOCATING & MARKING THE FASTENER DEFICIENCIES ON A ROOF PLAN MAY NOT BE CONVENIENT FOR A CONSULTANT AS IT IS A LABOR INTENSIVE & TIME CONSUMING PROCESS. THE CONSULTANT SHOULD INSPECT THE ENTIRE ROOF AREA BY SLOWLY WALKING & OBSERVING EACH SQUARE FOOT OF ROOF AREA. MARK ON EPDM MEMBRANE EACH DEFICIENT FASTENER WITH COLOR CODED CRAYONS FOR A ROOFER TO READ & REPAIR. DO NOT WRITE ON A ROOF MEMBRANE WHERE IT IS STEEP SLOPED AND VISIBLE TO PUBLIC OR WHERE OWNER DOES NOT PERMIT TO WRITE ON A ROOF MEMBRANE. A UNIT PRICE CONTRACT MAY REQUIRE TO KEEP A COUNT OF REPLACED FASTENERS.
2. NOTE TO ROOFER: DO NOT DRIVE DOWN THE PROTRUDING FASTENERS. REMOVE & DISCARD THEM, EXCEPT SAVE SAMPLES (6) FOR FUTURE REVIEW. ALL LOOSE/PROTRUDING FASTENERS SHOULD BE REPLACED WITH NEW FASTENERS WITHIN APPROPRIATE DISTANCE AND NEW PATCHES SHOULD BE INSTALLED.

**DEFICIENCY -
EARLY STAGE**

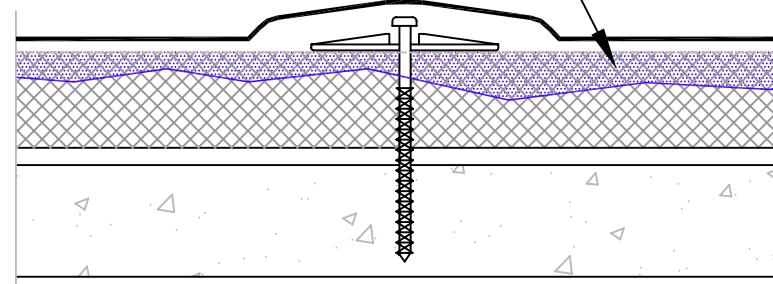
UPPER LAYER OF
INSULATION IS WET



(A) COMPRESSED WET INSULATION - EARLY CONDITION
METAL DECK

**DEFICIENCY -
EARLY STAGE**

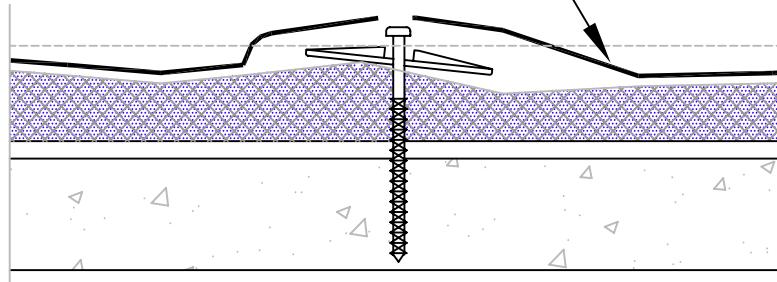
MORE SEVERE WET
CONDITION, ABOVE
CONCRETE DECK OR
VAPOR BARRIER
AREAS, WHERE
MOISTURE MAY NOT
RELEASE



(B) COMPRESSED WET INSULATION - EARLY CONDITION
CONCRETE DECK

**DEFICIENCY -
ADVANCED STAGE
MORE PROFOUND
ON CONCRETE DECK**

AN ADVANCED STAGE OF
TENTING CONDITION DUE TO
COLLAPSED WET INSULATION.
REPLACEMENT IS
RECOMMENDED



(C) COMPRESSED WET INSULATION - ADVANCED
CONDITION

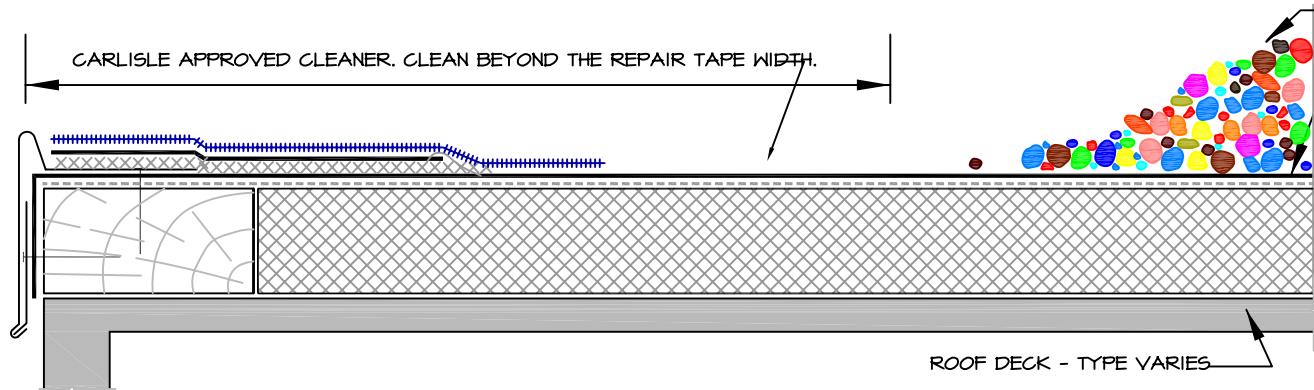
NOTES:

1. NOTE TO CONSULTANT: FIELD VERIFY THE DEPICTED DEFICIENT CONDITIONS TO IDENTIFY THE EXTENT OF DAMAGE. REPLACEMENT OF A PORTION OF ROOF OR ENTIRE ROOF IS RECOMMENDED WHERE INSULATION IS COLLAPSED DUE TO PROLONGED, CHRONIC CONDITION OF FASTENER'S PROTRUSION. NO SPOT REPAIRS ARE RECOMMENDED AT THE TIME OF THIS PUBLICATION BECAUSE ANY COMPRESSED OR COLLAPSED INSULATION WILL CAUSE DELAMINATION OF MEMBRANE & POSSIBLE WIND DAMAGE.
2. WHERE A PORTION OF ROOF NEEDS REPLACEMENT, USE SAME THICKNESS OF INSULATION, BUT USE A RIGID BOARD, HIGHER COMPRESSIVE STRENGTH INSULATION. ON CONCRETE DECK USE ADHESIVE IN LIEU OF FASTENERS WHERE PROJECT CONDITIONS ALLOW.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
1.3.1	3.1.1
LEGEND 1.3.1	

EPDM ROOF RESTORATION
DETAIL

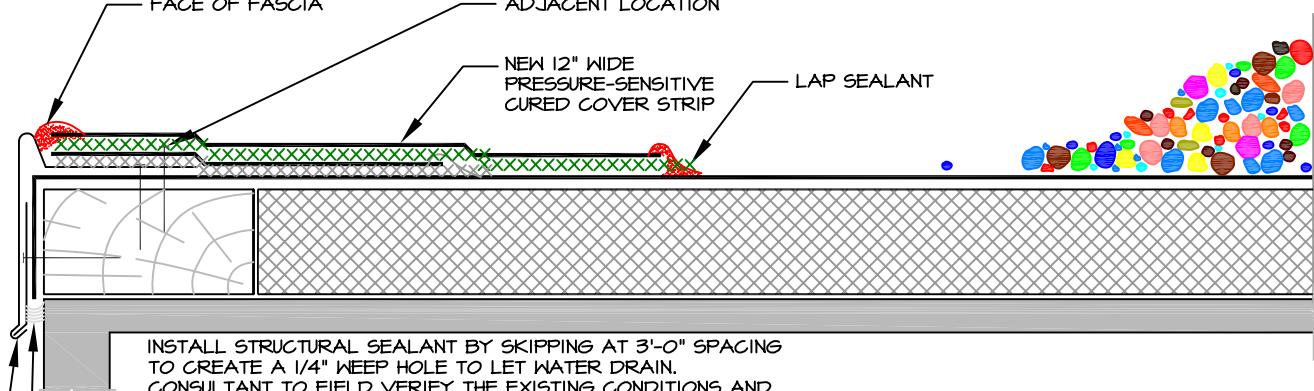
E 3.1.2



A GRAVEL STOP ROOF EDGE RESTORATION DETAIL - PREPARATION STAGE

INSERT LAP SEALANT AT THE CREVICES OF SHEET METAL JOINTS TO SEAL THE OPENINGS. ENSURE SEALANT DOES NOT Ooze onto the FACE OF FASCIA

WHERE EXISTING NAILS ARE LOOSE OR PROTRUDING, REMOVE & REPLACE WITH OVERSIZED NAILS OR ADD NEW NAILS AT ADJACENT LOCATION



B GRAVEL STOP ROOF EDGE RESTORATION DETAIL - RESTORATION OF FLASHING



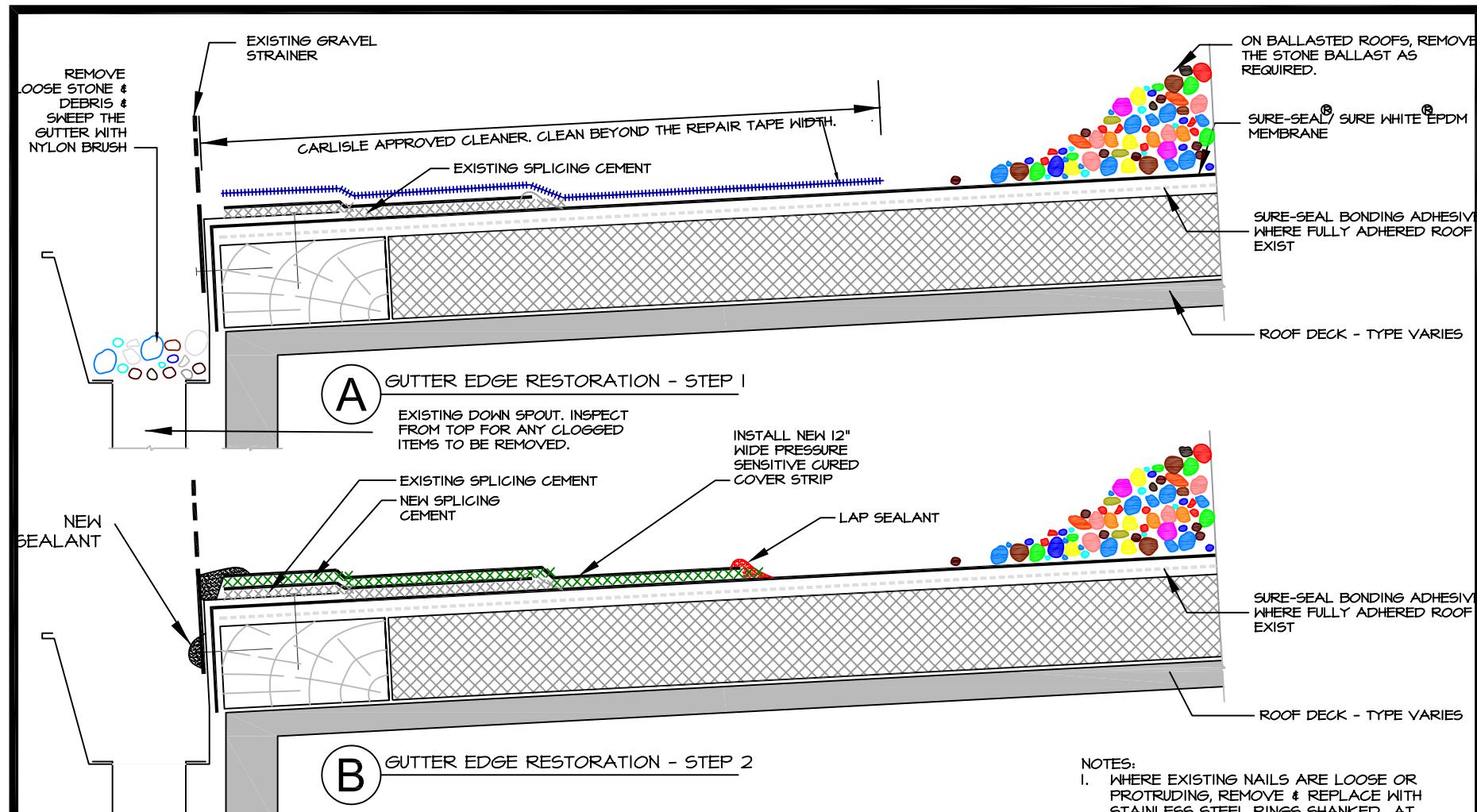
GRAVEL STOP EDGE RESTORATION DETAIL

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S).
2.5.1
2.5.2
4.2
LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E

4.1



NOTES:

1. WHERE EXISTING NAILS ARE LOOSE OR PROTRUDING, REMOVE & REPLACE WITH STAINLESS STEEL RINGS SHANKED AT 3 TO 4" O.C. NAILS AT ADJACENT LOCATIONS
2. WHERE MEMBRANE IS SPLIT AT SHEET METAL JOINTS, CUT AND REMOVE LOOSE PORTION. INSTALL A CUSHION PIECE OF PRESSURE-SENSITIVE MEMBRANE AT JOINT PRIOR TO STRIPPING.

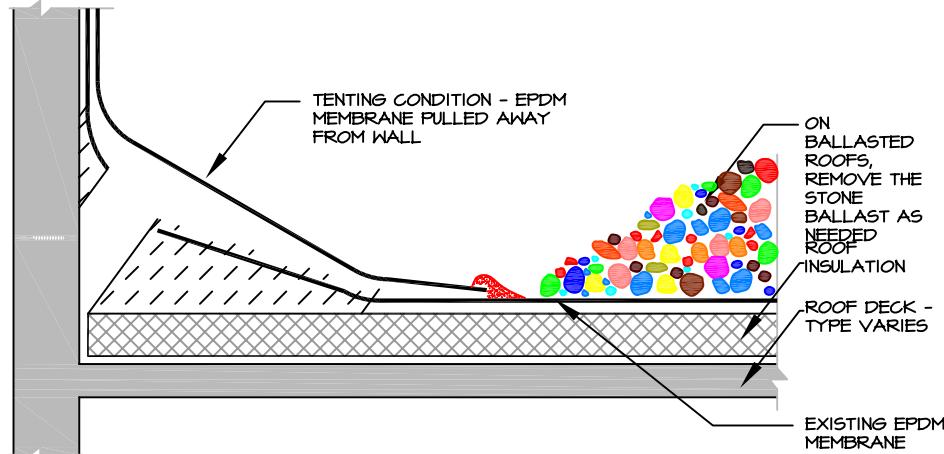
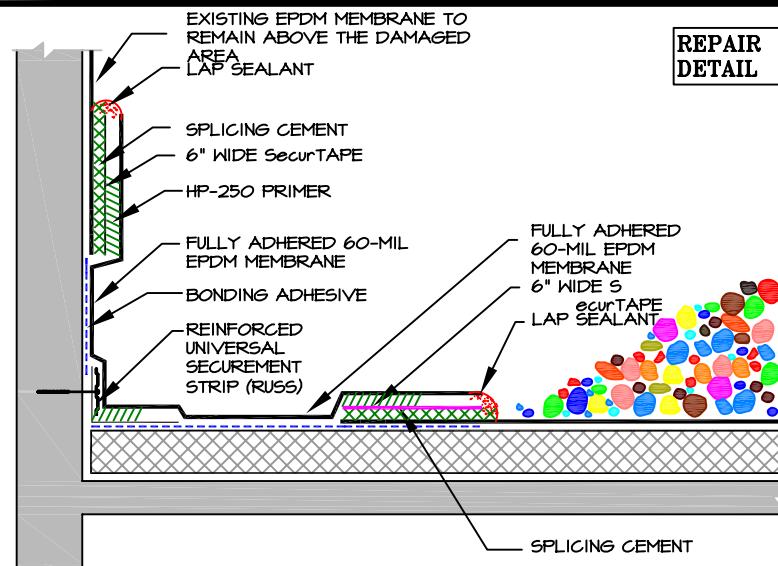
FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
2.5.1	2.5.2
4.1	
	LEGEND 1.3.1

EPDM ROOF RESTORATION DETAIL

E

4.2

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EXISTING CONDITION**REPAIR DETAIL****A** WALL BASE FLASHING (BRIDGING CONDITION) - STEP 1

NOTES:

1. FOLLOWING ARE LIMITED OUTLINE NOTES TO REPAIR ABOVE AREAS. REFER TO CARLISLE SPECIFICATION FOR MEANS AND METHOD TO MAKE REPAIRS.
2. INSPECT EXISTING BASE FLASHING AT RISING WALL AND MARK AREAS WHERE MEMBRANE IS STRETCHED OR UNBONDED FROM THE REINFORCED UNIVERSAL SECUREMENT STRIP (RUSS) OR WALL CORNER.
3. REMOVE STONE ON BALLASTED ROOF AREAS AS NEEDED. CAREFULLY INSPECT FOR CUTS, HOLES, PUNCTURES OR SIMILAR CONDITIONS PRIOR TO RINSING THE MEMBRANE. AT SUCH CONDITIONS, INSTALL A TEMPORARY PATCH.
4. WITHIN DEFICIENT AREA, CLEAN THE RECEIVING AREA PRIOR TO CUTTING OF MEMBRANE TO KEEP THE INSULATION DRY. CLEAN WITH CARLISLE'S SPECIFIED CLEANING SOLUTION AND THOROUGHLY CLEAN WITH WARM WATER TO RINSE AFTER CLEANING.
5. CUT OUT THE SLACKED OR TENTED PORTION OF MEMBRANE.
6. INSPECT FOR THE PRESENCE OF MOISTURE AT EXPOSED CUT IN INSULATION AREAS AND REPLACE WET INSULATION TO MATCH IN KIND & THICKNESS WITH EXISTING.
7. CLEAN THE ENTIRE BASE FLASHING AT RECEIVING AREAS.
8. APPLY PRIMER AND 6" WIDE SECURTAPE.
9. INSTALL NEW EPDM MEMBRANE FLASHING.
10. ROLL THE SPLICE WITH A 2" WIDE STEEL ROLLER AND APPLY LAP SEALANT.

B WALL BASE FLASHING (BRIDGING CONDITION) - STEP 2

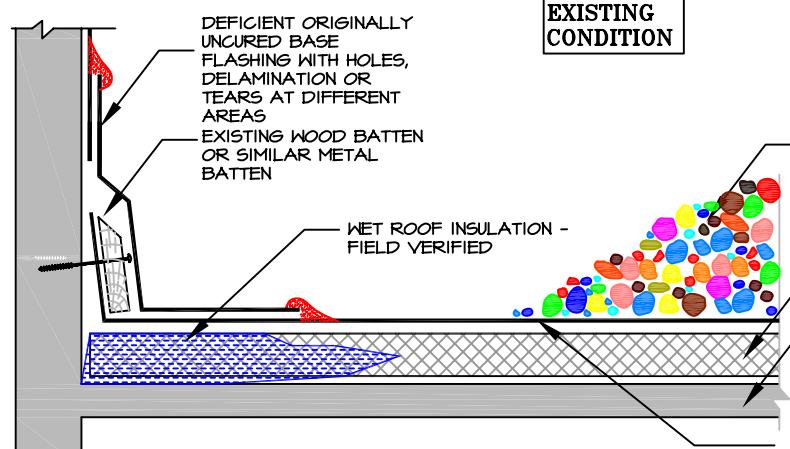
FLASHING TENTING CONDITION AT VERTICAL TRANSITIONS OR RISING WALLS.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGE(S) OR DETAIL(S):	
5.2.1	5.2.2
5.2.3	5.3
LEGEND 1.3.1	

EPDM ROOF RESTORATION
DETAIL

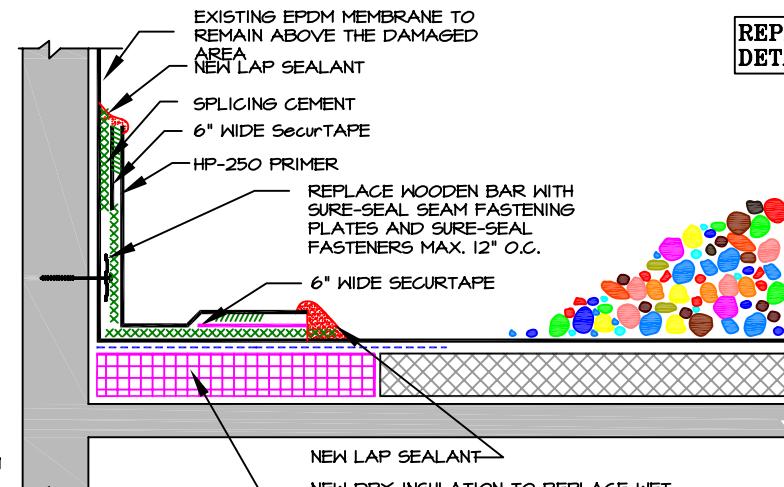
E

5.1



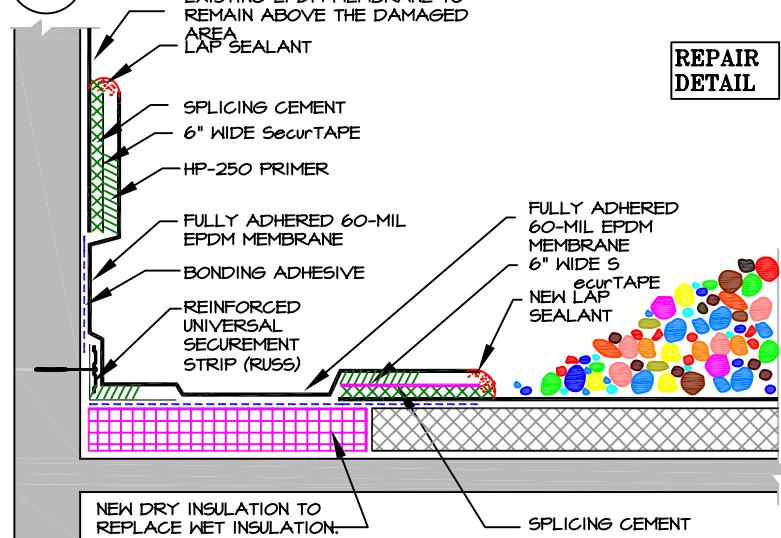
A EXISTING DEFICIENT CONDITION OF WALL BASE FLASHING WITH WOOD BATTEN

EXISTING CONDITION



B REPAIR DETAIL FOR CONDITION SHOWN IN DETAIL "A"
(PARTIAL OR SPOT REPAIR)

REPAIR DETAIL



C REPAIR DETAIL FOR CONDITION SHOWN IN DETAIL "A"
FULL WALL OR ENTIRE ROOF AREA PERMANENT REPAIR

REPAIR DETAIL

NOTES:

1. INSPECT EXISTING BASE FLASHING AT RISING WALL AND MARK AREAS WHERE MEMBRANE IS PUNCTURED, TORN, STRETCHED AND/OR UNBONDED FROM THE WALL MEMBRANE.
2. WITHIN DEFICIENT AREA, CUT OUT THE SLACKED OR TENTED PORTION OF MEMBRANE.
3. INSPECT FOR THE PRESENCE OF MOISTURE AT EXPOSED CUT AREAS AND REPLACE WET INSULATION TO MATCH TYPE, THICKNESS & NUMBER OF LAYERS.
4. CLEAN THE ENTIRE BASE FLASHING AREA.
5. INSTALL NEW FLASHING PER DETAIL.
6. SEE 3D VIEWS OF ABOVE DETAILS AT SHEET 5.2.2 AND 5.2.3 ALSO.



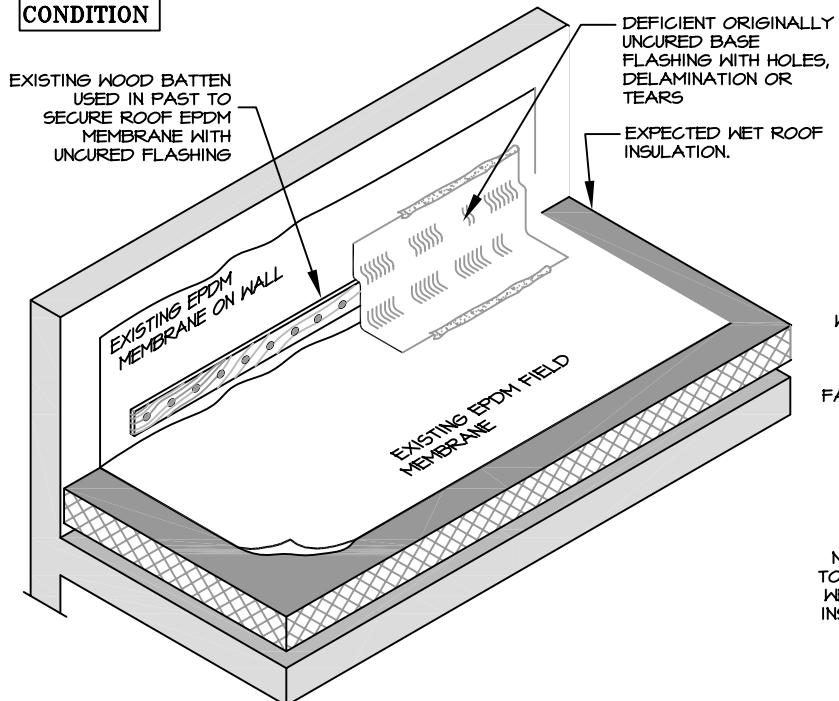
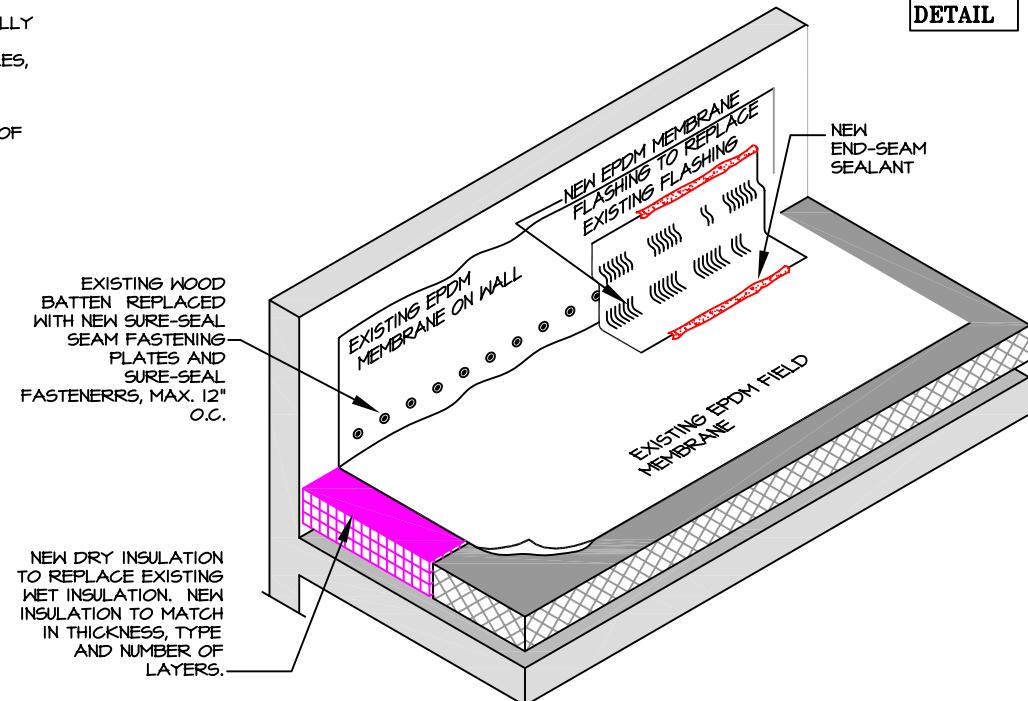
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FLASHING WITH BATTEN
ATTACHMENT - PAGE 1 OF 3. (SEE 5.2.2
& 5.2.3 FOR 3D VIEWS.)

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
5.2.2	5.2.3
LEGEND 1.3.1	

EPDM ROOF RESTORATION
DETAIL

E 5.2.1

EXISTING CONDITION**REPAIR DETAIL**

A EXISTING DEFICIENT CONDITION OF WALL BASE FLASHING
WITH WOOD BATTEEN

B REPAIR DETAIL FOR CONDITION SHOWN IN DETAIL "A"
(PARTIAL OR SPOT REPAIR)

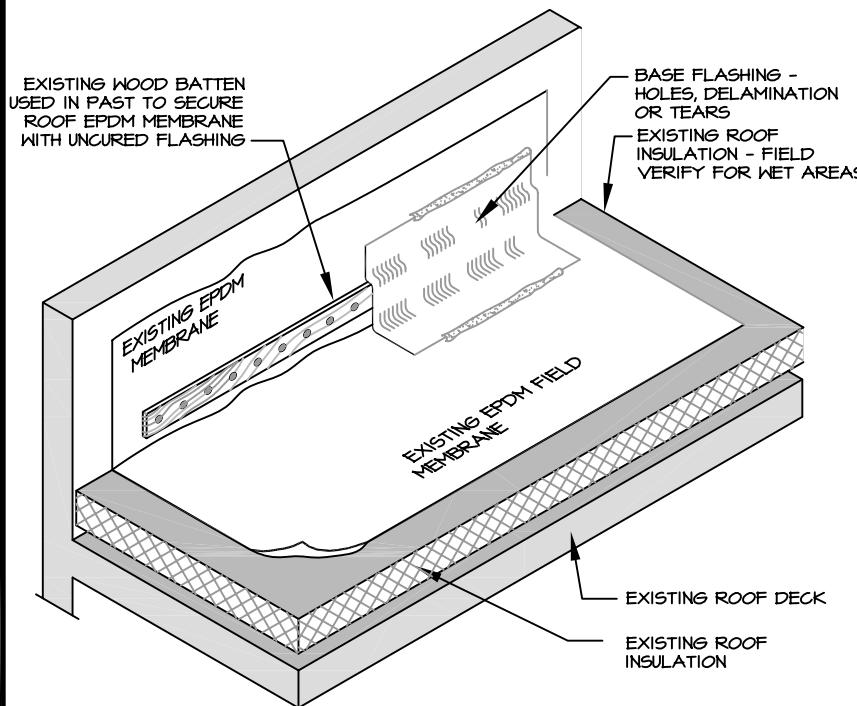


3-D VIEW OF DETAIL 5.2.1 'A' & 'B'

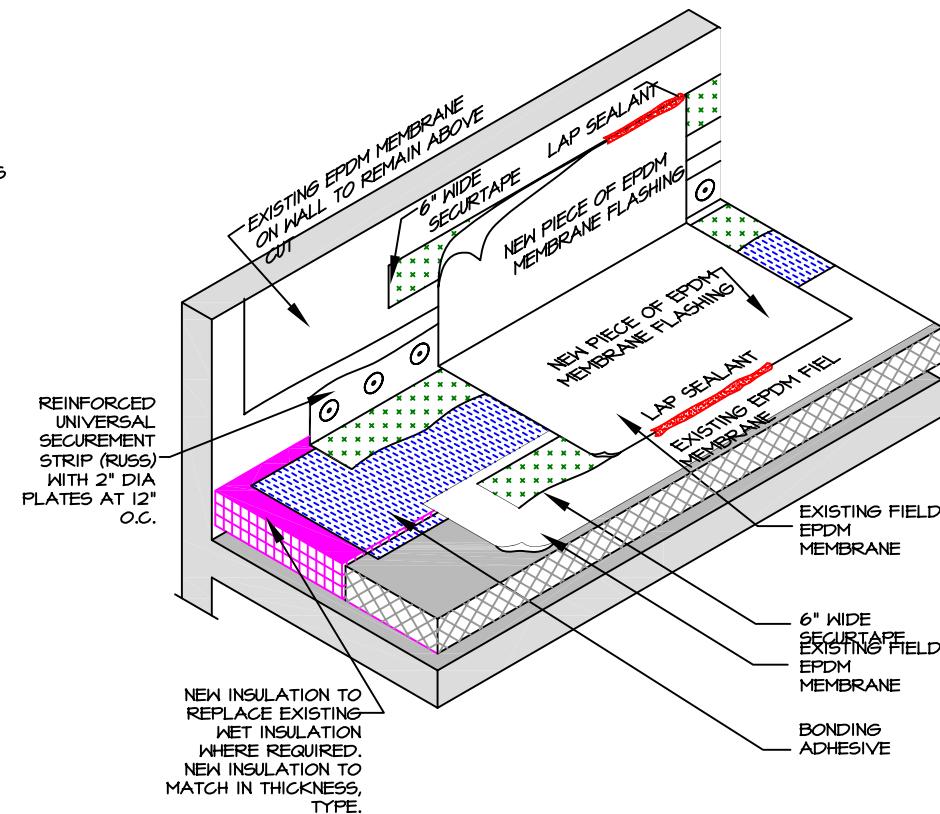
FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
5.2.1	5.2.3
LEGEND I.3.1	

EPDM ROOF RESTORATION
DETAIL

E 5.2.2

EXISTING CONDITION

A EXISTING VERTICAL TRANSITION BASE FLASHING BEFORE REPAIR
(FULL WALL TO ALL ROOF AREA REPLACEMENT)

REPAIR DETAIL

B EXISTING VERTICAL TRANSITION BASE FLASHING REPAIR DETAIL
(FULL WALL TO ALL ROOF AREA REPLACEMENT)

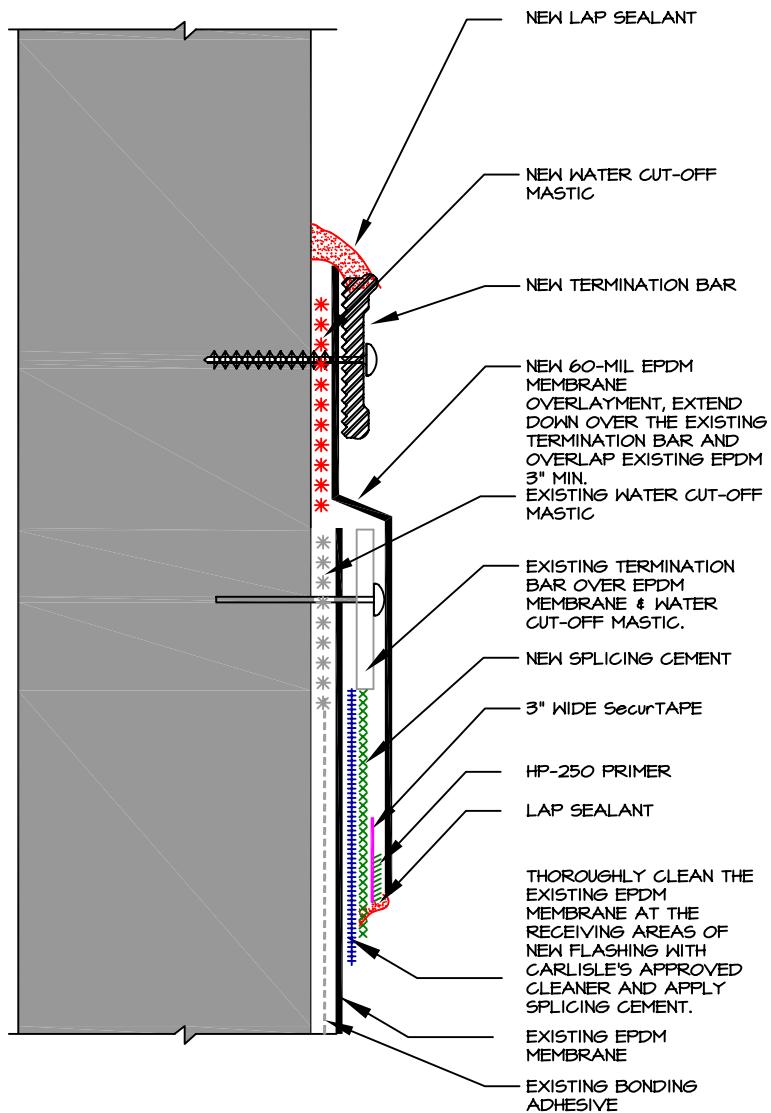
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3-D VIEW OF DETAIL 5.2.1 'C'

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):
5.2.1 5.2.2
LEGEND I.3.1

EPDM ROOF RESTORATION
DETAIL

E 5.2.3



NOTES:

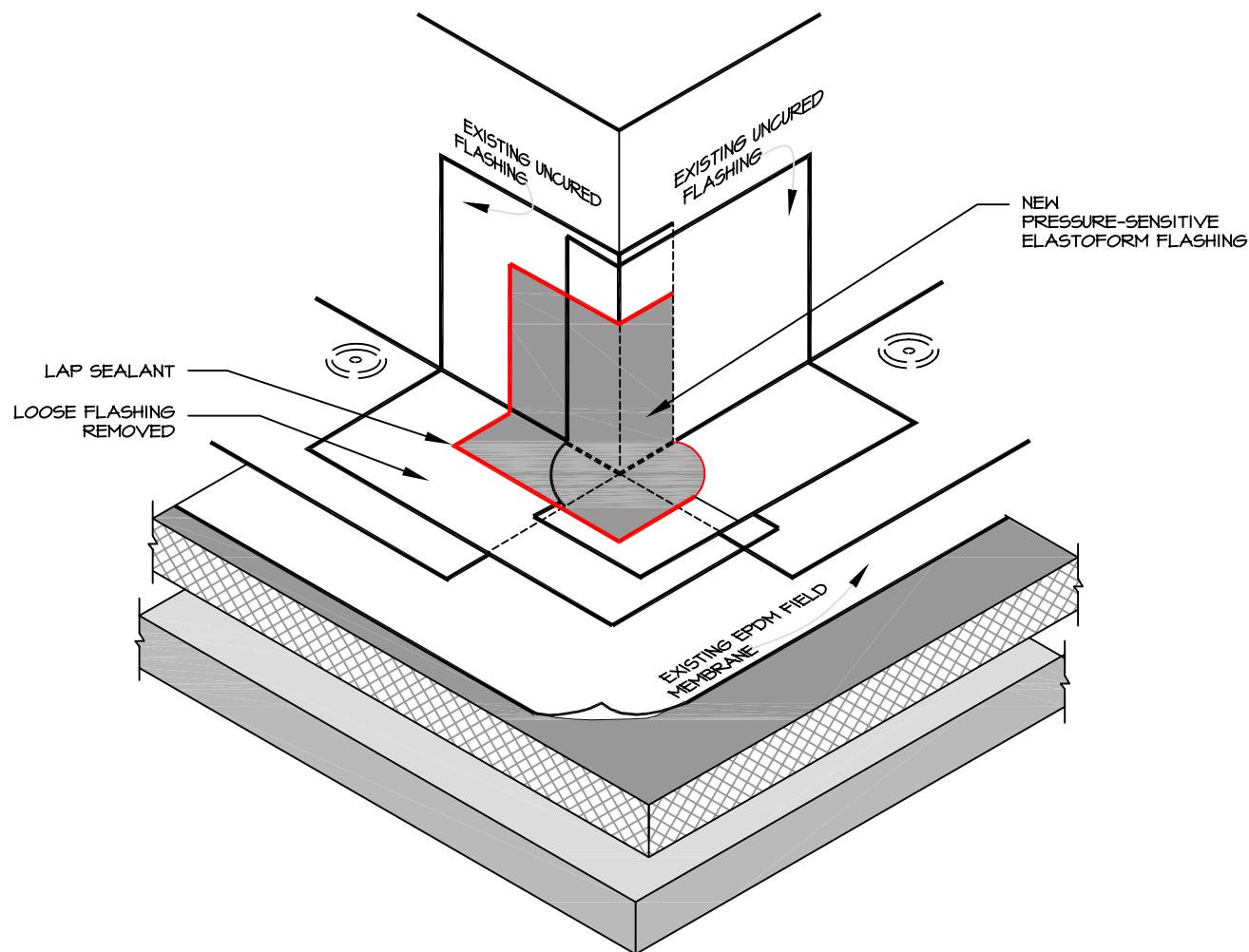
1. PRIOR TO ANY WORK, COORDINATE WITH THE OWNER TO DISCOVER ANY LEAKS OR HISTORY OF LEAKS AT AREAS BELOW. IF LEAK(S) EXISTS, DO NOT INSTALL THIS FLASHING AND CONDUCT A THOROUGH INSPECTION TO VERIFY THE CAUSES OF LEAKS. INSTALLATION OF THIS DETAIL MAY WORSEN THE LEAK CONDITION IF EXISTING CONDITIONS ARE NOT COMPLETELY ANALYZED.
2. IF NO LEAKS EXIST, THEN INSPECT THE EXISTING CONDITIONS OF THE FLASHING AND LOOK FOR THE FOLLOWING ITEMS:
 - a. IDENTIFY THE TYPE OF SUBSTRATE WALL AND ITS CONSTRUCTION COMPOSITION.
 - b. UNDERSTAND THE EXISTING INSTALLATION DETAIL & ITS DRAINAGE SYSTEM.
 - c. ENSURE THERE ARE NO WEEP HOLES ABOVE THE TOP OF TERMINATION BAR AREA THAT SHOULD NOT BE COVERED WITH NEW FLASHING (PARTICULARLY WHERE STEEP SLOPED ROOF EXIST AND MASONRY THROUGH WALL FLASHING IS BUILT IN STEPS), AVOID COVERING WEEPS IN THIS CONDITION ALSO.
 - d. IF THERE ARE HAIRLINE CRACKS, OPEN JOINTS OF WALL SYSTEMS, OPEN HEAD JOINTS IN MASONRY, OR SIMILAR CONDITIONS THAT MAY HELP THE MIGRATION OF WATER, COORDINATE WITH THE CONSULTANT TO RESOLVE THESE ISSUES PRIOR TO INSTALLATION OF REMEDIAL REPAIRS.
 - e. VERTICALLY STAGGER NEW NAILING PATTERN WITH EXISTING TO AVOID DEVELOPMENT OF CRACKS IN THE SUBSTRATE (DUE TO ADDITIONAL SECUREMENT IN THE SAME AREA).
 - f. VERIFY IF THERE ARE LOOSE NAILS/SCREENS WHICH ARE PROTRUDING AND RESET THEM PRIOR TO NEW FLASHING INSTALLATION.
3. AT THE JUNCTION OF PARAPET & RISING WALLS, COORDINATE WITH CONSULTANT TO RESOLVE THE UNSIGHTLY APPEARANCE OF NEW FLASHING ABOVE PARAPET WALL.
4. AT EXPANSION JOINTS, SEALANT TO BE REPAIRED/REPLACED BY OTHERS.
5. ENSURE SUBSTRATE IS DRY, SMOOTH & STRUCTURALLY SOUND. WHERE COMMON GRADE BRICKS ARE SPALLING OR DETERIORATED TO UNACCEPTABLE LEVEL, THERE REPLACE COMMON GRADE BRICKS WITH NEW SW-GRADE (SEVERE WEATHER GRADE) BRICKS. THE MASONRY MUST BE REPLACED BY OTHERS TO ACHIEVE A SOUND SUBSTRATE.

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RESTORATION OF FLASHING AT TERMINATION BAR.

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	
5.1	5.2
LEGEND I.3.1	

EPDM ROOF RESTORATION
DETAIL
E 5.3



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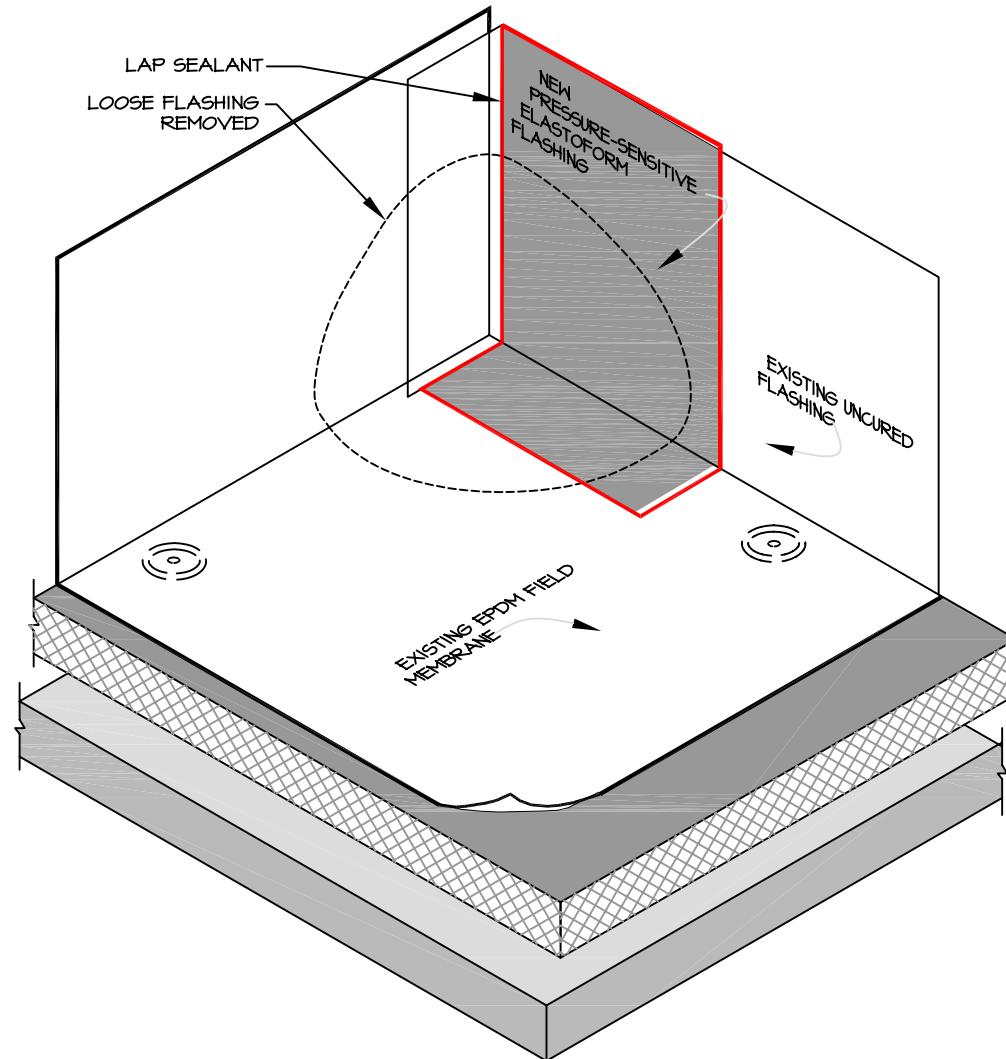
OUTSIDE CORNER FLASHING RESTORATION DETAIL

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):
6.2
LEGEND I.3.1

EPDM ROOF RESTORATION
DETAIL

E

6.1



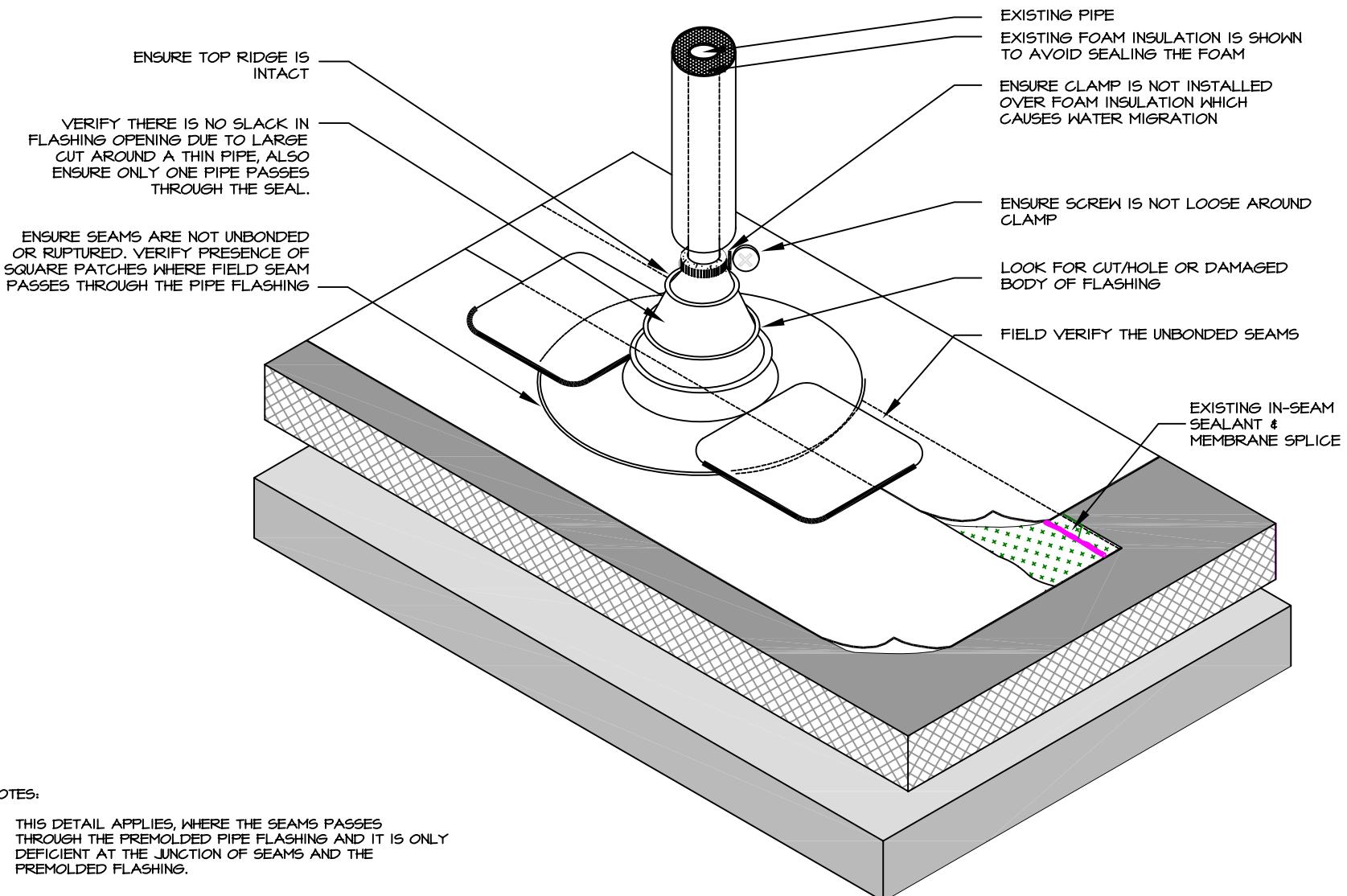
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INSIDE CORNER FLASHING RESTORATION DETAIL

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):
6.1
LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E 6.2

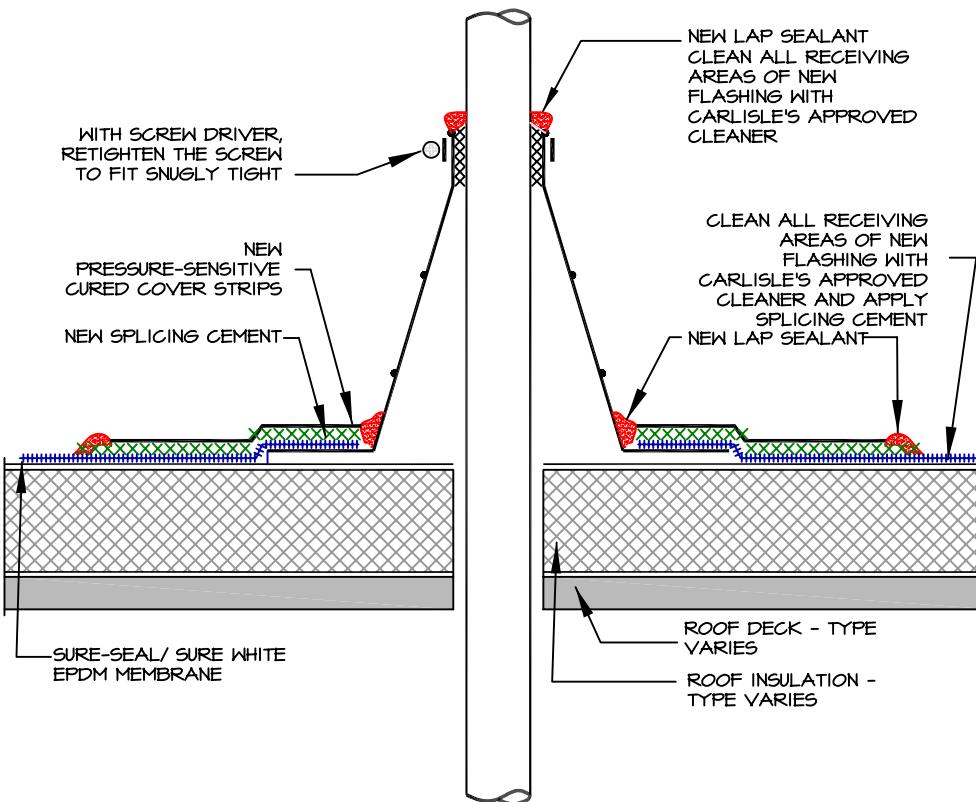


PREMOLDED FLASHING REPAIR # 1

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
 7.1.2
 LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E 7.1.1



NOTES:

1. ENSURE THE PIPE IS STRUCTURALLY SOUND AND IT IS NOT WOBBLING OR CAN BE PULLED OUT WITH GENTLE PRESSURE, FIELD VERIFY.
2. WHERE EXISTING PRE-MOLDED FLASHING IS DAMAGED ABOVE ROOF LINE, INSTALL NEW FIELD FABRICATED FLASHING AROUND A PIPE.
3. THOROUGHLY CLEAN DUST AND DIRT RESULTING FROM STANDING WATER.
4. REMOVE LOOSE STONE DEBRIS FROM INSIDE THE PIPE, WITH SHOP-VAC WHERE DEBRIS EXIST IN THE PIPE.



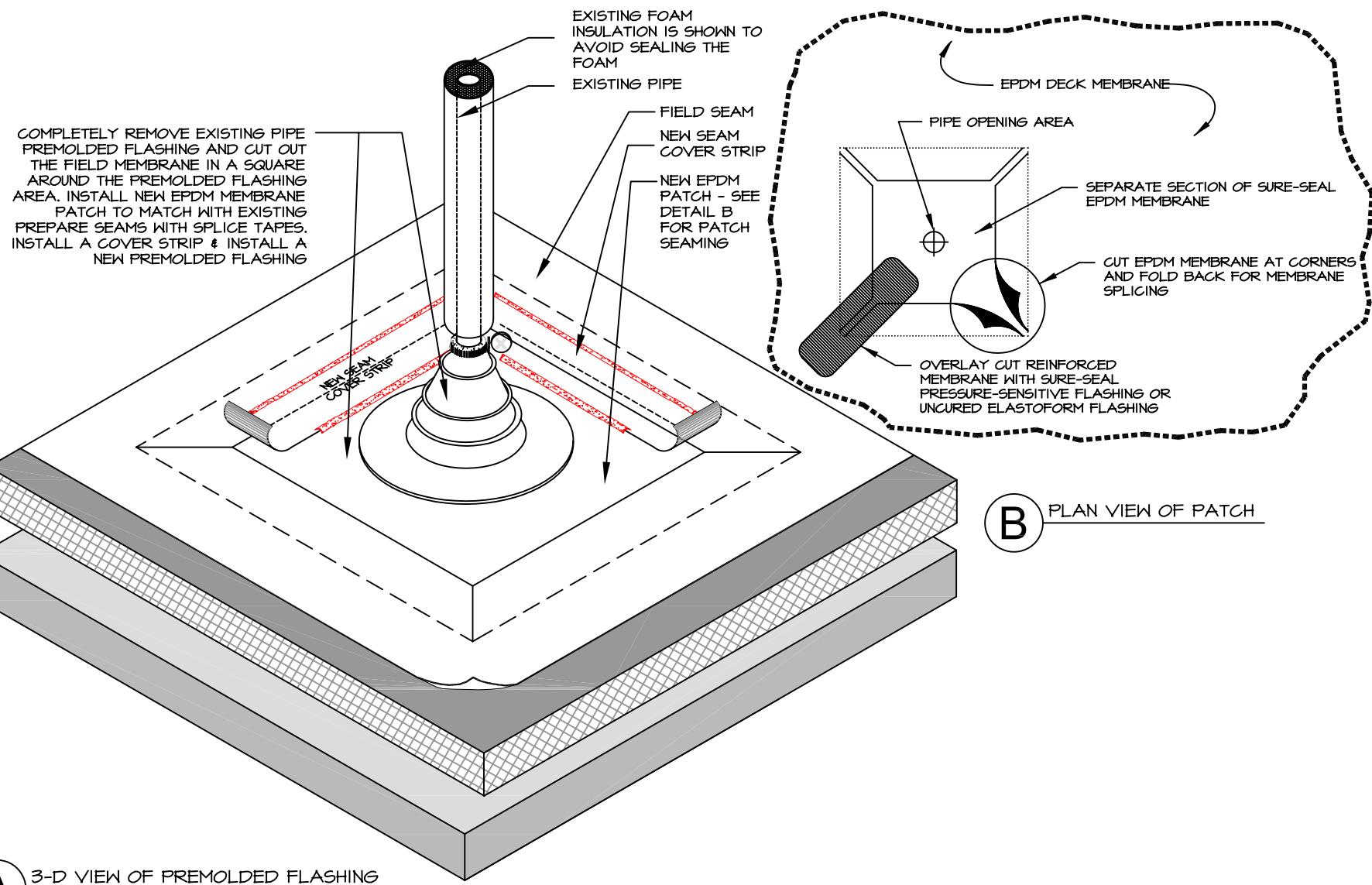
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PREMOLDED FLASHING REPIAR # 2

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
7.I.I
LEGEND I.3.I

EPDM ROOF RESTORATION DETAIL

E 7.1.2

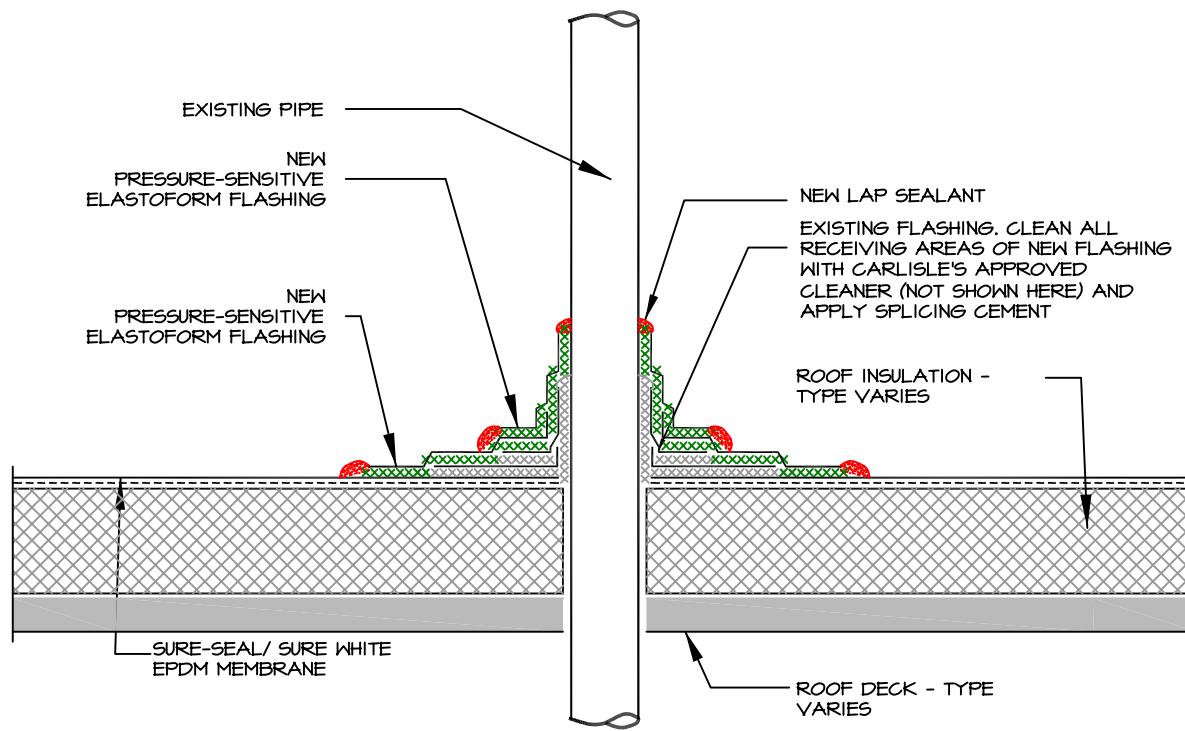


PREMOLDED FLASHING REPAIR # 3

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S).
7.I.I
LEGEND I.3.I

EPDM ROOF RESTORATION DETAIL

E 7.1.3



NOTES:

1. INSPECT THE STRUCTURAL INTEGRITY OF THE PIPE FOR LOOSE CONDITION, PRIOR TO REFLASHING IT. COORDINATE WITH OWNER WHERE PIPE(S) ARE LOOSE.
2. THOROUGHLY CLEAN THE EXISTING RECEIVING AREAS OF THE FLASHING WITH CARLISLE'S APPROVED CLEANER.
3. APPLY HP-250 PRIMER.
4. INSTALL NEW PRESSURE-SENSITIVE FLASHING.



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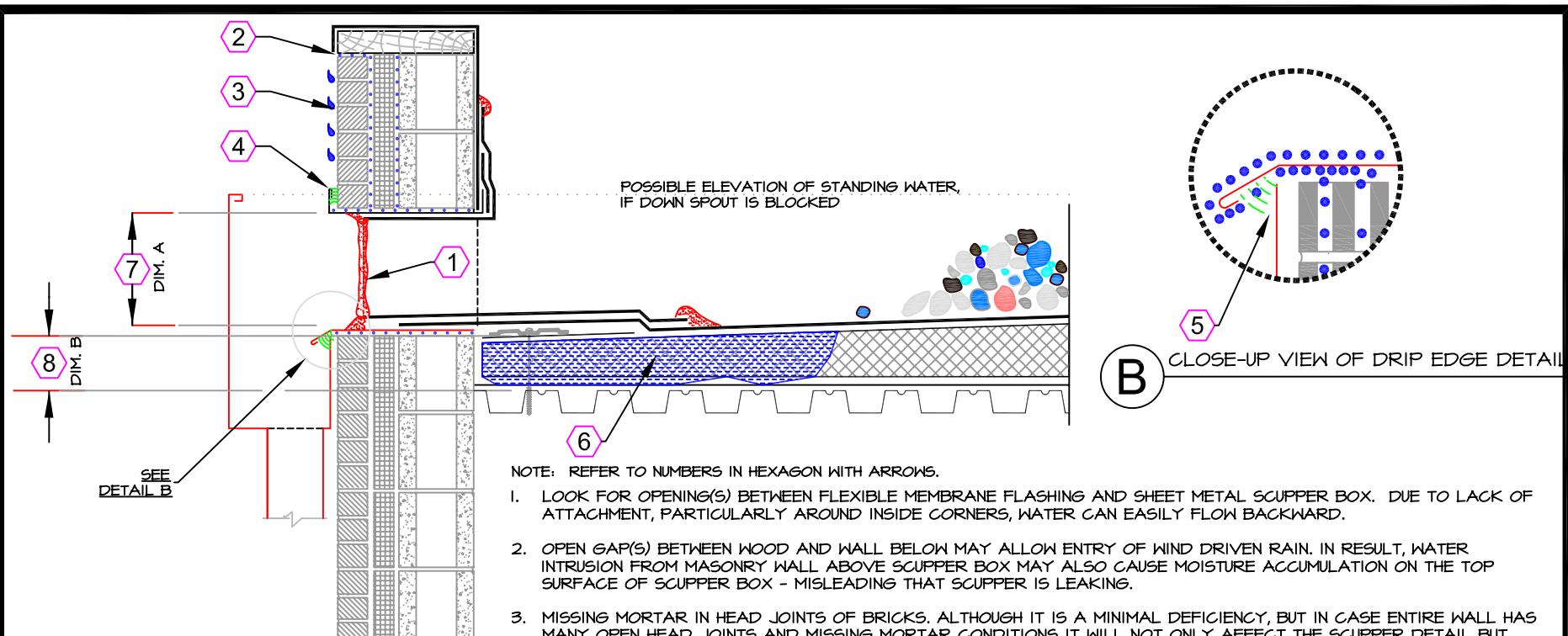
RESTORATION OF FIELD FABRICATED FLASHING

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S).

LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E 7.2.1



A

SCUPPER ABOVE MASONRY CAVITY WALL

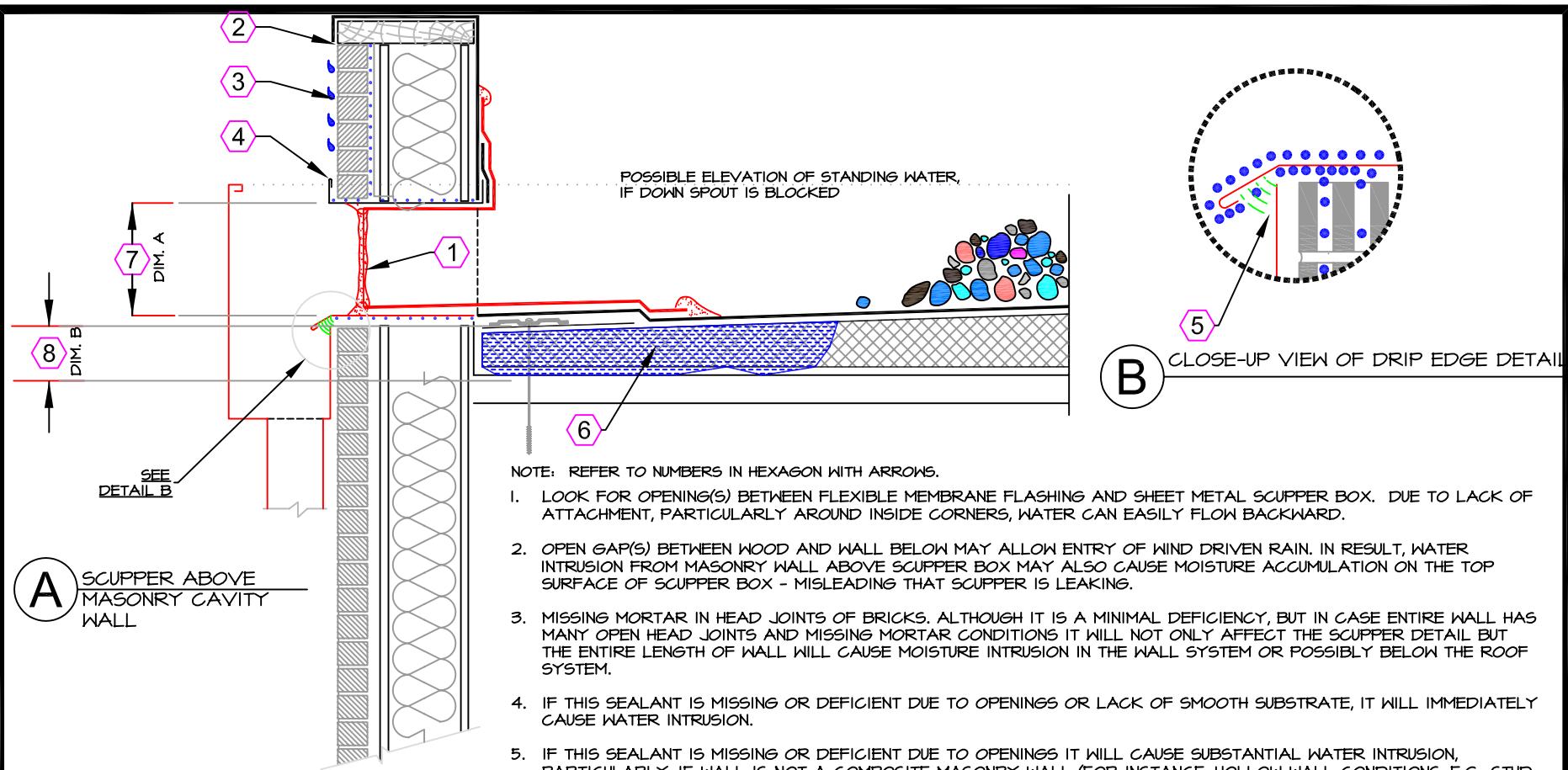
1. LOOK FOR OPENING(S) BETWEEN FLEXIBLE MEMBRANE FLASHING AND SHEET METAL SCUPPER BOX. DUE TO LACK OF ATTACHMENT, PARTICULARLY AROUND INSIDE CORNERS, WATER CAN EASILY FLOW BACKWARD.
2. OPEN GAP(S) BETWEEN WOOD AND WALL BELOW MAY ALLOW ENTRY OF WIND DRIVEN RAIN. IN RESULT, WATER INTRUSION FROM MASONRY WALL ABOVE SCUPPER BOX MAY ALSO CAUSE MOISTURE ACCUMULATION ON THE TOP SURFACE OF SCUPPER BOX - MISLEADING THAT SCUPPER IS LEAKING.
3. MISSING MORTAR IN HEAD JOINTS OF BRICKS. ALTHOUGH IT IS A MINIMAL DEFICIENCY, BUT IN CASE ENTIRE WALL HAS MANY OPEN HEAD JOINTS AND MISSING MORTAR CONDITIONS IT WILL NOT ONLY AFFECT THE SCUPPER DETAIL BUT THE ENTIRE LENGTH OF WALL WILL CAUSE MOISTURE INTRUSION IN THE WALL SYSTEM OR POSSIBLY BELOW THE ROOF SYSTEM.
4. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS OR LACK OF SMOOTH SUBSTRATE, IT WILL IMMEDIATELY CAUSE WATER INTRUSION.
5. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS IT WILL CAUSE SUBSTANTIAL WATER INTRUSION, PARTICULARLY, IF WALL IS NOT A COMPOSITE MASONRY WALL (FOR INSTANCE, HOLLOW WALL CONDITIONS, E.G., STUD WALLS).
6. DUE TO CONTINUOUS LEAKS AROUND SCUPPER, IT IS VERY LIKELY TO FIND WET INSULATION AROUND OR IN THE VICINITY OF SCUPPER HOLE. FIELD VERIFY DURING WATER TEST.
7. DIM. A: ON SOME SCUPPERS THE VERTICAL DIMENSION IS BARELY A FEW INCHES. IT IS HARD TO FLASH PROPERLY WITH AN ADULT HAND, IF SCUPPER HOLE IS LEFT FOR FEW INCHES. MIN. VERTICAL HEIGHT SUGGESTED: 6 INCHES.
8. DIM. B (TOP OF DECK TO BOTTOM OF SCUPPER HOLE: THIS DIMENSION SHOULD BE LOW ENOUGH TO LET EXCESSIVE WATER DRAIN OFF THE ROOF IN CASE THE DRAINAGE SYSTEM IS BLOCKED IN THE DOWN SPOUT.
9. WATER PONDING AROUND THE SCUPPER HOLE IS VERY COMMON. LOOK FOR HIGHER WALL CONDITIONS. GENERALLY, WALLS ARE INADVERTENTLY BUILT HIGHER BY THE MASON OR NOT LOW ENOUGH TO ACCOMMODATE MANY LAYERS OF FLASHING, LEADING TO STANDING WATER AND OR LEAK CONDITIONS.



TROUBLESHOOTING AT SCUPPER ABOVE MASONRY CAVITY WALL

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):	8.1.2	8.1.3
LEGEND:	1.3.1	

EPDM ROOF RESTORATION
DETAIL
E 8.1.1



A SCUPPER ABOVE
MASONRY CAVITY
WALL

10. AT STUD WALLS, VERIFY THE PRESENCE OF AIR/VAPOR BARRIER, PARTICULARLY IN THE NORTHERN COLD CLIMATES. IF DRAWINGS ARE NOT AVAILABLE THEN WALL PROBE MAY HELP. ABSENCE OF VAPOR BARRIER MAY HAVE CAUSED LEAK OR MOLD CONDITIONS.
11. REPORT PRESENCE OF AN MOLD CONDITIONS ON THE WALLS.
12. AT STUD WALLS, VERIFY THE PRESENCE & CONDITIONS OF CRACKS IN THE FACE BRICK MASONRY TO FIND OUT LEAK CONDITIONS.

- NOTE: REFER TO NUMBERS IN HEXAGON WITH ARROWS.
1. LOOK FOR OPENING(S) BETWEEN FLEXIBLE MEMBRANE FLASHING AND SHEET METAL SCUPPER BOX. DUE TO LACK OF ATTACHMENT, PARTICULARLY AROUND INSIDE CORNERS, WATER CAN EASILY FLOW BACKWARD.
 2. OPEN GAP(S) BETWEEN WOOD AND WALL BELOW MAY ALLOW ENTRY OF WIND DRIVEN RAIN. IN RESULT, WATER INTRUSION FROM MASONRY WALL ABOVE SCUPPER BOX MAY ALSO CAUSE MOISTURE ACCUMULATION ON THE TOP SURFACE OF SCUPPER BOX - MISLEADING THAT SCUPPER IS LEAKING.
 3. MISSING MORTAR IN HEAD JOINTS OF BRICKS. ALTHOUGH IT IS A MINIMAL DEFICIENCY, BUT IN CASE ENTIRE WALL HAS MANY OPEN HEAD JOINTS AND MISSING MORTAR CONDITIONS IT WILL NOT ONLY AFFECT THE SCUPPER DETAIL BUT THE ENTIRE LENGTH OF WALL WILL CAUSE MOISTURE INTRUSION IN THE WALL SYSTEM OR POSSIBLY BELOW THE ROOF SYSTEM.
 4. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS OR LACK OF SMOOTH SUBSTRATE, IT WILL IMMEDIATELY CAUSE WATER INTRUSION.
 5. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS IT WILL CAUSE SUBSTANTIAL WATER INTRUSION, PARTICULARLY, IF WALL IS NOT A COMPOSITE MASONRY WALL (FOR INSTANCE, HOLLOW WALL CONDITIONS, E.G., STUD WALLS).
 6. DUE TO CONTINUOUS LEAKS AROUND SCUPPER, IT IS VERY LIKELY TO FIND WET INSULATION AROUND OR IN THE VICINITY OF SCUPPER HOLE. FIELD VERIFY DURING WATER TEST.
 7. DIM. A: ON SOME SCUPPERS THE VERTICAL DIMENSION IS BARELY A FEW INCHES. IT IS HARD TO FLASH PROPERLY WITH AN ADULT HAND, IF SCUPPER HOLE IS LEFT FOR FEW INCHES. MIN. VERTICAL HEIGHT SUGGESTED: 6 INCHES.
 8. DIM. B (TOP OF DECK TO BOTTOM OF SCUPPER HOLE: THIS DIMENSION SHOULD BE LOW ENOUGH TO LET EXCESSIVE WATER DRAIN OFF THE ROOF IN CASE THE DRAINAGE SYSTEM IS BLOCKED IN THE DOWN SPOUT.
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TROUBLESHOOTING AT SCUPPER ABOVE STUD WALL

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
8.1.3
LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL
E 8.1.2

EXTEND EPDM MEMBRANE TO COVER OPENINGS WHERE POSSIBLE OR APPLY SEALANT TO BLOCK WIND DRIVEN RAIN

REMOVE & REINSTALL NEW SEALANT AT TOP & VERTICAL SIDES AS APPLICABLE SEE DETAIL B

WHERE NO OVERFLOW OR RELIEF DRAINAGE SYSTEM EXISTS, LOWER THE EXTERIOR WALL OR CUT A HALF-MOON CENTRALLY LOCATED TO CREATE AN OVERFLOW DETAIL FOR EMERGENCY.

EXTEND EPDM MEMBRANE OUT AND VERTICAL TO COVER WALL BEHIND THE CONDUCTOR HEAD.

THIS IS THE MOST CRITICAL POINT OF WATER INTRUSION. EITHER RE-DETAIL AS DEPICTED OR REMOVE & REPLACE WITH NEW SEALANT.

6" WIDE S UNDER FIELD MEMBRANE SCUPPER

NEW FLASHING WITH LAP SEALANT

LAP SEALANT

REPLACE WET INSULATION WHERE EXISTS ADD NEW WOOD BLOCKING OR PLYWOOD AS REQUIRED AT EACH DETAIL & CONDITION TO ACHIEVE A SOLID SMOOTH SUBSTRATE WHERE SCUPPER OPENING WAS BUILT VERY HIGH, WHICH IS CAUSING WATER PONDING, LOWER THE ELEVATION OF SCUPPER BY CUTTING A PORTION OF WALL, BASED ON FIELD CONDITIONS

ON ADHERED & MECHANICALLY FASTENED SYSTEMS, FULLY ADHERE NEW PIECE OF EPDM MEMBRANE TO NEW INSULATION

A SCUPPER FLASHING RESTORATION

B CLOSE-UP VIEW OF DRIP EDGE DETAIL

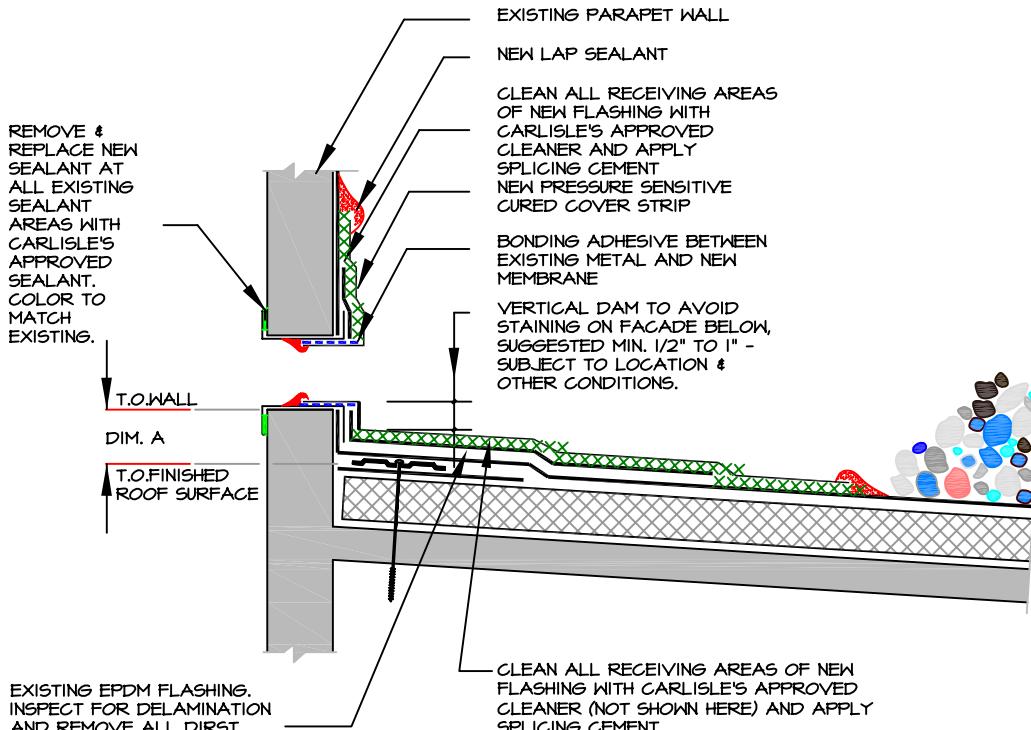
NOTES:

1. THIS DETAIL IS A GUIDELINE DETAIL TO HELP CONSULTANT & ROOFER TO TAILOR THEIR DETAILS, AS FIELD CONDITIONS & DETAILS GENERALLY VARY AT DIFFERENT LOCATIONS.
2. THIS DETAIL MAY REQUIRE OTHER TRADES INVOLVEMENT (WHERE MASONRY WALLS/PRECAST PANELS, SIDINGS OR STUD WALLS EXIST) AND CONSULTANT MAY REQUIRE TO CUT AND LOWER THE ELEVATION OF SCUPPER OPENING.
3. WHERE PREVIOUS LEAKS WERE REPORTED PERFORM A WATER TEST AFTER COMPLETION OF THE DETAIL TO ENSURE LEAK HAS STOPPED.
4. REPLACE ANY BATT INSULATION IN THE WALL WHERE IT IS FOUND WET UNDER THE SCUPPER.
5. SEALANT MUST BE REPLACED PERIODICALLY AS REQUIRED BY THE SEALANT MANUFACTURER AS FAILURE OF SEALANT MAY CAUSE LEAKS AGAIN.
6. THIS DETAIL MAY APPLY AT OTHER WALL CONDITIONS ALSO.
7. TO EXTEND EPDM MEMBRANE AT PARAPET WALLS, IT MAY REQUIRE REMOVAL OF SHEET METAL COPING. CONSULTANT TO FIELD VERIFY EXISTING CONDITIONS TO CREATE A DETAIL TO ACHIEVE A WATER TIGHT CONDITION, WHERE REMOVAL OF SHEET METAL COPING IS BEYOND THE PROJECT COST.

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RESTORATION OF THROUGH WALL SCUPPER DETAIL

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S).	EPDM ROOF RESTORATION DETAIL
I.I.2	E 8.1.3
LEGEND I.3.1	



A

OVERFLOW SCUPPER FLASHING RESTORATION

NOTES:

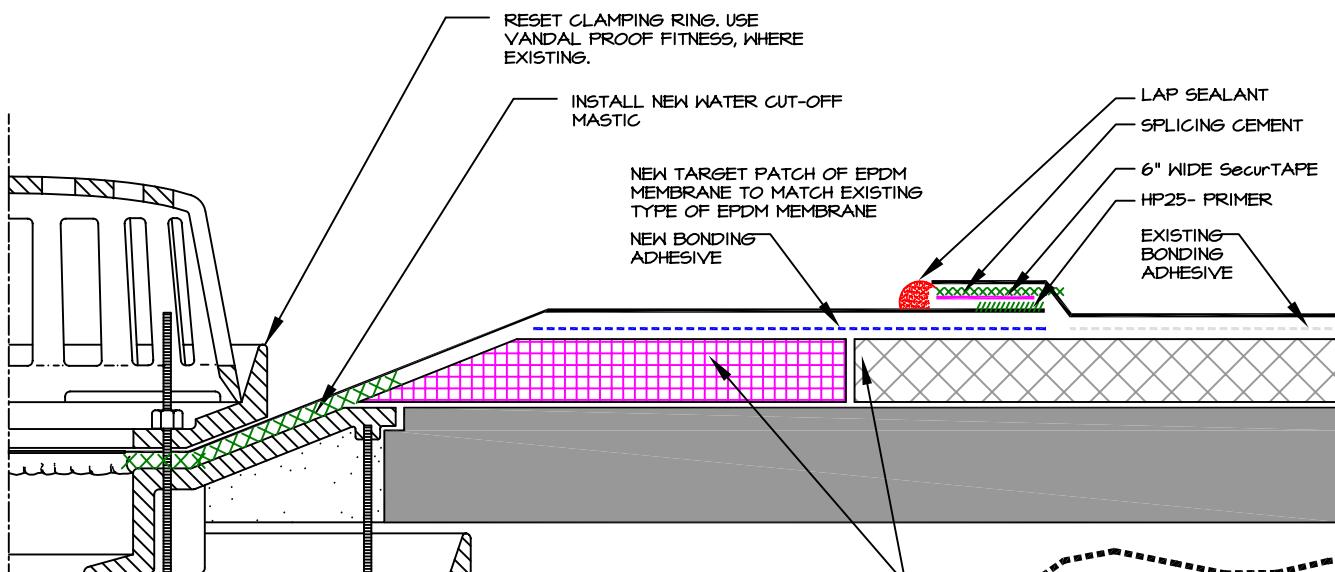
1. GRAVEL & STEEPER SLOPE IS DEPICTED ONLY FOR DETAIL REPRESENTATION. CONSULTANT TO CALCULATE THE LOCATIONS, HEIGHT AND FREQUENCY OF OVERFLOW SCUPPER PER THE BUILDING CODE AS WELL AS ENGINEERING CALCULATIONS.
2. PRIOR TO ANY WORK, COORDINATE WITH THE OWNER TO DISCOVER ANY LEAKS OR HISTORY OF LEAKS AT AREAS BELOW. IF LEAK(S) EXIST DO NOT INSTALL THIS FLASHING AND FIRST CONDUCT A THOROUGH INSPECTION TO VERIFY THE CAUSES OF LEAKS. INSTALLATION OF THIS DETAIL MAY WORSEN THE LEAKS IF EXISTING CONDITIONS ARE NOT COMPLETELY VERIFIED.
3. IF NO LEAKS EXIST, THEN INSPECT THE EXISTING CONDITIONS OF THE FLASHING AND LOOK FOR THE FOLLOWING ITEMS.
 - a. IDENTIFY THE TYPE OF SUBSTRATE WALL AND ITS CONSTRUCTION COMPOSITION.
 - b. UNDERSTAND THE EXISTING INSTALLATION DETAIL.
 - c. DIMENSIONS: IF DIMENSION "A" EXCEEDS 2 INCHES, OTHER TRADES SHOULD LOWER IT TO AVOID FUTURE DECK FAILURE UNDER HEAVY LOAD OF STANDING WATER. WHERE DIMENSION "A" IS ZERO OR FLAT SURFACE, RAISING OF EDGE WOULD BE REQUIRED TO AVOID STAINING ON FACADES FROM Oozing DUST WITH WATER.
 - d. VERIFY OVERALL SCUPPER'S OPENING TO BE AT LEAST 8" VERTICAL TO EASE THE FABRICATION OF FLASHING INSIDE THE SCUPPER HOLE. ENLARGE THE HOLE ONLY WHERE IT IS POSSIBLE WITHIN THE OWNER'S BUDGET OR WHERE IT IS DEEMED NECESSARY BY THE CONSULTANT.
4. SEALANT MUST BE REPLACED ON THE EXTERIOR FLANGE. ENSURE SHEET METAL FLANGES ARE SET ON SMOOTH AND SOUND SUBSTRATE. WHERE ROUGH EXTERIOR SURFACES EXIST I.E., CORDUROY FINISH PRECAST OR SPLIT FACE CMU BLOCK EXCESSIVE CARE SHOULD BE TAKEN TO SEAL THE FLANGE TO AVOID WATER MIGRATION UNDER THE ROOF SYSTEM.
5. WHERE NEW CONSTRUCTION IS ANTICIPATED, THERE DESIGNER TO ENSURE THAT DIMENSION A IS PROPERLY CALCULATED AND COORDINATED WITH OTHER TRADES, WHILE BUILDING WALLS TO ACHIEVE PROPERLY REQUIRED HEIGHT. EXCESSIVE HEIGHT WILL POSE DANGER TO DECK COLLAPSE.



RESTORATION OF OVERFLOW SCUPPER DETAIL

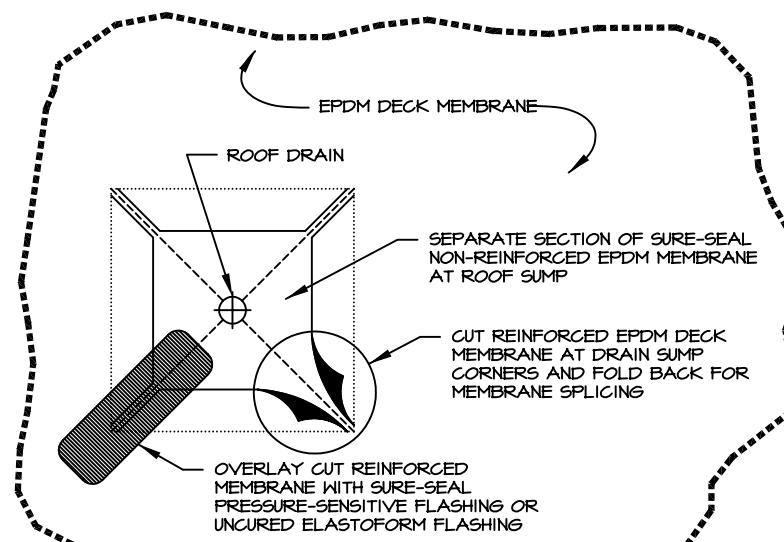
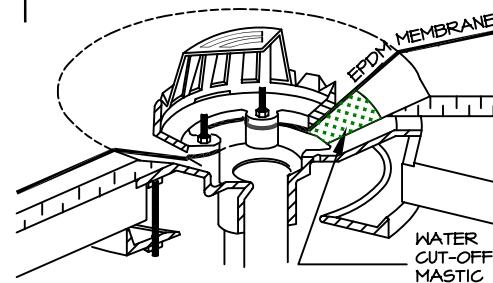
FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S):
8.1.3
LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL E 8.2.1



NOTES:

1. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
2. CUT THE MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RINGS.
3. HOLE IN MEMBRANE MUST EXCEED SIZE OF DRAIN PIPE.
4. INSULATION TAPER SHALL NOT BE STEEPER THAN 6" (VERTICAL) IN 12" (HORIZONTAL).
5. FIELD SPlices MUST BE LOCATED AT LEAST 6" OUTSIDE THE DRAIN SUMP.



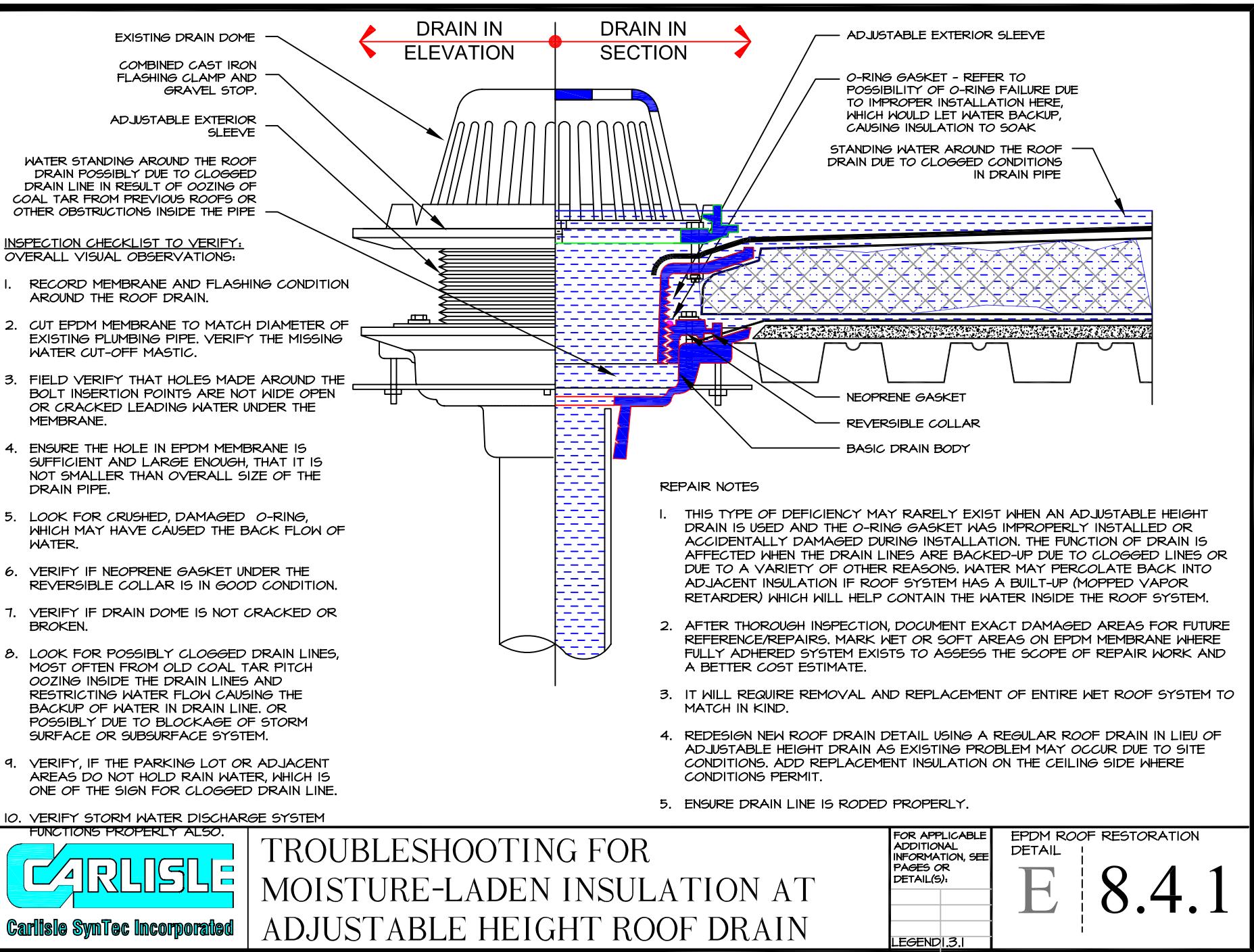
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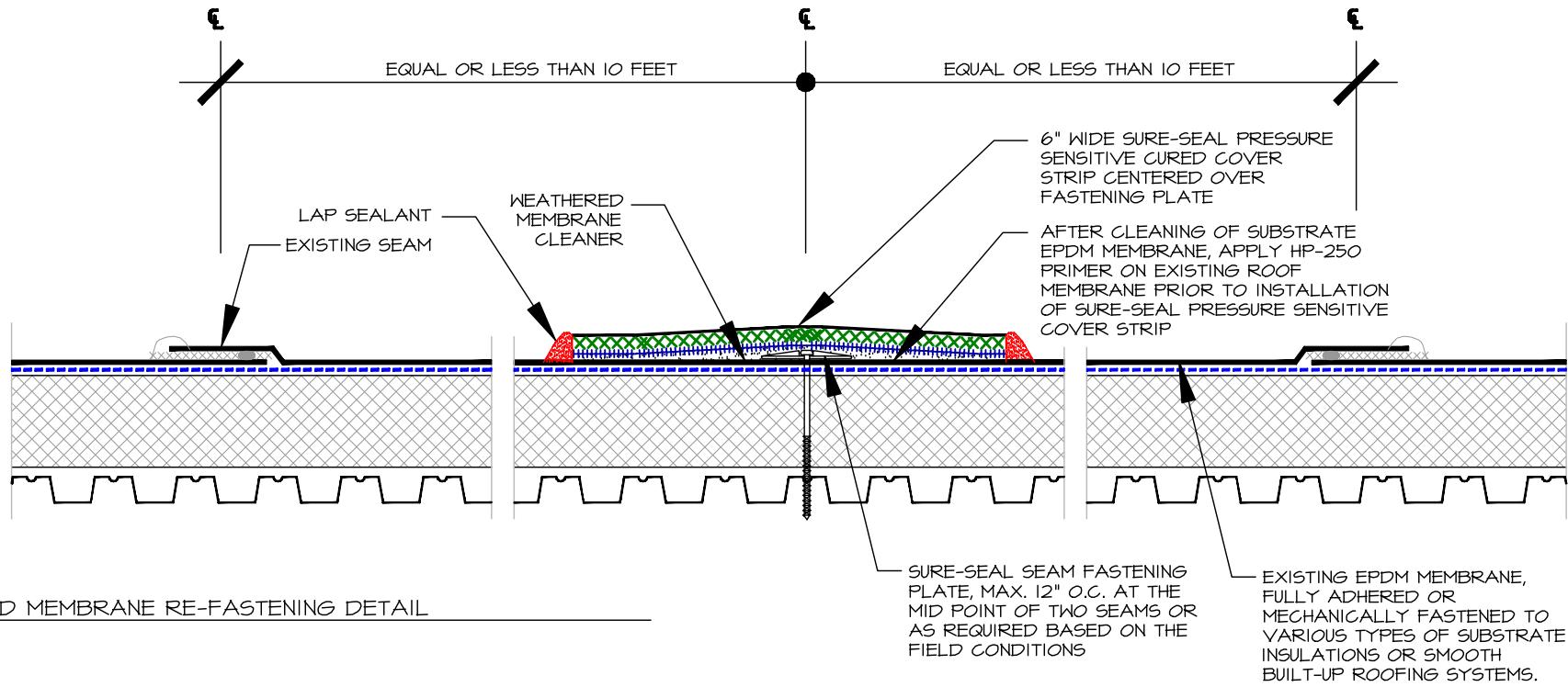
TYP. ROOF DRAIN FLASHING REPAIRS

FOR APPLICABLE ADDITIONAL INFORMATION, SEE PAGES OR DETAIL(S).
LEGEND 1.3.1

EPDM ROOF RESTORATION DETAIL

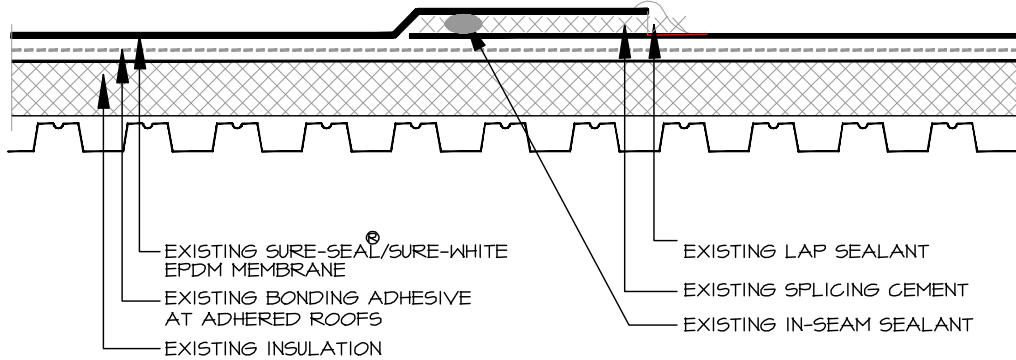
E 8.3.1



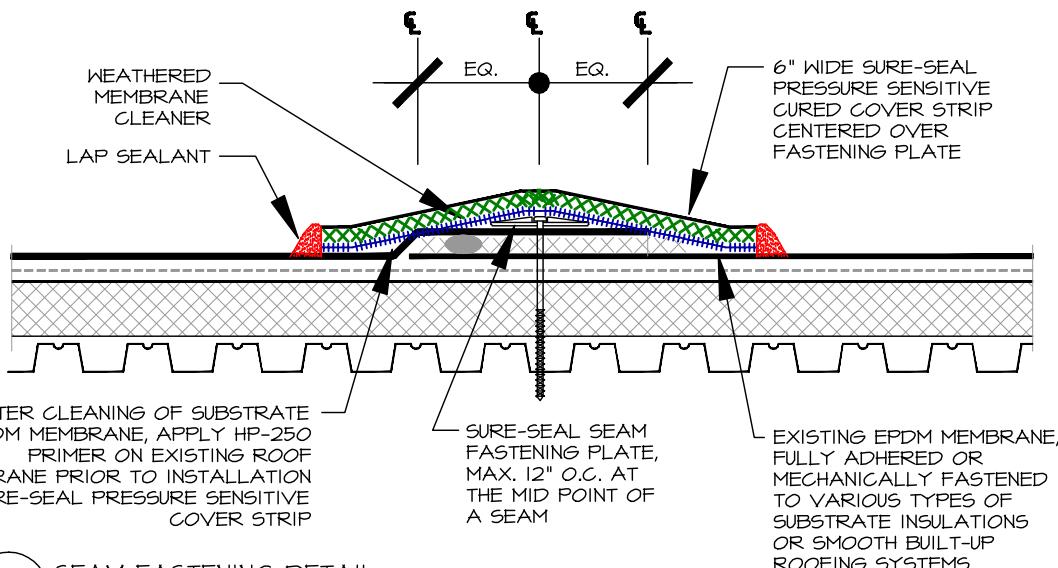


NOTES:

1. THIS DETAIL APPLIES AT FIELD MEMBRANE SECUREMENT, EQUAL DISTANCE BETWEEN TWO EXISTING SEAMS.
2. INSTALL FASTENERS AT 12" O.C. IN A STRAIGHT LINE IN ORDER TO CENTRALLY ALIGN THE STRIPPING SEAM FOR PROPER COVERAGE.
3. PRE-CLEAN THE STRIPPING AREA, PRIOR TO MARKING AND INSTALLATION OF FASTENERS TO REDUCE THE POSSIBILITY OF TRAPPED DEBRIS, ACCUMULATED DUST OR DIRT UNDER THE PLATES OR SEAMS. FOLLOW PROPER PROCEDURES OF SEAM CLEANING AFTER FASTENING.
4. FIELD VERIFY THE DECK TYPE AND CONDITIONS. ENSURE THE FASTENER WITHDRAWAL RESISTANCE TEST IS CONDUCTED FOR CONSULTANT'S REVIEW, PRIOR TO THIS WORK, TO MAKE ANY ADJUSTMENTS.



A EXISTING SEAM: ORIGINAL CONSTRUCTION - ADHERED SYSTEM



B SEAM FASTENING DETAIL

NOTES:

1. THIS DETAIL APPLIES AT ALL THE SEAM SECUREMENT, PER CONSULTANT'S INSTRUCTIONS.
2. CONDUCT A FASTENER WITHDRAWAL RESISTANCE TEST TO RECORD THE TEST RESULTS, COORDINATE WITH THE CONSULTANT REGARDING TEST RESULTS, IN CASE THE CONSULTANT MAY REQUIRE FOR ANY ADJUSTMENTS. MIN. FIVE (5) TESTS SHOULD BE CONDUCTED AT EVERY 10,000 SQUARE FEET OR WHERE THE DECK TYPE, CONDITION AND OR SLOPE CHANGES.
3. INSTALL FASTENERS AT 12" O.C. IN A STRAIGHT LINE IN ORDER TO CENTRALLY ALIGN THE STRIPPING SEAM FOR PROPER COVERAGE.
4. THE EDGE OF THE PLATE MUST BE ALIGNED AT THE LEADING EDGE OF THE SEAM TO ALLOW FOR A MINIMUM 2" SPLICE PAST THE EDGE OF THE PLATES IN EVERY DIRECTION.
5. PRE-CLEAN THE STRIPPING AREA, PRIOR TO MARKING AND INSTALLATION OF FASTENERS TO REDUCE THE POSSIBILITY OF TRAPPED DEBRIS, ACCUMULATED DUST OR DIRT UNDER THE SEAMS. FOLLOW PROPER PROCEDURES OF SEAM CLEANING AFTER FASTENING.



MEMBRANE FASTENING AT MEMBRANE SEAMS

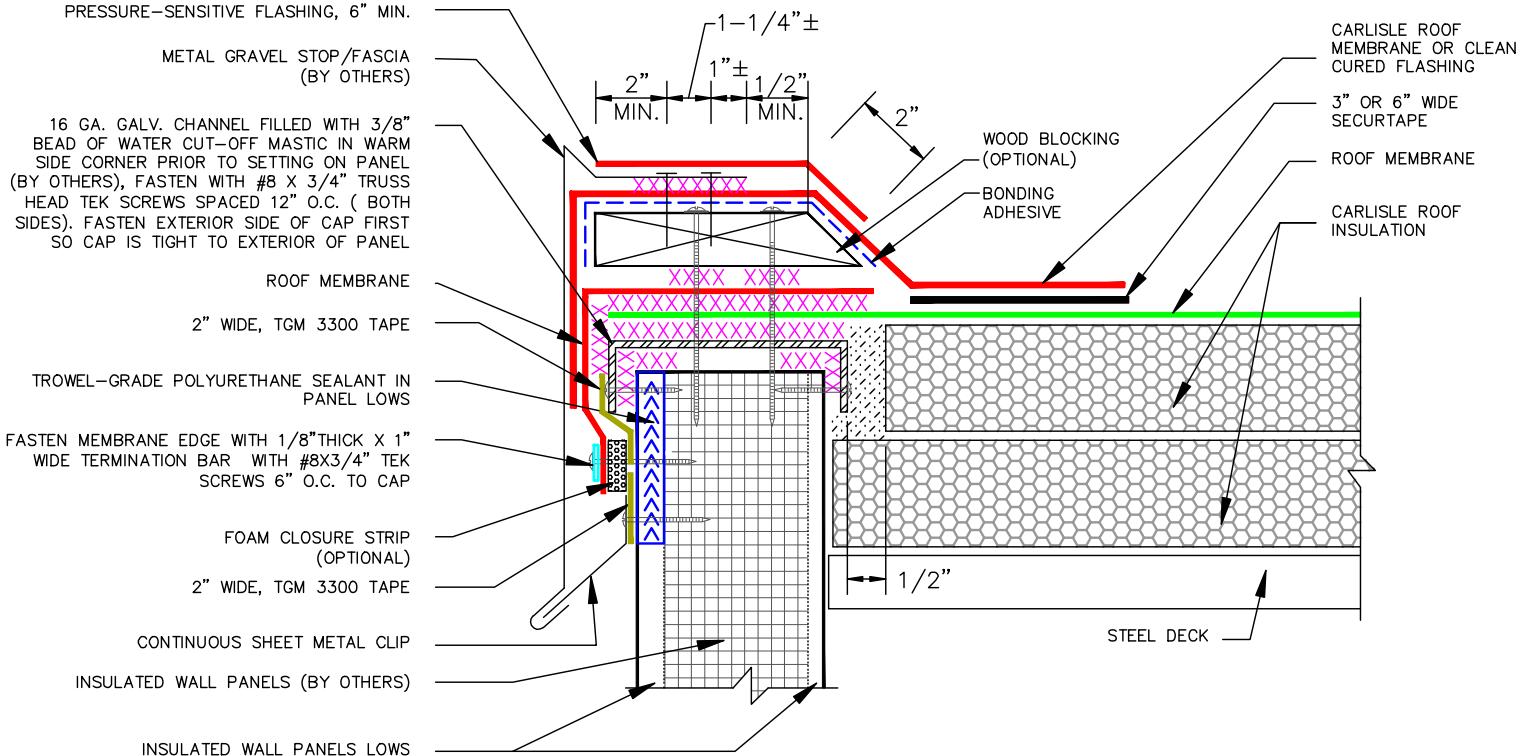
REVISED | 12/06/2001 | HP 250 PRIMER

FOR APPLICABLE
ADDITIONAL
INFORMATION, SEE
PAGES OR
DETAIL(S):
9.1.1

LEGEND 1.3.1

EPDM ROOF RESTORATION
DETAIL

E | 9.1.2



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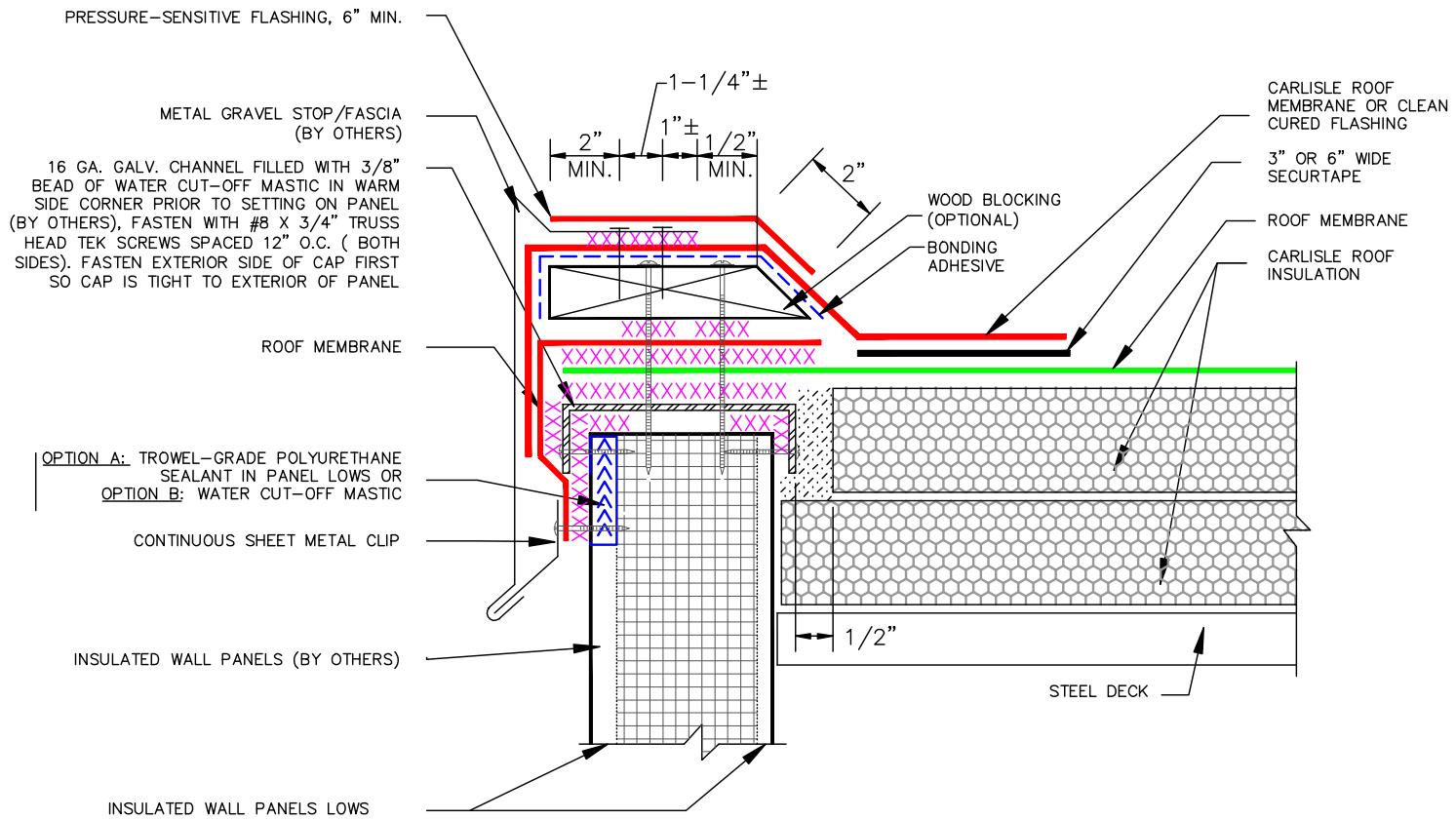
COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF EDGE DETAIL

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XXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
[Hatched pattern]	FOAM-IN-PLACE INSULATION

COLD STORAGE DETAILS

CS | 1.1.1



	STARTER SEAL—WATER CUT-OFF MASTIC
	FOAM-IN-PLACE INSULATION

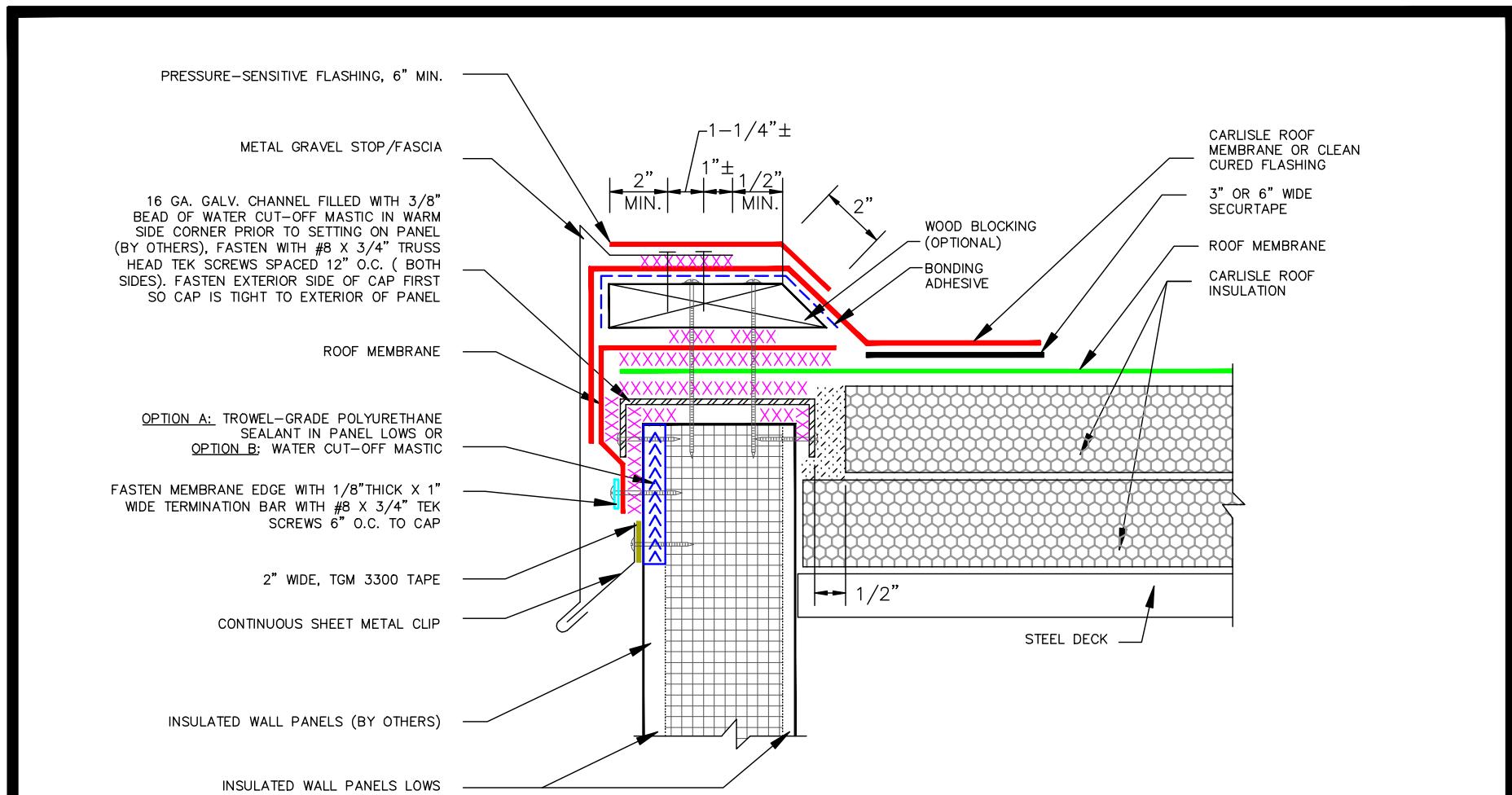
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COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF EDGE DETAIL

COLD STORAGE DETAILS

CS 1.1.2



	<p>SURE-SEAL WATER CUT-OFF MASTIC</p>
	<p>FOAM-IN-PLACE INSULATION</p>

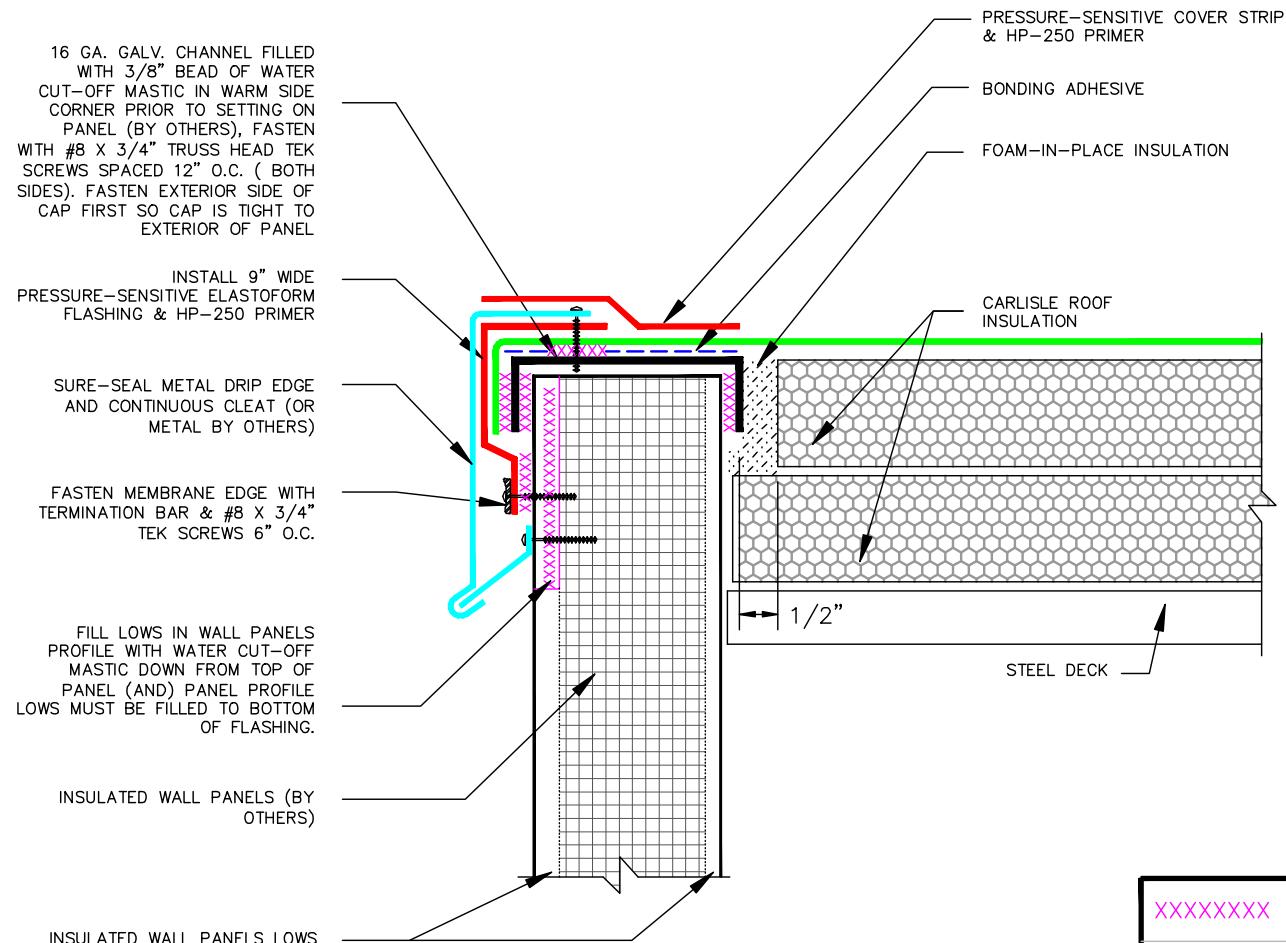
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COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF EDGE DETAIL

COLD STORAGE DETAILS

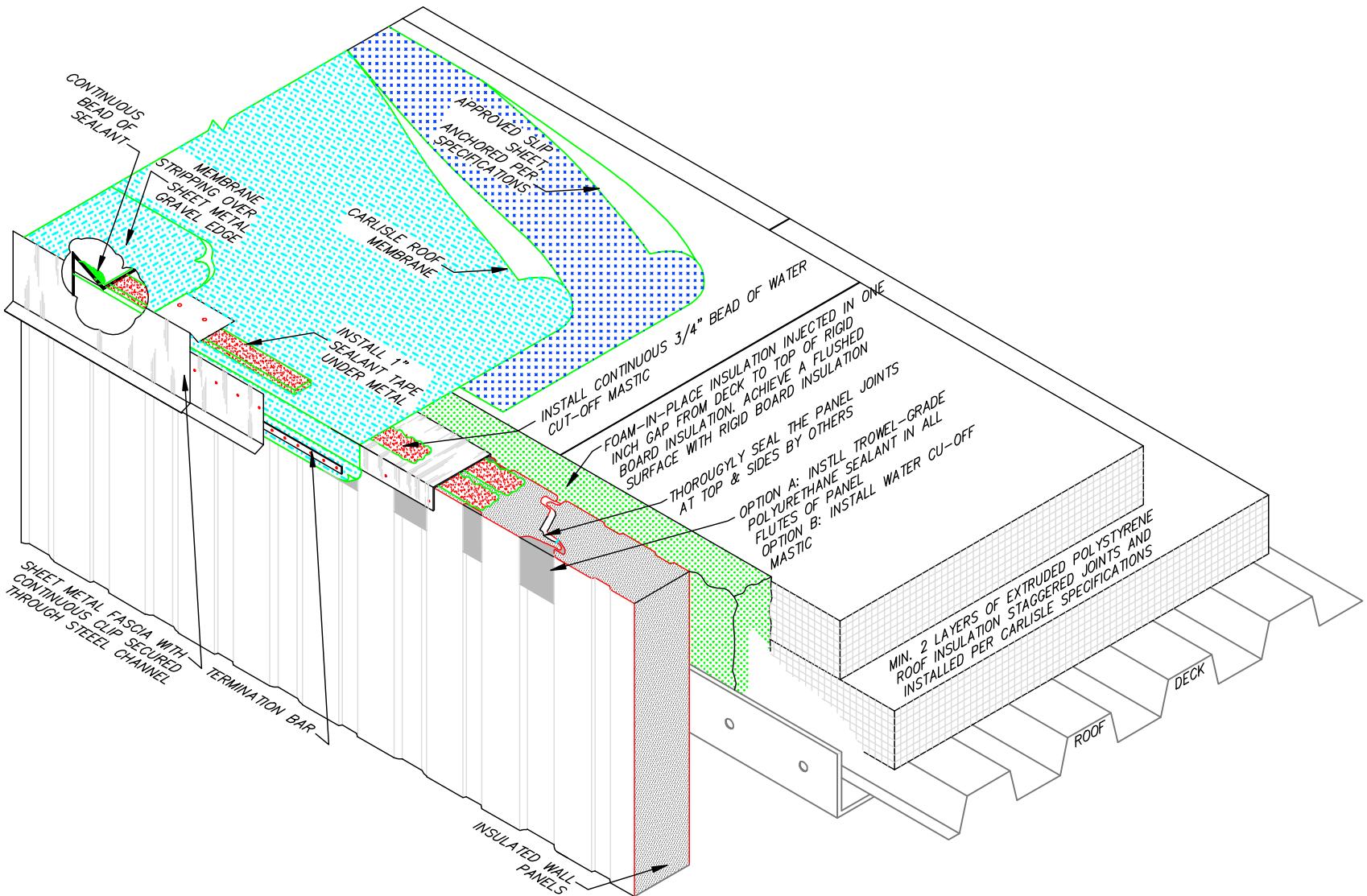
CS 1.1.3



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COLD STORAGE ENVELOPE UNIVERSAL DETAILS ROOF EDGE DETAIL

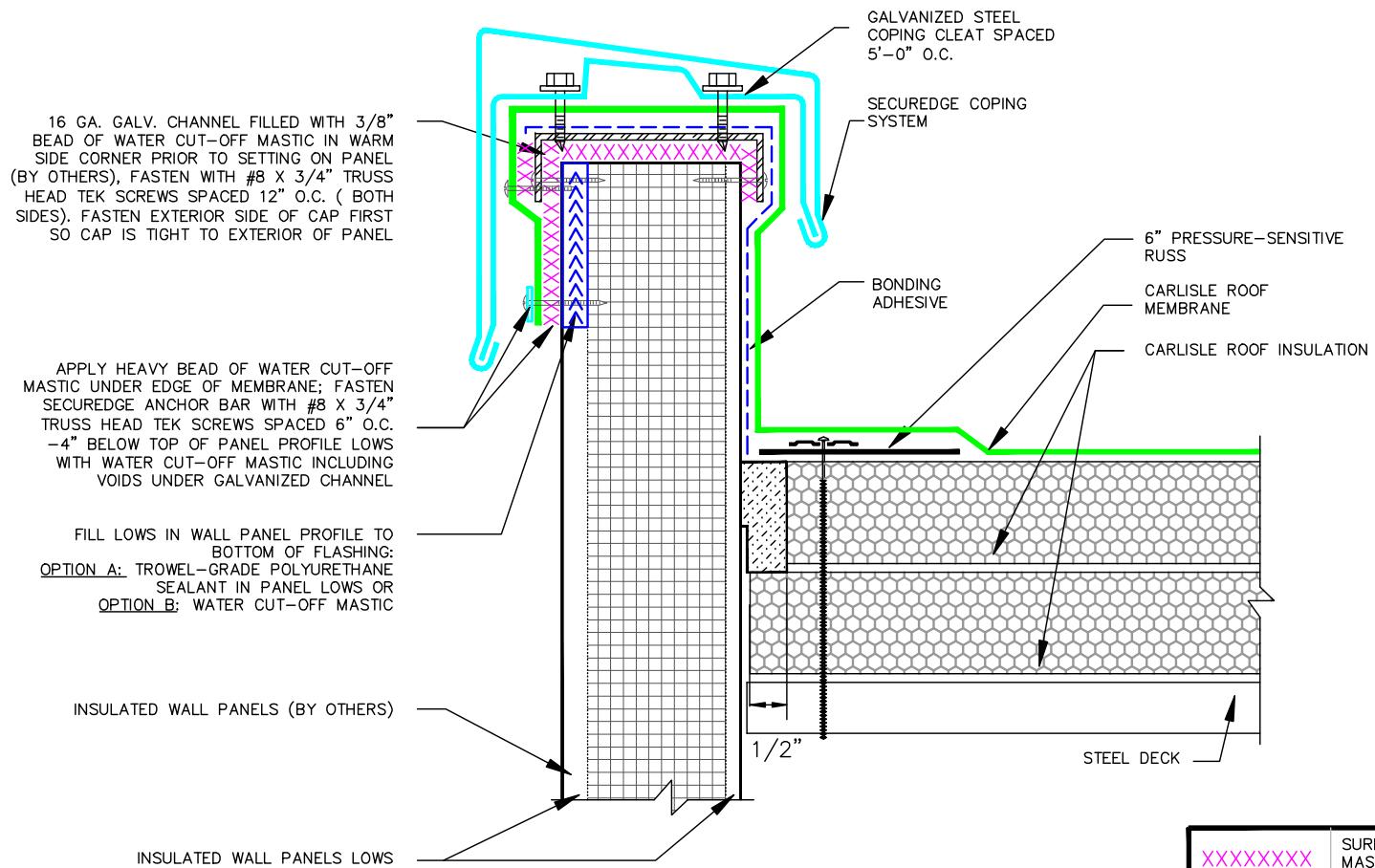


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COLD STORAGE ENVELOPE UNIVERSAL DETAILS ROOF EDGE DETAIL

COLD STORAGE DETAILS

CS | 1.1.5

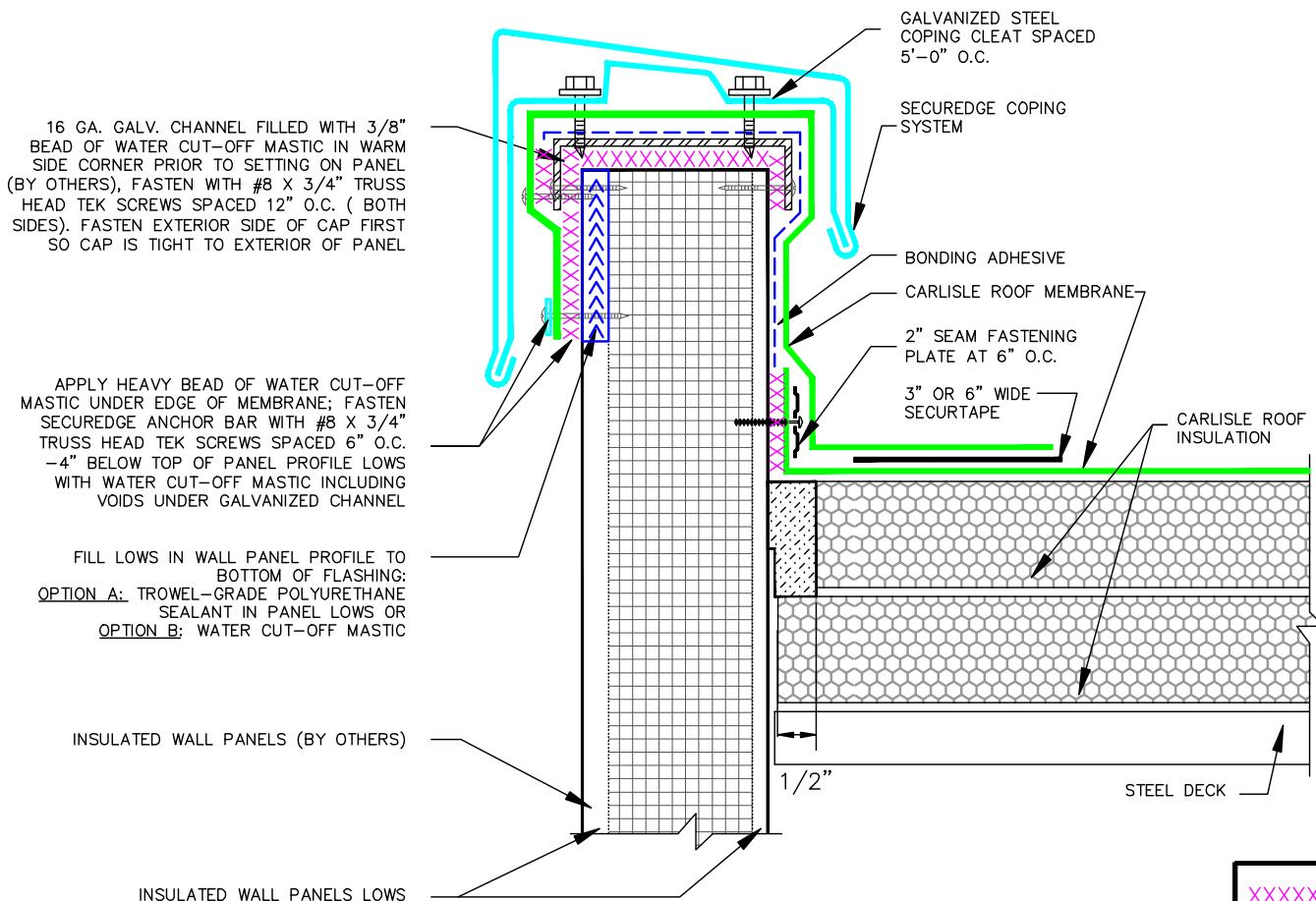


XXXXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
	FOAM-IN-PLACE INSULATION

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COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF PARAPET WALL DETAIL



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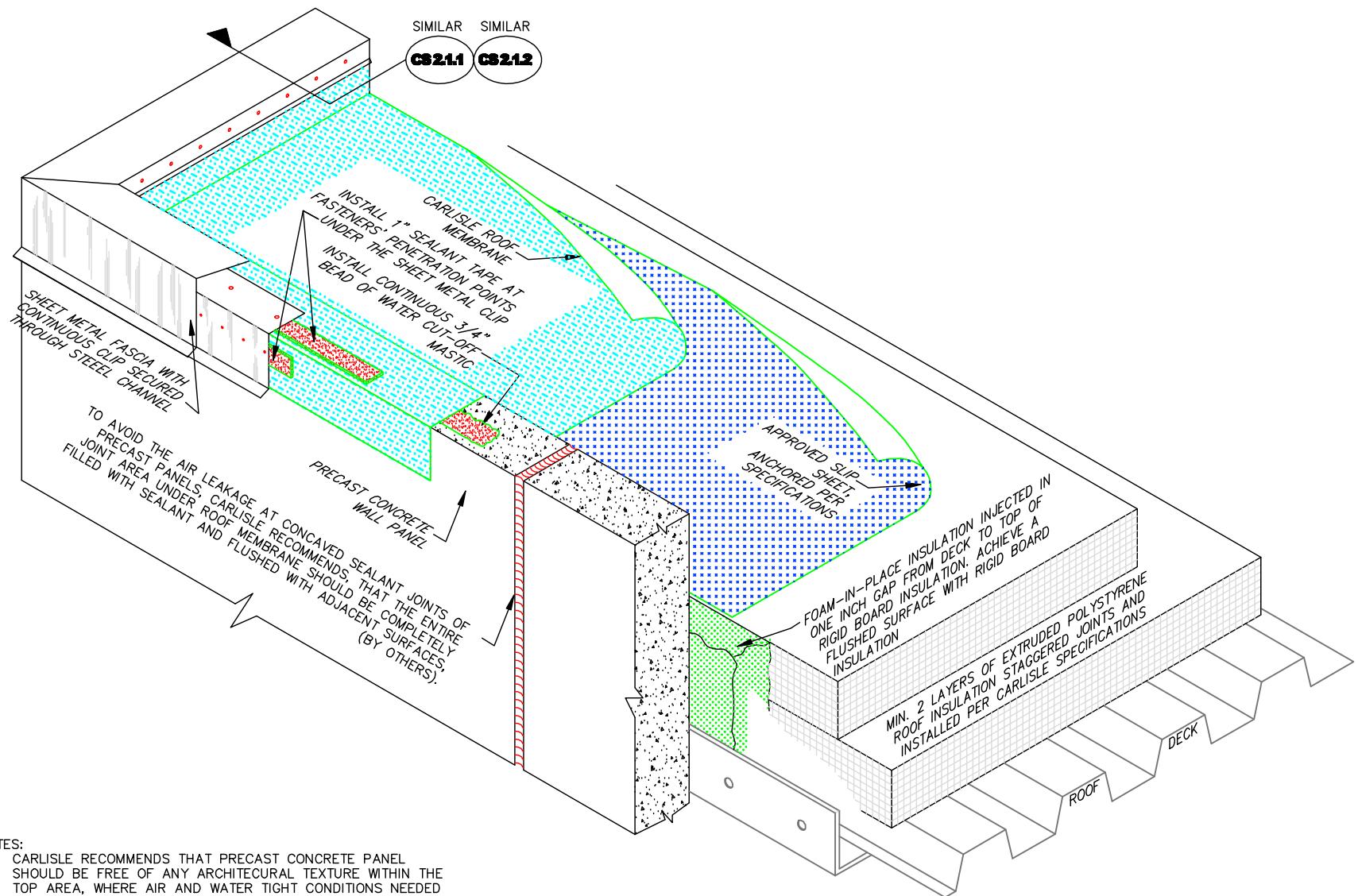


COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF PARAPET WALL DETAIL

COLD STORAGE DETAILS

CS | 2.1.2

XXXXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
██████████	FOAM-IN-PLACE INSULATION

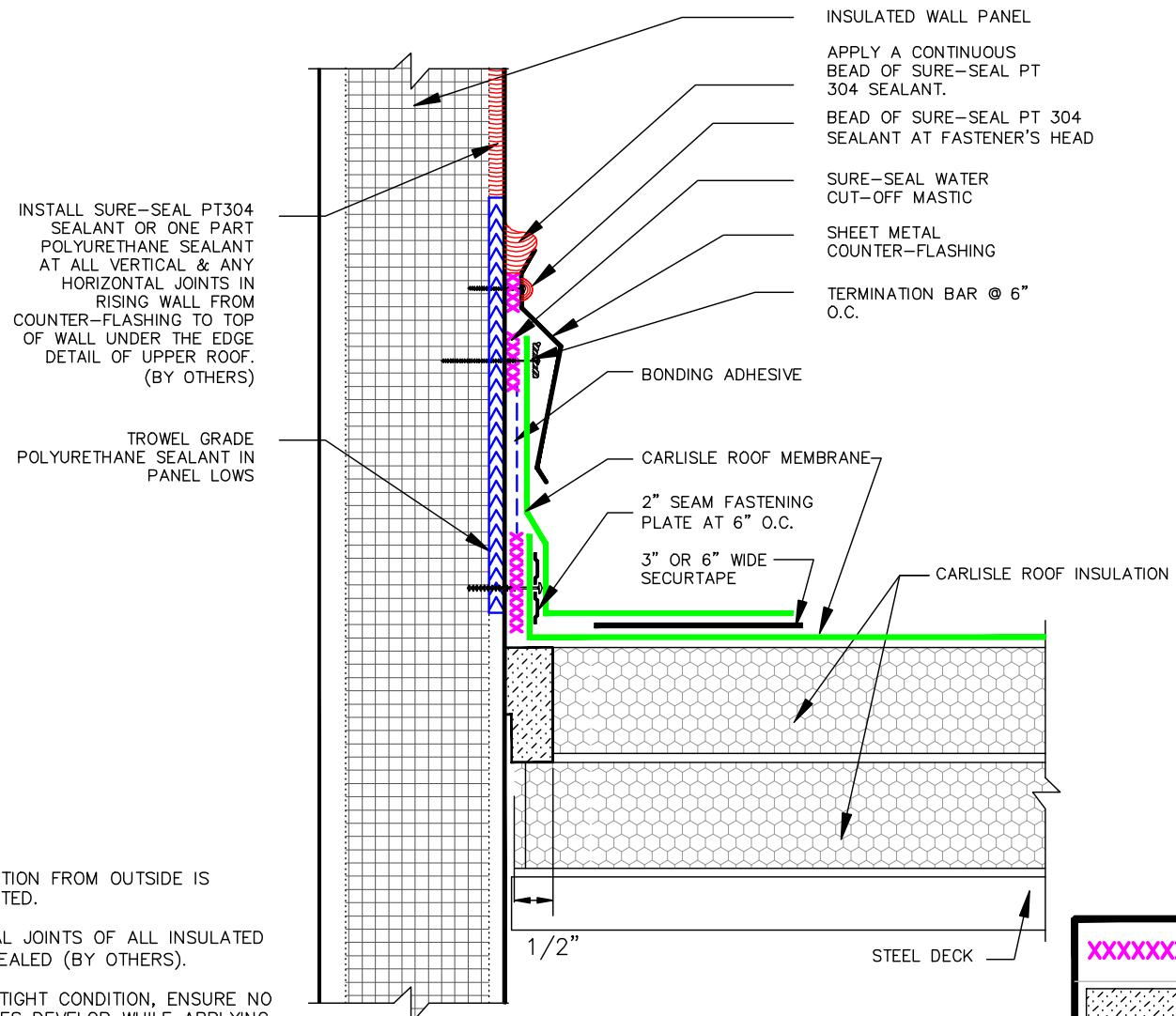


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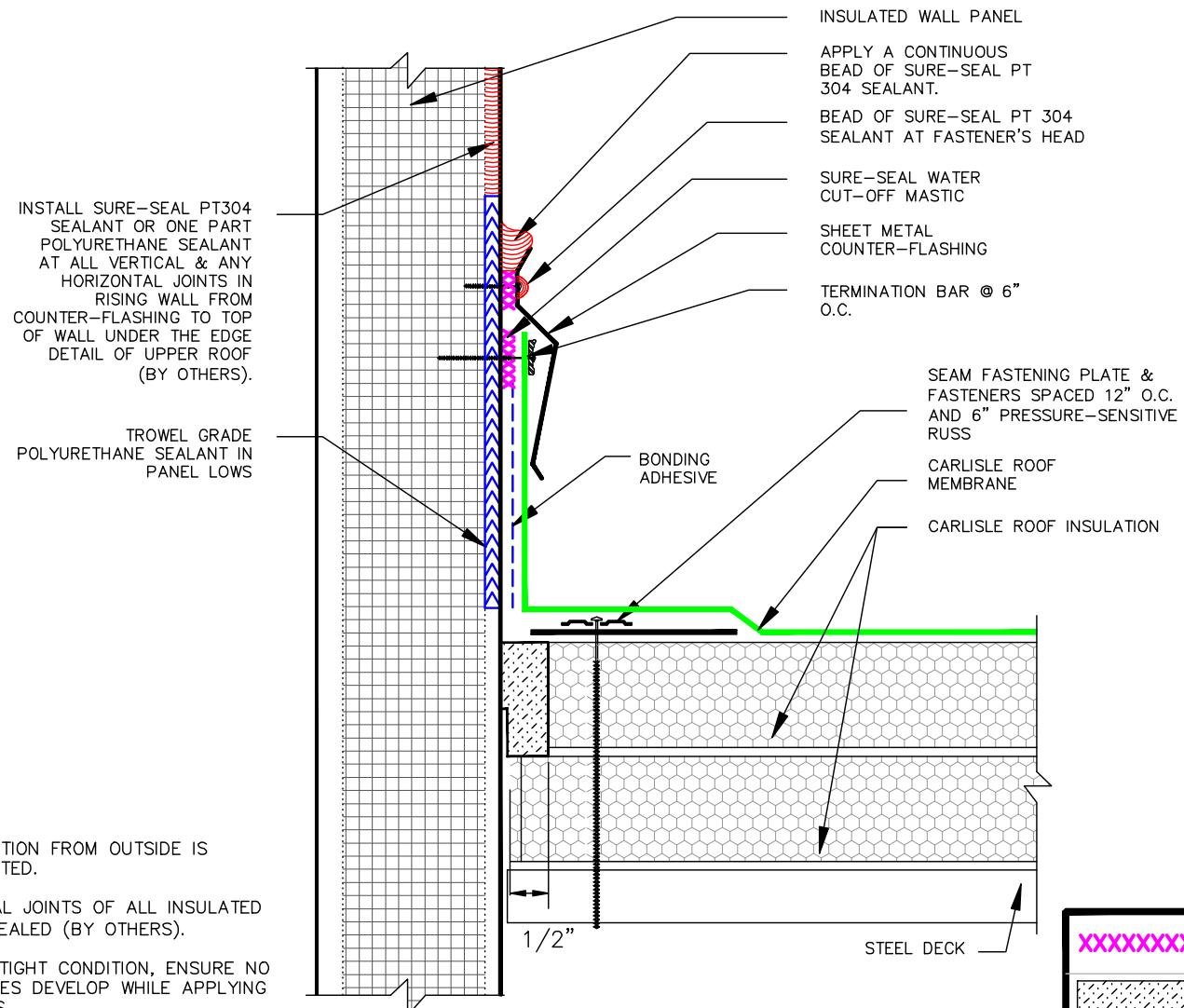
COLD STORAGE ENVELOPE UNIVERSAL DETAILS ROOF EDGE DETAIL

COLD STORAGE DETAILS

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	SURE-SEAL WATER CUT-OFF MASTIC
	FOAM-IN-PLACE INSULATION

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16 GA. GALV. CHANNEL FILLED WITH 3/8" BEAD OF WATER CUT-OFF MASTIC IN WARM SIDE CORNER PRIOR TO SETTING ON PANEL (BY OTHERS), FASTEN WITH #8 X 3/4" TRUSS HEAD TEK SCREWS SPACED 12" O.C. (BOTH SIDES), FASTEN EXTERIOR SIDE OF CAP FIRST SO CAP IS TIGHT TO EXTERIOR OF PANEL

ROOF MEMBRANE

FILL LOWS IN WALL PANEL PROFILE TO BOTTOM OF FLASHING:
OPTION A: TROWEL-GRADE POLYURETHANE SEALANT IN PANEL LOWS OR
OPTION B: WATER CUT-OFF MASTIC

APPLY HEAVY BEAD OF WATER CUT-OFF MASTIC UNDER MEMBRANE EDGE; FASTEN SECUREDGE ANCHOR BAR WITH #8 X 3/4" TRUSS HEAD TEK SCREWS SPACED 6" O.C. - 4" BELOW TOP OF PANEL PROFILE LOWS WITH WATER CUT-OFF MASTIC INCLUDING VOIDS UNDER GALV. CHANNEL

INSULATED WALL PANELS (BY OTHERS)

INSULATED WALL PANELS LOWS

SECUREDGE FASCIA WITH ANCHOR BAR & SNAP-ON COVER

BONDING ADHESIVE

ROOF MEMBRANE

CARLISLE ROOF INSULATION

STEEL DECK

1/2"

XXXXXXX

SURE-SEAL WATER CUT-OFF MASTIC



FOAM-IN-PLACE INSULATION

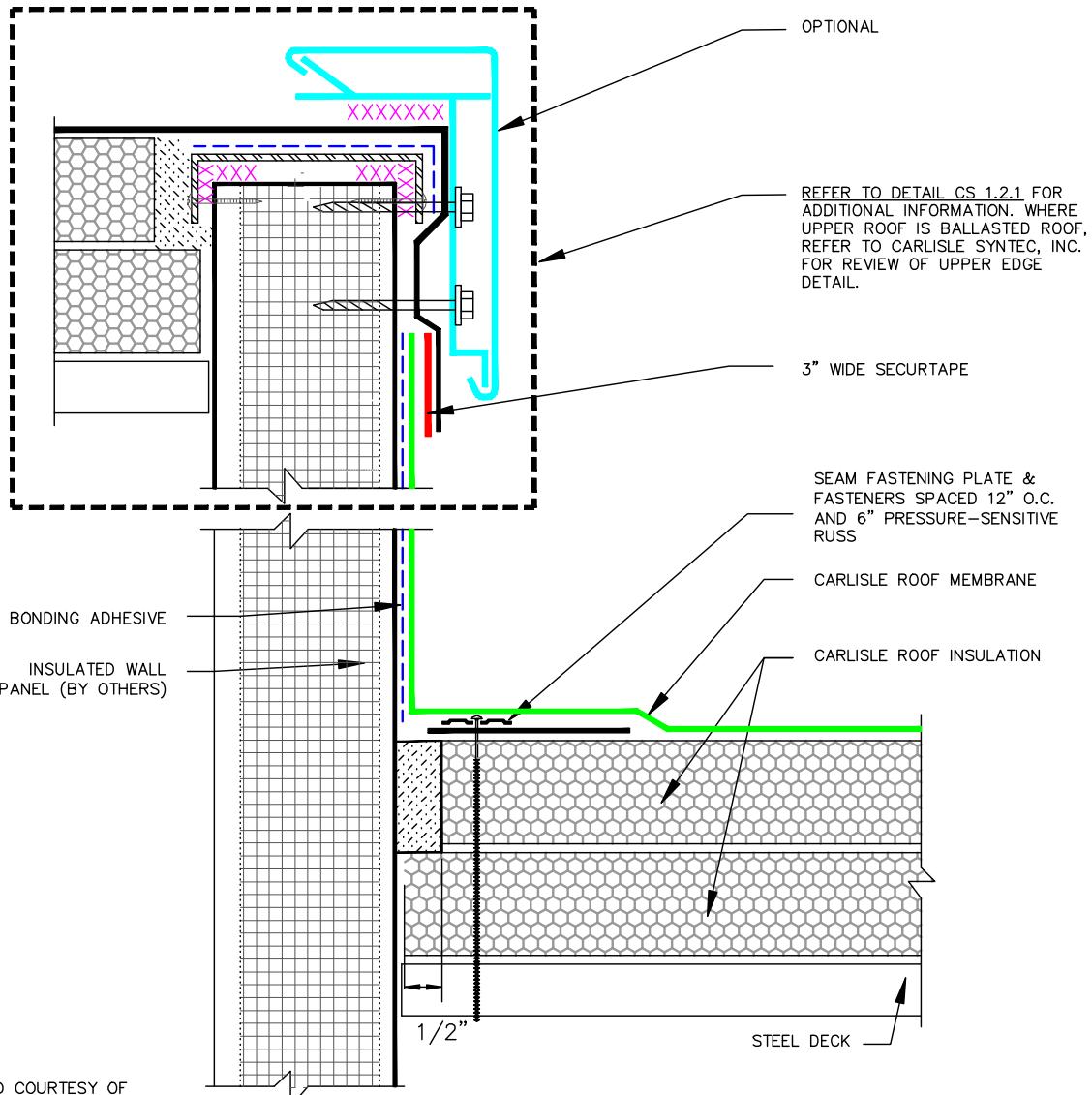
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COLD STORAGE ENVELOPE UNIVERSAL DETAIL - ROOF EDGE DETAIL

COLD STORAGE DETAILS

CS | 1.2.1



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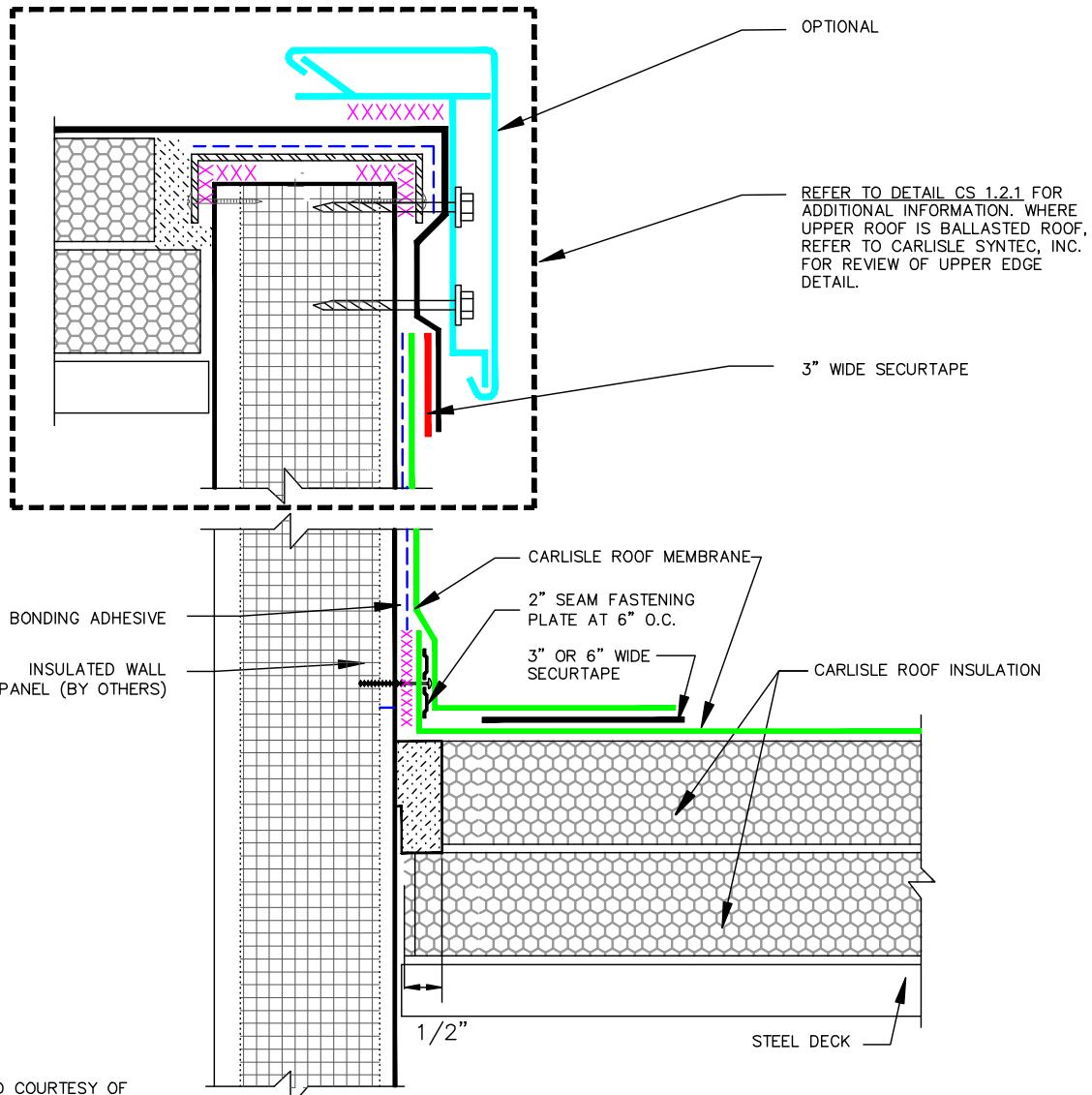
COLD STORAGE ENVELOPE IWP: COVERED RISING WALL FLASHING

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COLD STORAGE DETAILS

CS | 3.2.1

- NOTES:
1. ENSURE AIR INFILTRATION FROM OUTSIDE IS COMPLETELY RESTRICTED.
 2. ENSURE THE VERTICAL JOINTS OF ALL INSULATED WALL PANELS ARE SEALED (BY OTHERS).



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COLD STORAGE ENVELOPE IWP: COVERED RISING WALL FLASHING

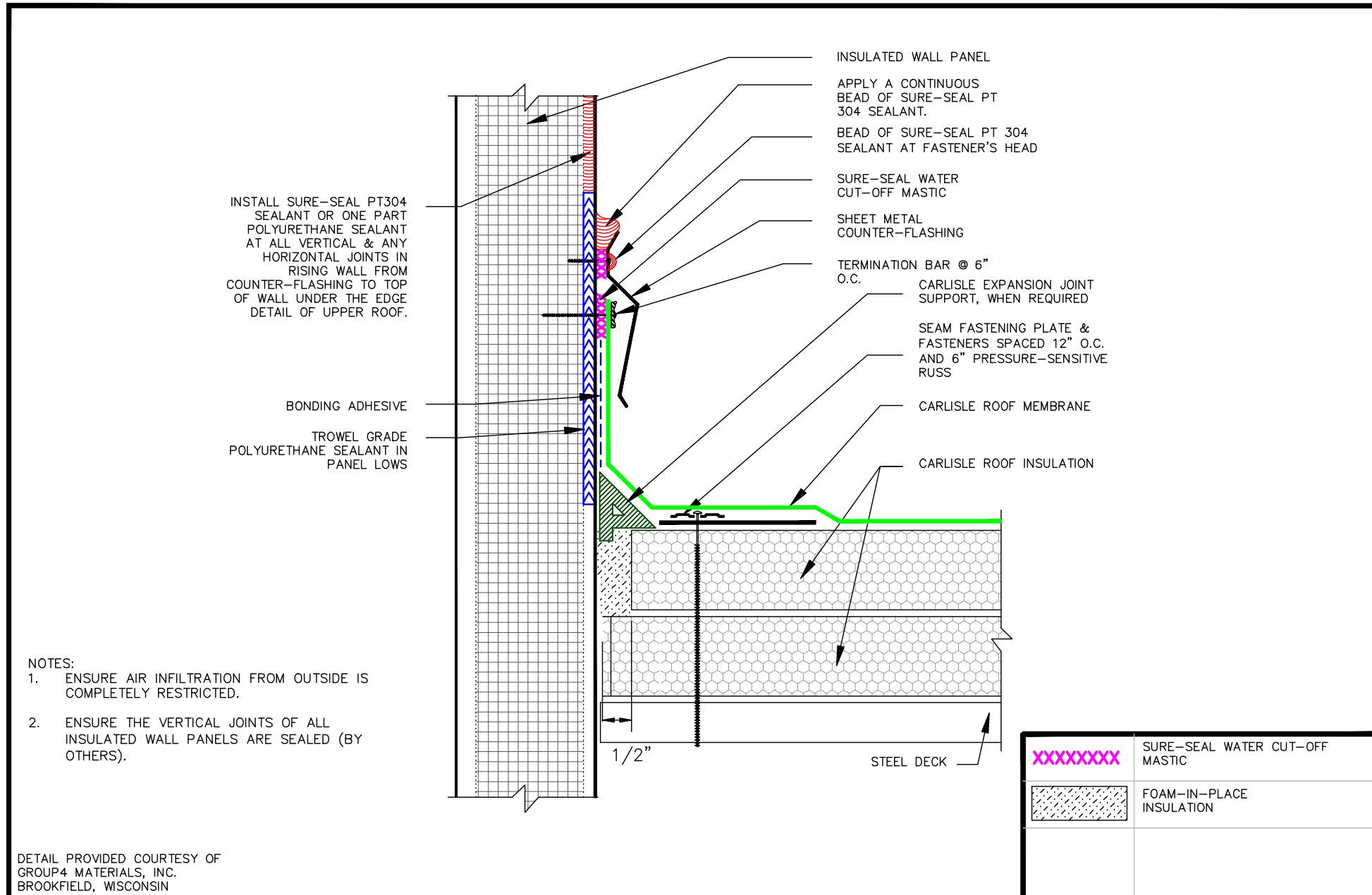
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 2. ENSURE THE VERTICAL JOINTS OF ALL INSULATED WALL PANELS ARE SEALED (BY OTHERS).

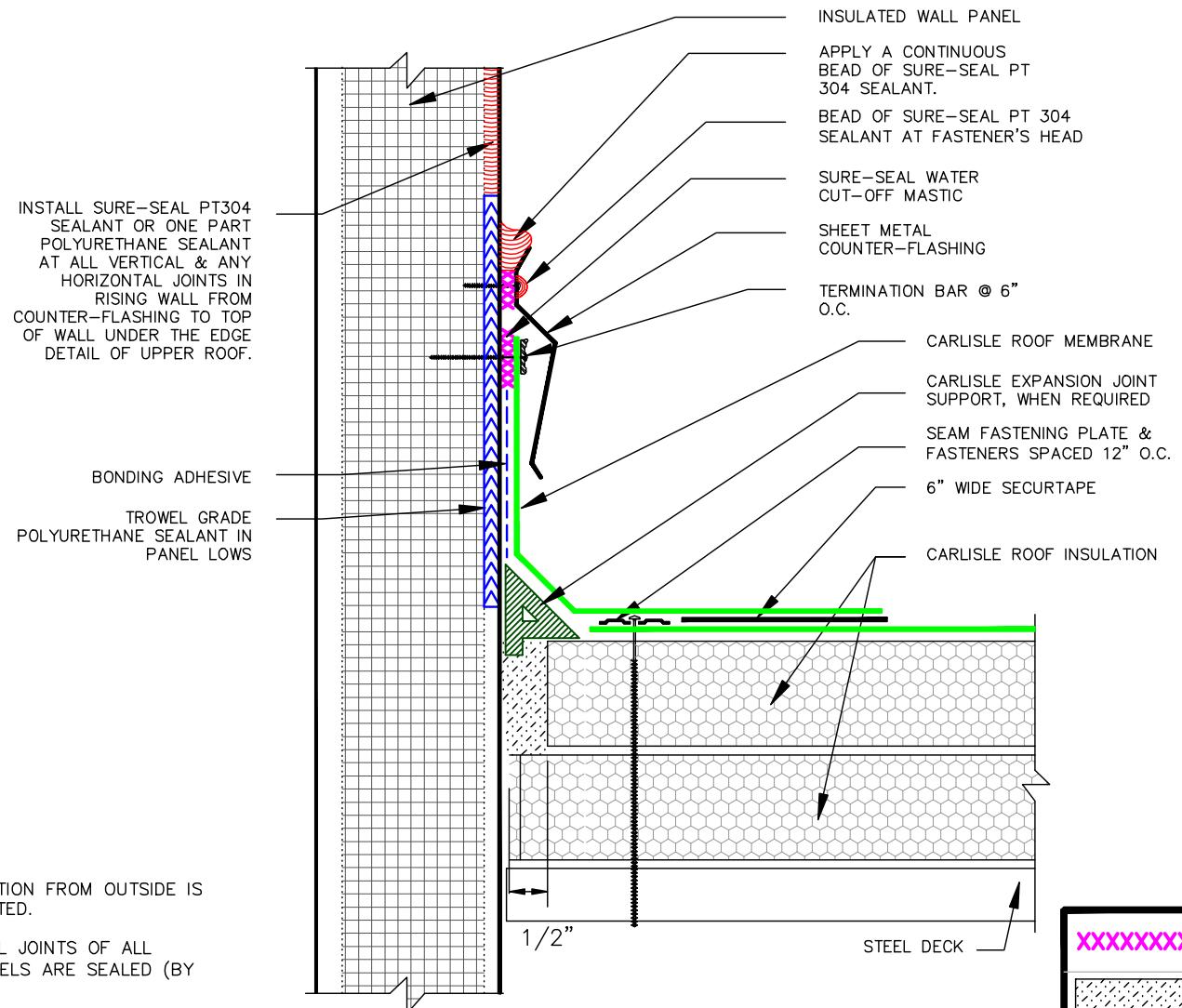
XXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
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	FOAM-IN-PLACE INSULATION
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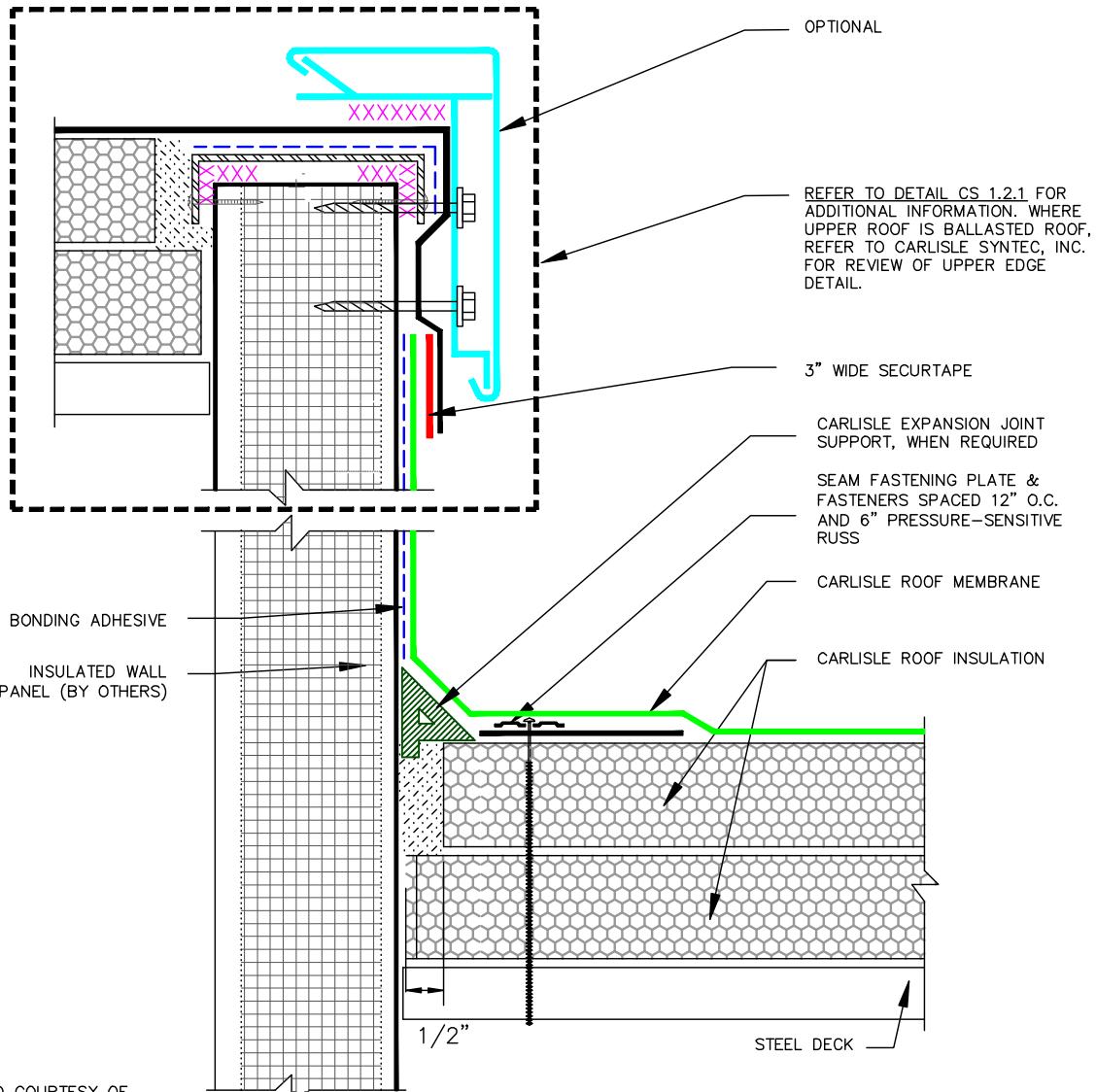
COLD STORAGE DETAILS

CS | 3.2.2





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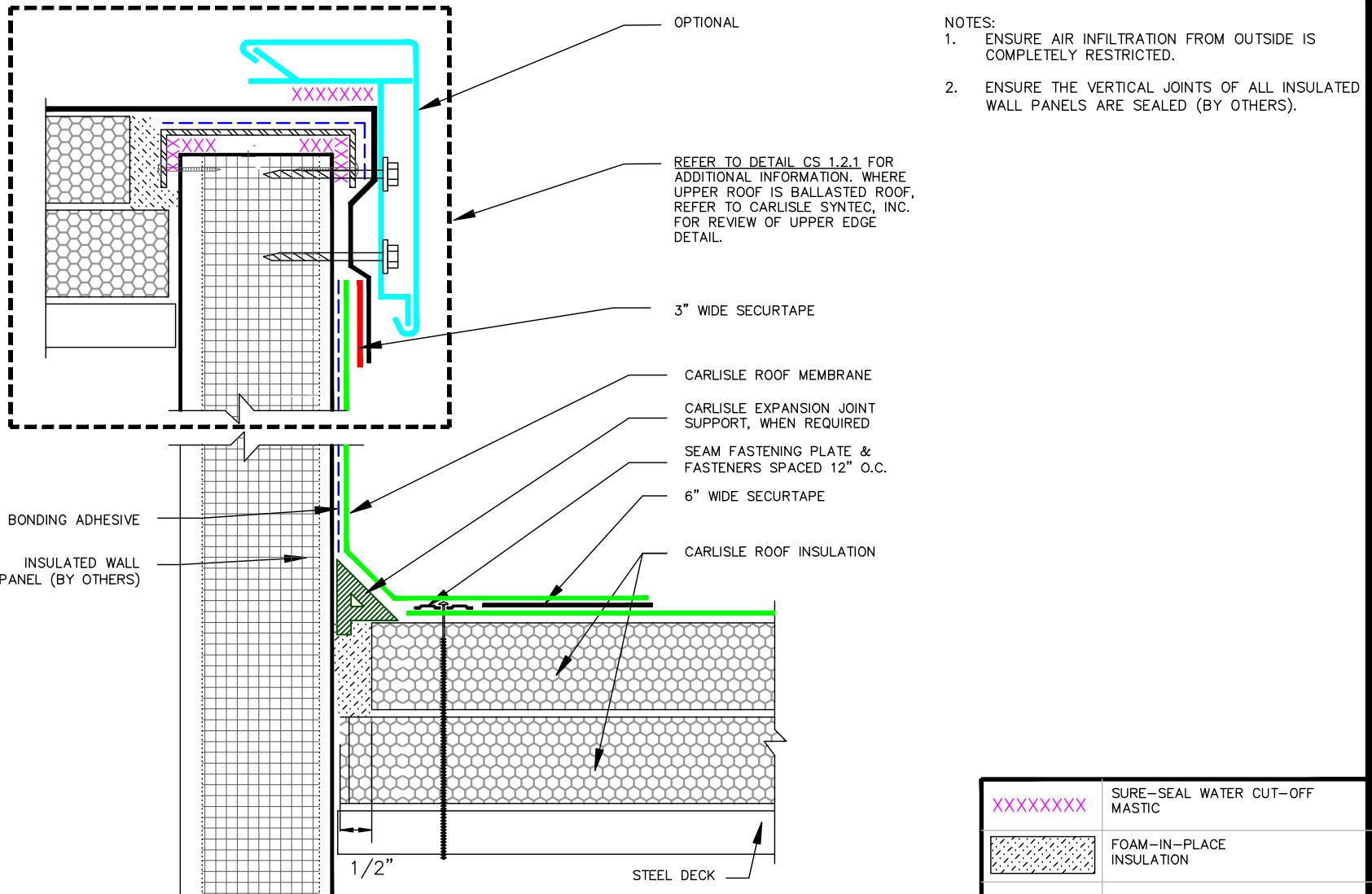
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COLD STORAGE ENVELOPE IWP: COVERED RISING WALL, DECK-TO-WALL EXP. JOINT

COLD STORAGE DETAILS

CS | 3.4.1



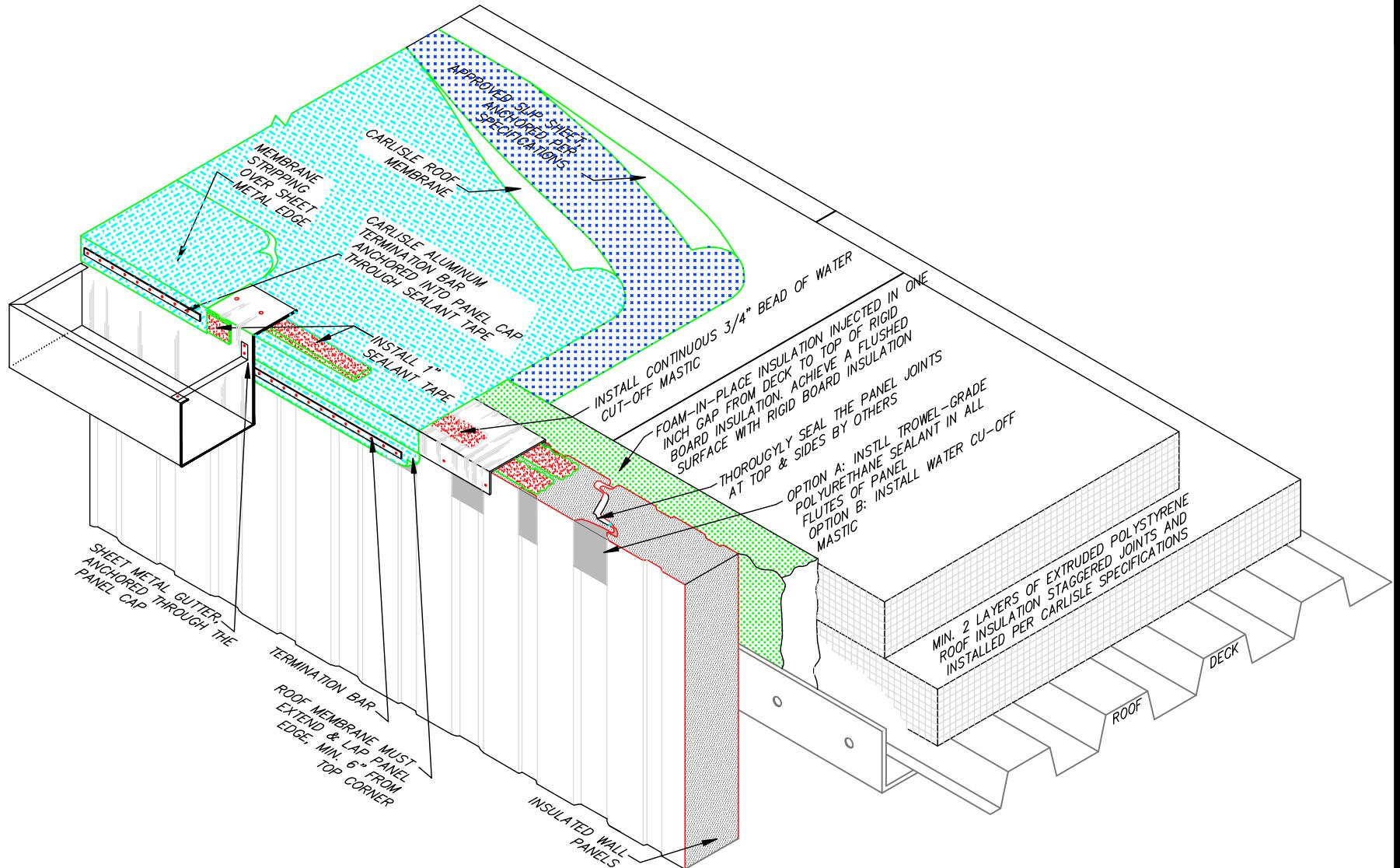
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COLD STORAGE ENVELOPE IWP: COVERED RISING WALL, DECK-TO-WALL EXP. JOINT

COLD STORAGE DETAILS

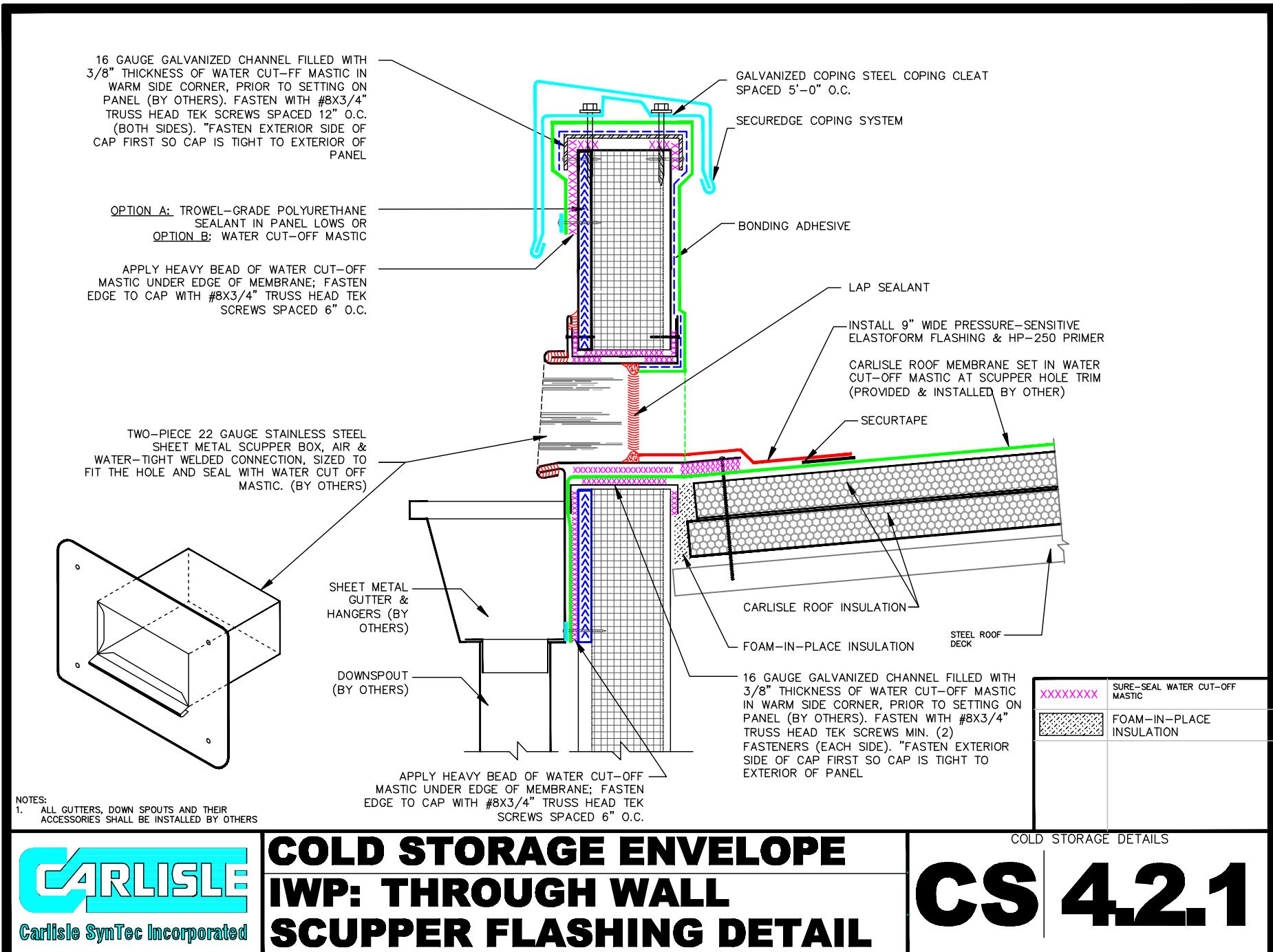
CS | 34.2



COLD STORAGE ENVELOPE IWP: ROOF EDGE WITH GUTTER DETAIL

COLD STORAGE DETAILS

CS | 4.1.2



16 GAUGE GALVANIZED CHANNEL FILLED WITH 3/8" THICKNESS OF WATER CUT-FF MASTIC IN WARM SIDE CORNER, PRIOR TO SETTING ON PANEL (BY OTHERS). FASTEN WITH #8 X 3/4" TRUSS HEAD TEK SCREWS SPACED 12" O.C. (BOTH SIDES). FASTEN EXTERIOR SIDE OF CAP FIRST SO CAP IS TIGHT TO EXTERIOR OF PANEL.

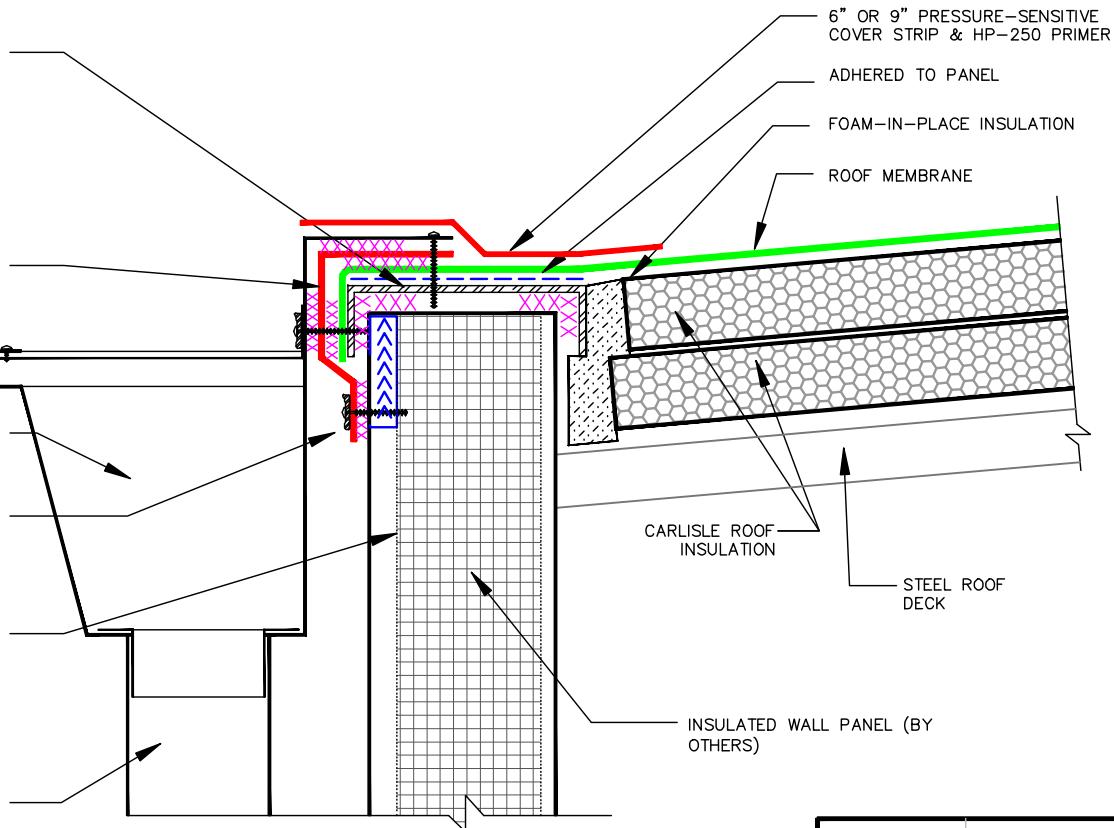
INSTALL 9" WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING & HP-250 PRIMER

PRE-FINISHED GUTTER & HANGERS

FASTEN MEMBRANE EDGE WITH TERMINATION BAR & #8X3/4" TEK SCREWS SPACED 6" O.C.

FILL LOWS IN WALL PANEL PROFILE WITH WATER CUT-OFF MASTIC, 4" DOWN FROM TOP OF PANEL; PANEL PROFILE LOWS MUST BE FILLED TO BOTTOM OF FLASHING

DOWNSPOUT



NOTES:

1. ALL GUTTERS, DOWN SPOUTS AND THEIR ACCESSORIES SHALL BE INSTALLED BY OTHERS
2. REFER TO CARLISLE SYNTECT, INC. WHERE BALLASTED ROOF SYSTEM WILL REQUIRE EDGE DETAIL.

DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN



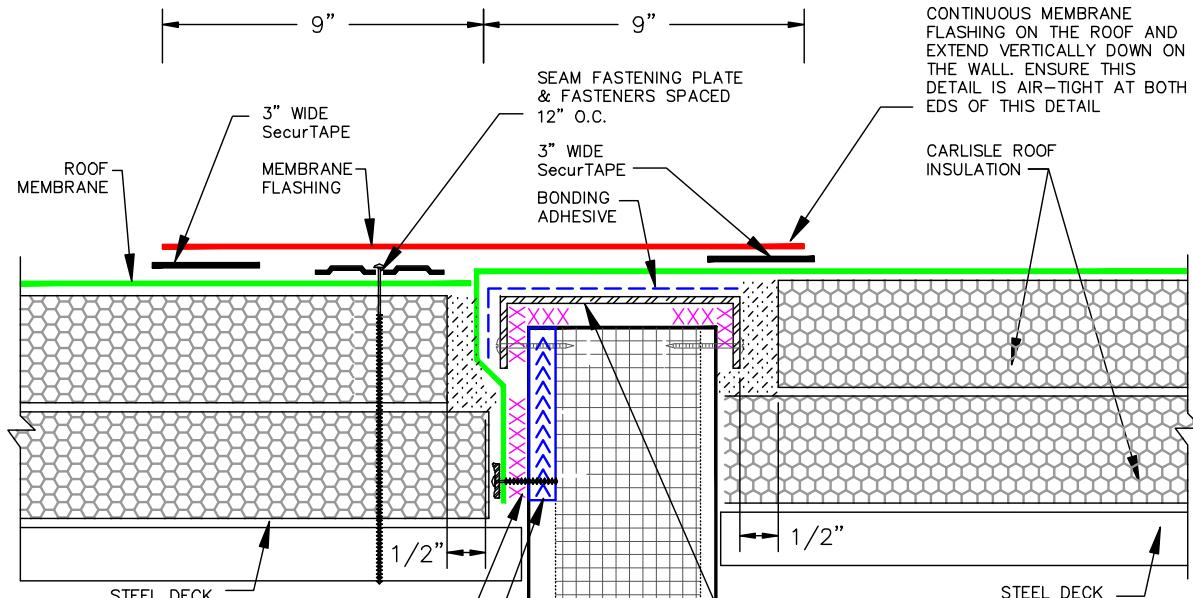
COLD STORAGE ENVELOPE IWP: ROOF EDGE WITH GUTTER DETAIL

XXXXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
[Hatched pattern]	FOAM-IN-PLACE INSULATION
[Blank]	

COLD STORAGE DETAILS

CS | 41.1

NOTE:
PRIOR TO THIS DETAIL INSTALLATION,
THE DIRECTION OF WATER FLOW
SHOULD BE IDENTIFIED SO EXISTING
WATER FLOW IS NOT IMPEDED.



APPLY HEAVY BEAD OF WATER CUT-OFF MASTIC UNDER MEMBRANE EDGE; FASTEN SECUREDGE ANCHOR BAR WITH #8 X 3/4" TRUSS HEAD TEK SCREWS SPACED 6" O.C. - 4" BELOW TOP OF PANEL PROFILE LOWS WITH WATER CUT-OFF MASTIC INCLUDING VOIDS UNDER GALV. CHANNEL

FILL LOWS IN WALL PANEL PROFILE TO BOTTOM OF FLASHING:
OPTION A: TROWEL-GRADE POLYURETHANE SEALANT IN PANEL LOWS OR
OPTION B: WATER CUT-OFF MASTIC

16 GA. GALV. CHANNEL FILLED WITH 3/8" BEAD OF WATER CUT-OFF MASTIC IN WARM SIDE CORNER PRIOR TO SETTING ON PANEL (BY OTHERS), FASTEN WITH #8 X 3/4" TRUSS HEAD TEK SCREWS SPACED 12" O.C. (BOTH SIDES). FASTEN EXTERIOR SIDE OF CAP FIRST SO CAP IS TIGHT TO EXTERIOR OF PANEL

DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN

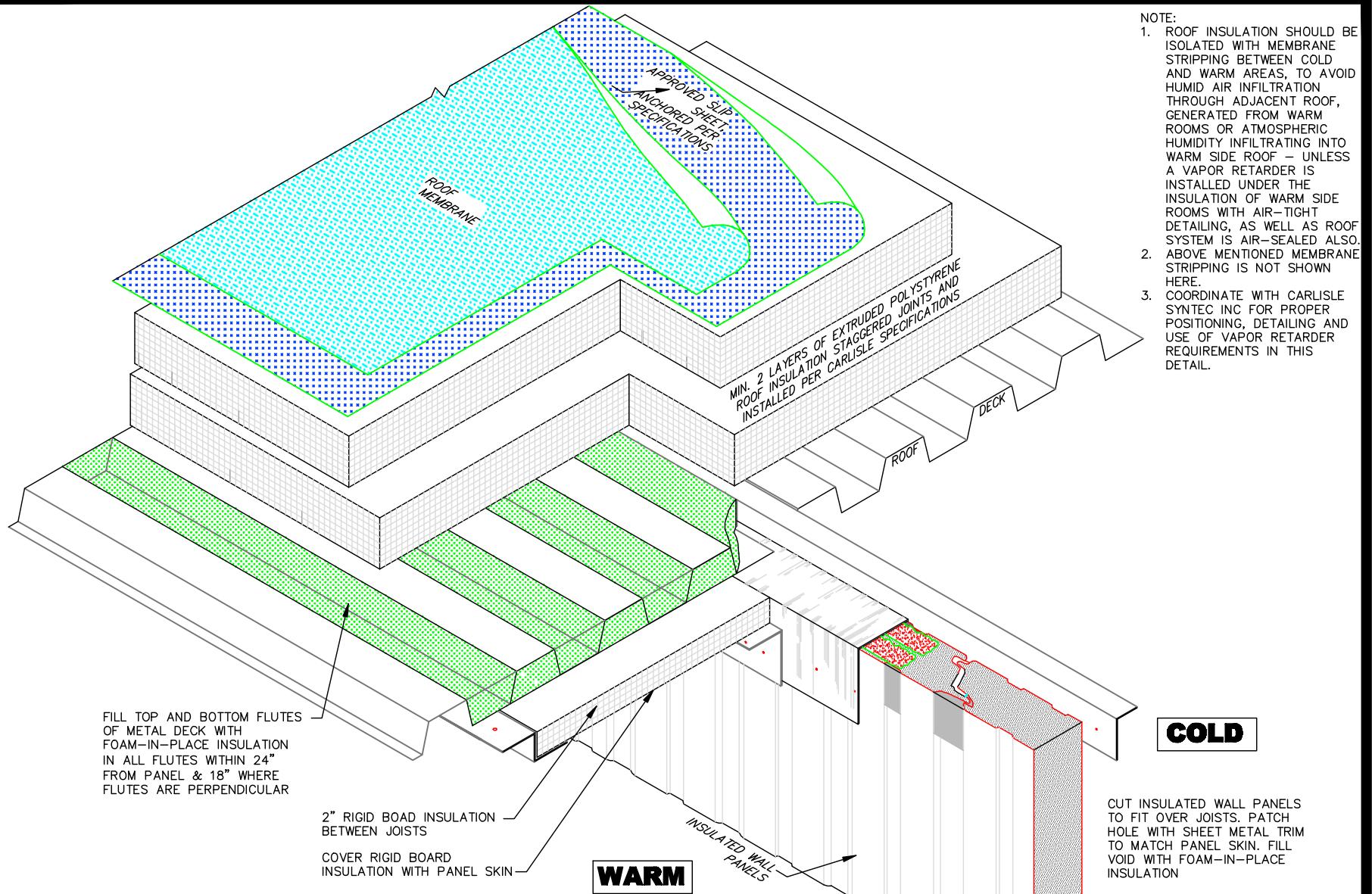


COLD STORAGE ENVELOPE IWP: TRANSITION BETWEEN COLD & WARM AREAS

	SURE-SEAL WATER CUT-OFF MASTIC
	FOAM-IN-PLACE INSULATION

COLD STORAGE DETAILS

CS | 5.1.1

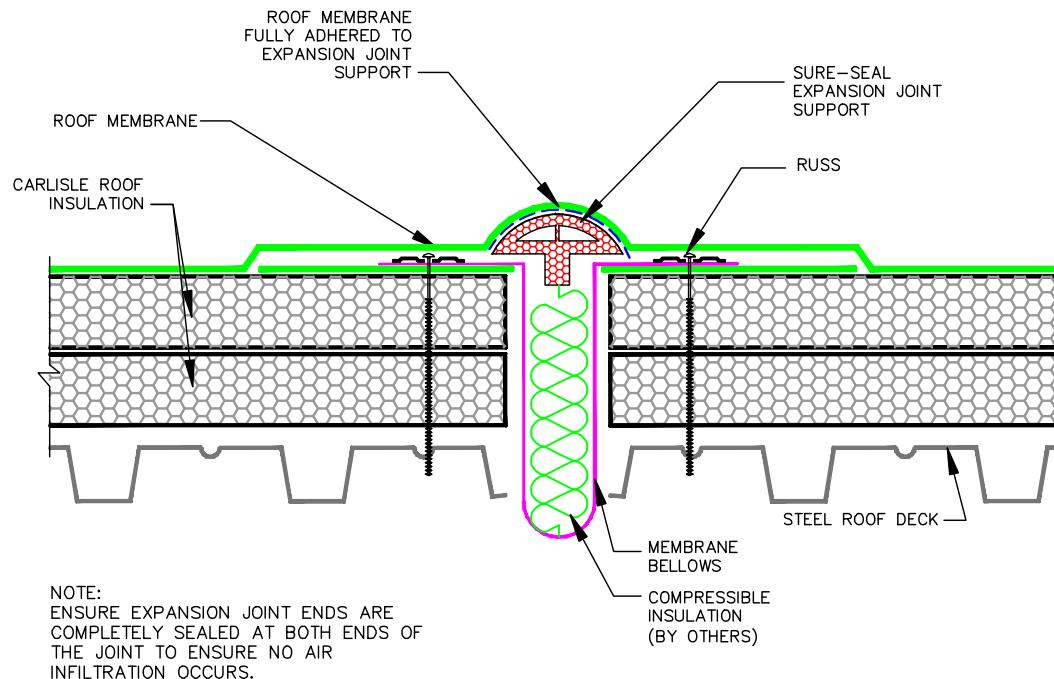


CARLISLE
Carlisle Syntec Incorporated

COLD STORAGE ENVELOPE IWP: TRANSITION BETWEEN COLD & WARM SPACE

COLD STORAGE DETAILS

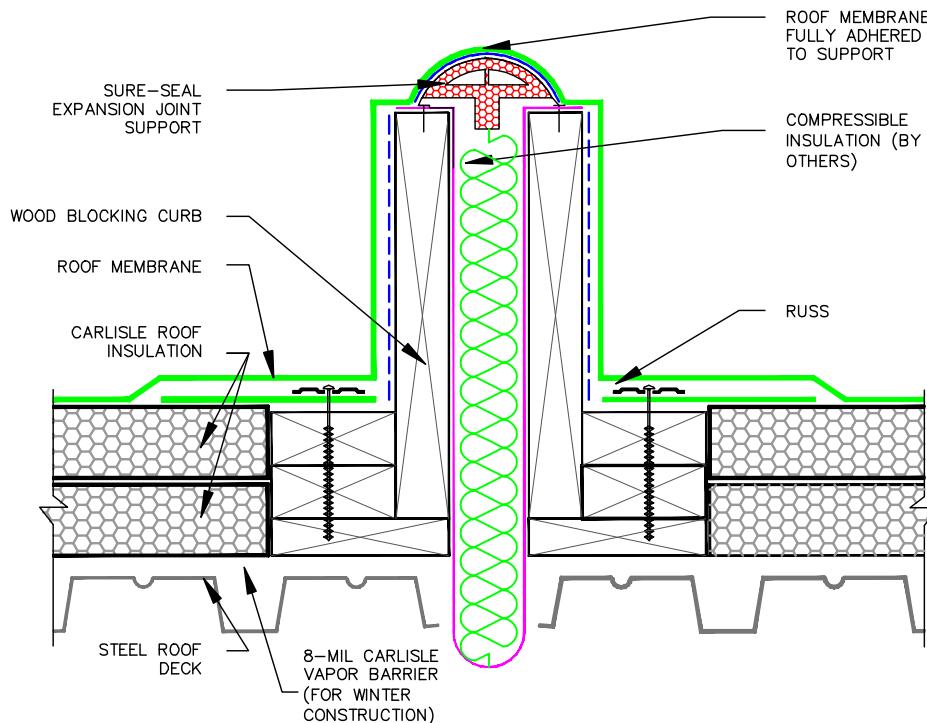
CS 5.2.1



DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN



COLD STORAGE ENVELOPE LOW PROFILE EXPANSION JOINT DETAIL



NOTE:
ENSURE EXPANSION JOINT ENDS ARE COMPLETELY SEALED AT BOTH ENDS OF THE
JOINT TO ENSURE NO AIR INFILTRATION OCCURS.



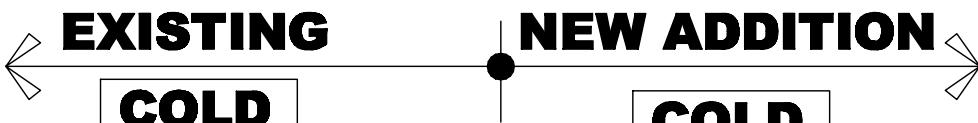
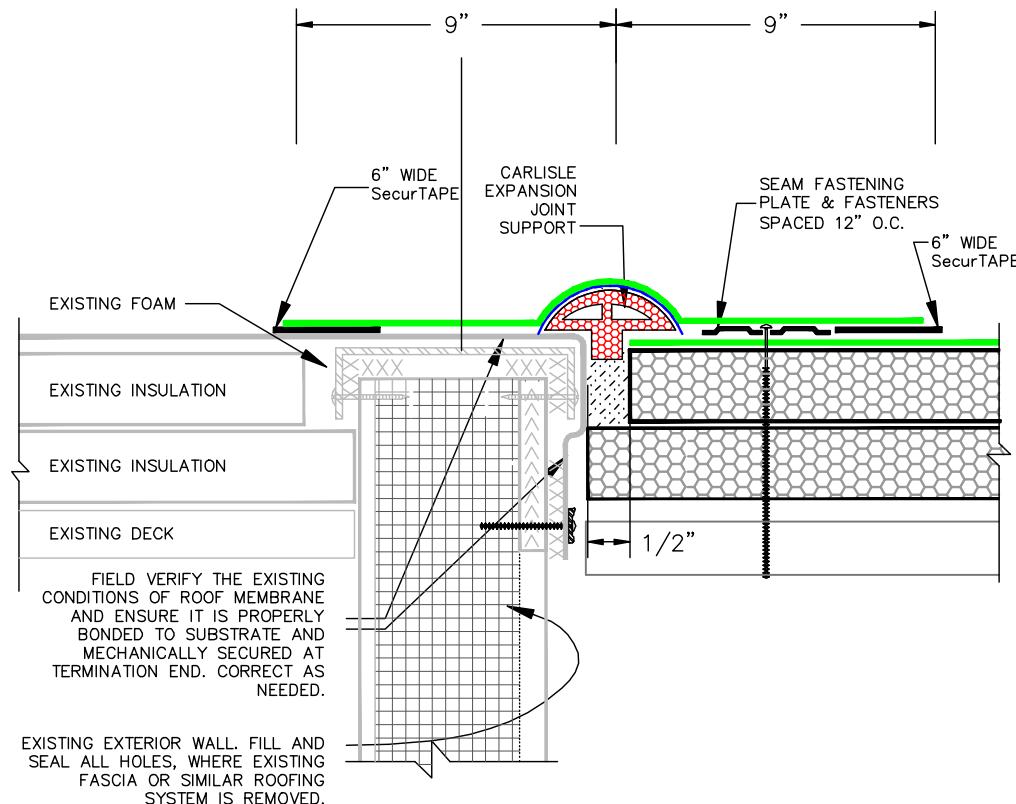
COLD STORAGE ENVELOPE CURBED EXPANSION JOINT DETAIL

COLD STORAGE DETAILS

CS | 54.1

NOTES:

1. ENSURE AIR INFILTRATION FROM OUTSIDE IS COMPLETELY RESTRICTED.
2. ENSURE THE VERTICAL JOINTS OF ALL INSULATED WALL PANELS ARE SEALED (BY OTHERS).



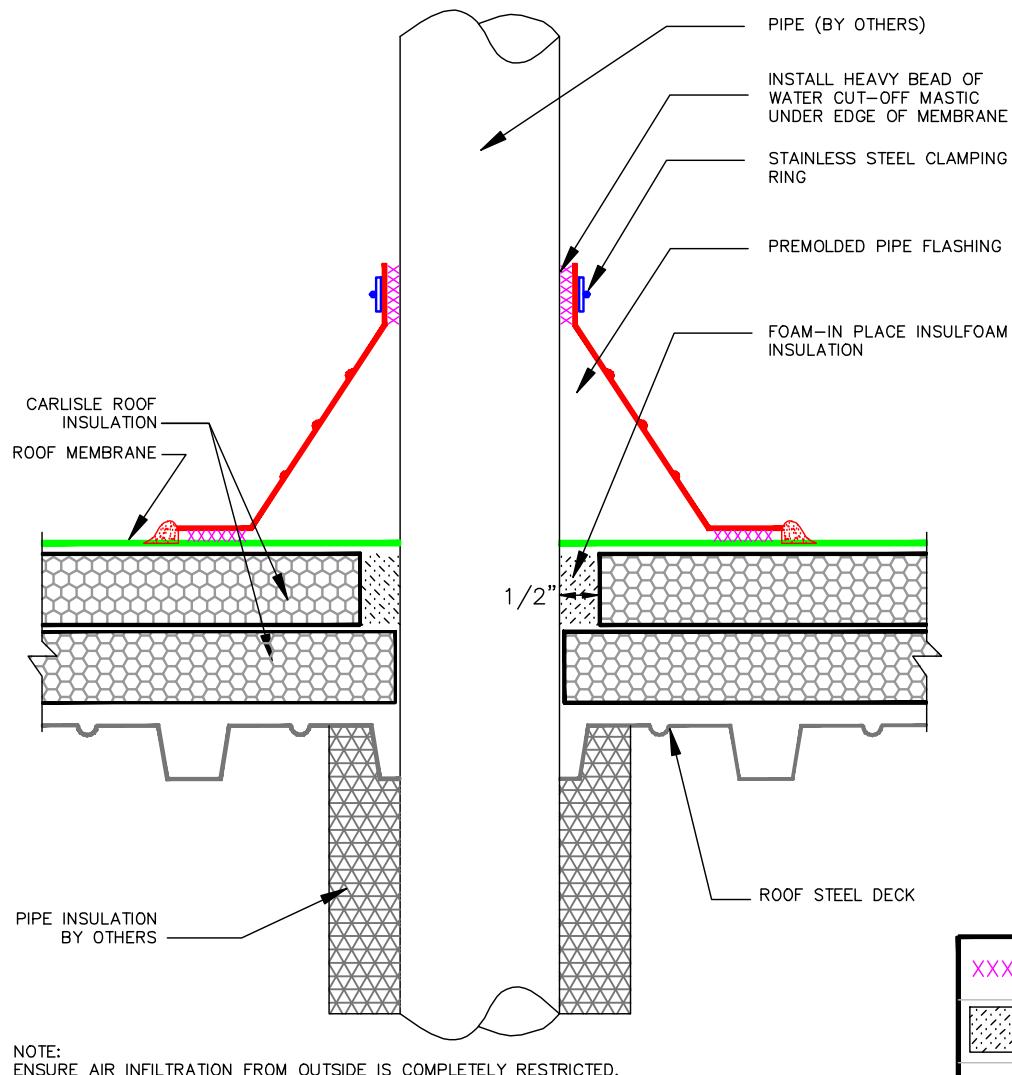
DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN



COLD STORAGE ENVELOPE IWP: TIE-IN BTW. EXISTING COLD TO NEW COLD ADDITION

COLD STOBASEORACILE DETAILS

CS | 5.5.1

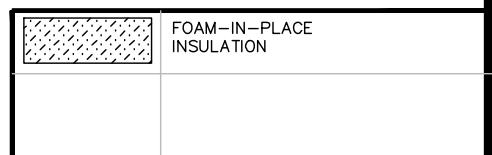
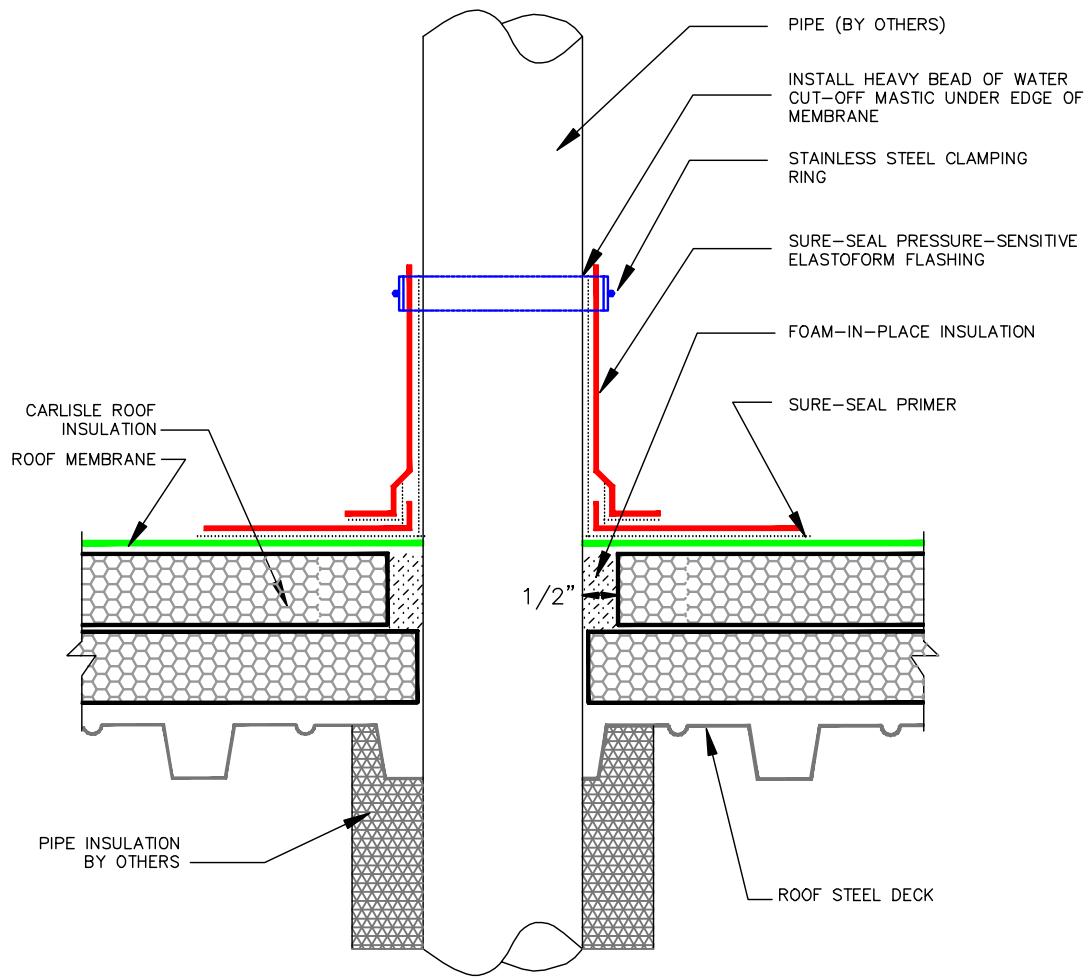


XXXXXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
	FOAM-IN-PLACE INSULATION

DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN



COLD STORAGE ENVELOPE NON INSULATED PIPE: PREMOLDED PIPE FLASHING



DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN

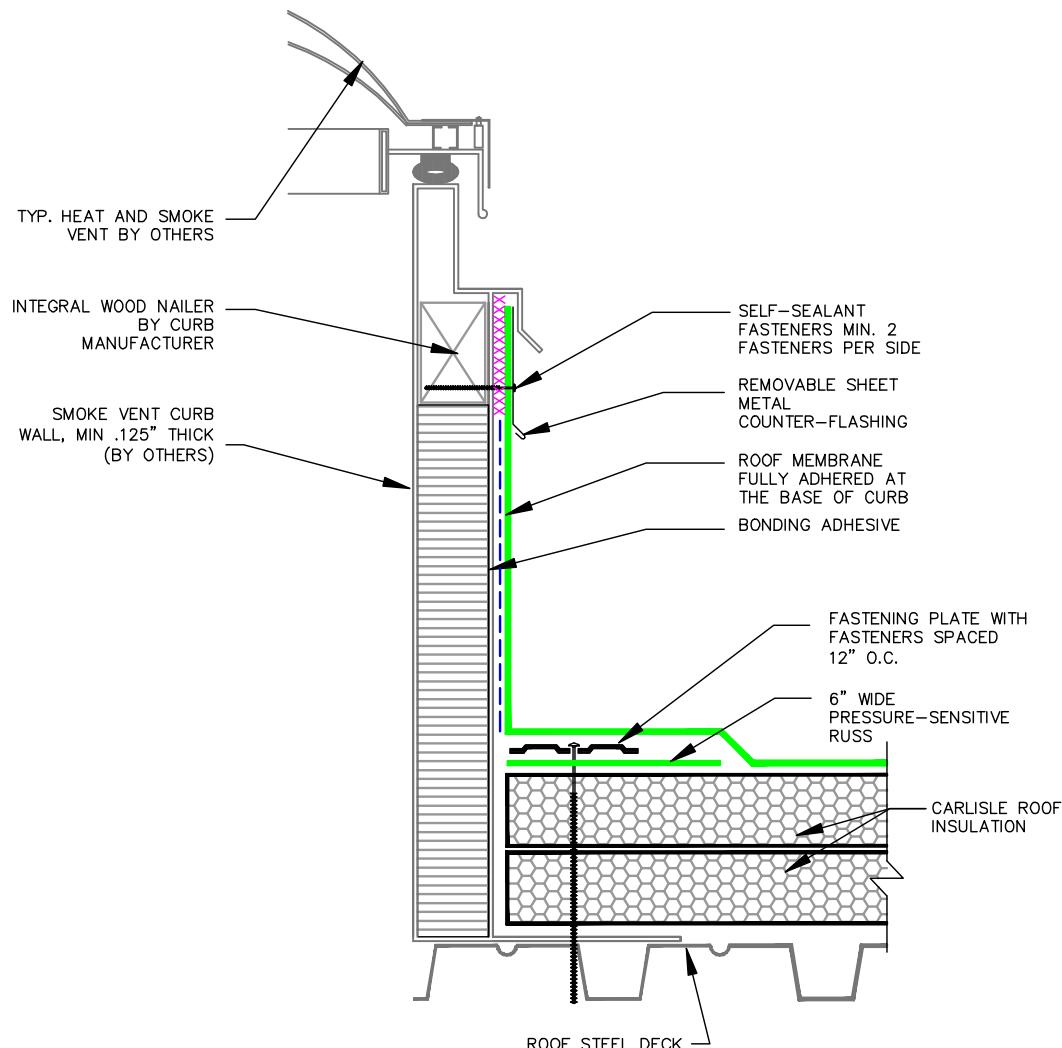


COLD STORAGE ENVELOPE NON INSULATED PIPE: FIELD FABRICATED FLASHING

© 2007 CARLISLE SYNTAC INCORPORATED

COLD 600 BASEFLASH DETAILS

CS | 6.2.1



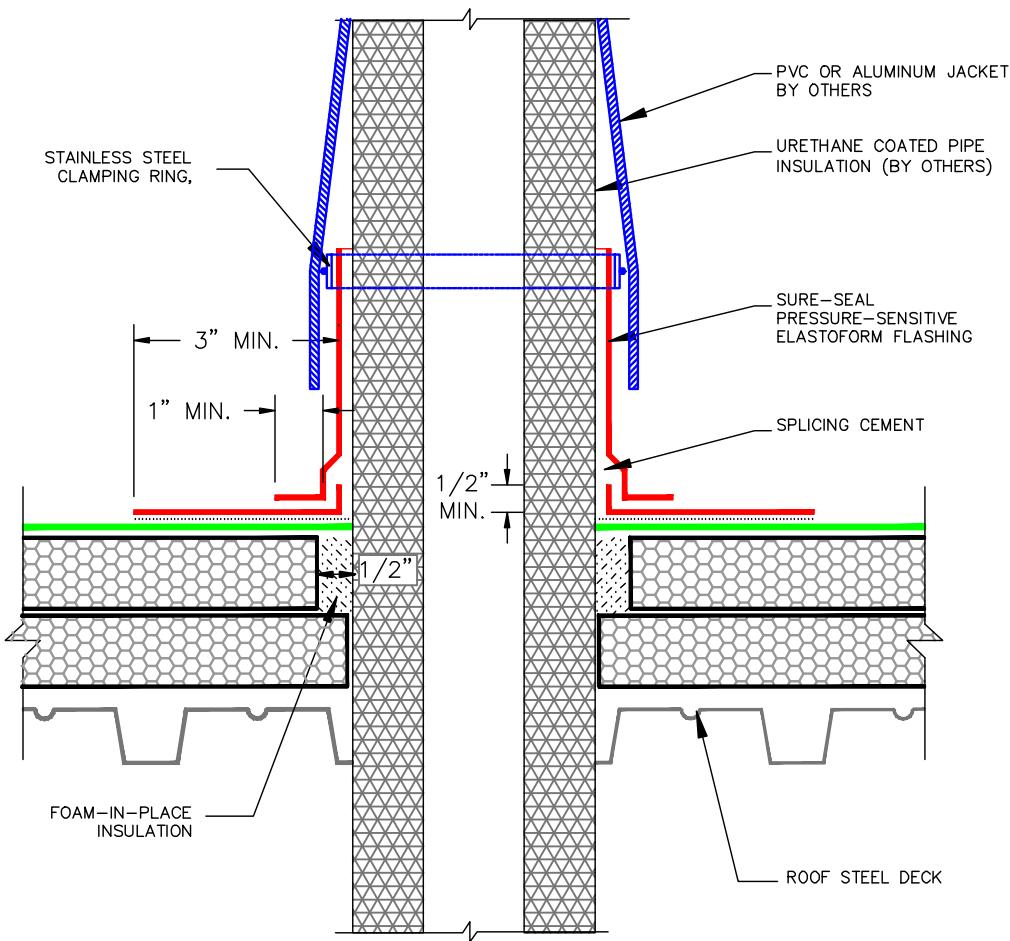
DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN



COLD STORAGE ENVELOPE SMOKE VENT DETAIL

COLD STORAGE DETAILS

CS | 64.1



DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN

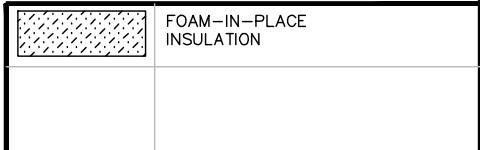


COLD STORAGE ENVELOPE INSULATED PIPE: FIELD FABRICATED FLASHING

© 2007 CARLISLE SYNTAC INCORPORATED

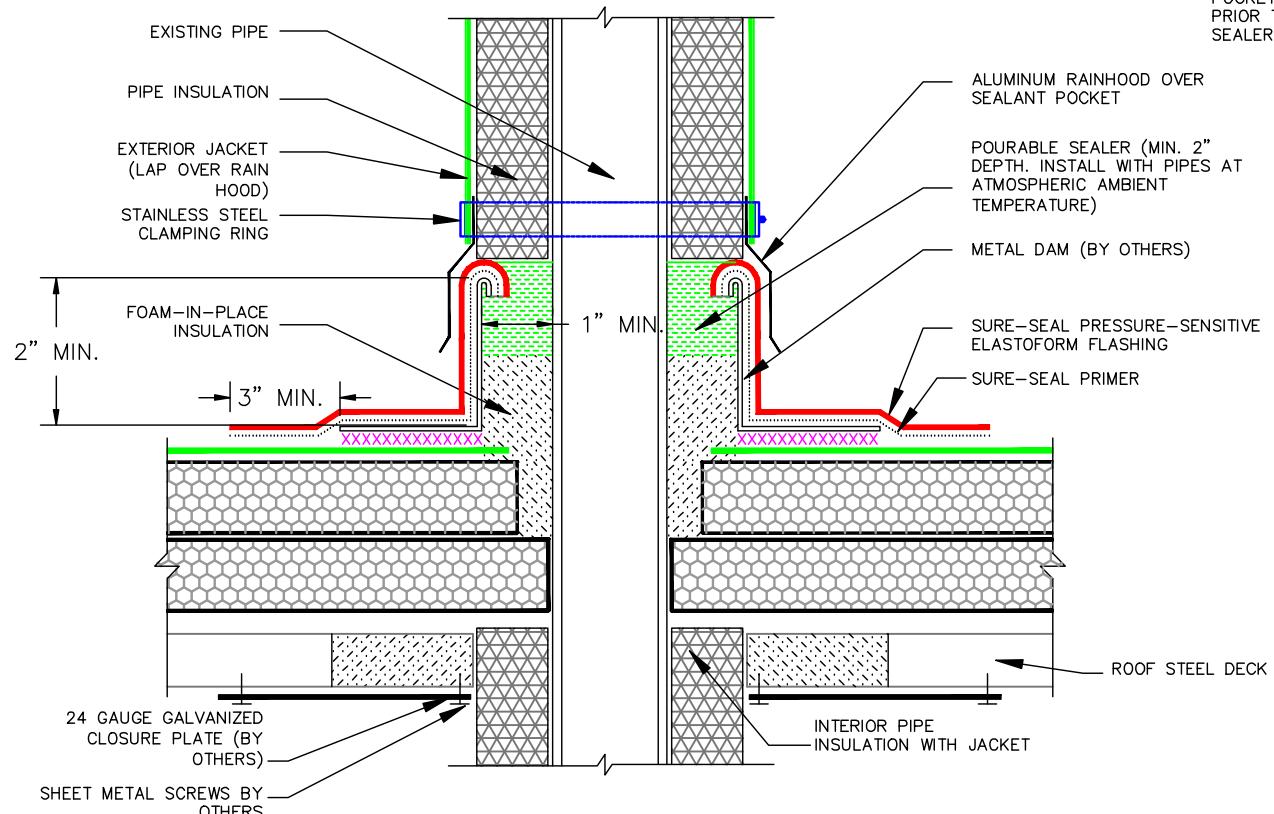
COLD STORAGE DETAILS

CS | 7.1.1



NOTES:

1. ENSURE AIR INFILTRATION FROM OUTSIDE IS COMPLETELY RESTRICTED.
2. PENETRATIONS, MEMBRANE, FLASHING AND METAL (INSIDE POCKET) MUST BE PRIMED PRIOR TO APPLYING POURABLE SEALER.



XXXXXX	SURE-SEAL WATER CUT-OFF MASTIC
[Hatched Pattern]	FOAM-IN-PLACE INSULATION

DETAIL PROVIDED COURTESY OF
GROUP4 MATERIALS, INC.
BROOKFIELD, WISCONSIN

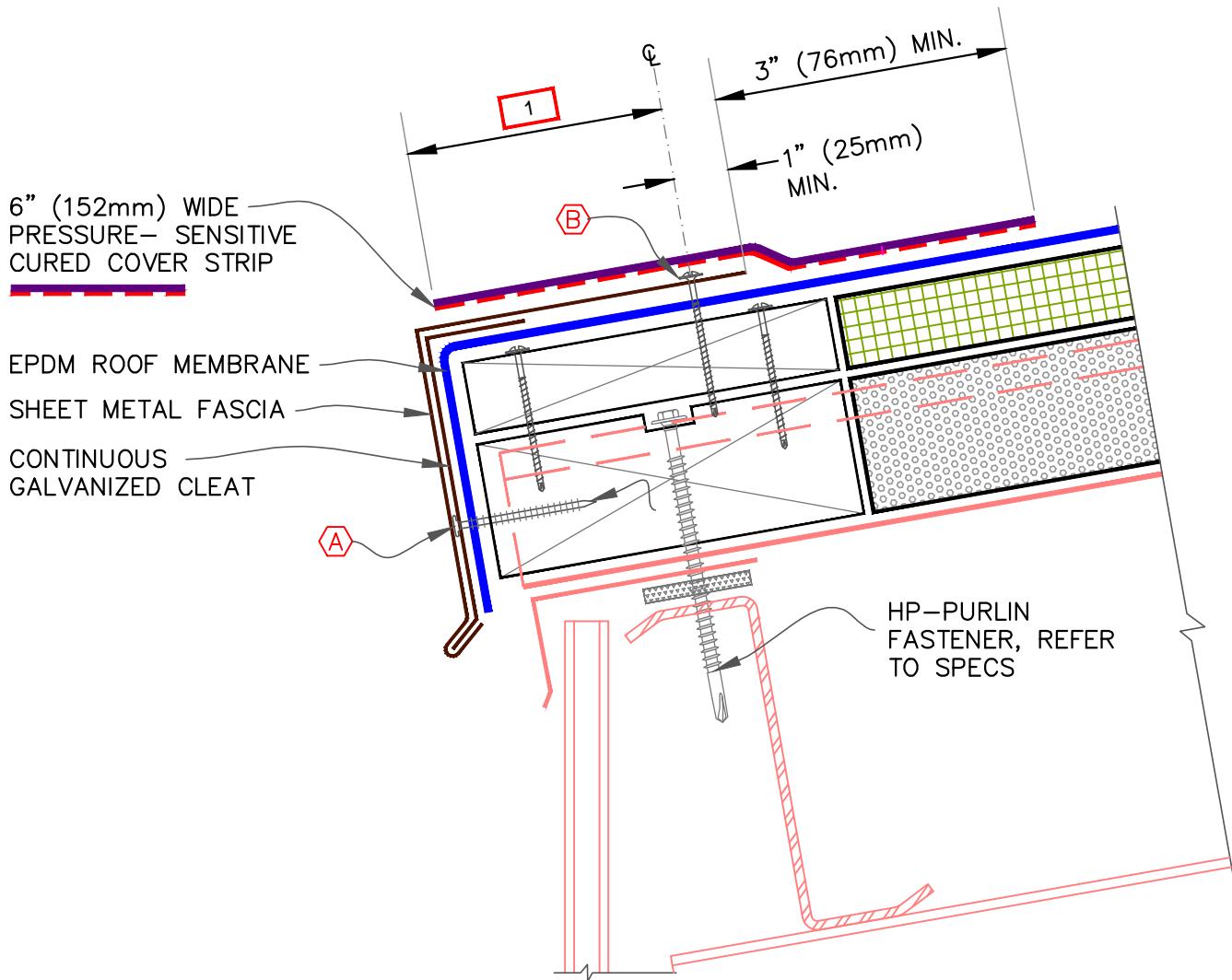


COLD STORAGE ENVELOPE INSULATED PIPE(S): POURABLE SEALER POCKET

© 2007 CARLISLE SYNTAC INCORPORATED

COLD STORAGE DETAILS

CS | 7.2.1



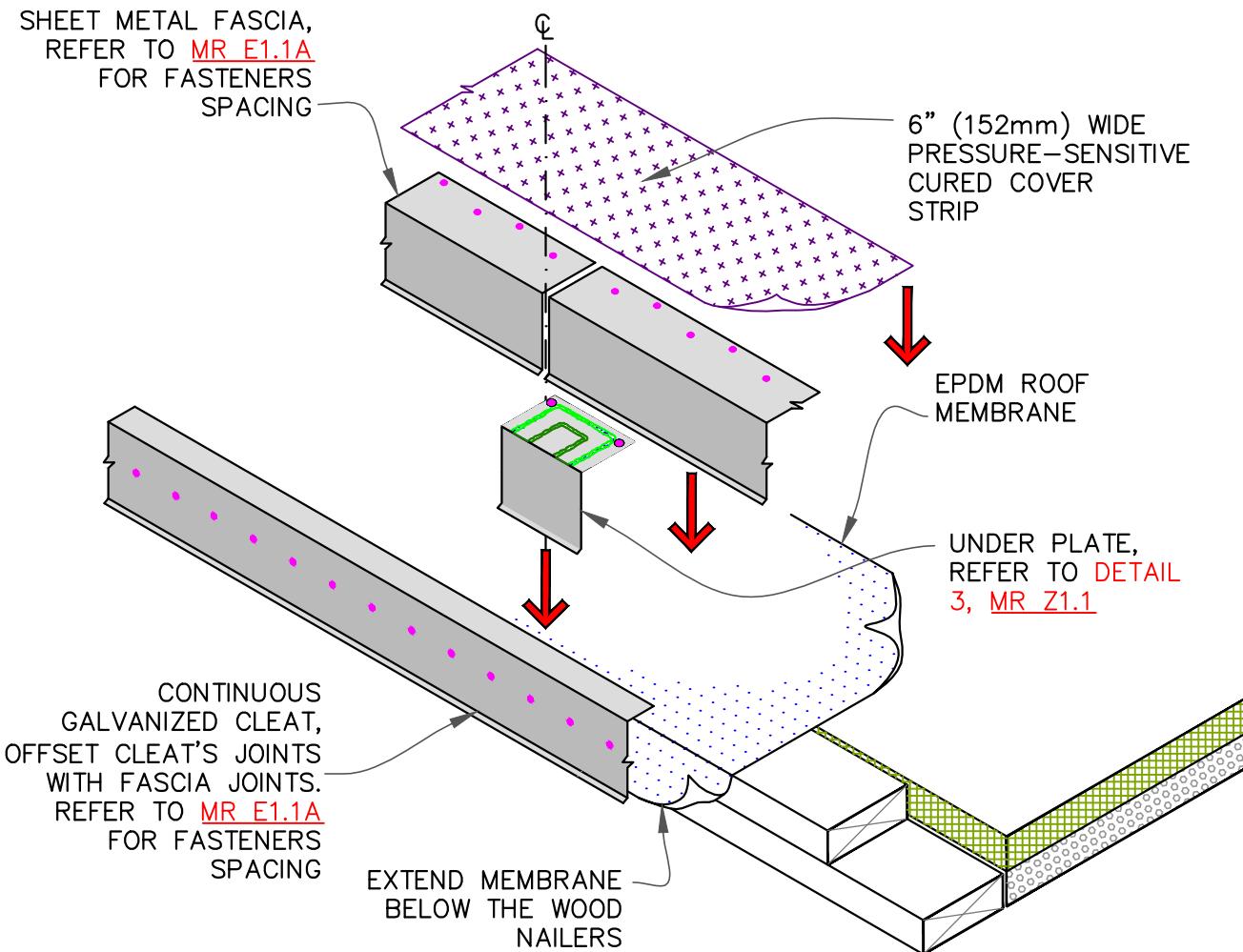
NOTE:

1. FASCIA HORIZONTAL FLANGE MUST BE TOTALLY COVERED WITH CURED EPDM FLASHING, MINIMUM 2" (51mm) BEYOND THE FASTENER HEAD.

Ⓐ 1-1/2" (38mm) RING SHANK NAILS @ 6" (152mm) O.C. MAXIMUM

Ⓑ HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm)
O.C. & STAGGERED 3/4" (19mm) O.C.

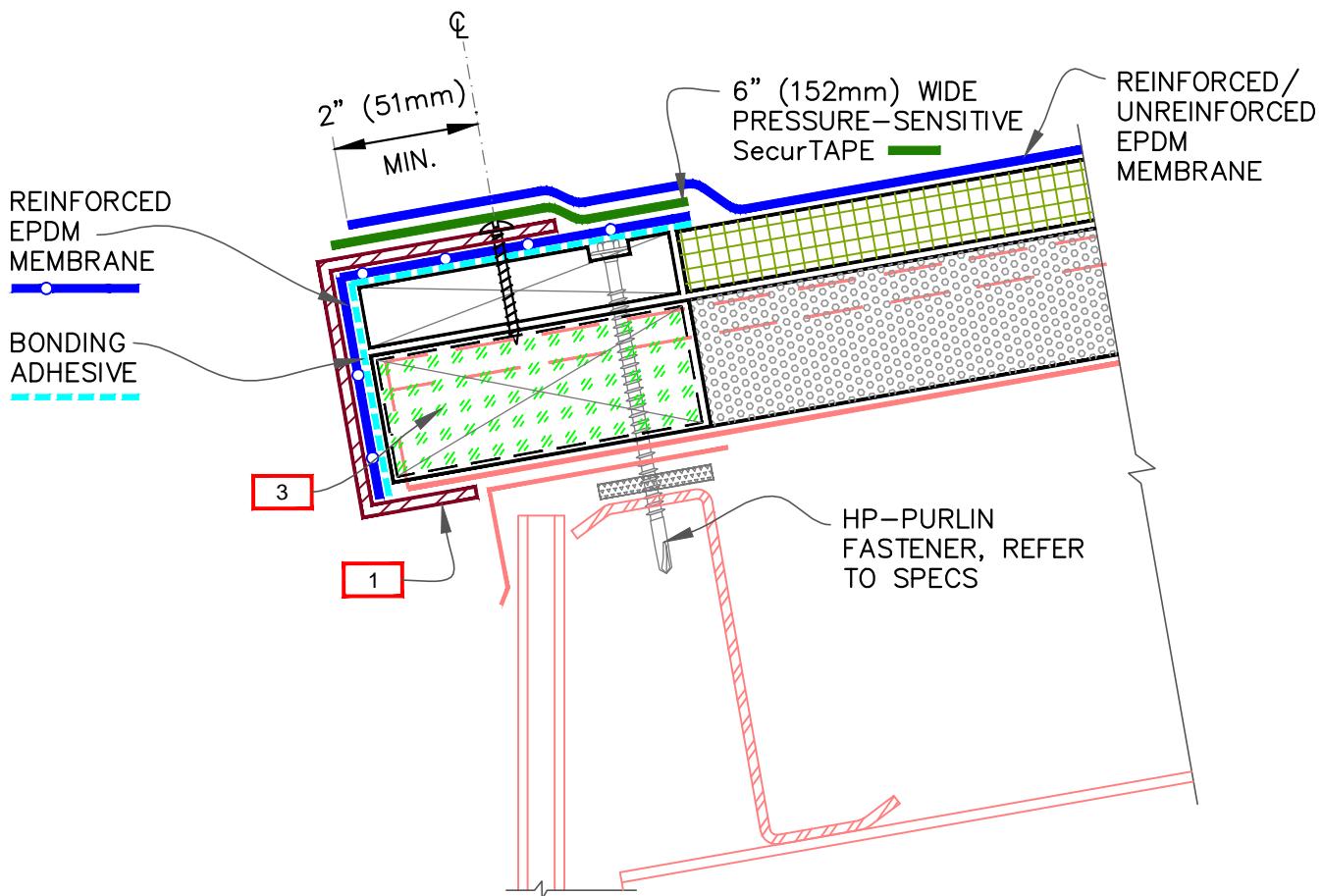
EAVE / RAKE EDGE		SHEET NO.	
HIGH DENSITY RECOVER BOARD	ROOF MEMBRANE	MR E1.1A	
IN-FILL INSULATION	WOOD NAILER (BY OTHERS)	PAGE 1 OF 2	
(Ⓐ) 0	SEE DRAWING NOTE(S)		



NOTE:

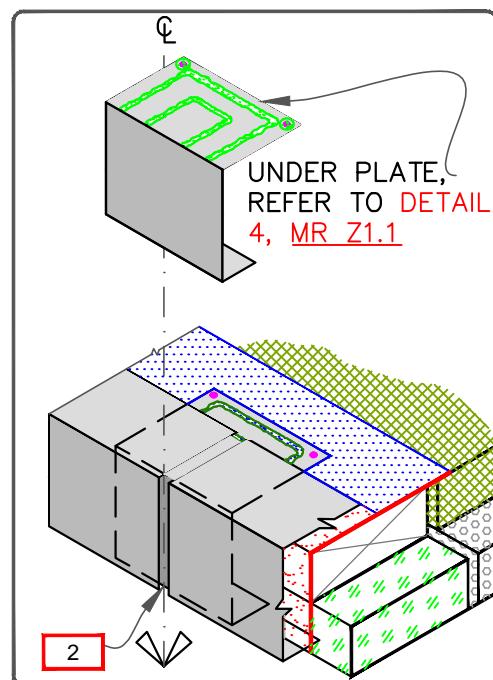
REFER TO [MR Z1.1 & MR Z1.2](#) AT THE
END OF THIS SECTION.

EAVE / RAKE EDGE				SHEET NO.
	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE	
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)	
	(A) 0	• SEE DRAWING NOTE(S)		
			MR E1.1B	PAGE 2 OF 2



NOTES:

1. 18-GAUGE, C-CHANNEL PRE-PUNCHED AND CUSTOM FORMED TO FIT SPECIFIED PROJECT REQUIREMENTS. SECURED TO WOOD BLOCKING, FASTEN WITH HP-FASTENERS @ 12" (305mm) O.C.
2. ALLOW 1/4" (6mm) MIN. TO 1/2" (13mm) MAX. SPACING BETWEEN CONSECUTIVE LENGTH OF C-CHANNELS. AT CORNERS, CUT C-CHANNEL TO PROVIDE MITERED JOINTS.
3. INSULATION WITH GREATER COMPRESSIVE STRENGTH OR WOOD BLOCKING.
4. REFER TO MR Z1.1 & MR Z1.2 AT THE END OF THIS SECTION.



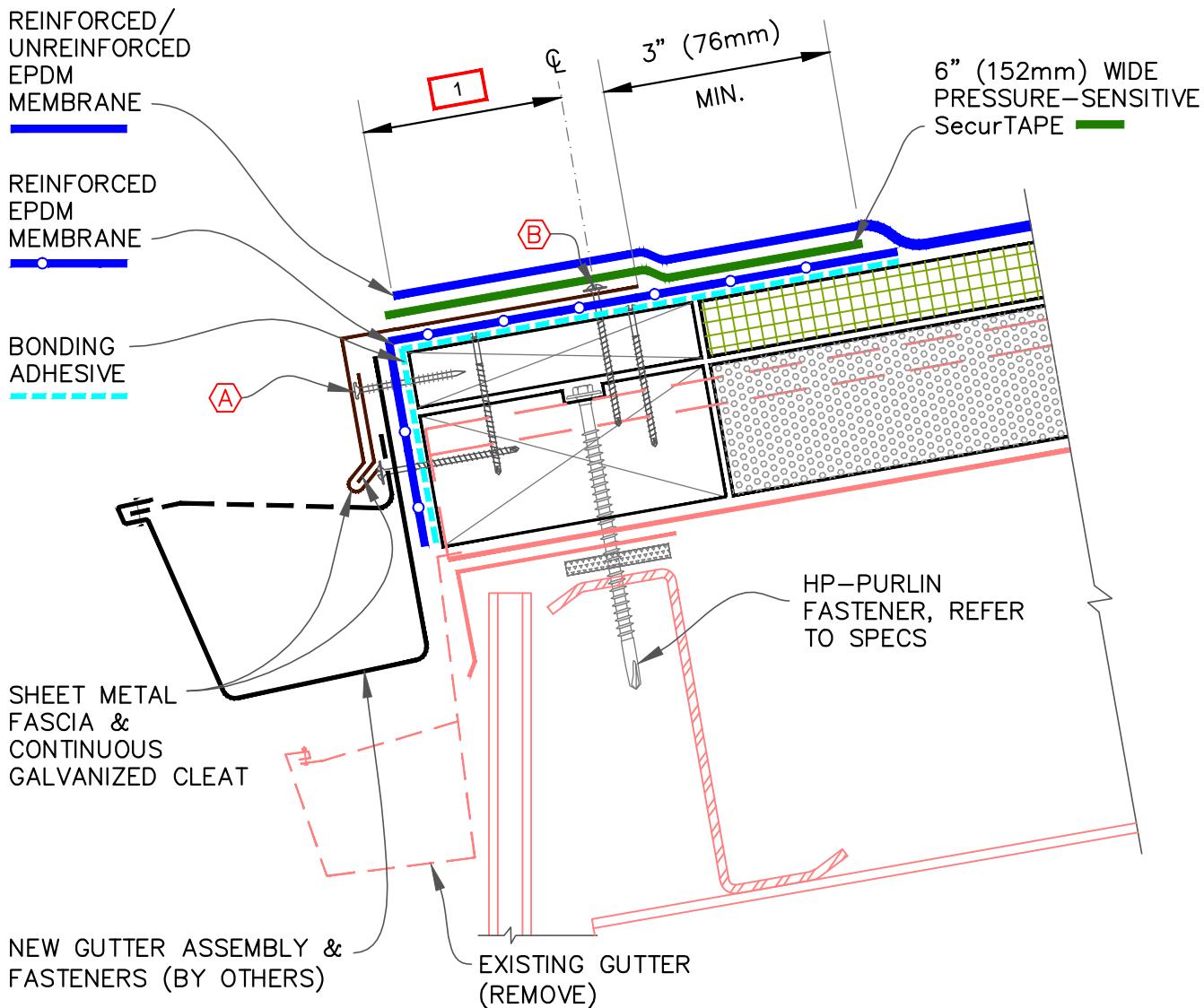
EAVE / RAKE EDGE - HEAVY GAUGE FASCIA

	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

	• ROOF MEMBRANE
	• WOOD NAILER (BY OTHERS)
(A) 0	• SEE DRAWING NOTE(S)

SHEET NO.

MR | E1.2



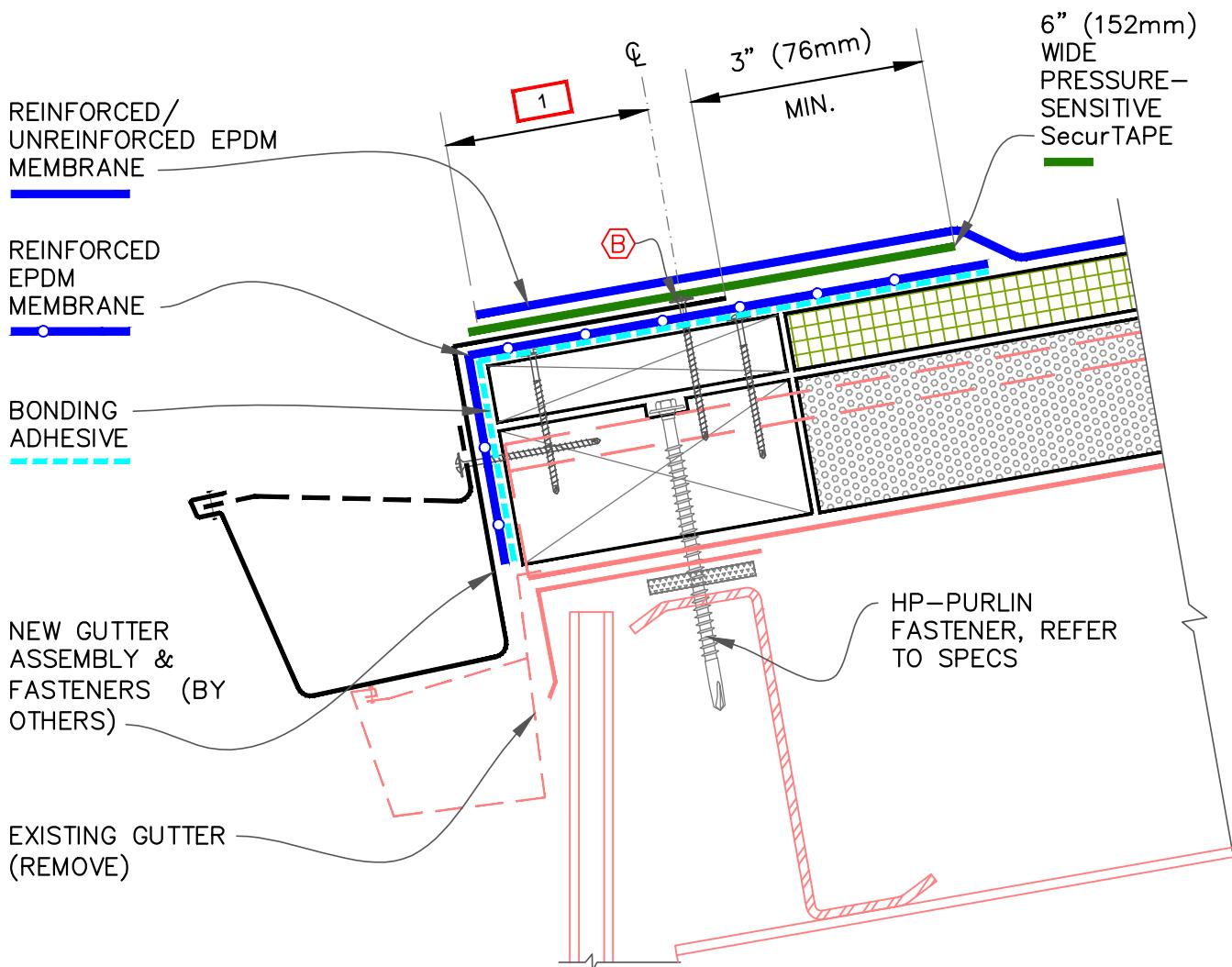
NOTES:

1. FASCIA HORIZONTAL FLANGE MUST BE TOTALLY COVERED, MINIMUM 2" (51mm) BEYOND THE NAIL.
2. REFER TO [MR Z1.1 & MR Z1.2](#) AT THE END OF THIS SECTION.

Ⓐ 1-1/2" (38mm) RING SHANK NAILS @ 6" (152mm) O.C. MAXIMUM

Ⓑ HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm)
O.C. & STAGGERED 3/4" (19mm) O.C.

GUTTER WITH FASCIA		SHEET NO.	
HIGH DENSITY RECOVER BOARD	ROOF MEMBRANE		
IN-FILL INSULATION	WOOD NAILER (BY OTHERS)	(A) 0	SEE DRAWING NOTE(S)

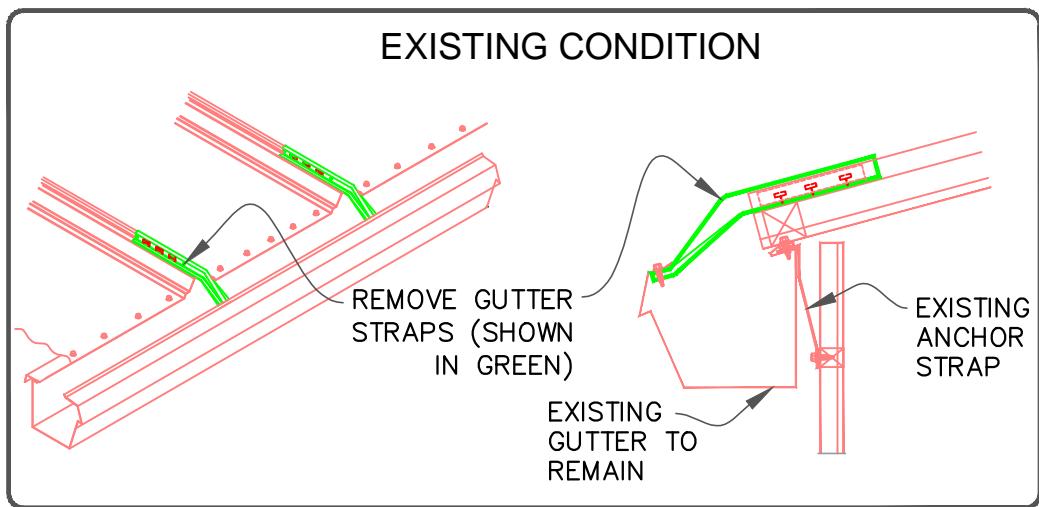


NOTES:

1. FASCIA HORIZONTAL FLANGE MUST BE TOTALLY COVERED, MINIMUM 2" (51mm) BEYOND THE FASTENER HEAD.
2. REFER TO MR Z1.1 & MR Z1.2 AT THE END OF THIS SECTION.

(B) HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm)
O.C. & STAGGERED 3/4" (19mm) O.C.

GUTTER WITHOUT FASCIA		SHEET NO.	
	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)
	• SEE DRAWING NOTE(S)		• SEE DRAWING NOTE(S)



UNIVERSAL SINGLE PLY SEALANT

SURE-SEAL TERMINATION BAR OR RETAINING BAR TO AVOID OVER SPILLING OF WATER OUTSIDE THE GUTTER, FASTENED 6" (152mm) O.C. REFER TO CARLISLE DETAIL B-1D.

WATER CUT-OFF MASTIC XXX

BONDING ADHESIVE

EPDM ROOF MEMBRANE

NEW FASTENERS & STRAPS (BY OTHERS)

2" (51mm) MIN.

HP-PURLIN FASTENER, REFER TO SPECS

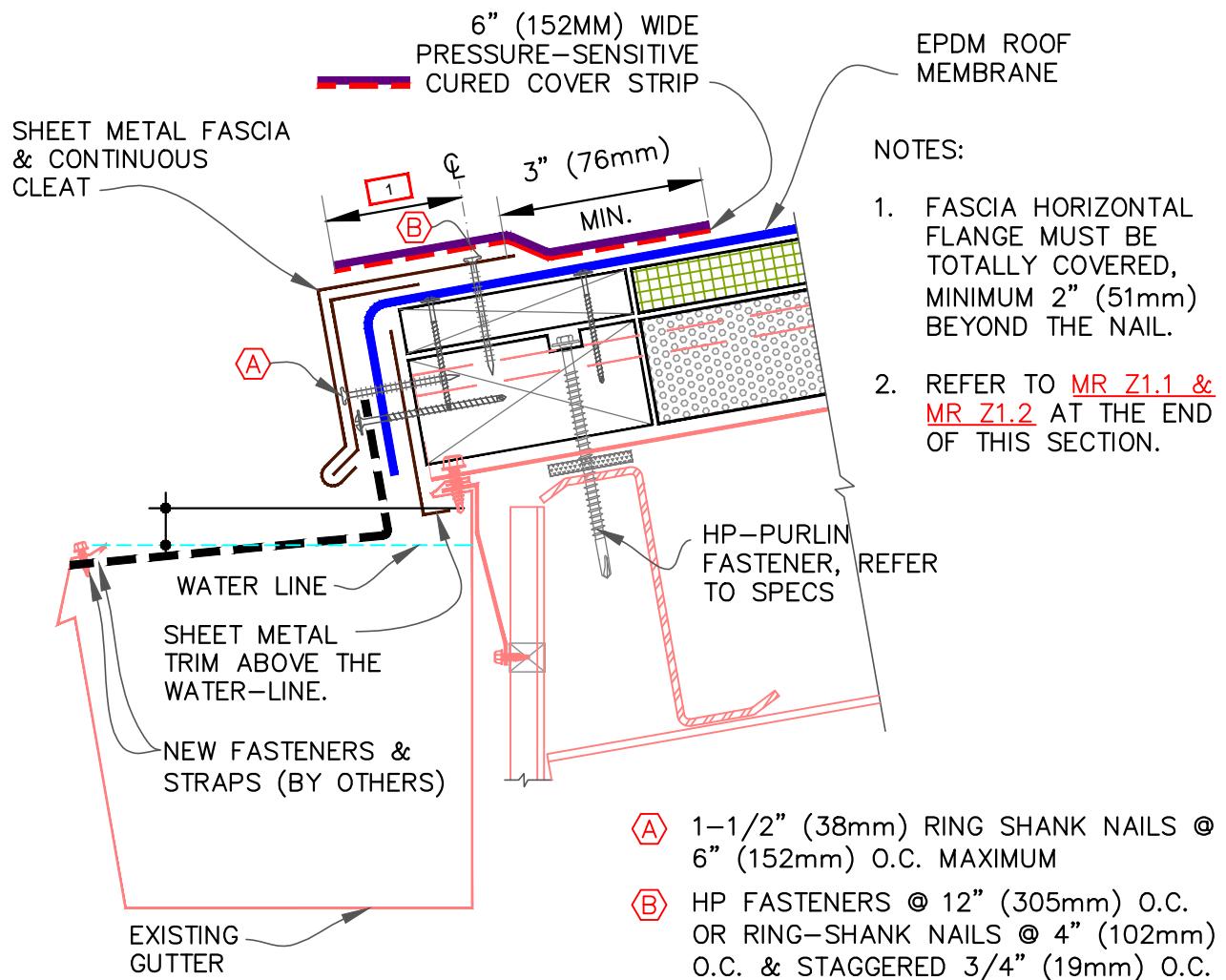
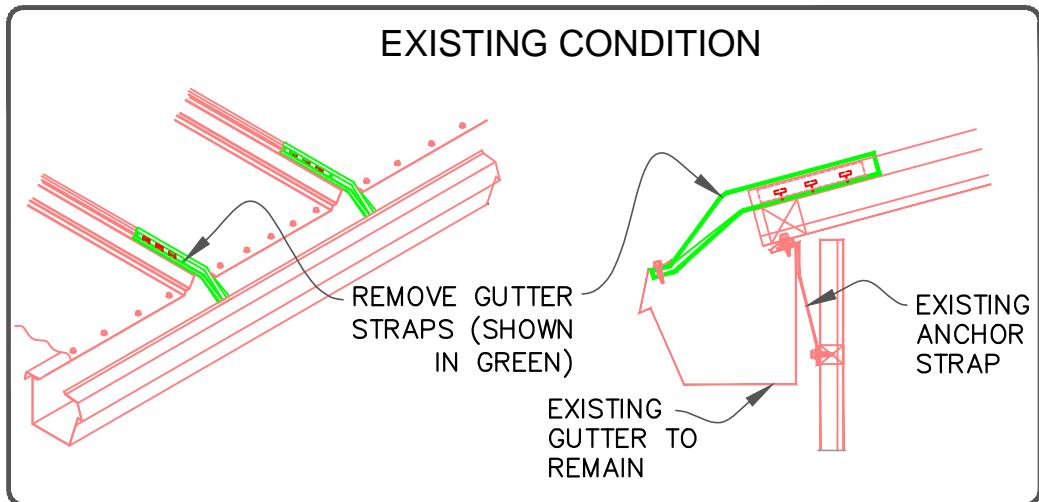
EXISTING GUTTER

INJECT SEALANT TO SEAL THE OPENINGS & PROVIDE CUSHION AROUND FASTENER & OTHER PROTRUSIONS.

NOTE:

REFER TO MR Z1.1 & MR Z1.2 AT THE END OF THIS SECTION.

GUTTER WITH STRAPS ANCHORED INTO STANDING SEAMS		SHEET NO.	
	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)
	0	• SEE DRAWING NOTE(S)	



GUTTER WITH STRAPS ANCHORED INTO STANDING SEAMS

	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)
(A)	0	(A)	• SEE DRAWING NOTE(S)

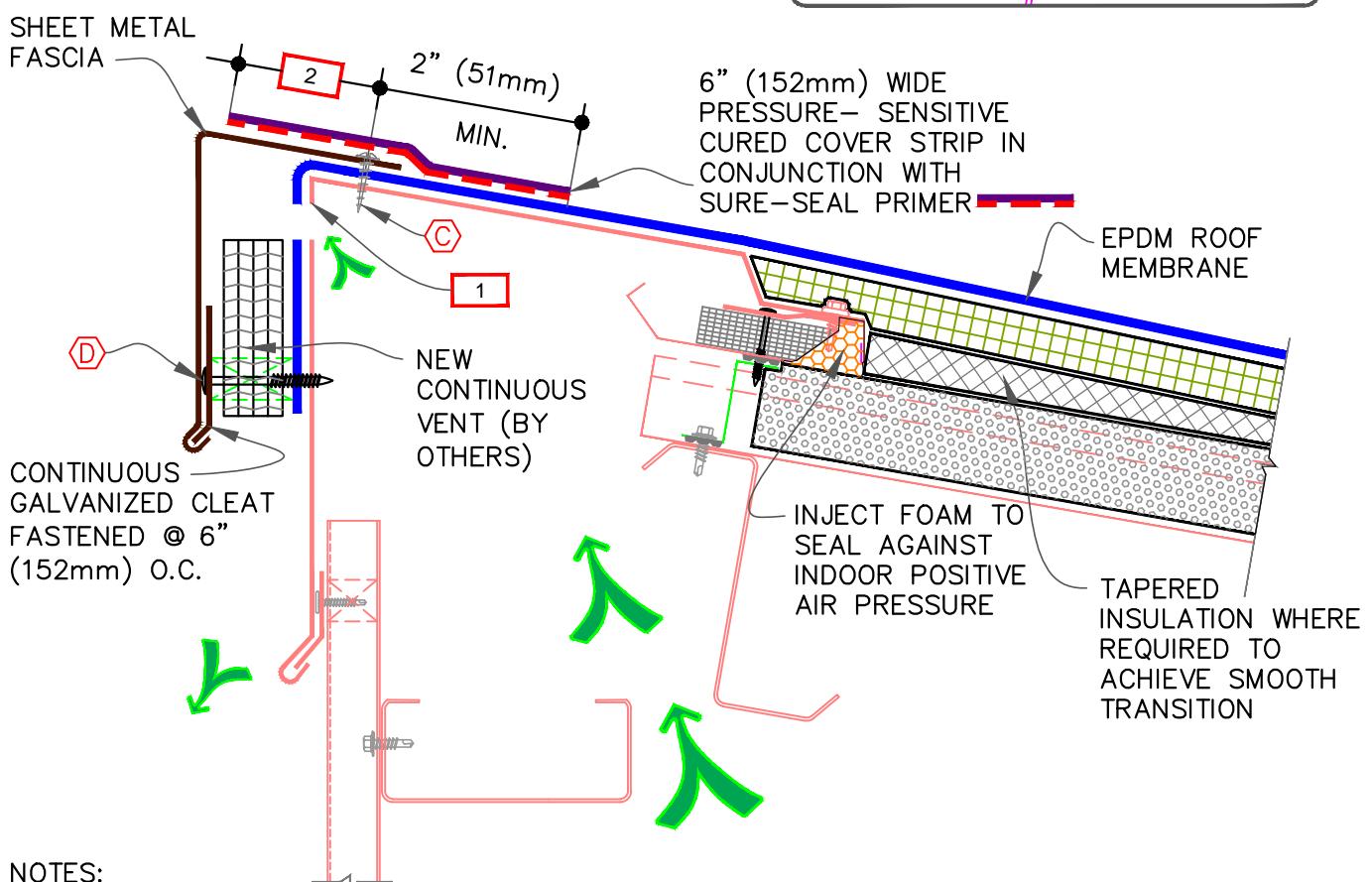
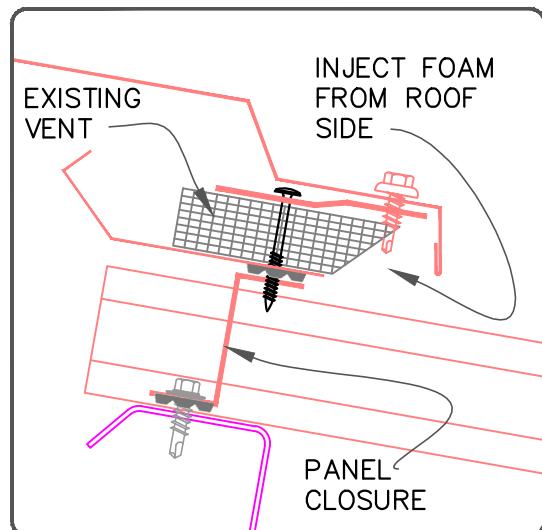
SHEET NO.

MR | E1.6

METAL RETROFIT

EPDM

- ⑥ C SHEET METAL SCREWS @ 6" O.C., MAX., EXPOSED 3/4" (19mm) MIN. BEYOND EXISTING SHEET METAL SUBSTRATE
- ⑦ D FASTENERS TO MATCH EXISTING @ 6" O.C., MAX., EXPOSED 3/4" (19mm) MIN. BEYOND EXISTING SUBSTRATE



NOTES:

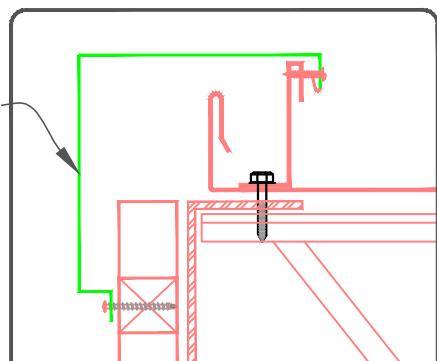
- CUT HOLES IN EXISTING HIGH EAVE TRIM AT TOP TO REDIRECT VENTING. DESIGNER TO CALCULATE THE SIZES, FREQUENCY OF HOLES WITHOUT WEAKENING THE SHEET METAL.
- DECK FLANGE MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE CURED COVER STRIP, MINIMUM 2" (51mm) COVERAGE PAST FASTENER HEAD.

HIGH-END VENTED ROOF EDGE		SHEET NO.	
● HIGH DENSITY RECOVER BOARD	● ROOF MEMBRANE		
● IN-FILL INSULATION	● WOOD NAILER (BY OTHERS)		
Ⓐ 0	● SEE DRAWING NOTE(S)	MR E1.7	

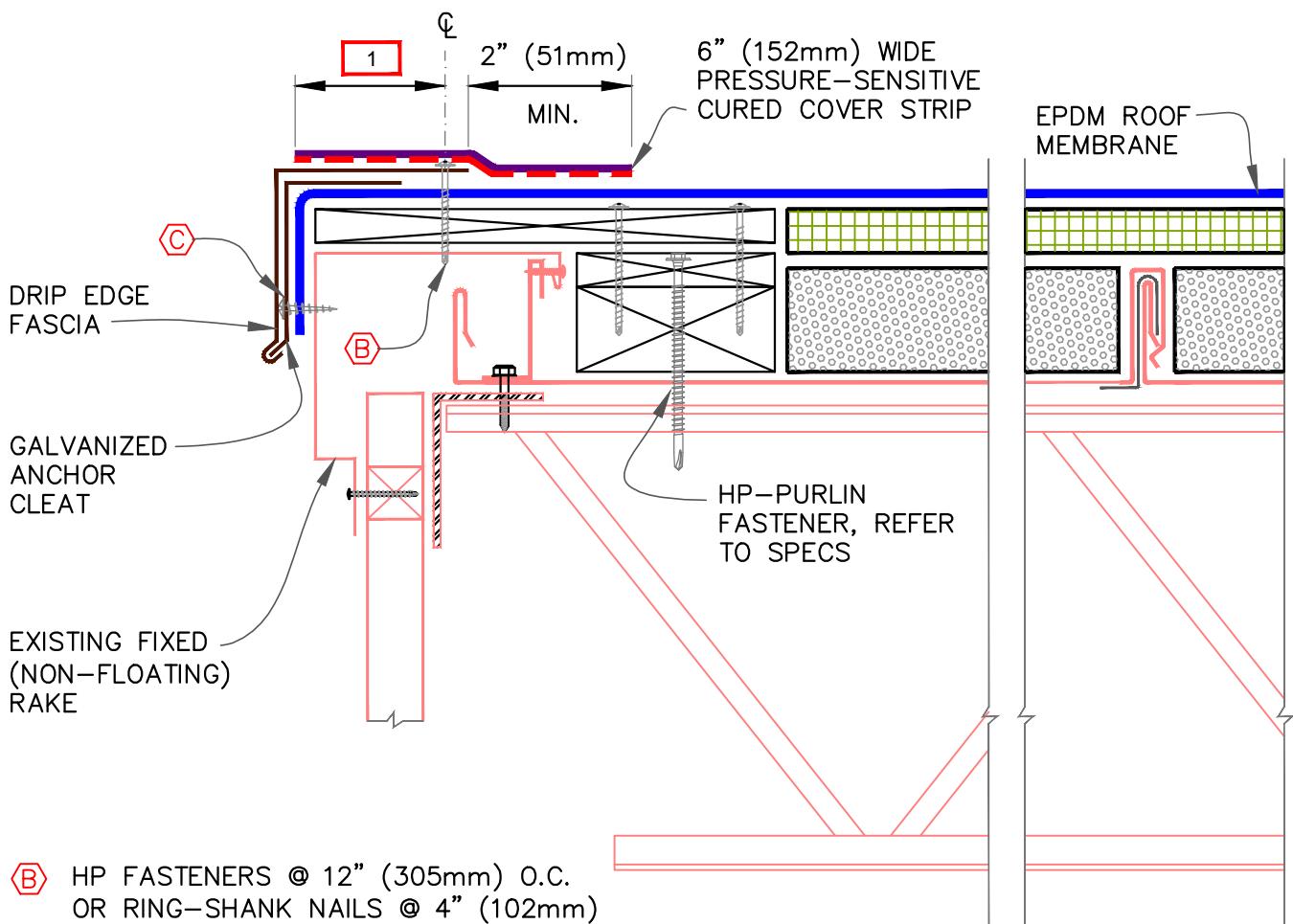
NOTES:

1. FASCIA HORIZONTAL FLANGE MUST BE TOTALLY COVERED MINIMUM 2" (51mm) BEYOND THE NAIL.
2. REFER TO [MR Z1.1 & MR Z1.2](#) AT THE END OF THIS SECTION.

EXISTING FIXED
(NON-FLOATING)
RAKE TO REMAIN



EXISTING FIXED RAKE EDGE



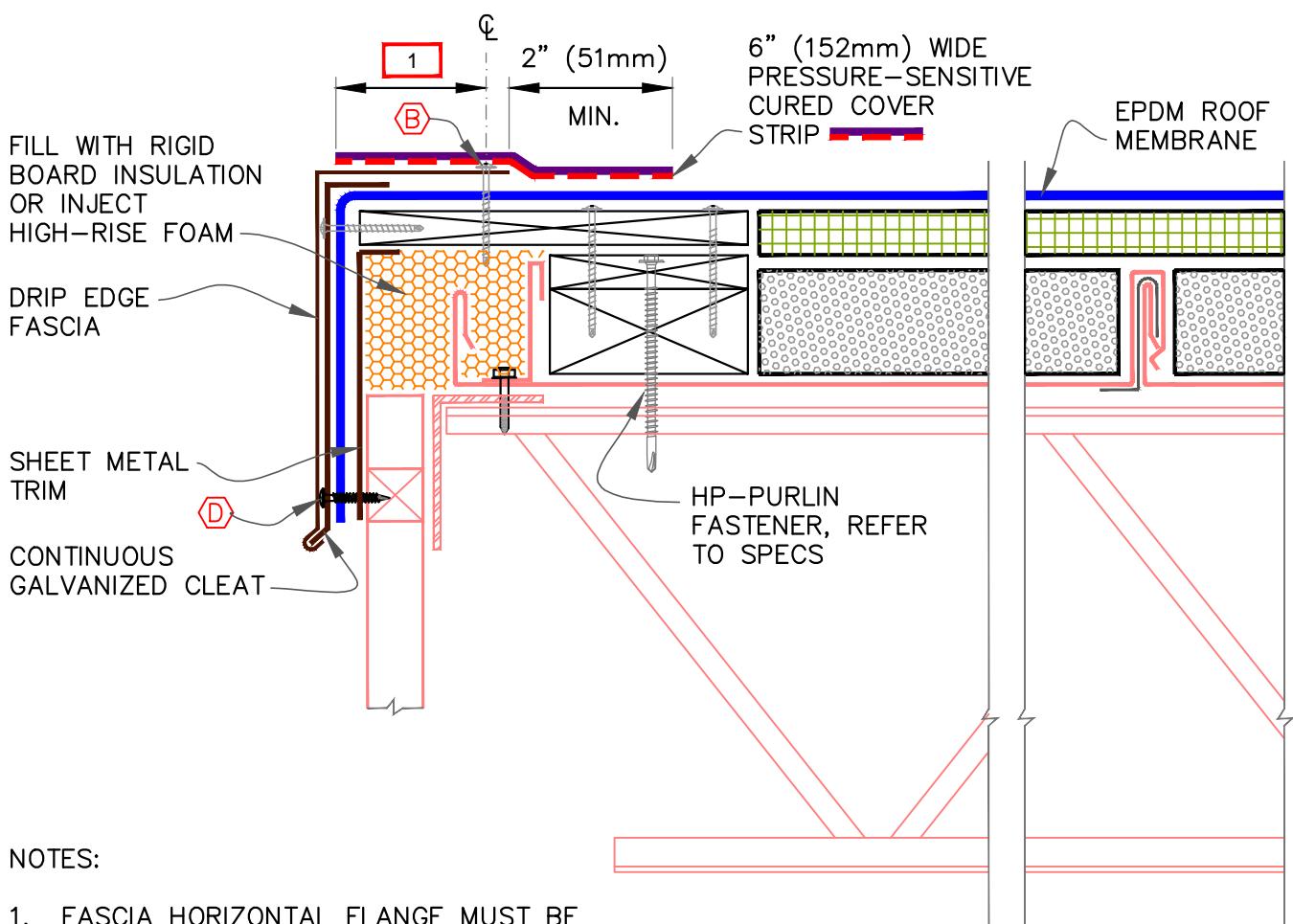
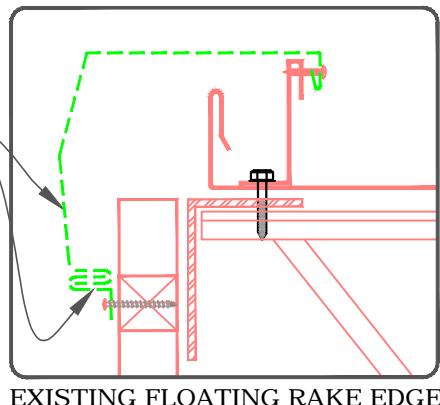
② HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm)
O.C. & STAGGERED 3/4" (19mm) O.C.

③ SHEET METAL SCREWS @ 6" O.C.,
MAX., EXPOSED 3/4" (19mm) MIN.
BEYOND EXISTING SHEET METAL
SUBSTRATE

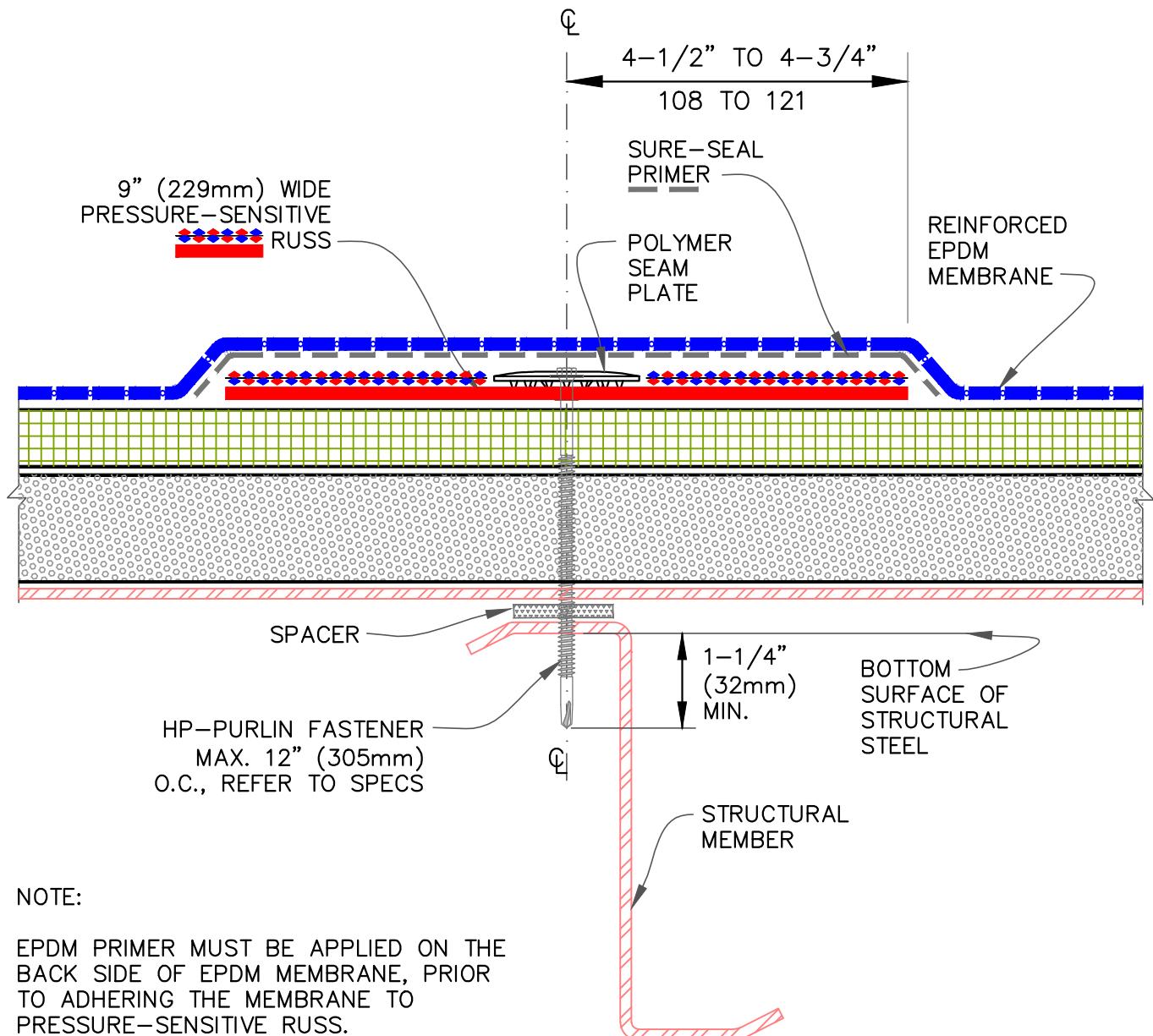
RAKE EDGE		SHEET NO.	
HIGH DENSITY RECOVER BOARD	● ROOF MEMBRANE	WOOD NAILER (BY OTHERS)	MR E1.8
IN-FILL INSULATION	● SEE DRAWING NOTE(S)	(A) 0	

B HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm) EXISTING FLOATING
O.C. & STAGGERED 3/4" (19mm) O.C. RAKE AND CLIP
REMOVED

D FASTENERS TO MATCH EXISTING @ 6"
O.C., MAX., EXPOSED 3/4" (19mm)
MIN. BEYOND EXISTING SUBSTRATE



RAKE EDGE		SHEET NO.	
	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)
	0		• SEE DRAWING NOTE(S)

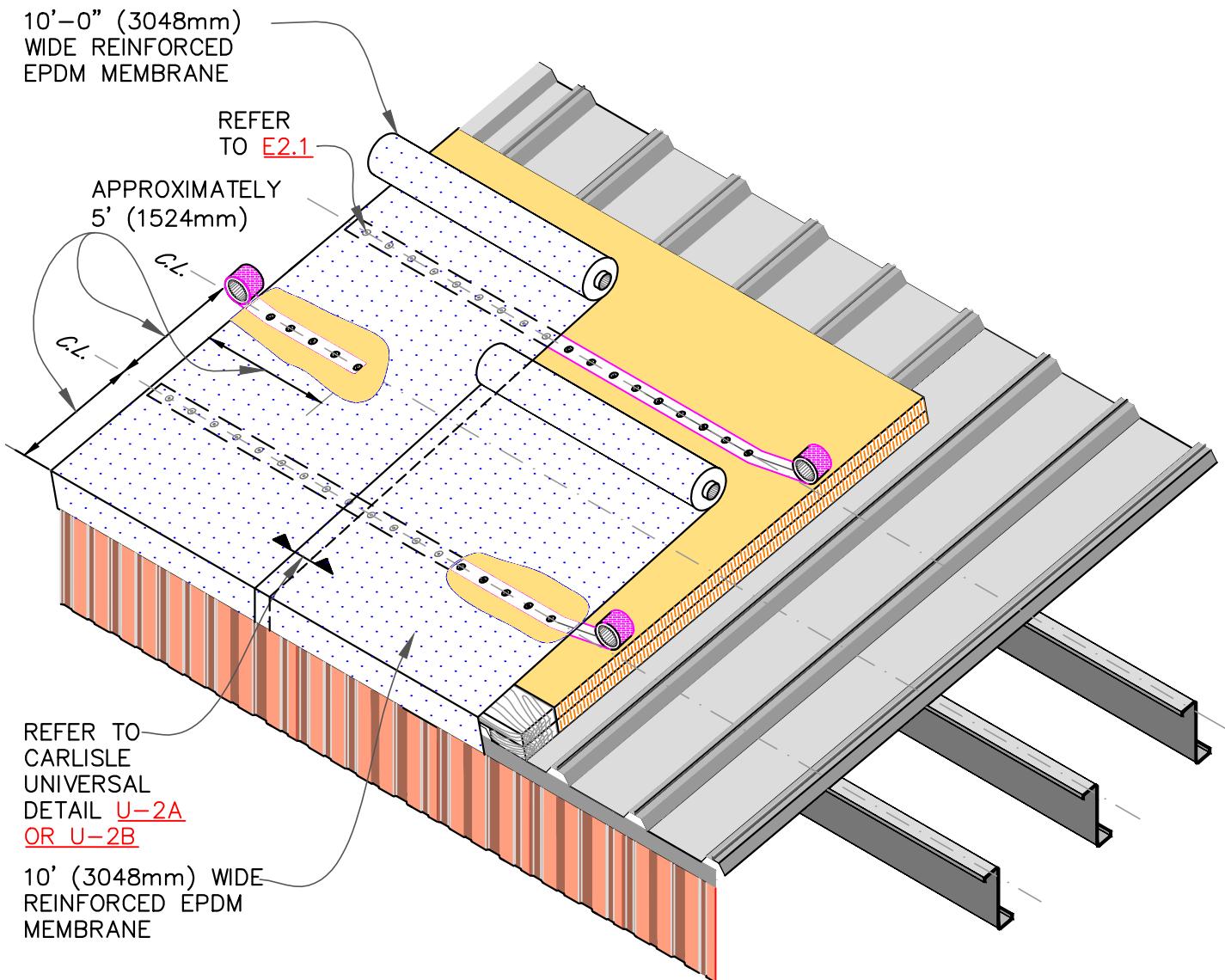

MEMBRANE ATTACHMENT WITH R.U.S.S

	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

	• ROOF MEMBRANE
	• WOOD NAILER (BY OTHERS)
(A) 0	• SEE DRAWING NOTE(S)

SHEET NO.

MR | E2.1



NOTE:

MEMBRANE SHEETS MAY BE INSTALLED
PERPENDICULAR TO SLOPE.

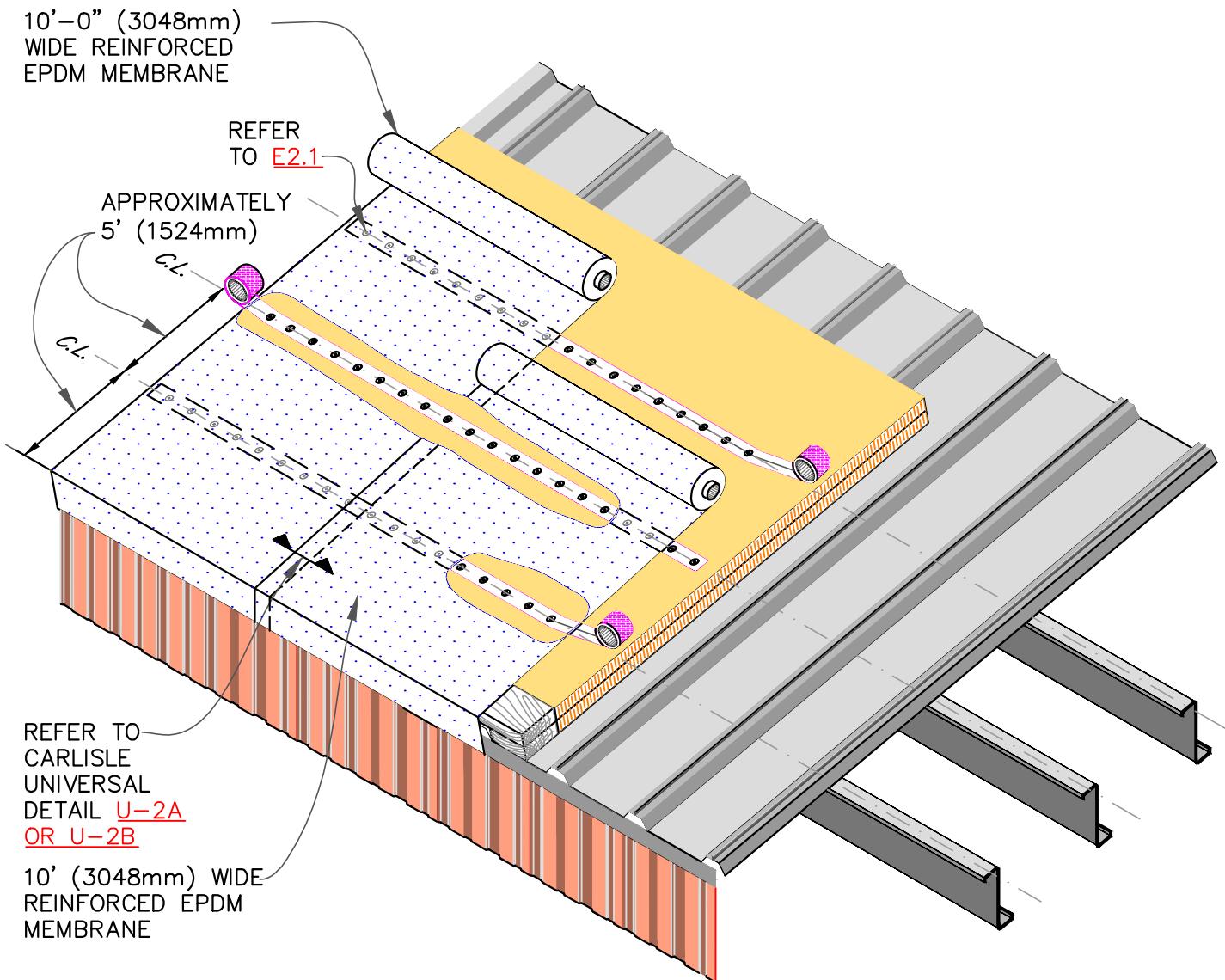
MEMBRANE ATTACHMENT - WIND UP TO 100 MPH WIND ZONE

	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

	• ROOF MEMBRANE
	• WOOD NAILER (BY OTHERS)
(A) 0	• SEE DRAWING NOTE(S)

SHEET NO.

MR | E2.2



NOTE:

MEMBRANE SHEETS MAY BE INSTALLED
PERPENDICULAR TO SLOPE.

MEMBRANE ATTACHMENT - WIND UP TO 101-120 MPH WIND ZONE

• HIGH DENSITY RECOVER BOARD

• IN-FILL INSULATION

• ROOF MEMBRANE

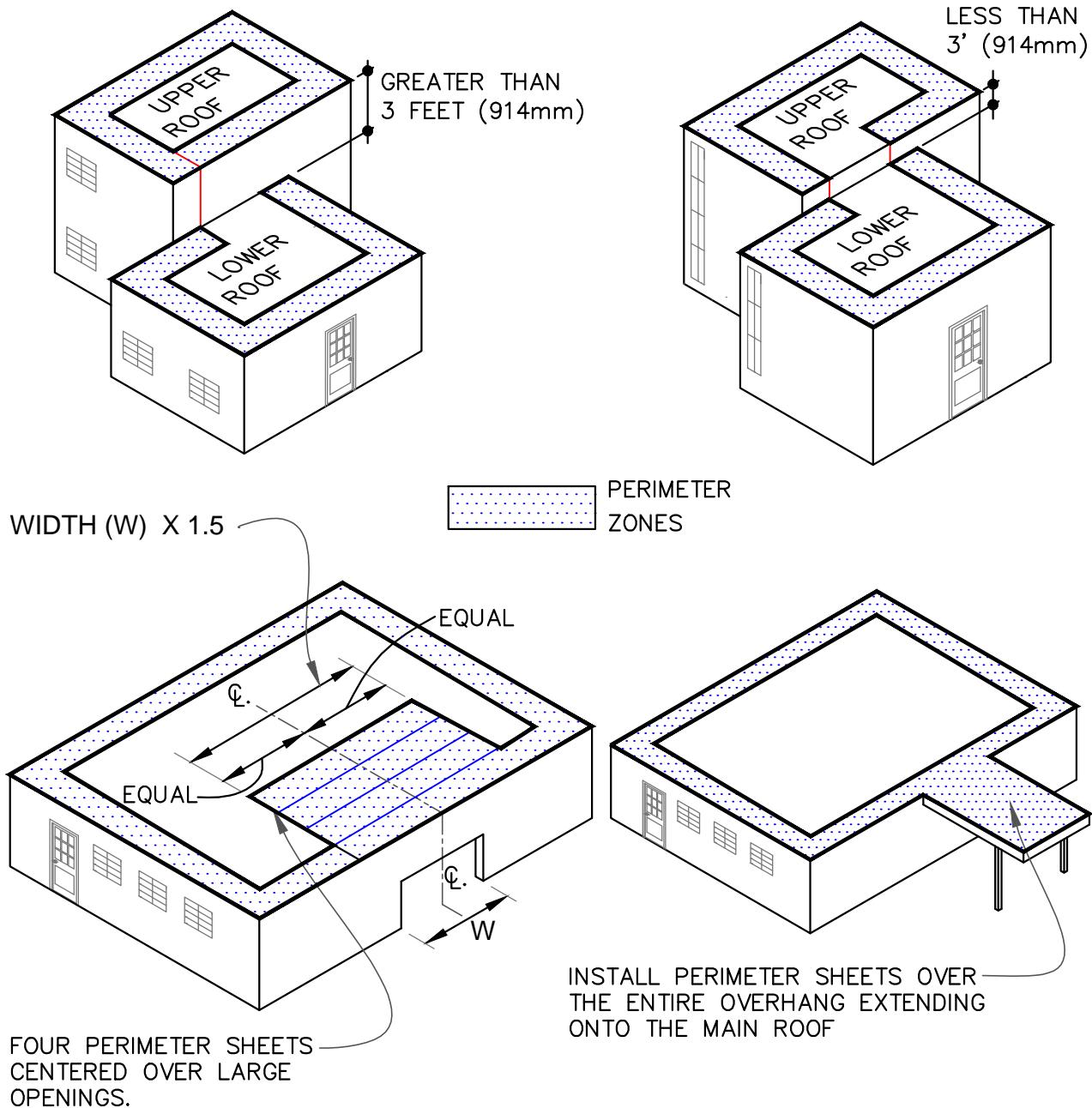
• WOOD NAILER (BY OTHERS)

(A) 0 • SEE DRAWING NOTE(S)

SHEET NO.

MR | E2.3

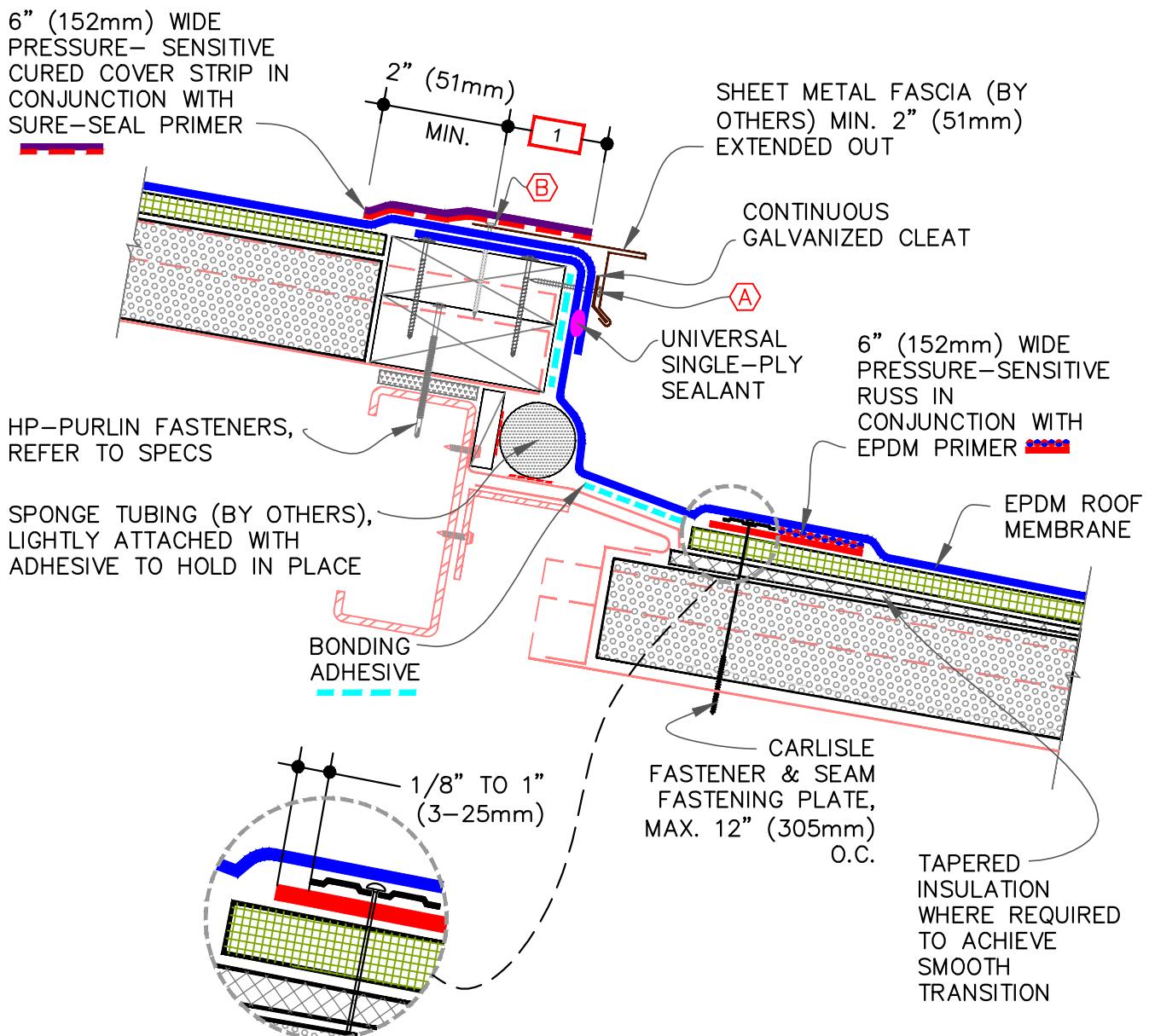
**GUIDELINES FOR ROOF PERIMETER ZONES FOR
MECHANICALLY FASTENED ROOF SYSTEM**



ROOF PERIMETER ZONES				SHEET NO.
	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE	
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)	
			• SEE DRAWING NOTE(S)	
(A)	0			MR E2.4

(A) 1-1/2" (38mm) RING SHANK NAILS @
6" (152mm) O.C. MAXIMUM

(B) HP FASTENERS @ 12" (305mm) O.C.
OR RING-SHANK NAILS @ 4" (102mm)
O.C. & STAGGERED 3/4" (19mm) O.C.



NOTE:

1. DECK FLANGE MUST BE TOTALLY COVERED WITH PRESSURE-SENSITIVE CURED COVER STRIP WITH MINIMUM 2" (51mm) COVERAGE PAST FASTENER HEAD.
2. REFER TO [MR Z1.1 & MR Z1.2](#) AT THE END OF THIS SECTION.

EXPANSION JOINT AT STEP DOWN CONDITION

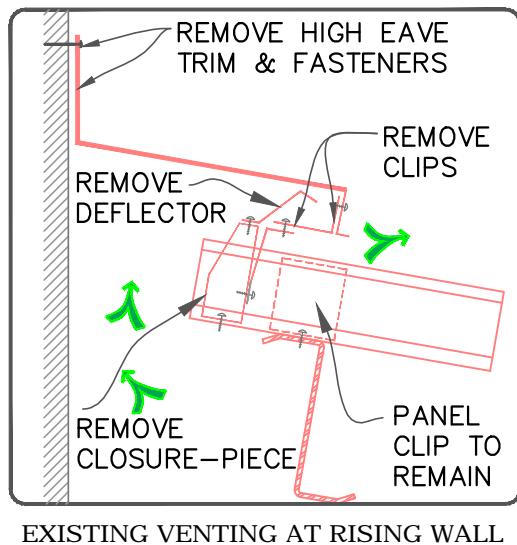
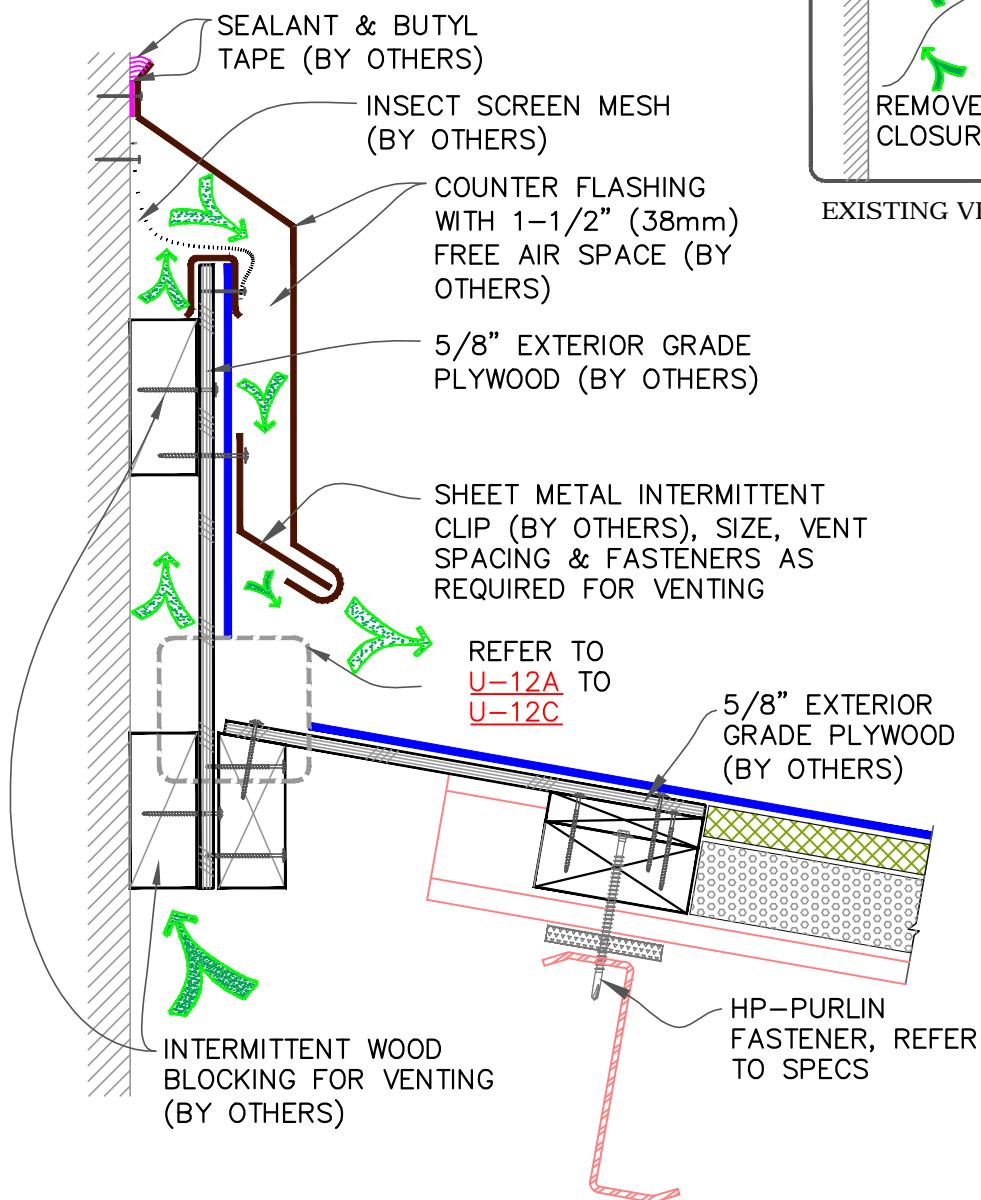
	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

	• WOOD NAILER (BY OTHERS)
(A) 0	• SEE DRAWING NOTE(S)

SHEET NO.

MR | E3.1

CAUTION: CONSULT WITH PROJECT DESIGNER OR STRUCTURAL ENGINEER FOR ADEQUATE SECUREMENT OF PLYWOOD AND REQUIRED VENTILATION.

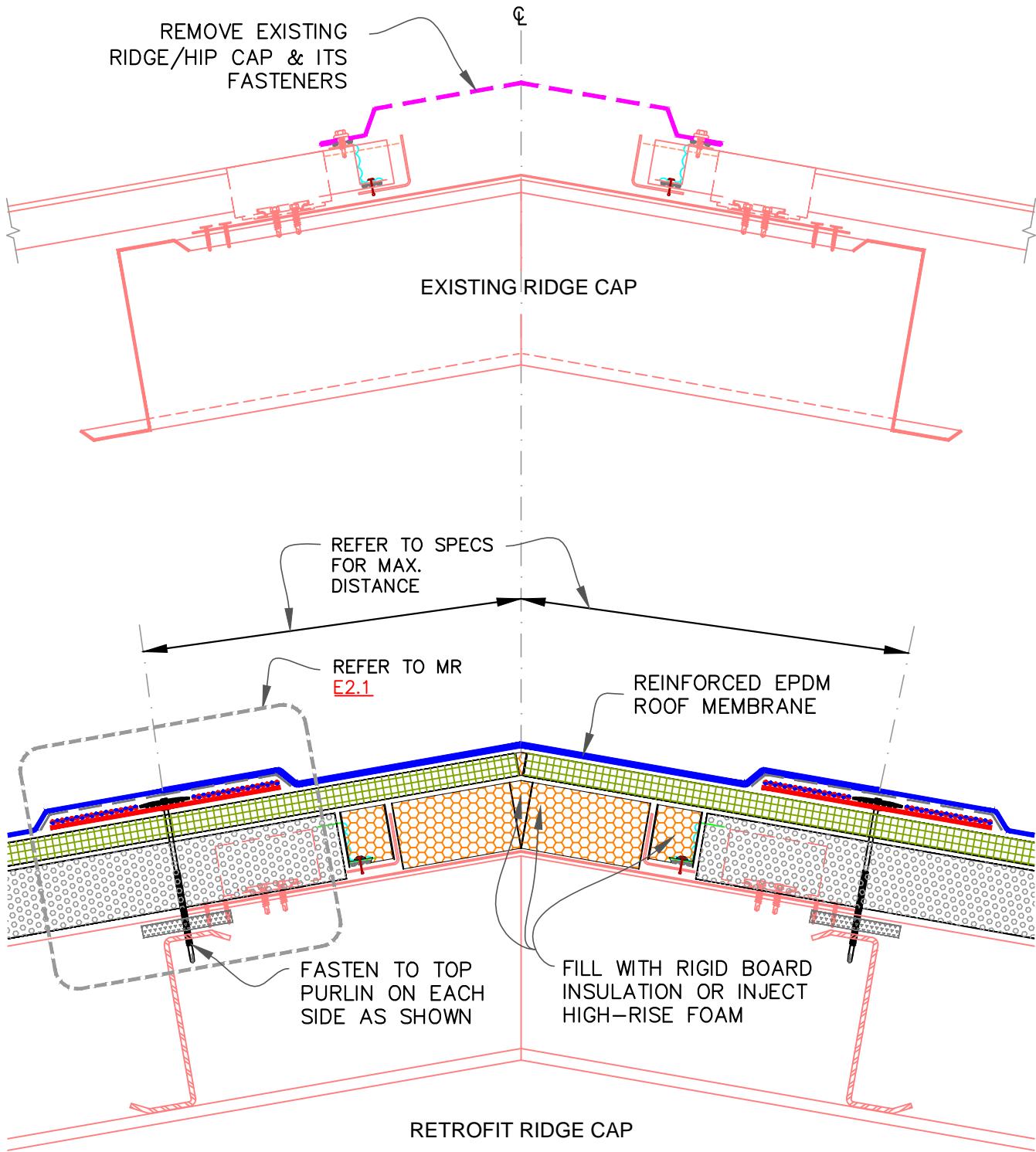


VERTICAL WALL - VENTED BASE DETAIL

	• HIGH DENSITY RECOVER BOARD		• ROOF MEMBRANE
	• IN-FILL INSULATION		• WOOD NAILER (BY OTHERS)
	0		• SEE DRAWING NOTE(S)

SHEET NO.

MR | E12.1

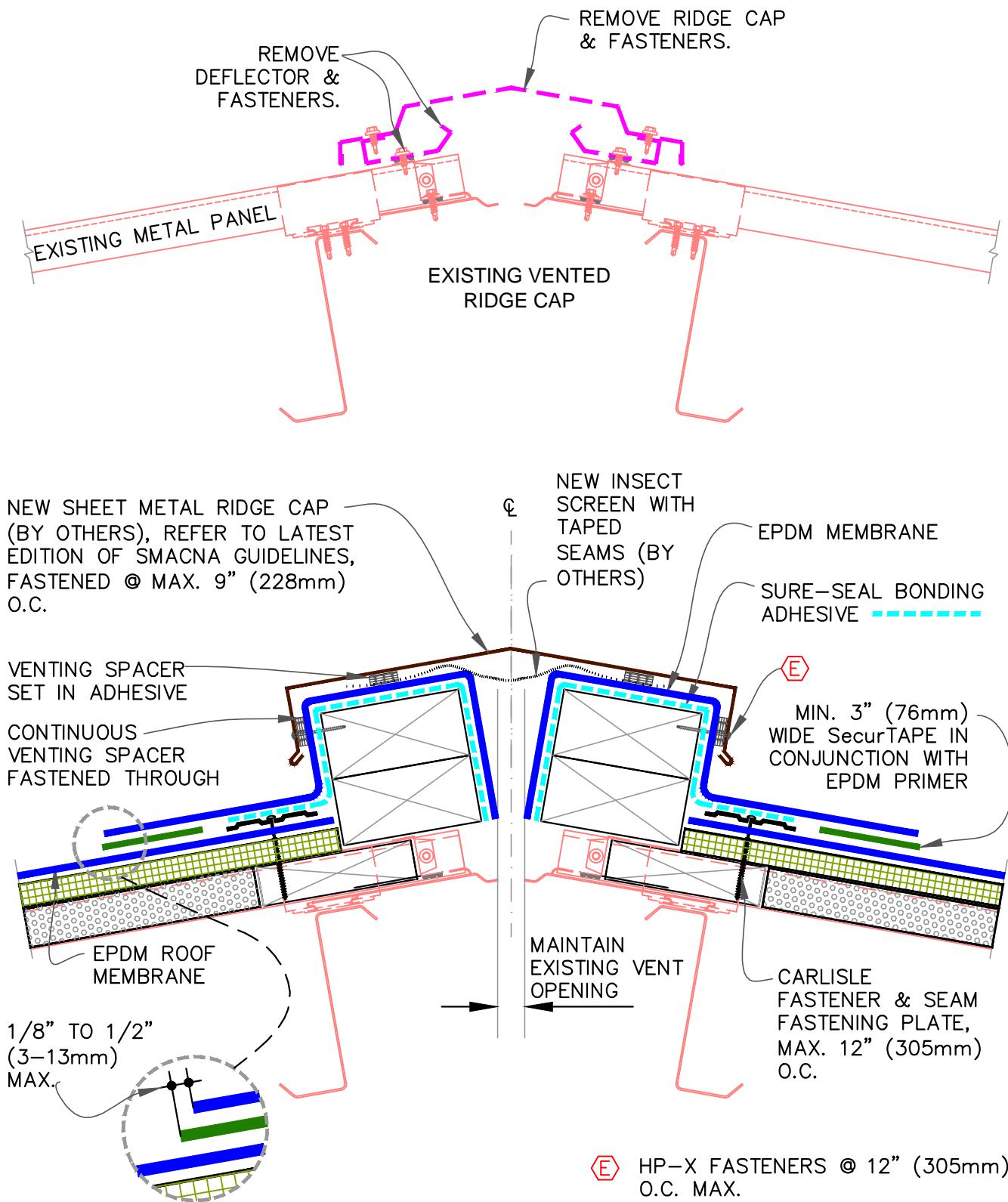

ROOF RIDGE / HIP - NON VENTED

	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

	• WOOD NAILER (BY OTHERS)
	• SEE DRAWING NOTE(S)

SHEET NO.

MR | E22.1



ROOF RIDGE VENTED

	• HIGH DENSITY RECOVER BOARD
	• IN-FILL INSULATION

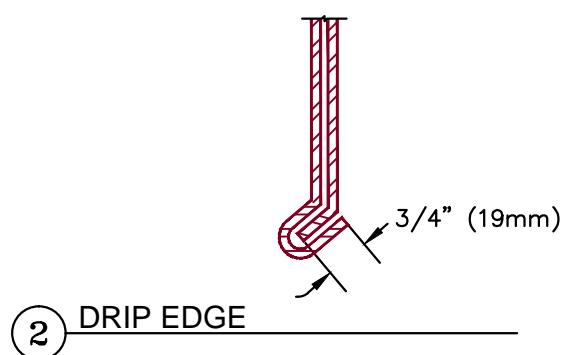
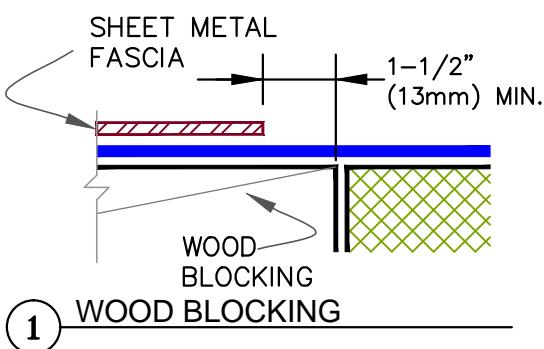
	• ROOF MEMBRANE
	• WOOD NAILER (BY OTHERS)
(A) 0	• SEE DRAWING NOTE(S)

SHEET NO.

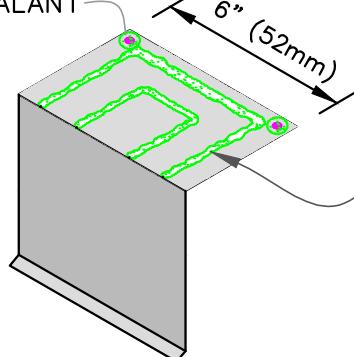
MR | E22.2

METAL RETROFIT

COMMON DETAILS



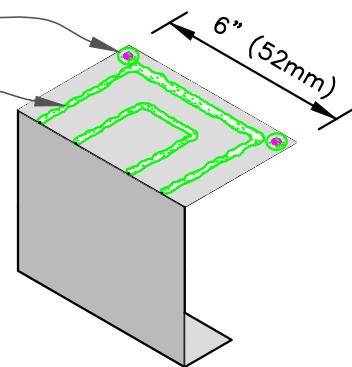
FASTENER,
COVERED WITH
SEALANT



6 " (152mm) WIDE CONCEALED
JOINT UNDER PLATE, CENTRALLY
ALIGNED BETWEEN TWO FASCIA
PIECES

(2) $3/8$ " (10mm) DIA. BEADS
OF CONTINUOUS SINGLE-PLY
UNIVERSAL SEALANT, MAX.
 $1/2$ " (13mm) FROM EDGES

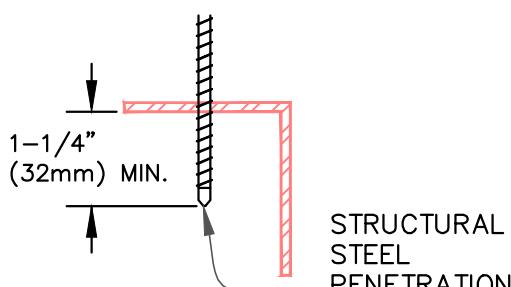
FASTENER,
COVERED WITH
SEALANT



6 " (152mm) WIDE, 24 GAUGE,
CONCEALED JOINT UNDER PLATE,
PROFILE TO MATCH WITH
C-CHANNEL, CENTRALLY ALIGNED
BETWEEN TWO C-CHANNEL FASCIAS

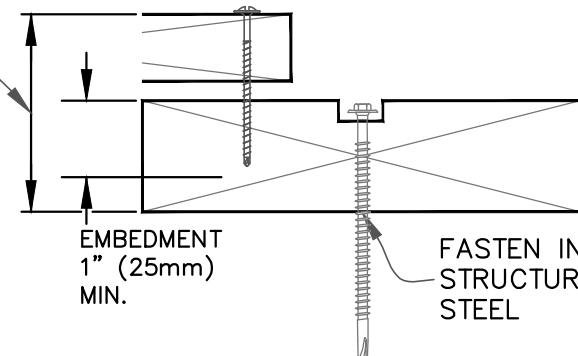
3 UNDER PLATE - TYP. FASCIA

4 UNDER PLATE: C-CHANNEL



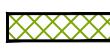
5 FASTENER INTO
STRUCTURAL STEEL

MATCH THE HEIGHT OF
ROOF ASSEMBLY



6 FASTENER INTO WOOD

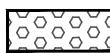
ENLARGED DETAILS



• HIGH DENSITY
RECOVER BOARD



• ROOF MEMBRANE
• WOOD NAILER (BY OTHERS)

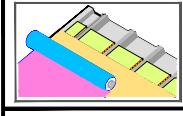


• IN-FILL INSULATION



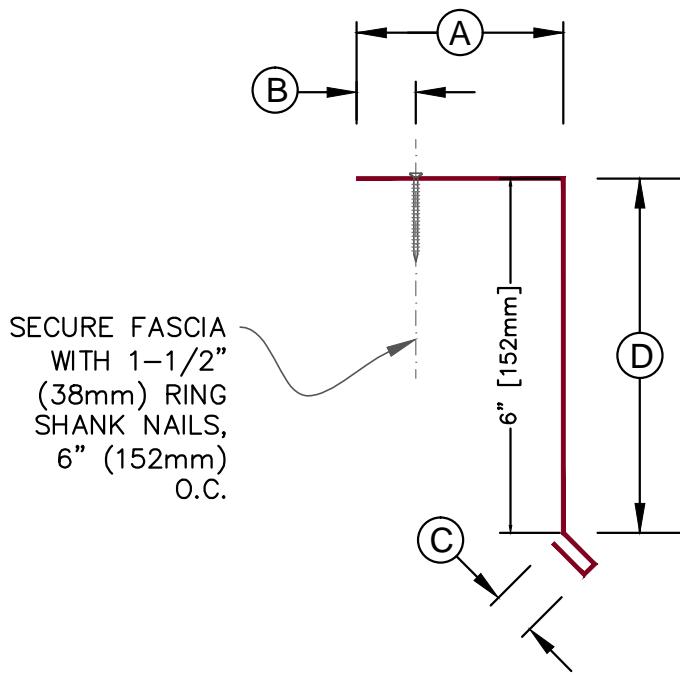
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• SEE DRAWING NOTE(S)



SHEET NO.

MR | Z1.1

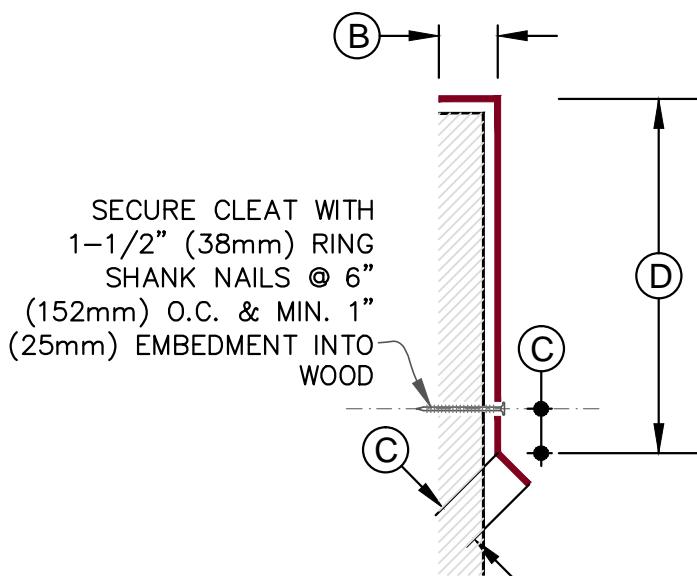


DIMENSIONS		mm
(A)	3-1/2"	28
(B)	1"	25
(C)	3/4	19
(D)	4" OR 6"	102 OR 152

NOTE:

ALL 1-1/2" (38mm) RING SHANK NAILS MUST HAVE 1" (25mm) MINIMUM EMBEDMENT INTO WOOD

A ES-1 COMPLIANT FASCIA PROFILE
24 GAUGE (0.59 mm) THICK – 10' (3048mm) LENGTH



B GALVANIZED METAL CLEAT
22 GAUGE (0.75 mm) THICK

TABLE 1: (TEST DATA)

	ES-1	COMPLIANT
RE-1	424	PSF (POUNDS/SQUARE FOOT) 62.62 (kilogram/sq.meter) 614 pascals (Pa)
RE-2	435	PSF (POUNDS/SQUARE FOOT) 64.24 (kilogram/sq.meter) 629.95 pascals (Pa)

ANSI / SPRI ES-1 COMPLIANT FASCIA - SHOP FABRICATED



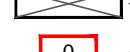
- HIGH DENSITY RECOVER BOARD



- IN-FILL INSULATION



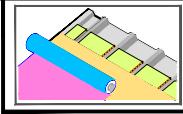
- ROOF MEMBRANE



- WOOD NAILER (BY OTHERS)

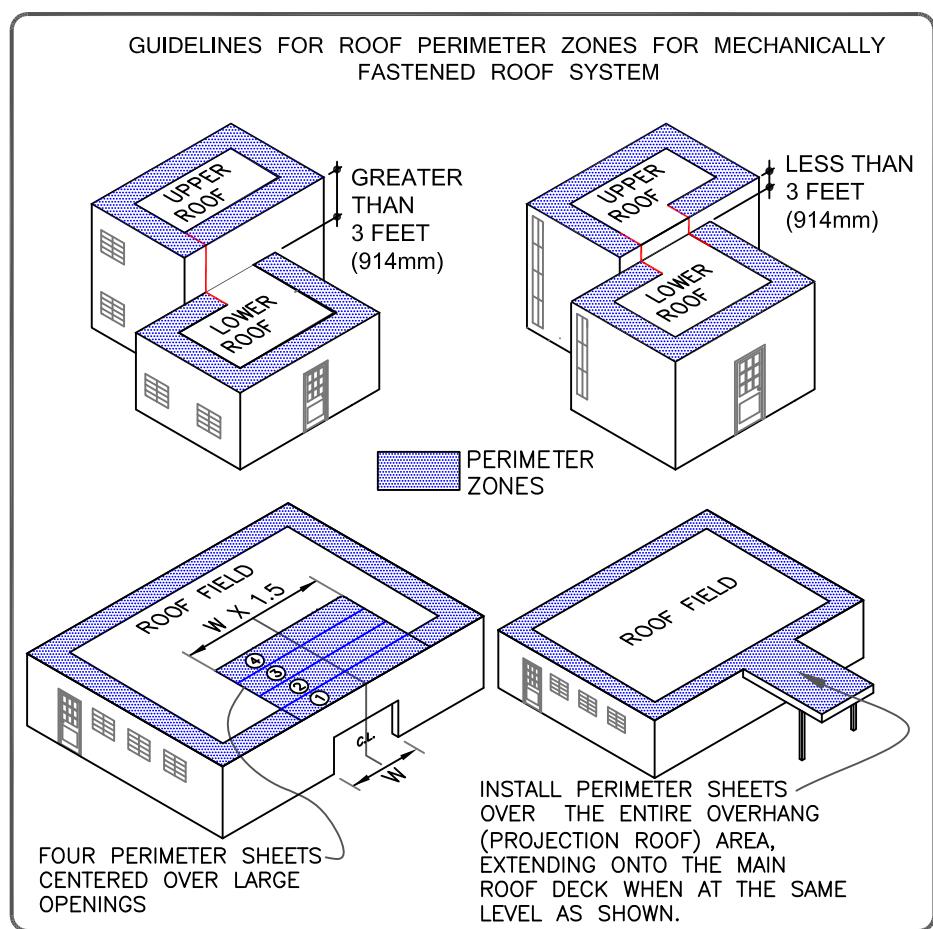
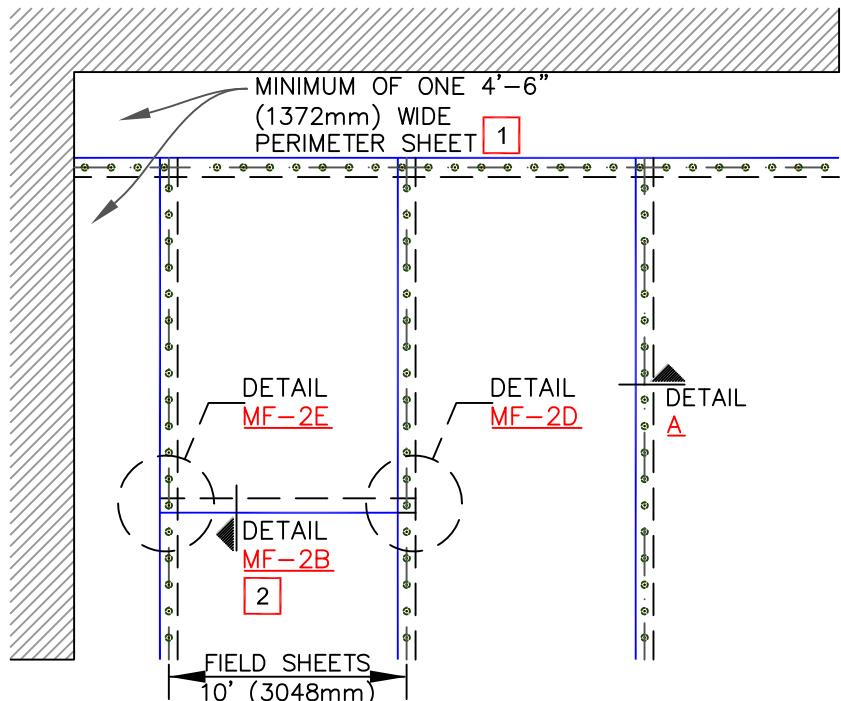
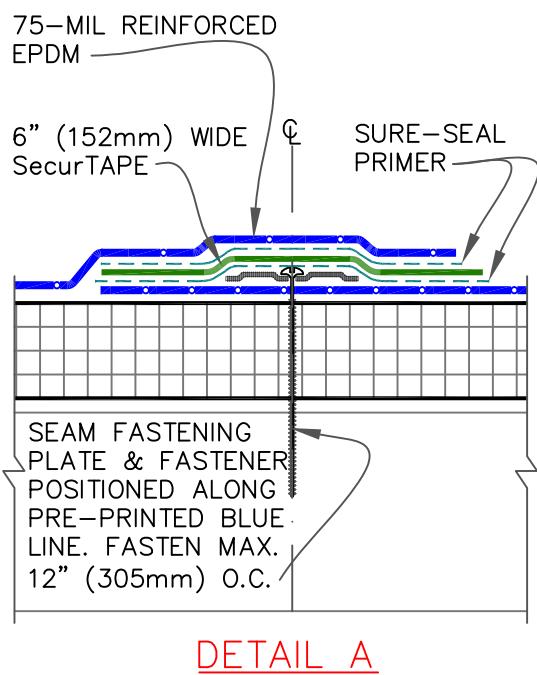


- SEE DRAWING NOTE(S)



SHEET NO.

MR | Z1.2



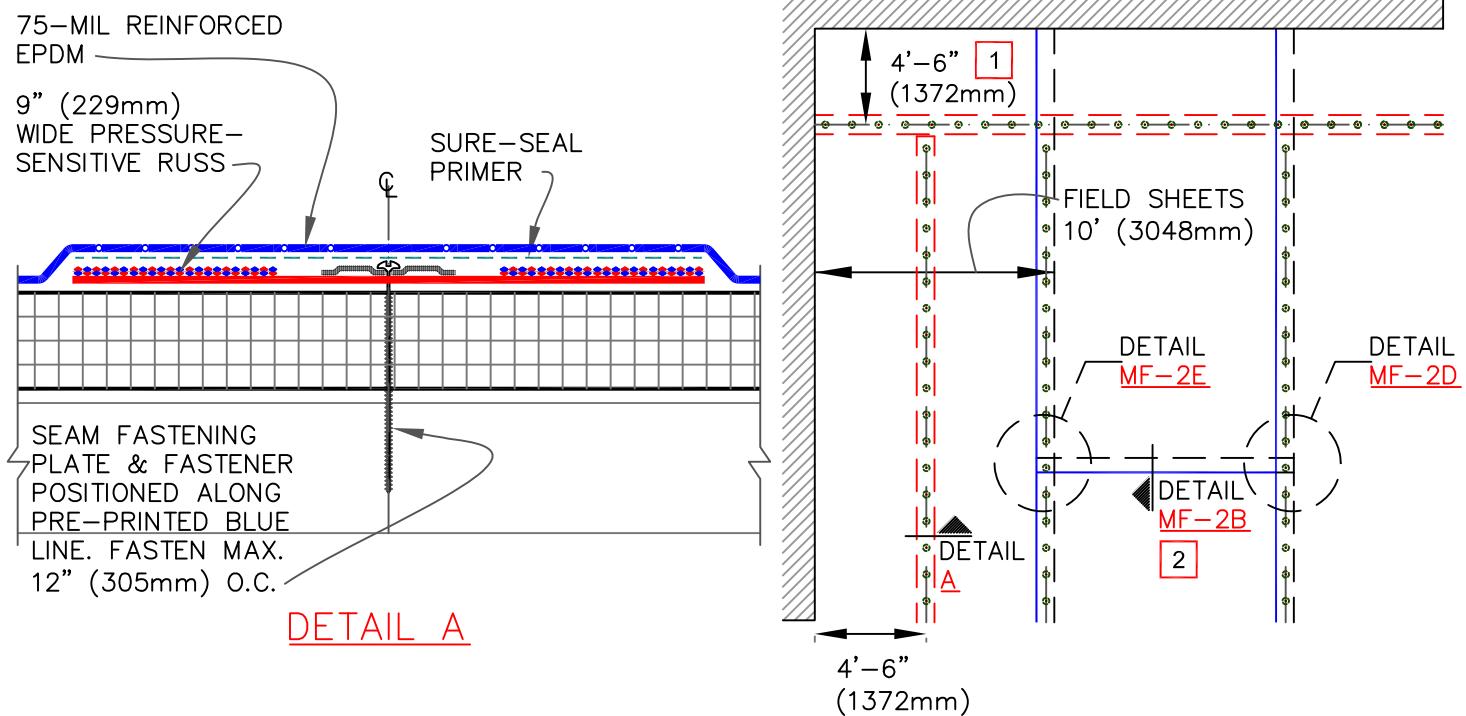
	REINFORCED EPDM—UNLESS NOTED OTHERWISE
	APPROVED SUBSTRATE
0	SEE NOTE(S)

MEMBRANE SECUREMENT - OPTION 1 (25/30 YEAR WARRANTIES)

For additional information, refer to Specifications

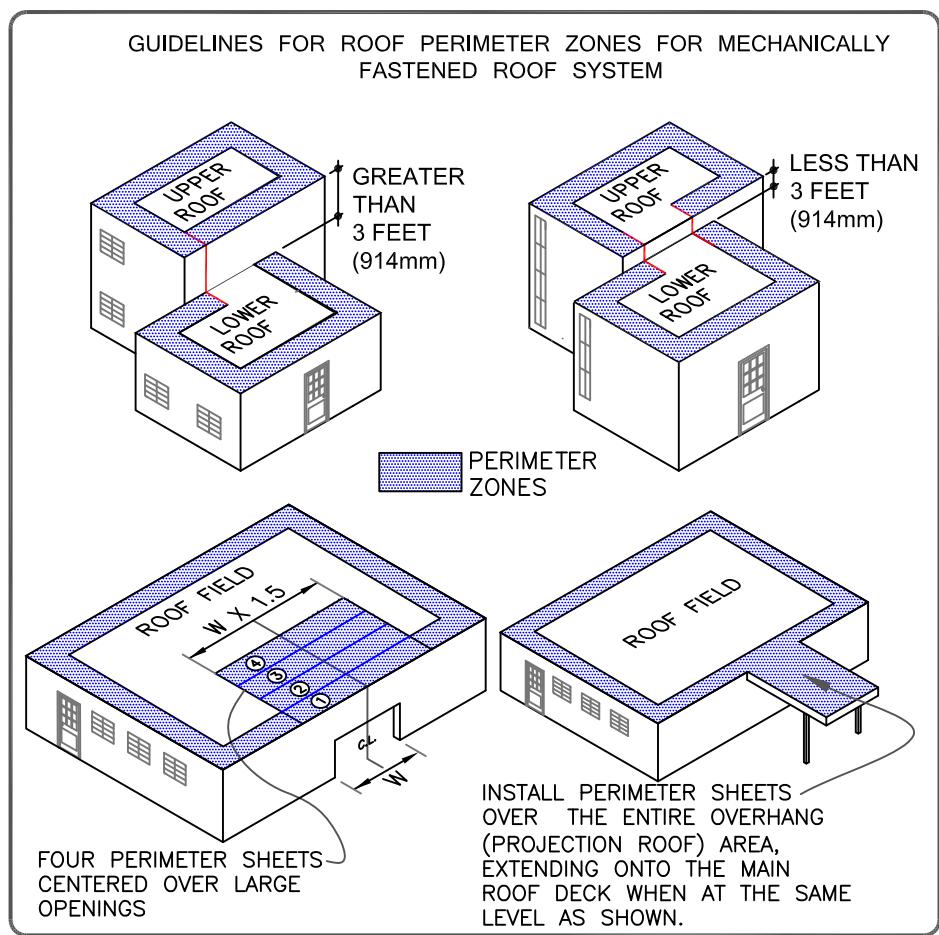
	DETAIL NO.
	MF-2.3

MECHANICALLY FASTENED



NOTES:

1. REFER TO CARLISLE SPECIFICATIONS FOR REQUIRED NUMBER OF PERIMETER SHEETS AND MEMBRANE FASTENING DENSITY.
2. END LAPS DO NOT REQUIRE MECHANICAL FASTENING AND SHALL BE SPLICED USING 6" (152mm) WIDE SecurTAPE.
3. EPDM PRIMER MUST BE APPLIED TO THE BACK SIDE OF MEMBRANE SURFACE PRIOR TO ADHERING MEMBRANE TO PRESSURE-SENSITIVE RUSS.



	REINFORCED EPDM—UNLESS NOTED OTHERWISE
	APPROVED SUBSTRATE
0	SEE NOTE(S)

**MEMBRANE SECUREMENT WITH
PRESSURE-SENSITIVE RUSS - OPTION
2 (25/30 YEAR WARRANTIES)**

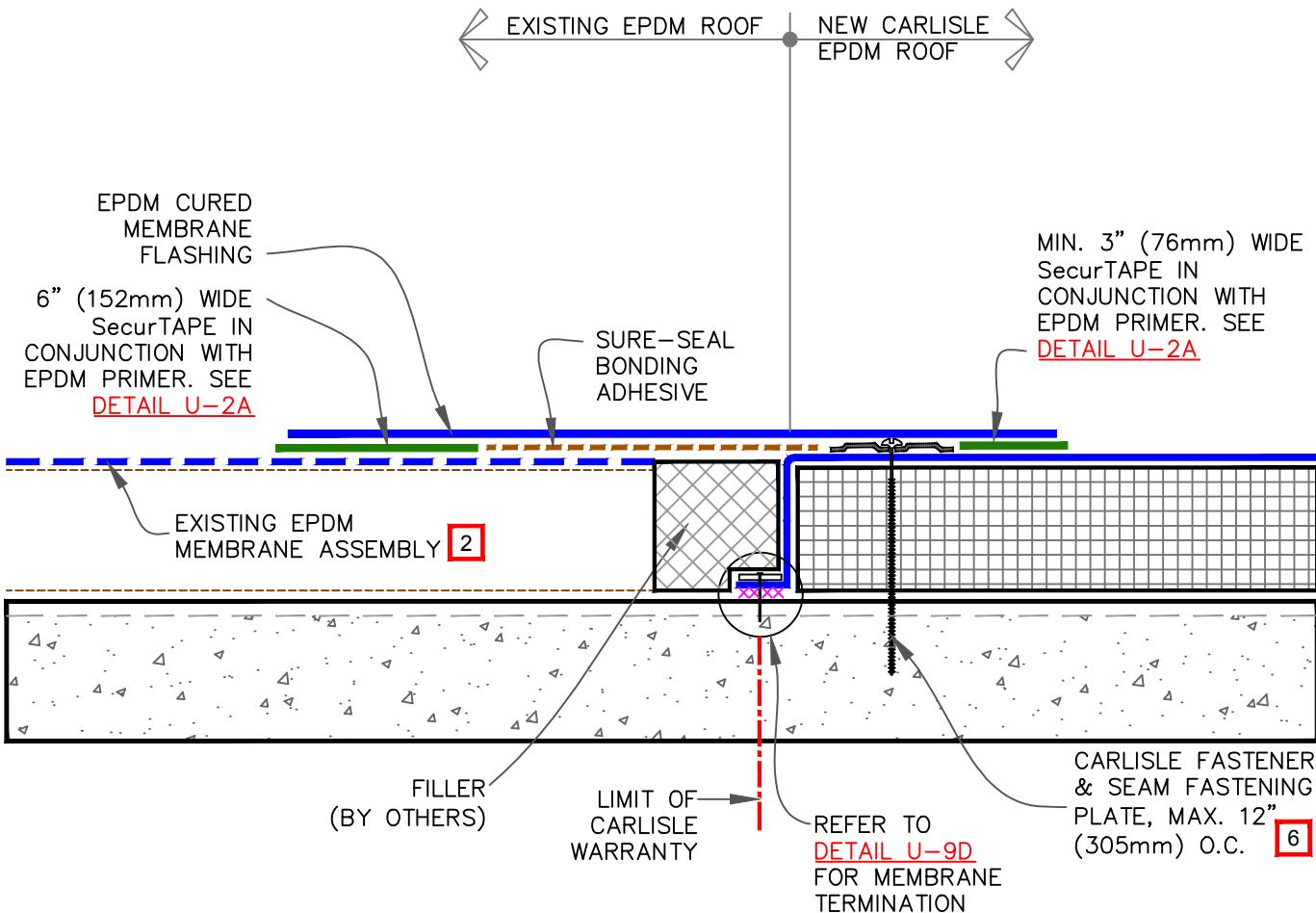
For additional information, refer to Specifications

	DETAIL NO.
	MF-2.4

MECHANICALLY FASTENED

THERMOSET MEMBRANE

EPDM



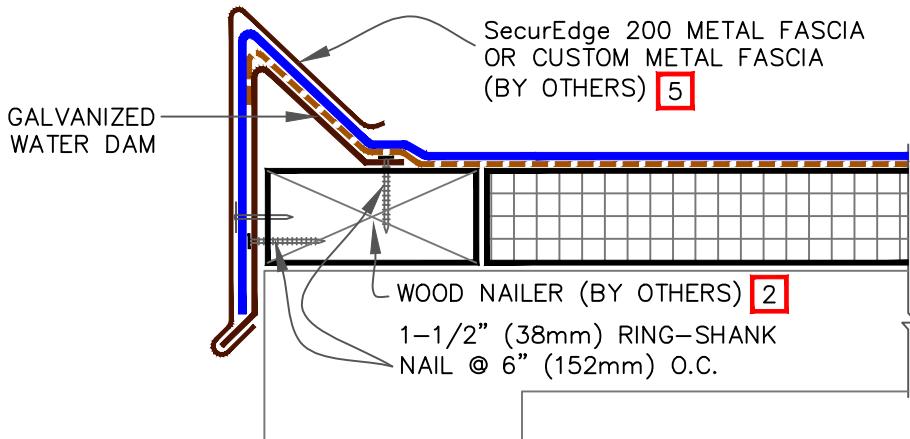
NOTES:

- PRIOR TO SPLICING, CLEAN EXISTING EPDM MEMBRANE BY SCRUBBING THE SPLICING AREA WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY.
- CONTACT MANUFACTURER OF EXISTING EPDM MEMBRANE ROOFING SYSTEM TO VERIFY ACCEPTANCE OF TIE-IN AND TO NOT VOID EXISTING WARRANTY.
- ON EXISTING BALLASTED ROOFING SYSTEMS, CONSULT RESPECTIVE MANUFACTURER FOR ACCEPTABLE GRAVEL CONTAINMENT TO PREVENT GRAVEL MIGRATION.
- WATER CUT-OFF MASTIC MUST BE HELD UNDER CONSTANT COMPRESSION.
- WHEN RE-ROOFING OVER PRE-CAST CONCRETE, APPLY LIBERAL BEAD OF WATER CUT-OFF MASTIC IN THE JOINTS TO PREVENT MOISTURE MIGRATION.
- ON MECHANICALLY FASTENED SYSTEMS, CD-10 OR HD 14-10 FASTENERS AND SEAM FASTENING PLATES ARE REQUIRED OVER CONCRETE DECKS.
- ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH PRESSURE-SENSITIVE T-JOINT COVERS. REFER TO [DETAIL U-2A OR DETAIL U-2A.1](#) FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL EPDM MEMBRANE.

	<ul style="list-style-type: none"> • EPDM • APPROVED SUBSTRATE • SEE NOTE(S) 	EPDM TIE-IN OVER CONCRETE DECK For additional information, refer to Specifications	DETAIL NO. U-13D THERMOSET UNIVERSAL
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CAUTION

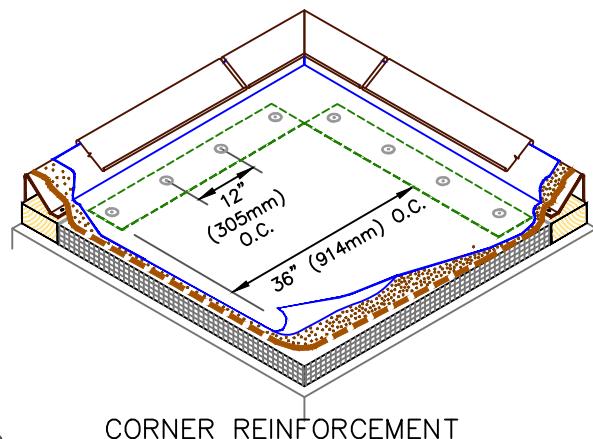
DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS. ACCEPTABLE EDGING SHALL CONFORM TO [DETAIL A-1A.1](#).



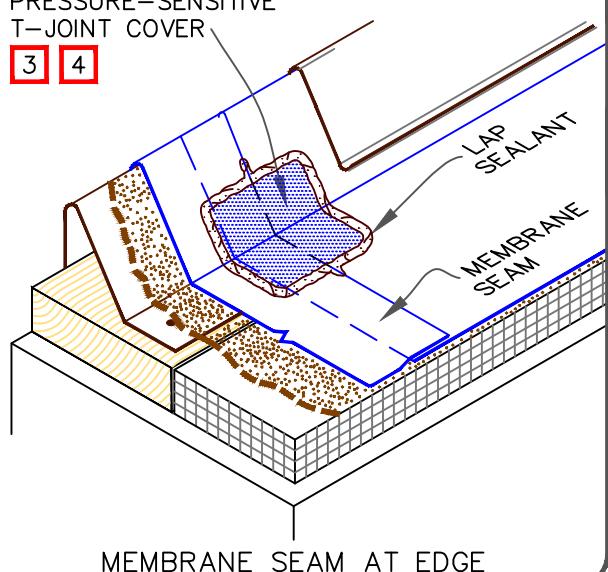
NOTES:

1. REFER TO [SecurEdge 200 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP DECK FLANGE.
3. APPLY EPDM PRIMER TO THE MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE ELASTOFORM FLASHING
4. 6" (152mm) WIDE SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING MAY ALSO BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE. PROJECTS USING 90-MIL MEMBRANE REQUIRE TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
5. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.

AT CORNERS, 6" (152mm) WIDE PRESSURE-SENSITIVE RUSS MUST BE INSTALLED 12" (305mm) MAXIMUM FROM THE BASE OF THE WATER DAM AND EXTEND 36" (914mm) MINIMUM IN EACH DIRECTION.



PRESSURE-SENSITIVE T-JOINT COVER
[3] [4]



	EPDM
	BONDING ADHESIVE
	APPROVED SUBSTRATE
[0]	SEE NOTE(S)

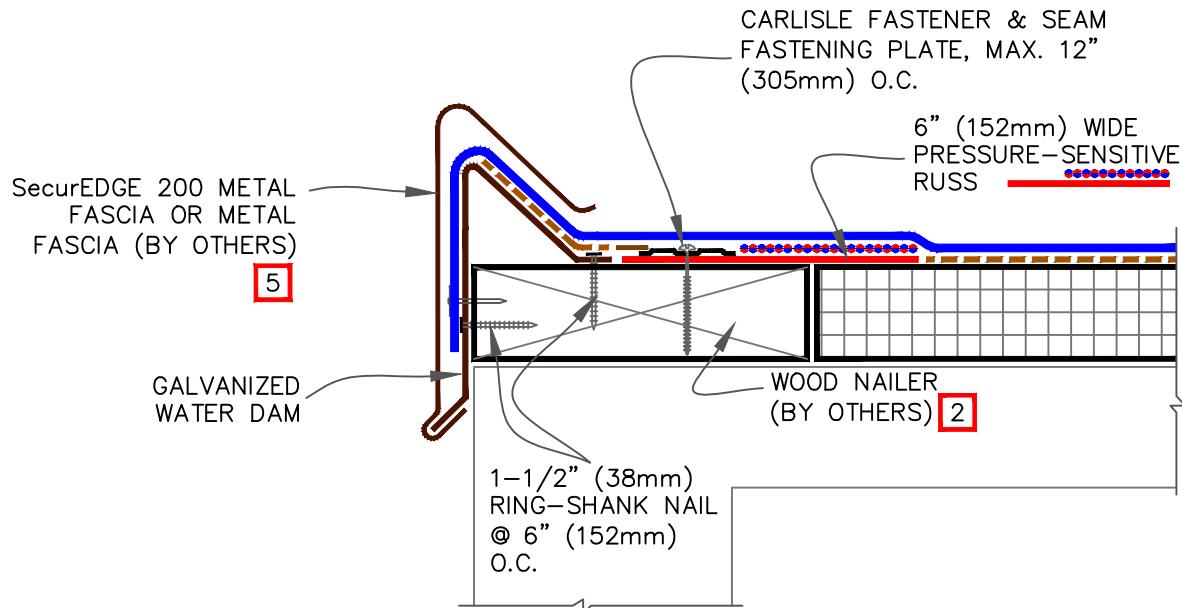
CARLISLE SecurEDGE 200

For additional information, refer to Specifications

DETAIL NO.
A-1A
ADHERED EPDM

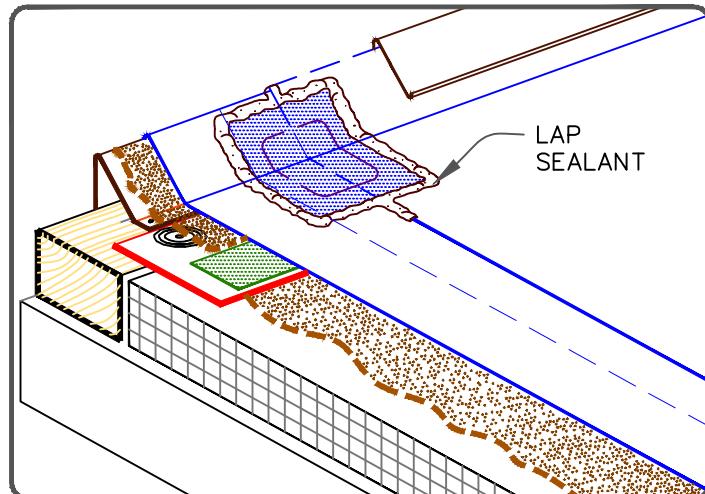
CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90 MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER.



NOTES:

1. REFER TO [SecurEdge 200 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP DECK FLANGE.
3. APPLY EPDM PRIMER TO THE MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
4. FIELD SPLICES AT THE ANGLE CHANGE SHALL BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
5. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.



	EPDM
	BONDING ADHESIVE
	APPROVED SUBSTRATE
[0]	SEE NOTE(S)

CARLISLE SecurEDGE 200—
PROJECTS WITH 25 AND 30-YEAR
WARRANTIES

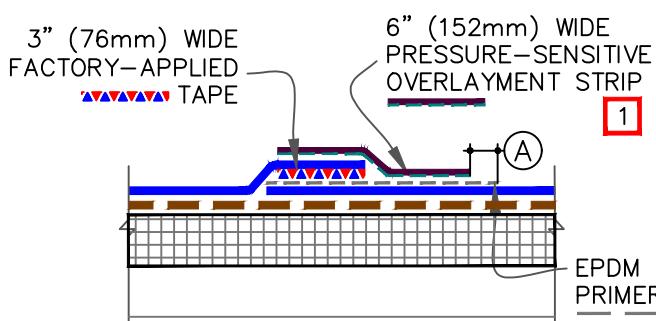
For additional information, refer to Specifications

DETAIL NO.
A-1A.1 ADHERED EPDM

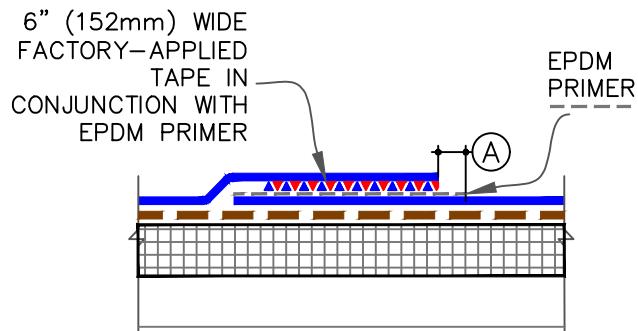
THERMOSET MEMBRANE

EPDM

OPTION 1



OPTION 2



PRESSURE-SENSITIVE
OVERLAYMENT STRIP
(SEE NOTES)

F.A.T.
EPDM
PRIMER

END LAP

12"X12"
PRESSURE-SENSITIVE
T-JOINT COVER

6"X6"
PRESSURE-SENSITIVE
T-JOINT COVER

EPDM
PRIMER

END
LAP

LAP
SEALANT

NOTES:

1. TAPE SPLICES MAY BE A MINIMUM 3" (76mm) WIDE FACTORY APPLIED TAPE (F.A.T.). IN ADDITION, OVERLAY THE ENTIRE FIELD SPLICE WITH A CONTINUOUS 6" (152mm) WIDE PRESSURE-SENSITIVE OVERLAYMENT STRIP.
2. APPLY LAP SEALANT AT ALL INTERSECTIONS BETWEEN PRESSURE-SENSITIVE OVERLAYMENT STRIP.

DIMENSION	mm
(A)	1/8" TO 1/2" 3 TO 13mm

NOTE:

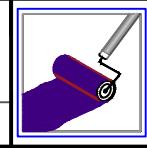
1. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"X6" (152X152mm) T-JOINT COVER. A SECOND LAYER OF 12"X12" (305X305mm) PRESSURE-SENSITIVE T-JOINT COVER IS REQUIRED.

— EPDM
- - - BONDING ADHESIVE
— APPROVED SUBSTRATE
0 — SEE NOTE(S)

EPDM MEMBRANE SPLICES
(25 / 30 YEAR WARRANTIES)

For additional information, refer to Specifications

F.A.T. (FACTORY APPLIED SecurTAPE)

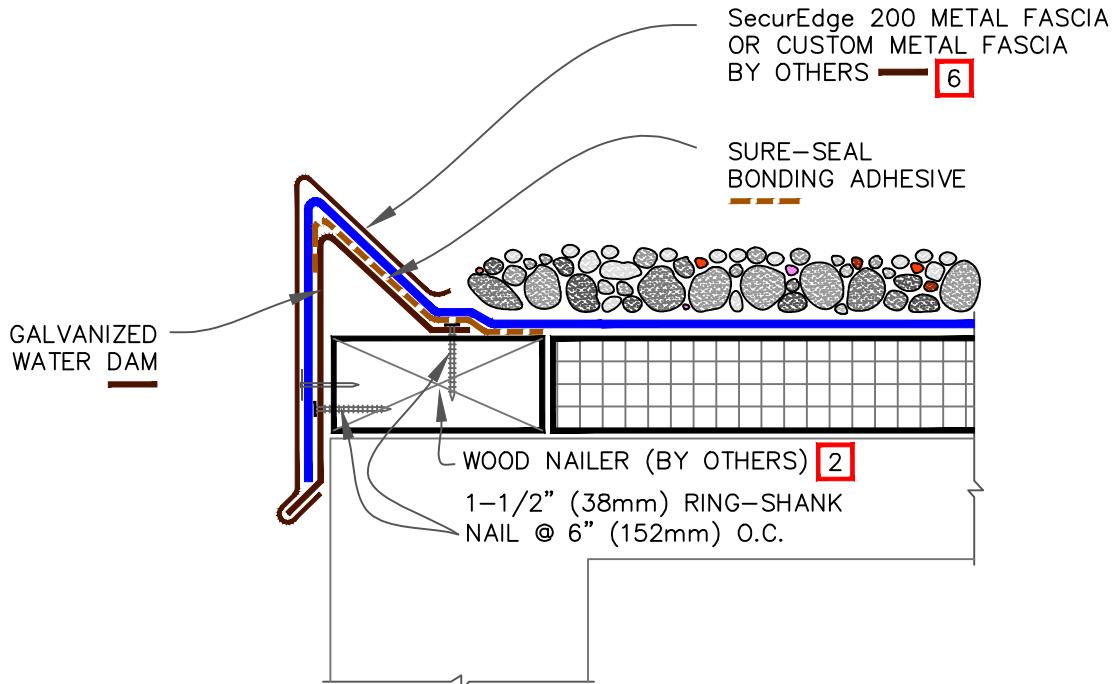


DETAIL NO.

A-2

ADHERED EPDM

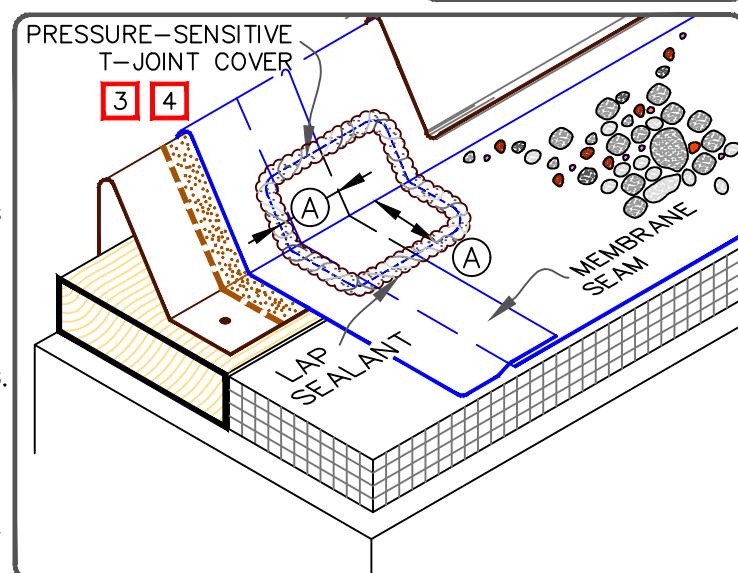
25/30 YEAR



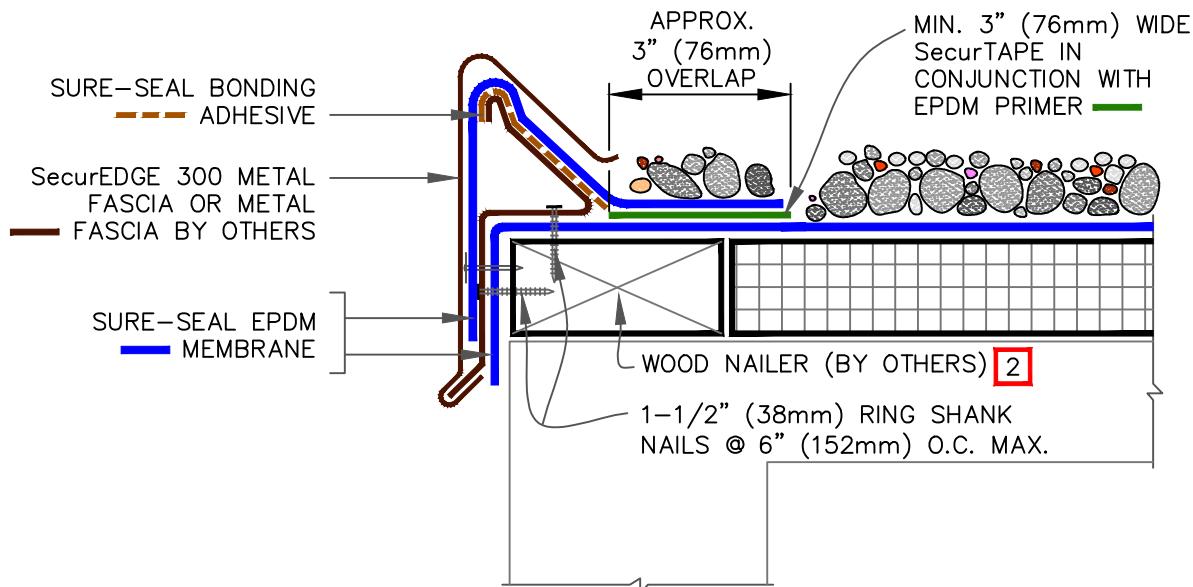
NOTES:

1. REFER TO [SecurEdge 200 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP DECK FLANGE.
3. 6" (152mm) WIDE SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING MAY ALSO BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
4. APPLY EPDM PRIMER TO THE MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
5. AT GUTTER EDGES, SCUPPERS MUST BE PROVIDED FOR DRAINAGE.
6. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.

DIMENSION	mm	
(A)	3"	76 MIN.

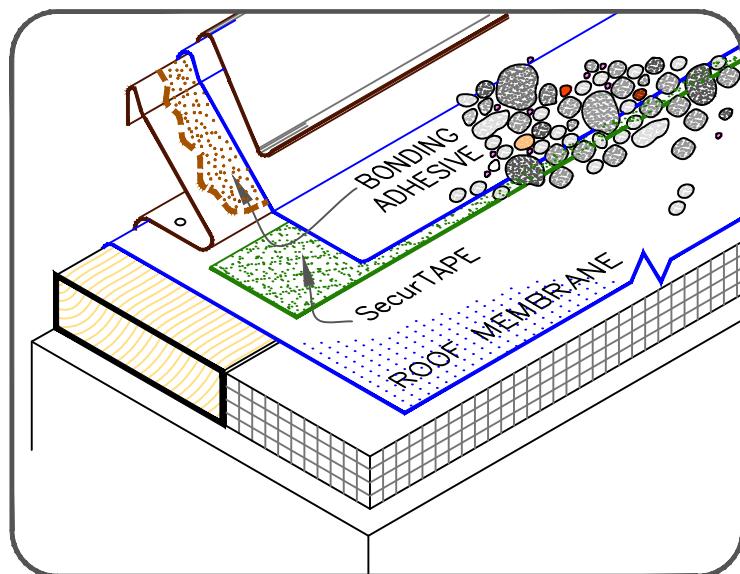


— ● EPDM	CARLISLE SecurEDGE 200	DETAIL NO.
— ● APPROVED SUBSTRATE	For additional information, refer to Specifications	B-1A
— ● SEE NOTE(S)		BALLASTED EPDM

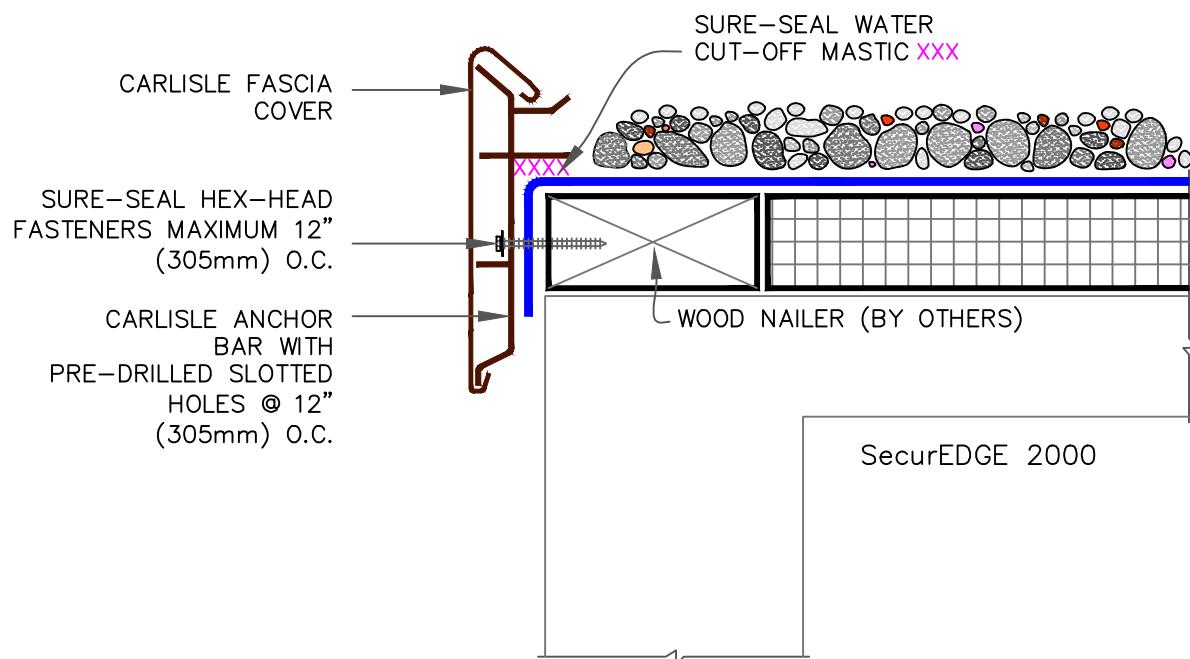


NOTES:

1. REFER TO CARLISLE [SecurEdge 300 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP.
3. PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
4. AT GUTTER EDGES, SCUPPERS MUST BE PROVIDED FOR DRAINAGE.
5. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.



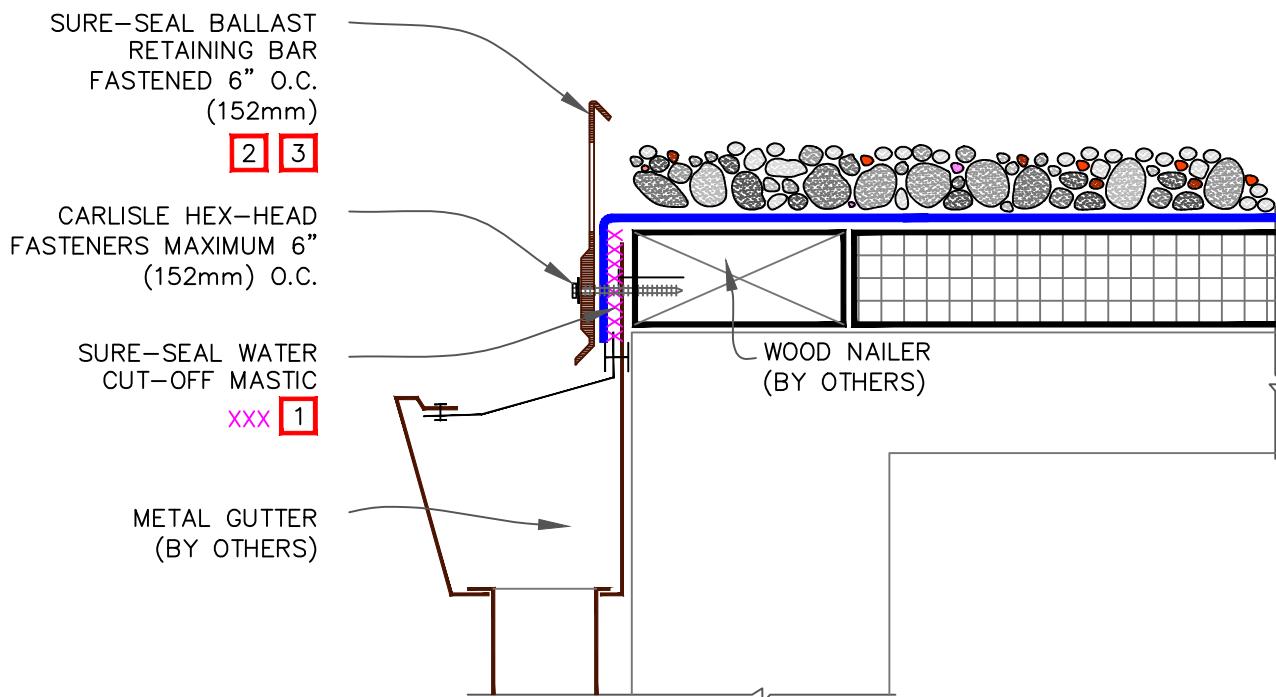
● EPDM	CARLISLE SecurEdge 300	DETAIL NO.
● APPROVED SUBSTRATE		B-1B
[0] ● SEE NOTE(S)	For additional information, refer to Specifications	BALLASTED EPDM



NOTES:

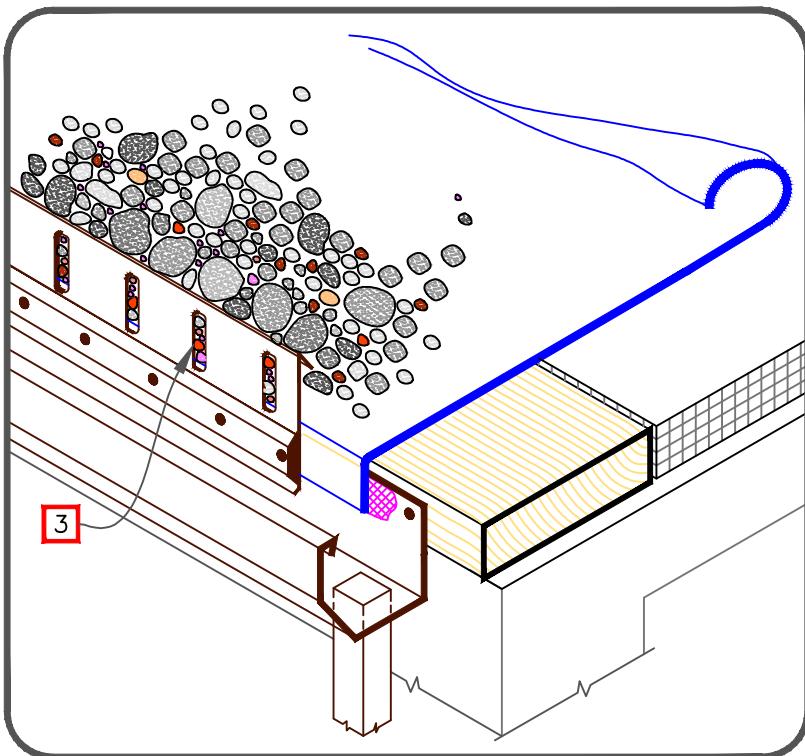
1. REFER TO [SecurEdge 2000 INSTALLATION INSTRUCTION MANUAL](#) FOR THE STEP BY STEP INSTALLATION PROCEDURES AND FOR THE VARIOUS PRODUCT FEATURES AVAILABLE.
2. ENSURE ROOF SLOPES AWAY FROM SecurEDGE.
3. IF INCIDENTAL/TEMPORARY PONDED WATER IS EXPECTED, THE SecurEdge MUST BE ELEVATED AND SCUPPERS PROVIDED FOR DRAINAGE.

● EPDM	CARLISLE SecurEDGE 2000	DETAIL NO.
● APPROVED SUBSTRATE		B-1C
● SEE NOTE(S)	For additional information, refer to Specifications	BALLASTED EPDM



NOTES:

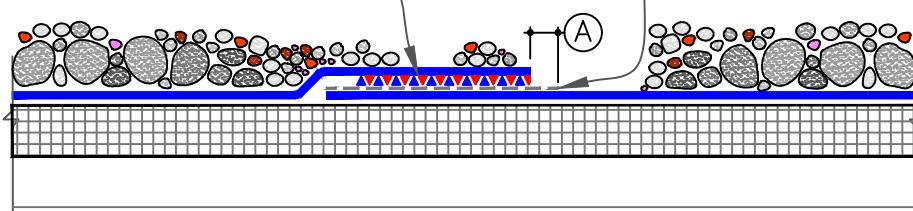
1. BALLAST RETAINING BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
2. BALLAST RETAINING BAR MUST EXTEND ABOVE GRAVEL SURFACE SUFFICIENTLY TO RETAIN GRAVEL AND PREVENT GRAVEL MIGRATION.
3. SLOTS IN BALLAST RETAINING BAR MUST BE FLUSH OR SLIGHTLY BELOW MEMBRANE LEVEL.
4. REFER TO LOCAL CODES FOR PROPER DRAINAGE REQUIREMENTS.



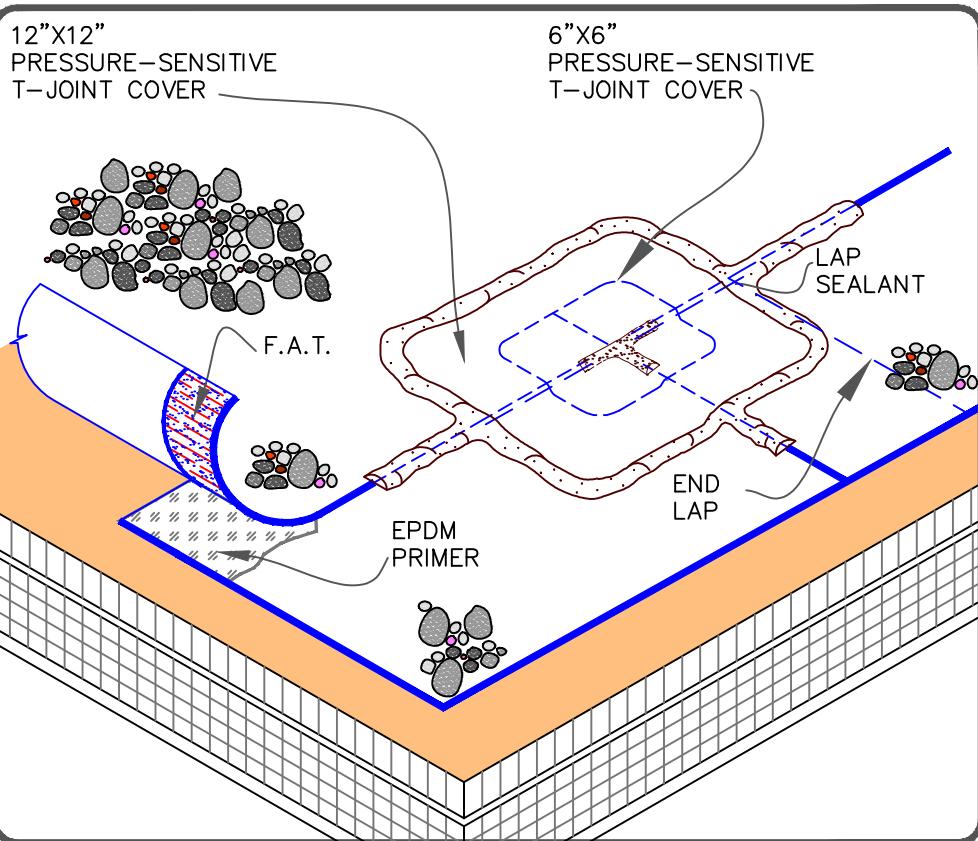
—●— EPDM	SURE-SEAL BALLAST RETAINING BAR	DETAIL NO.
—●— APPROVED SUBSTRATE		B-1D
[0] —●— SEE NOTE(S)	For additional information, refer to Specifications	BALLASTED EPDM

6" (152mm) WIDE
FACTORY-APPLIED
TAPE IN CONJUNCTION WITH
EPDM PRIMER

EPDM
PRIMER



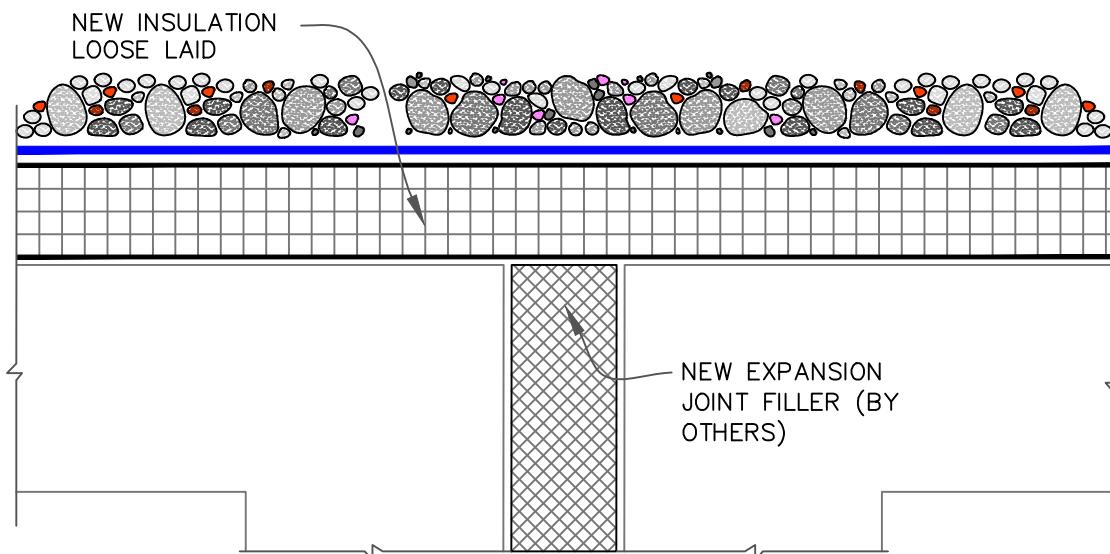
DIMENSION	mm
(A)	1/8" TO 1/2" 3 TO 13mm



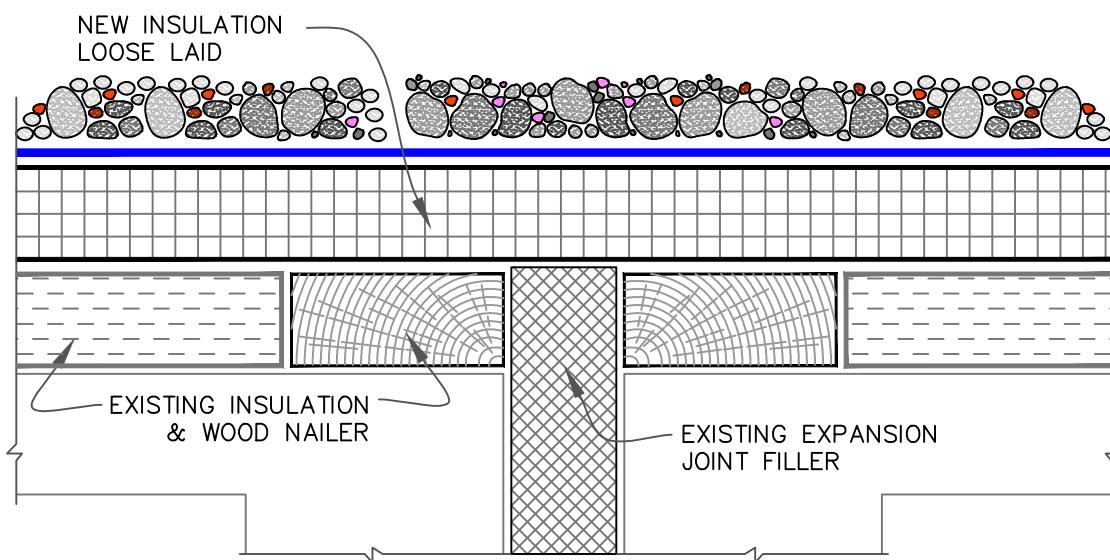
NOTES:

1. ALL SPLICE INTERSECTIONS MUST BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING.
2. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"X6" (152X152mm) T-JOINT COVER. A SECOND LAYER OF 12"X12" (305X305mm) PRESSURE-SENSITIVE T-JOINT COVER IS REQUIRED.
3. BOTH LAYERS SHALL BE CENTERED OVER THE SPLICE INTERSECTION AND SEALED WITH CONTINUOUS LAP SEALANT.

● EPDM ● APPROVED SUBSTRATE 0 ● SEE NOTE(S)	MEMBRANE SPLICE (25 / 30 YEAR WARRANTIES) <small>For additional information, refer to Specifications</small>	DETAIL NO. B-2 BALLASTED EPDM
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(A) NEW CONSTRUCTION OR TEAROFF

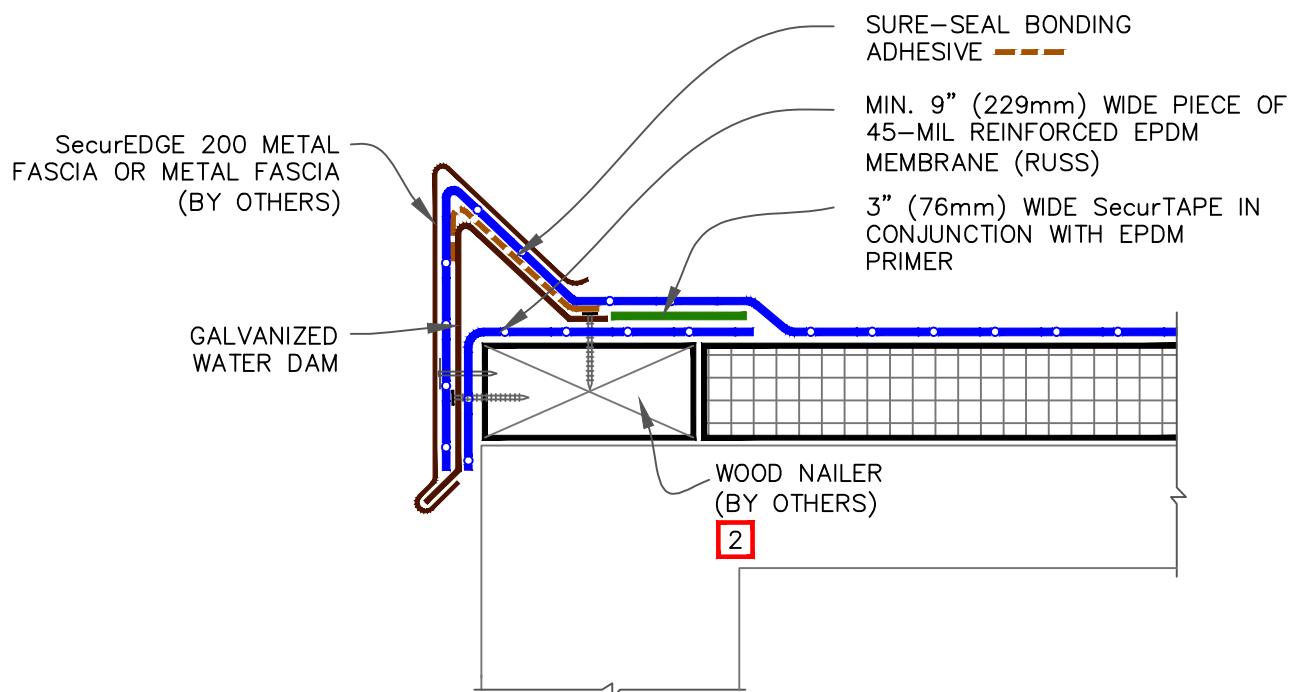


(B) DECK LEVEL/REROOFING

NOTE:

ANY [U-3 EXPANSION JOINT](#) DETAIL CAN BE USED WITH THE "B" SYSTEM (BALLASTED STONE ASSEMBLY)

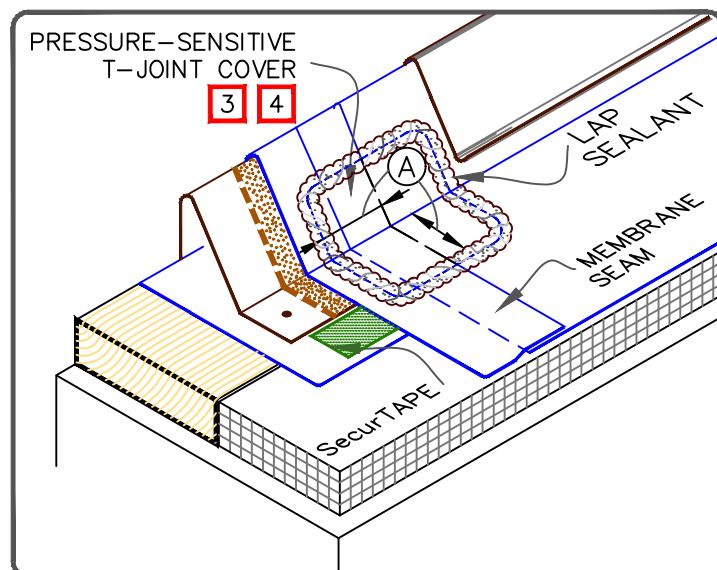
● EPDM ● APPROVED SUBSTRATE 0 ● SEE NOTE(S)	DECK EXPANSION JOINT <small>For additional information, refer to Specifications</small>	DETAIL NO. B-3 BALLASTED EPDM
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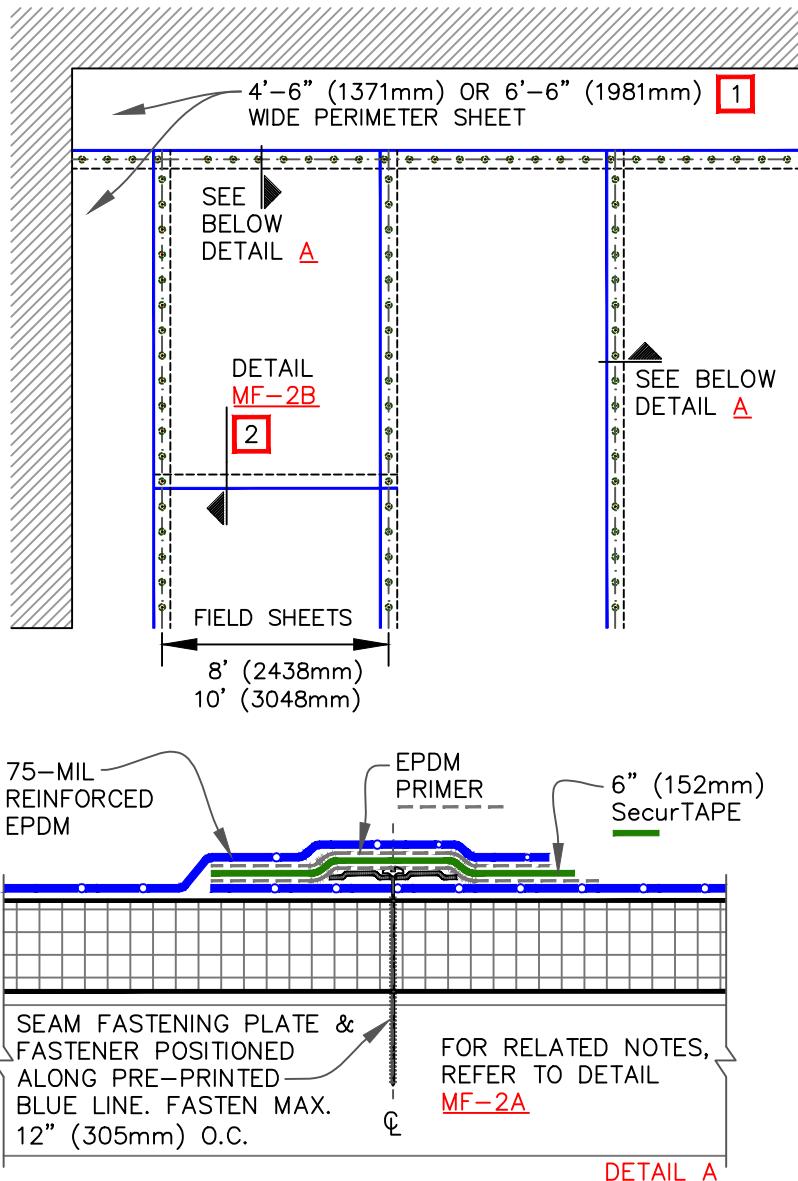
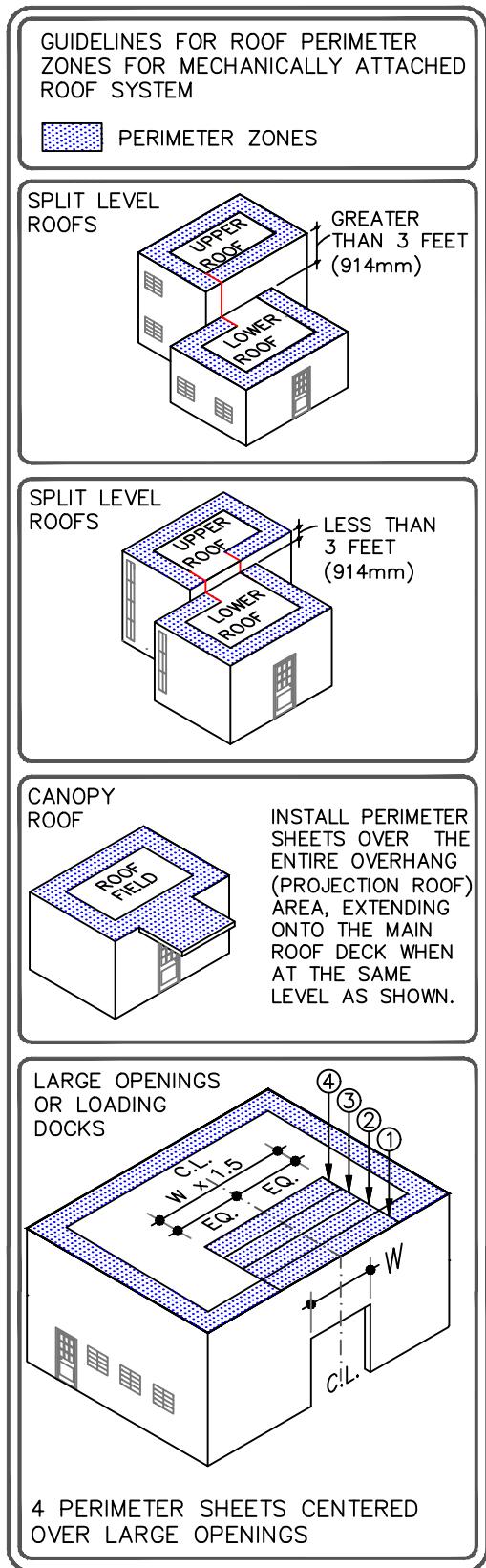
NOTES:

1. REFER TO [SecurEdge 200 Installation Instruction Manual](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP DECK FLANGE.
3. APPLY EPDM PRIMER TO THE MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.
4. 6" (152 mm) WIDE SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING MAY ALSO BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
5. AT GUTTER EDGES, SCUPPERS MUST BE PROVIDED FOR DRAINAGE.
6. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.

DIMENSION	mm	
(A) 3"	76	MIN.



REINFORCED EPDM—UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S)	CARLISLE SecurEDGE 200 For additional information, refer to Specifications	DETAIL NO. MF-1A MECHANICALLY FASTENED
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**NOTES:**

1. REFER TO CARLISLE SPECIFICATIONS FOR REQUIRED NUMBER OF PERIMETER SHEETS, SHEET WIDTH AND MEMBRANE FASTENING DENSITY.
2. END LAPS DO NOT REQUIRE MECHANICAL FASTENING AND SHALL BE SPLICED USING EITHER 3" (76mm) OR 6" (152mm) WIDE SecurTape. REFER TO DETAIL MF-2B.
3. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.

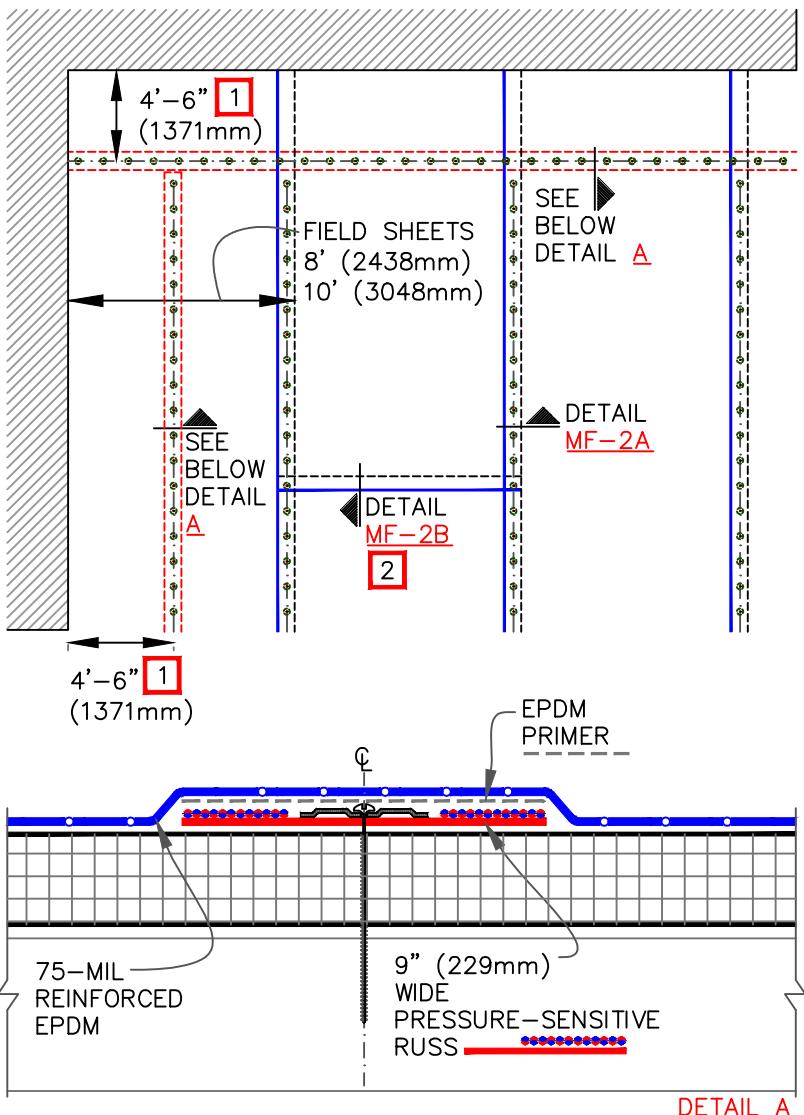
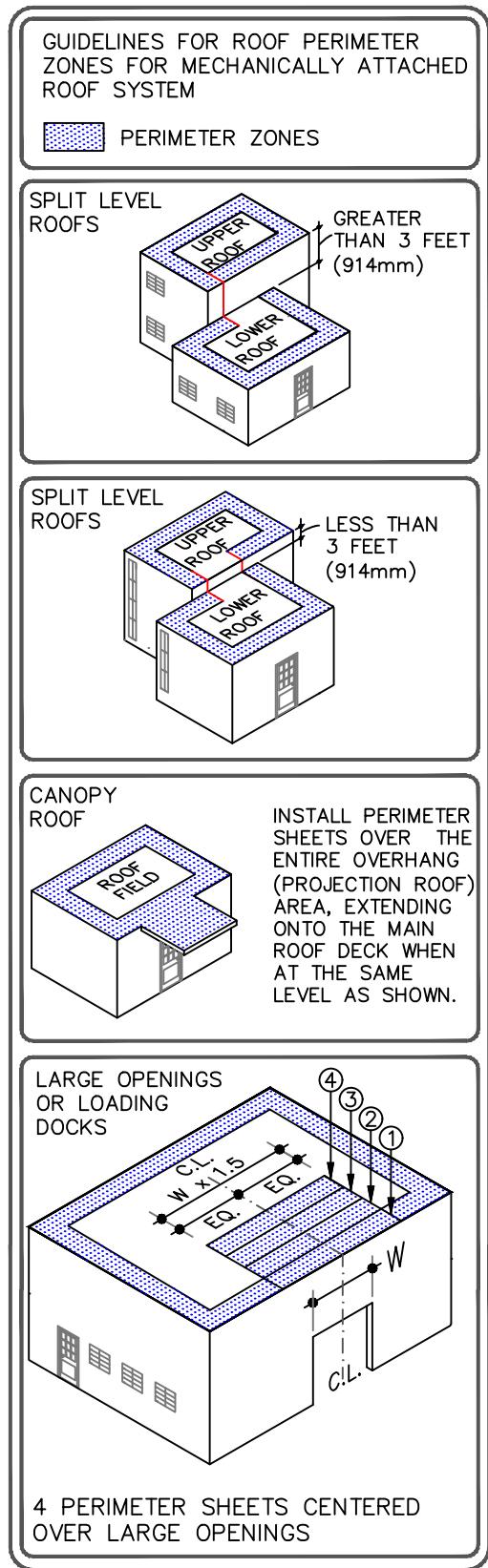
	REINFORCED EPDM—UNLESS NOTED OTHERWISE
	APPROVED SUBSTRATE
	SEE NOTE(S)

MEMBRANE SECUREMENT – OPTION 1
(25 / 30 YEAR WARRANTIES)

For additional information, refer to Specifications

DETAIL NO.
MF-2.1

MECHANICALLY FASTENED

**NOTES:**

1. REFER TO CARLISLE SPECIFICATIONS FOR REQUIRED NUMBER OF PERIMETER SHEETS, SHEET WIDTH AND MEMBRANE FASTENING DENSITY.
2. END LAPS DO NOT REQUIRE MECHANICAL FASTENING AND SHALL BE SPLICED USING EITHER 3" (76mm) OR 6" (152mm) WIDE SecurTAPE. REFER TO DETAIL MF-2B.
3. EPDM PRIMER MUST BE APPLIED TO THE BACK SIDE OF MEMBRANE SURFACE PRIOR TO ADHERING MEMBRANE TO PRESSURE-SENSITIVE RUSS..
4. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.

	REINFORCED EPDM—UNLESS NOTED OTHERWISE
	APPROVED SUBSTRATE
0	SEE NOTE(S)

MEMBRANE SECUREMENT WITH PRESSURE-SENSITIVE RUSS — OPTION 2 (25 / 30 YEAR WARRANTIES)

For additional information, refer to Specifications

DETAIL NO.
MF-2.2

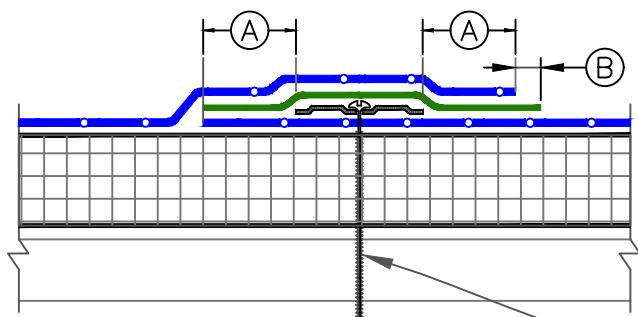
MECHANICALLY FASTENED

THERMOSET MEMBRANE

EPDM

6" (152mm) WIDE SecurTAPE SPLICE

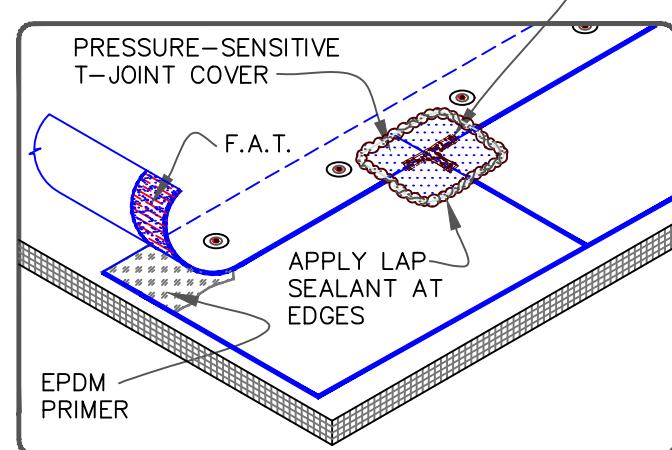
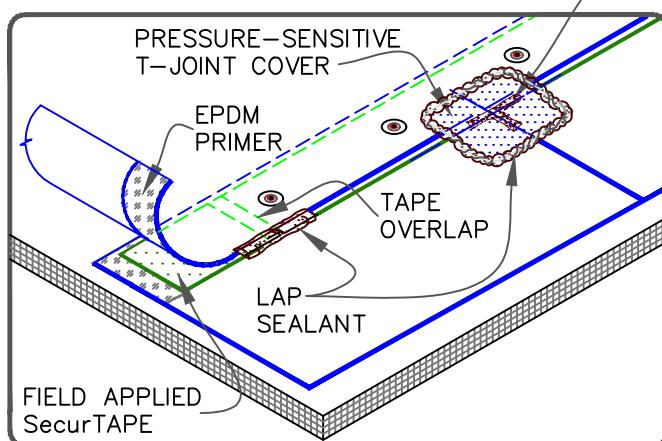
6" (152mm) WIDE FACTORY APPLIED TAPE



FACTORY
APPLIED
TAPE ▲▼▲
2"(51mm)
2"(51mm)

SEAM FASTENING PLATE &
FASTENER POSITIONED OVER
PRE-PRINTED BLUE MARKS.
FASTEN MAX. 12" (305mm) O.C. 1

DIMENSIONS	mm
(A) 2"	51
(B) 1/8"	3
1/2"	13

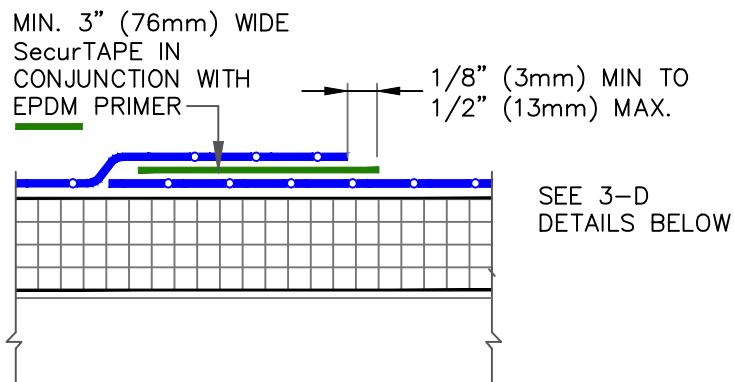


NOTES:

F.A.T. (FACTORY APPLIED SecurTAPE)

1. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
2. PRIOR TO THE INSTALLATION OF SPLICE TAPE, APPLY EPDM PRIMER TO SPLICE AREAS.
3. FIELD APPLIED SecurTape IS TO BE OVERLAPPED A MINIMUM OF 1" (25mm) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 2" (51mm) IN EACH DIRECTION AS SHOWN.
4. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152 X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
5. END LAPS SHALL BE SPLICED USING EITHER 3" (76mm) OR 6" (152mm) WIDE SecurTape. REFER TO DETAIL MF-2B.
6. LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.

REINFORCED EPDM— UNLESS NOTED OTHERWISE APPROVED SUBSTRATE 0 SEE NOTE(S)	MEMBRANE SPLICE <small>For additional information, refer to Specifications</small>	DETAIL NO. MF-2A <small>MECHANICALLY FASTENED</small>
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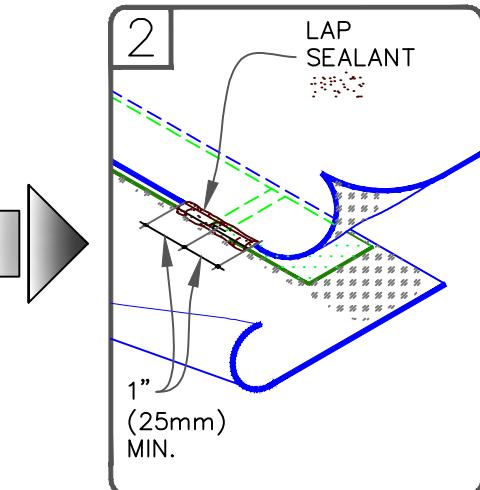
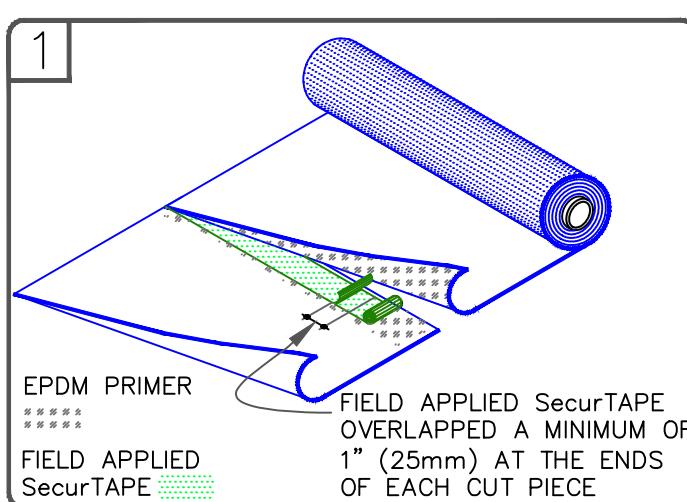
UP TO 15 YEAR WARRANTY

MIN. 6" (152mm) WIDE SecurTAPE IN
CONJUNCTION WITH EPDM PRIMER

1/8" (3mm) MIN TO
1/2" (13mm) MAX.

SEE 3-D
DETAILS BELOW

UP TO 30 YEAR WARRANTY



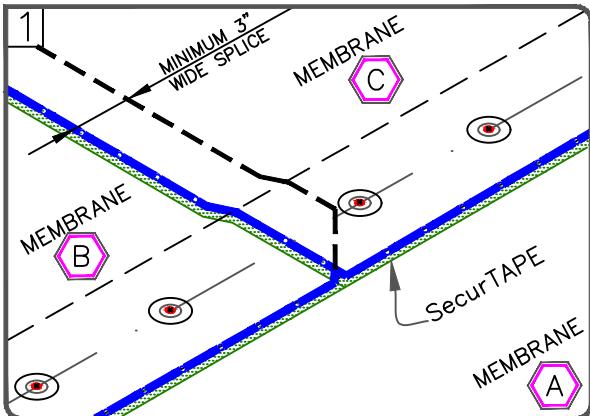
NOTES:

1. APPLY EPDM PRIMER TO THE MEMBRANE SURFACES PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.
2. LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.

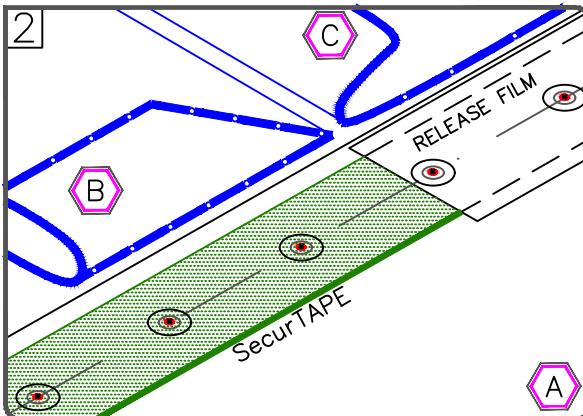
REINFORCED EPDM— UNLESS NOTED OTHERWISE APPROVED SUBSTRATE 0 SEE NOTE(S)	END LAP SPLICE <small>For additional information, refer to Specifications</small>	DETAIL NO. MF-2B MECHANICALLY FASTENED
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THERMOSET MEMBRANE

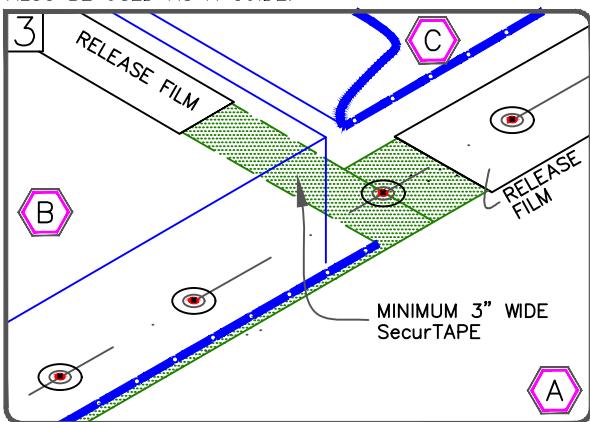
EPDM



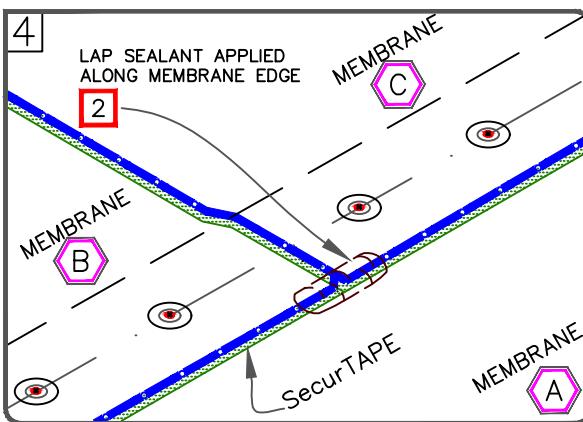
POSITION MEMBRANE TO ALLOW AN APPROXIMATE 7" (178mm) OVERLAP ALONG THE LENGTH OF THE MEMBRANE & 3" (76mm) AT END LAPS. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER 1/2" (13mm) FROM THE EDGE OF THE TOP SHEET AS SHOWN. THE PRE-MARKED LINE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.



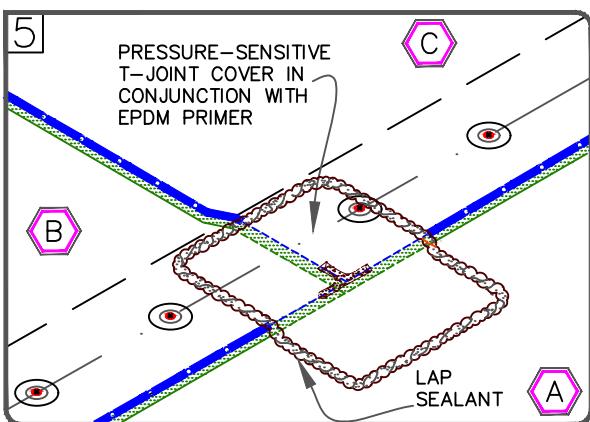
FOLD SHEETS BACK AS SHOWN. APPLY EPDM PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY SecurTape WITH RELEASE FILM ALIGNED WITH MARKER LINE.



SPLICE SHEET B TO SHEET A AND APPLY SECOND PIECE OF SecurTape BETWEEN SHEET B AND C. TRIM RELEASE FILM AS SHOWN.



SPLICE SHEET C TO SHEET A AND B, PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARDS THE OUTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" (51mm) WIDE STEEL ROLLER.



APPLY PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION AS SHOWN.

NOTES:

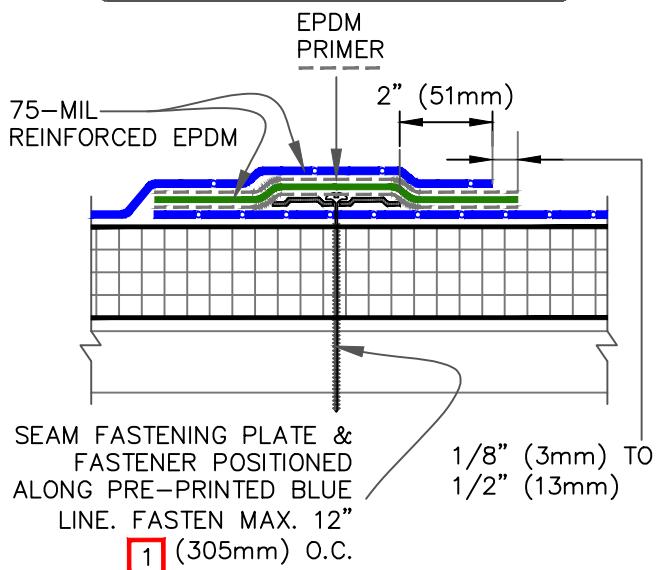
1. THE USE OF LAP SEALANT ALONG ENTIRE SPLICE EDGE IS OPTIONAL, EXCEPT AT CUT EDGES OF REINFORCED MEMBRANE AND TAPE OVERLAPS. REFER TO [DETAIL MF-2A](#).
2. APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE (UNDER THE 6"x6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION.
3. PROJECTS WITH WARRANTIES GREATER THAN 15-YEARS REQUIRE 6" (152mm) WIDE SecurTape. REFER TO [DETAIL MF-2B](#).

<ul style="list-style-type: none"> REINFORCED EPDM—UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S) 	SecurTape SPLICE INTERSECTION <small>For additional information, refer to Specifications</small>	DETAIL NO. MF-2C MECHANICALLY FASTENED
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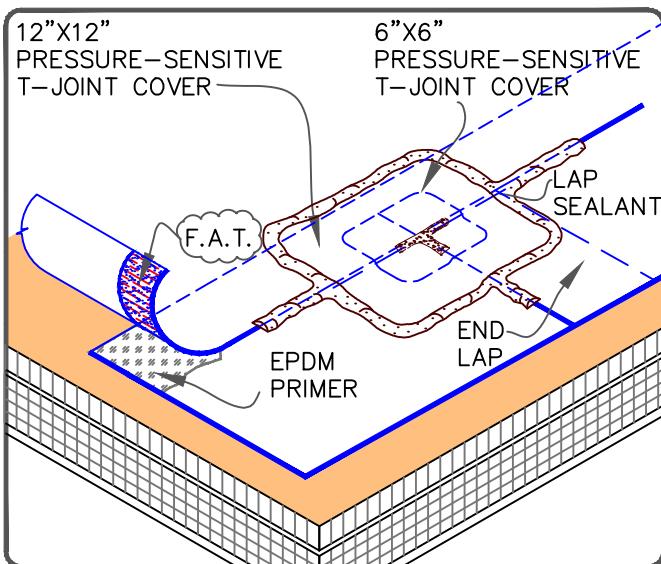
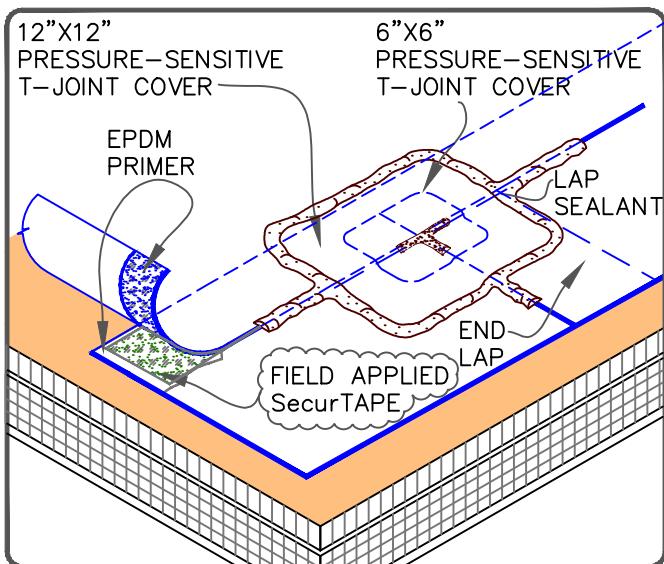
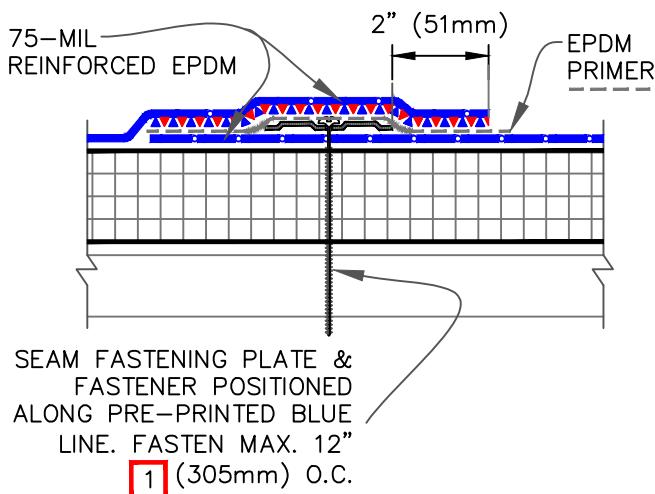
THERMOSET MEMBRANE

EPDM

FIELD APPLIED SecurTAPE



FACTORY APPLIED SecurTAPE



FIELD APPLIED SecurTAPE

F.A.T. (FACTORY APPLIED SecurTAPE)

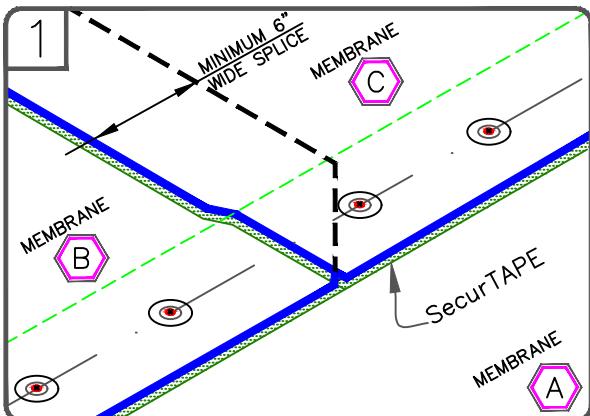
NOTES:

1. FIELD APPLIED SecurTape IS TO BE OVERLAPPED A MINIMUM OF 1" (25mm) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 1/2" (13mm) IN ALL DIRECTIONS AS SHOWN.
2. ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOMER FLASHING. BOTH LAYERS SHALL BE CENTERED OVER THE SPLICE INTERSECTION AND SEALED WITH CONTINUOUS LAP SEALANT.
3. END LAPS SHALL BE SPLICED USING 6" (152mm) WIDE SecurTape.
4. LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.

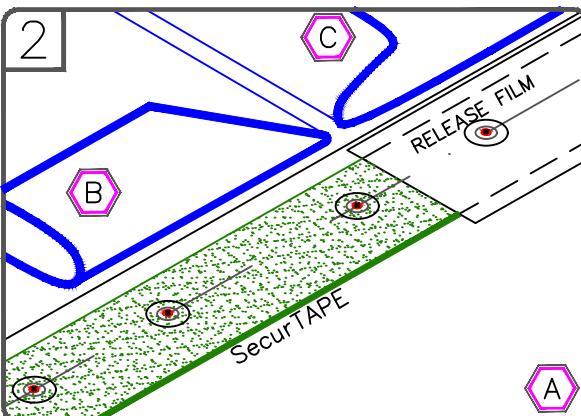
<ul style="list-style-type: none"> REINFORCED EPDM—UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S) 	<p>MEMBRANE SPLICE (25 / 30 YEAR WARRANTIES)</p> <p>For additional information, refer to Specifications</p>	<p>DETAIL NO. MF-2D</p> <p>MECHANICALLY FASTENED</p>
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THERMOSET MEMBRANE

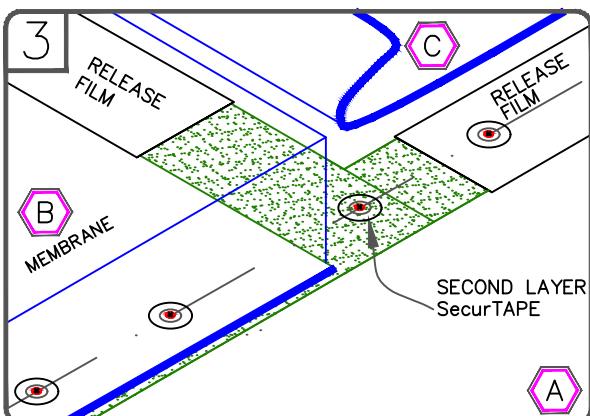
EPDM



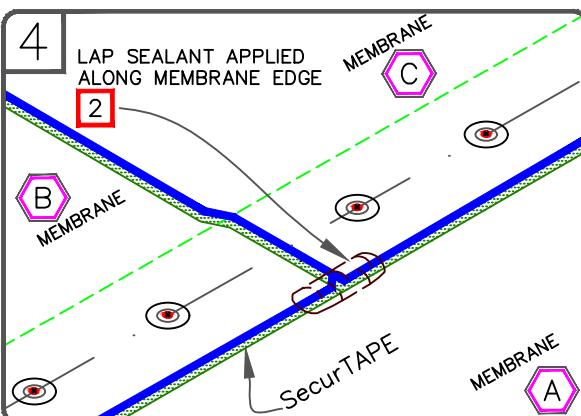
POSITION MEMBRANE TO ALLOW AN APPROXIMATE 3" (76mm) OVERLAP. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER 1/2" (13mm) FROM THE EDGE OF THE TOP SHEET AS SHOWN. THE PRE-MARKED LINE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.



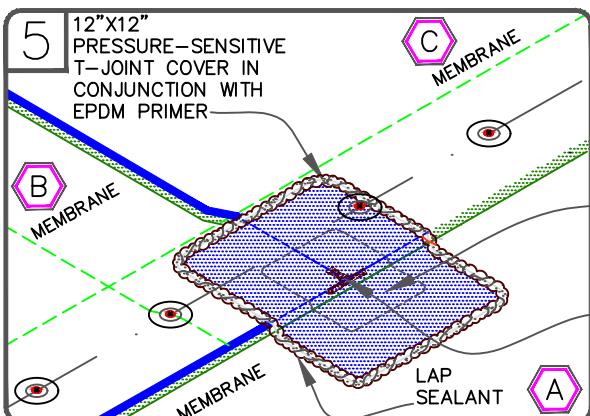
FOLD SHEETS BACK AS SHOWN. APPLY EPDM PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY SecurTape WITH RELEASE FILM ALIGNED WITH MARKER LINE.



SPLICE SHEET B TO SHEET A AND APPLY SECOND PIECE OF SecurTape BETWEEN SHEET B AND C. TRIM RELEASE FILM AS SHOWN.



SPLICE SHEET C TO SHEET A AND B, PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARDS THE OUTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" (51mm) WIDE STEEL ROLLER.

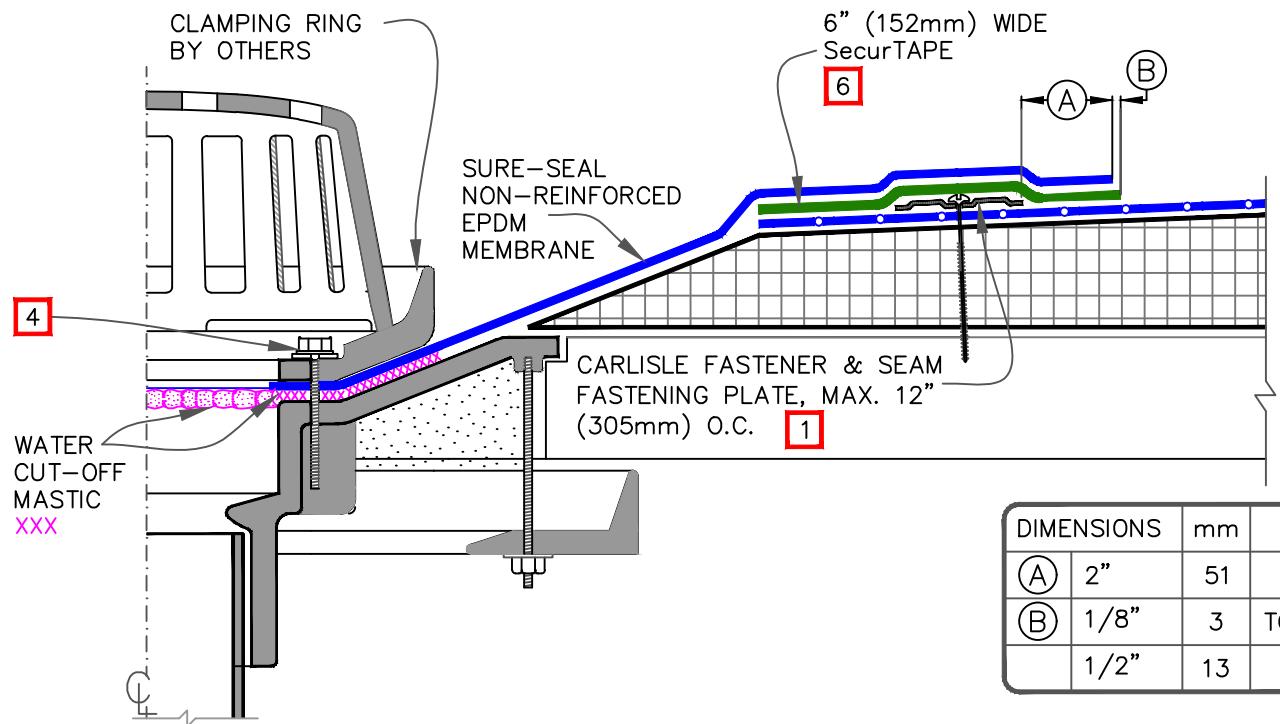


APPLY 6"X6" PRESSURE-SENSITIVE T-JOINT COVER AND 12"X12" PRESSURE-SENSITIVE T-JOINT COVER CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION AS SHOWN.

NOTES:

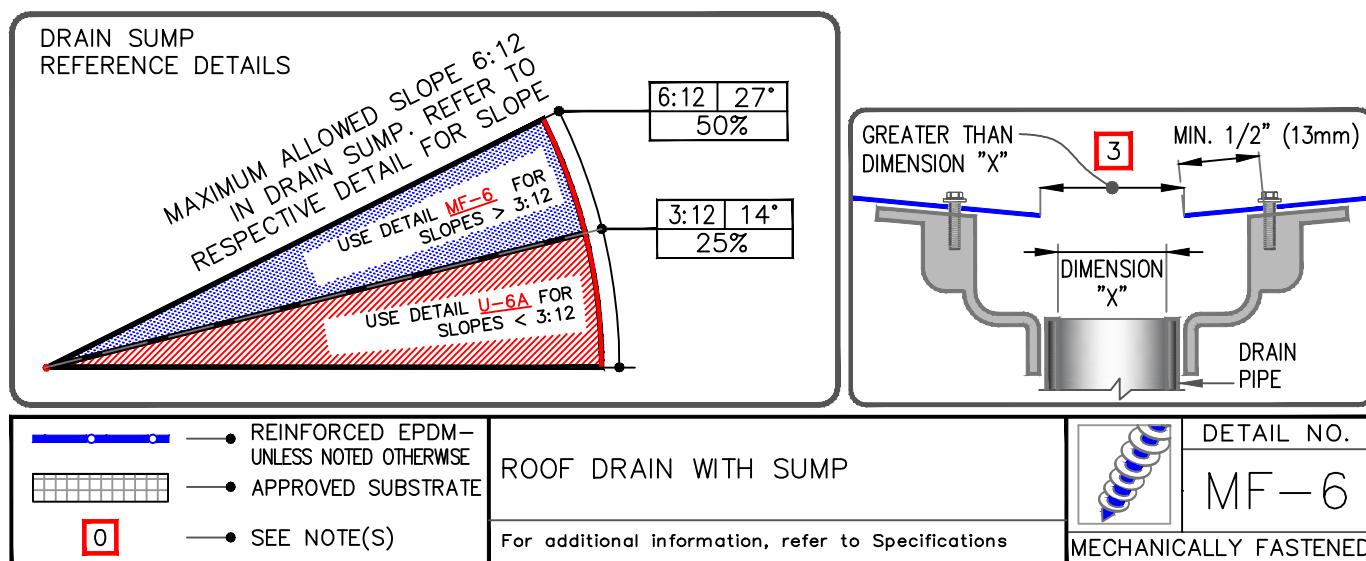
1. APPLY LAP SEALANT AT CUT EDGES OF REINFORCED MEMBRANE.
2. APPLY LAP SEALANT ALONG THE EDGES OF THE MEMBRANE SPLICE COVERING THE EXPOSED SPLICE TPAE 1/2" (13mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION.

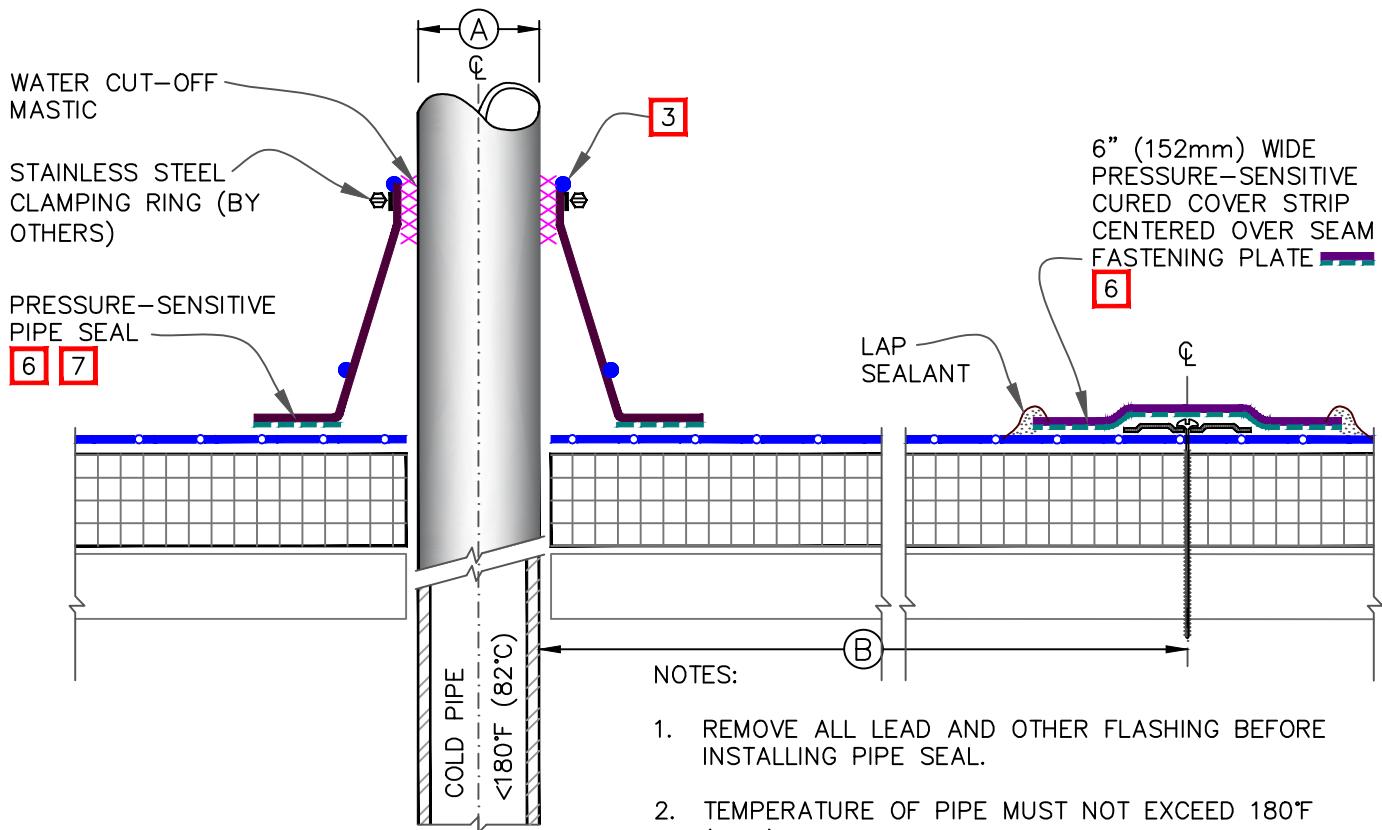
REINFORCED EPDM—UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S)	SecurTape SPLICE INTERSECTION (25 / 30 YEAR WARRANTIES) For additional information, refer to Specifications	DETAIL NO. MF-2E MECHANICALLY FASTENED
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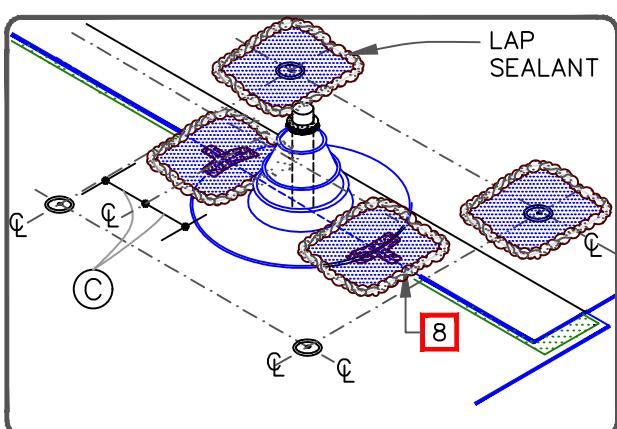
NOTES:

1. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
2. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.
3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (13mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
4. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
5. REMOVE EXISTING LEAD, FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.
6. PRIOR TO INSTALLATION OF SPLICE TAPE, APPLY PRIMER TO SPLICE AREAS.

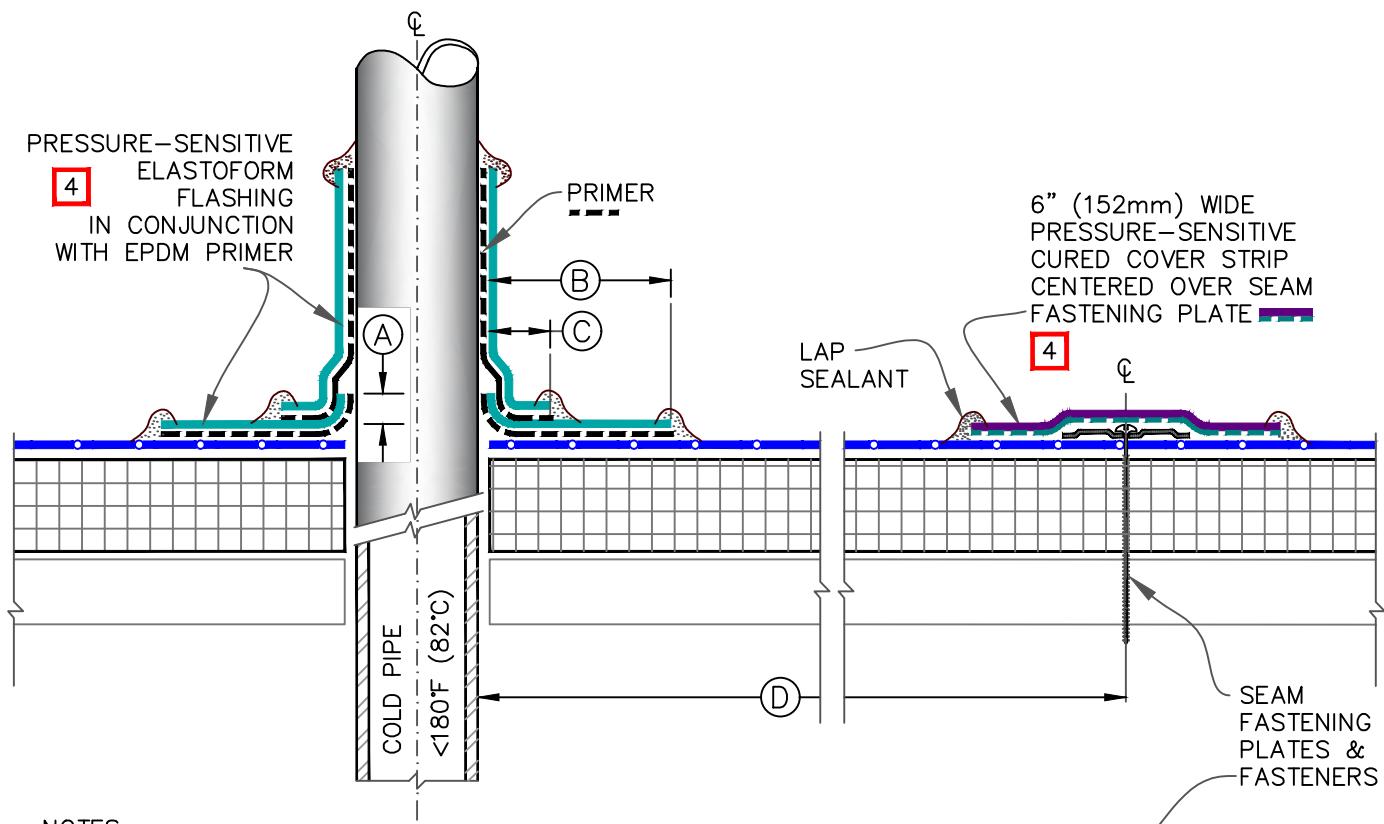




DIMENSIONS	mm	
(A) 1/2"	13	TO
6"	152	
(B) 6"	152	TO
12"	305	
(C) 3"	76	



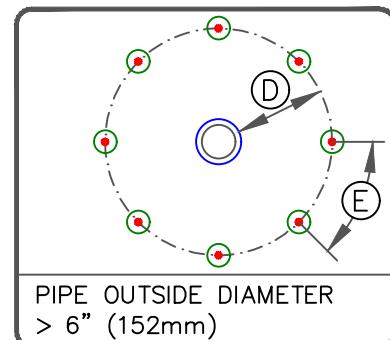
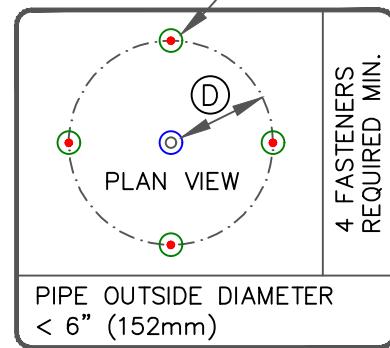
REINFORCED EPDM— UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S)	PRESSURE-SENSITIVE PIPE SEAL <small>For additional information, refer to Specifications</small>	DETAIL NO. MF-8A MECHANICALLY FASTENED
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NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
2. TEMPERATURE OF PIPE MUST NOT EXCEED 180°F (82°C).
3. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
4. EPDM PRIMER MUST BE APPLIED TO THE PIPE & MEMBRANE SURFACE PRIOR TO APPLYING PRESSURE-SENSITIVE CURED COVER STRIP (OVER FASTENING PLATES) AND PRESSURE-SENSITIVE ELASTOFORM FLASHING.

DIMENSIONS	mm
(A)	1/2" 13
(B)	3" 76
(C)	1" 25
(D)	6" 152 T0
	12" 305
(E)	12" 305 MAX.

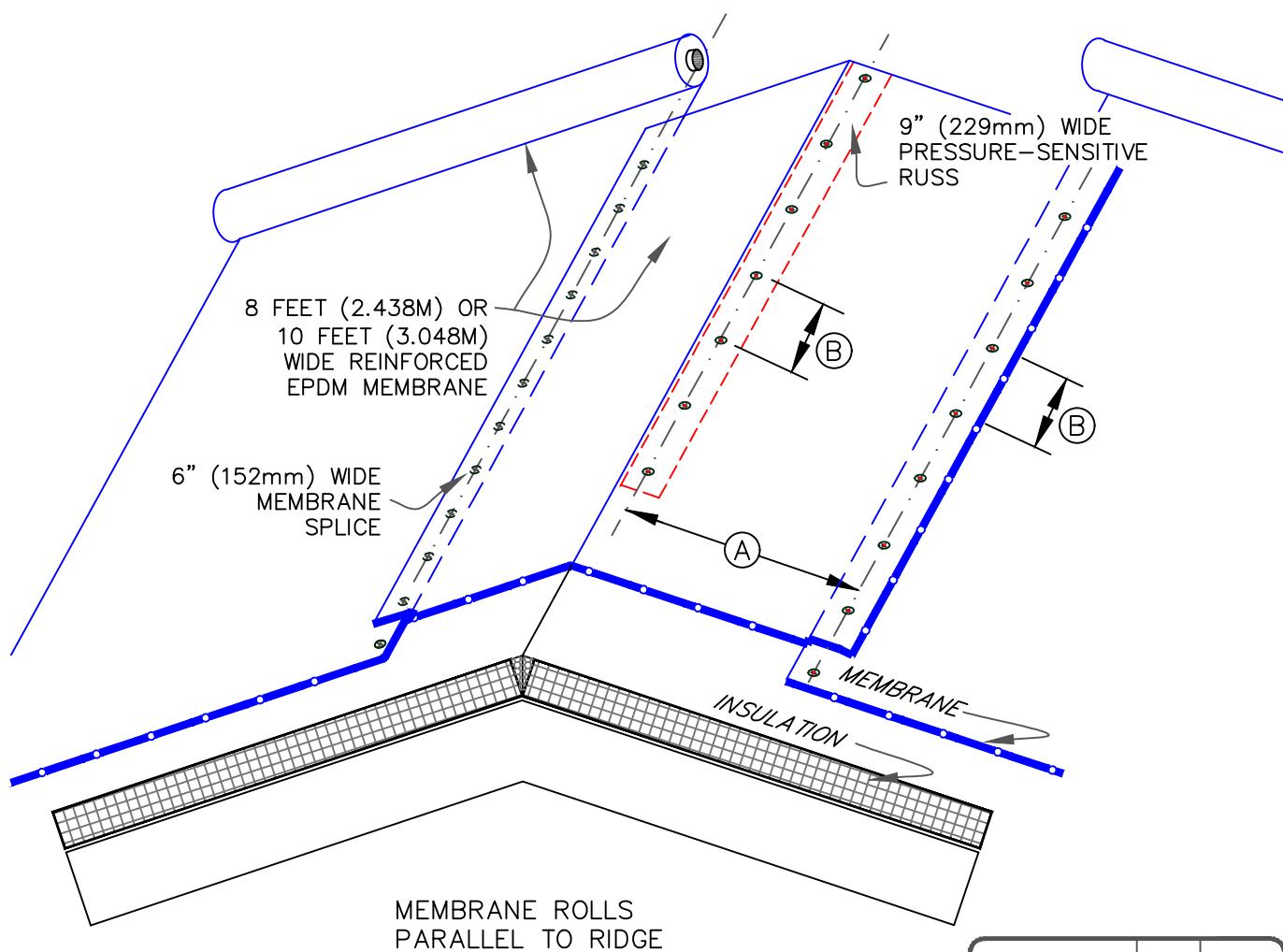


	REINFORCED EPDM— UNLESS NOTED OTHERWISE
	APPROVED SUBSTRATE
0	SEE NOTE(S)

FIELD FABRICATED PIPE SEAL

For additional information, refer to Specifications

	DETAIL NO. MF-8B
	MECHANICALLY FASTENED



DIMENSIONS	mm	
(A)	1067	MIN.
	1371	MAX.
(B)	305	MAX.

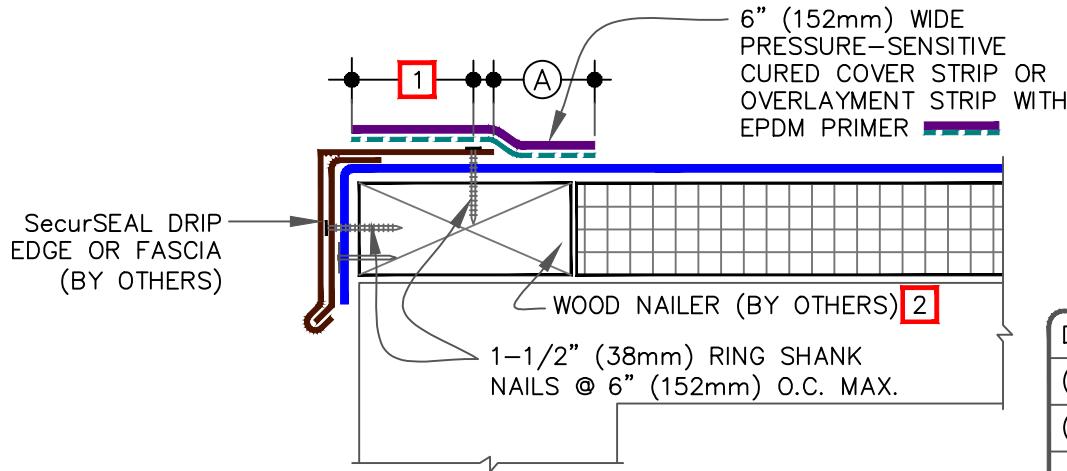
NOTES:

1. RIDGE MEMBRANE ATTACHMENT IS ONLY REQUIRED WHEN ROOF SLOPE EXCEEDS 3" TO THE HORIZONTAL FOOT (75 mm/300 mm).
2. REINFORCED EPDM MEMBRANE SHALL BE INSTALLED PARALLEL WITH RIDGE LINE (WITH MEMBRANE CENTERED OVER THE RIDGE LINE) AS SHOWN.
3. FOR PROPER MEMBRANE ATTACHMENT AND SPLICING, [REFER TO APPLICABLE MF-2 DETAIL](#).
4. REFER TO CARLISLE SPECIFICATIONS FOR REQUIRED NUMBER OF PERIMETER SHEETS, SHEET WIDTH AND MEMBRANE FASTENING DENSITY.
5. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
6. AS AN OPTION, 9" (229mm) WIDE PRESSURE-SENSITIVE RUSS MAY BE USED BENEATH EPDM FIELD SHEETS FOR PERIMETER SECUREMENT.

REINFORCED EPDM— UNLESS NOTED OTHERWISE APPROVED SUBSTRATE SEE NOTE(S)	RIDGE MEMBRANE ATTACHMENT For additional information, refer to Specifications	DETAIL NO. MF-22 MECHANICALLY FASTENED
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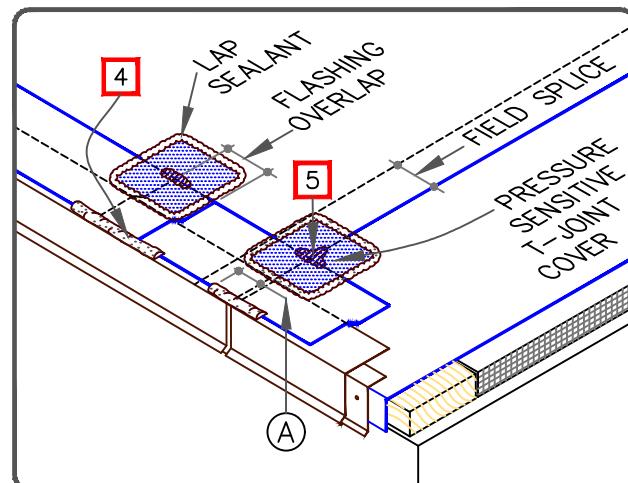
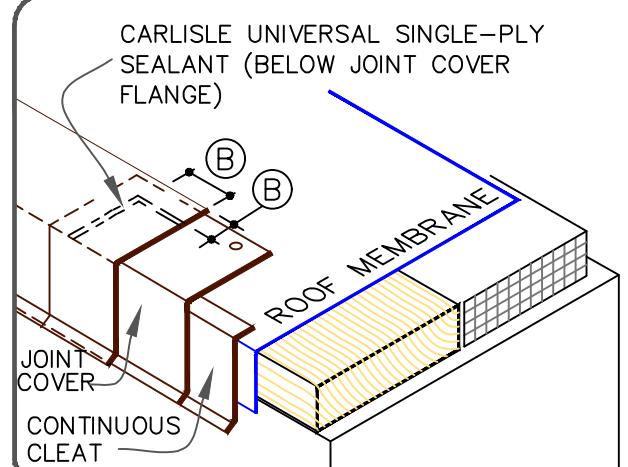
CAUTION

DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS OR WHEN USING 90-MIL MEMBRANE. ACCEPTABLE EDGING SHALL CONFORM TO THERMOSET UNIVERSAL DETAILS U-1A.1, U-1C, U-1D OR U-1E.

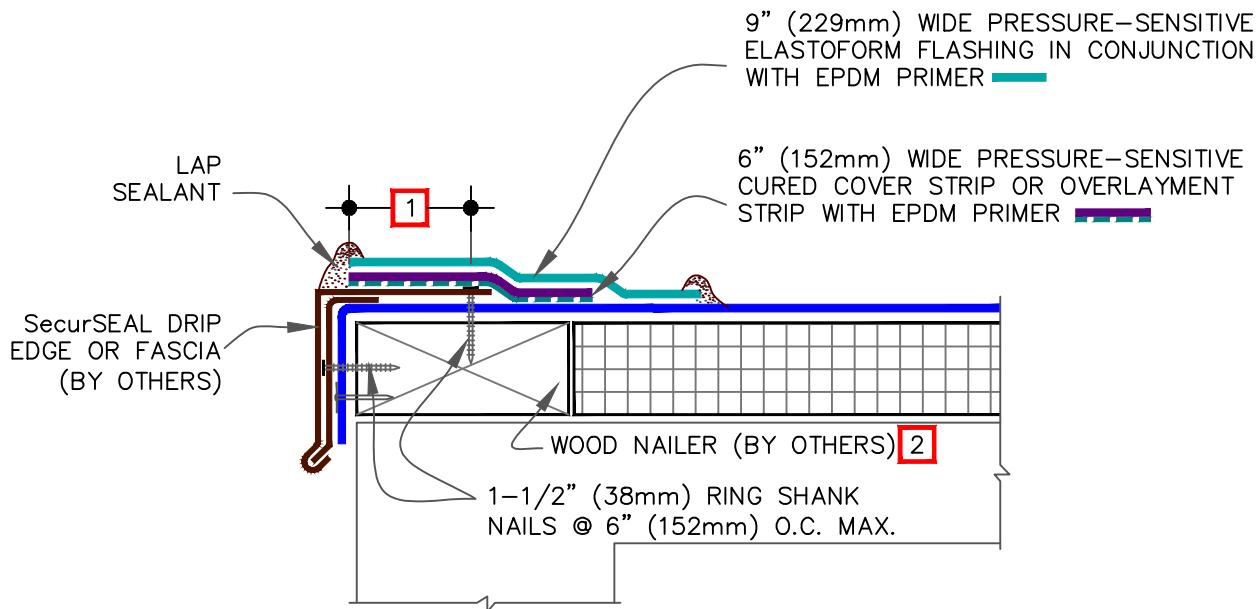


NOTES:

1. DECK FLANGE MUST BE TOTALLY COVERED WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL EDGE.
3. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING PRIMER.
4. LAP SEALANT MUST BE APPLIED AT FLASHING OVERLAPS AND INTERSECTIONS WITH JOINTS IN METAL EDGING.
5. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE 6"X6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION. T-JOINT COVER NOT NEEDED WHEN USING PS OVERLAYMENT STRIP.
6. REFER TO APPLICABLE [CARLISLE METAL EDGING INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
7. DETAIL NOT FOR USE WITH DESIGN "B" (BALLASTED STONE ASSEMBLY).

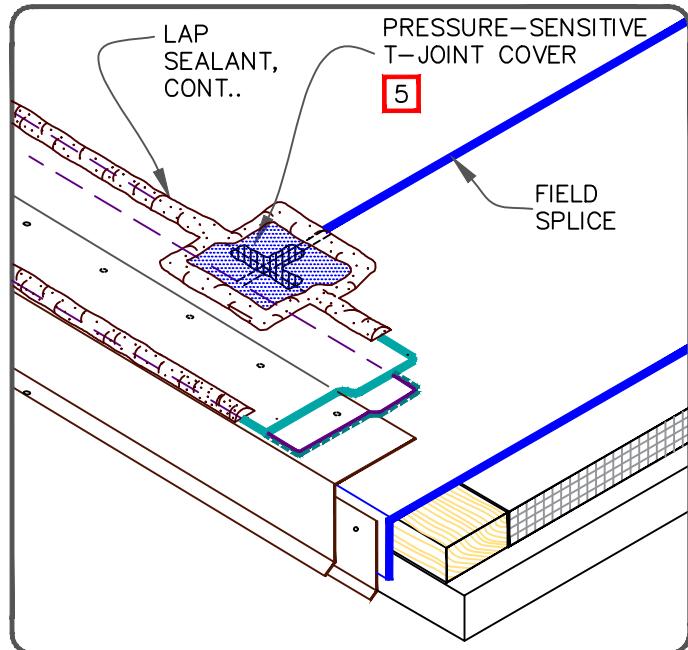


● EPDM	SecurSEAL DRIP EDGE FASCIA	DETAIL NO.
● APPROVED SUBSTRATE	For additional information, refer to Specifications	U-1A
● SEE NOTE(S)		THERMOSET UNIVERSAL



NOTES:

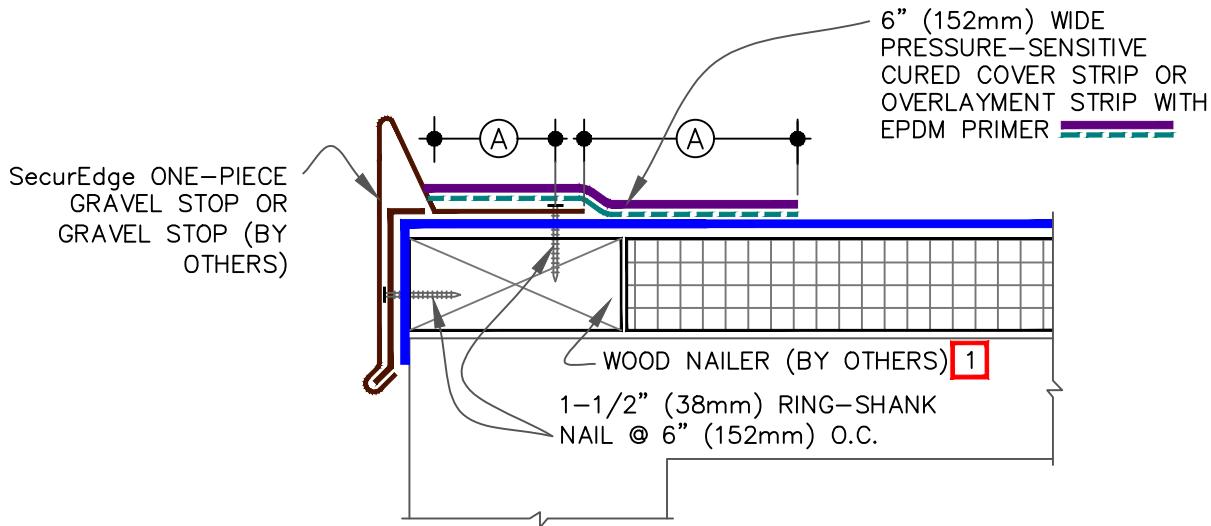
1. DECK FLANGE MUST BE TOTALLY COVERED WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL EDGE.
3. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING PRIMER.
4. LAP SEALANT MUST BE APPLIED AT FLASHING OVERLAPS AND INTERSECTIONS WITH JOINTS IN METAL EDGING.
5. ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH PRESSURE-SENSITIVE T-JOINT COVERS AND SEALED WITH CONTINUOUS LAP SEALANT. PRIOR TO DOING SO, APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE 6"X6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
6. REFER TO APPLICABLE CARLISLE METAL EDGING INSTRUCTION MANUAL FOR STEP-BY-STEP INSTALLATION PROCEDURES.
7. DETAIL NOT FOR USE WITH DESIGN "B" (BALLASTED STONE ASSEMBLY).



● EPDM	SecurSeal DRIP EDGE FASCIA-PROJECTS WITH 90-MIL MEMBRANE OR WARRANTIES GREATER THAN 20-YEAR	DETAIL NO.
● APPROVED SUBSTRATE		U-1A.1
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

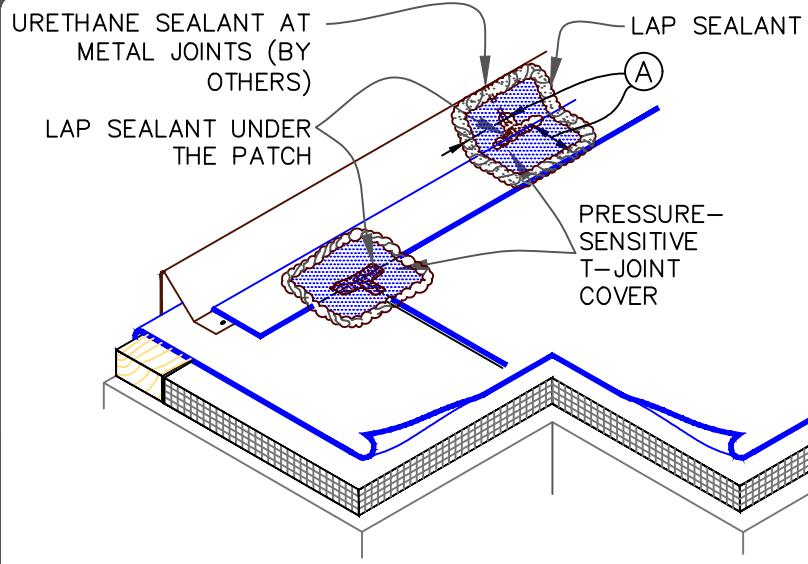
CAUTION

DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS OR WHEN USING 90-MIL MEMBRANE. ACCEPTABLE EDGING SHALL CONFORM TO THERMOSET UNIVERSAL DETAILS U-1A.1, U-1C, U-1D OR U-1E.

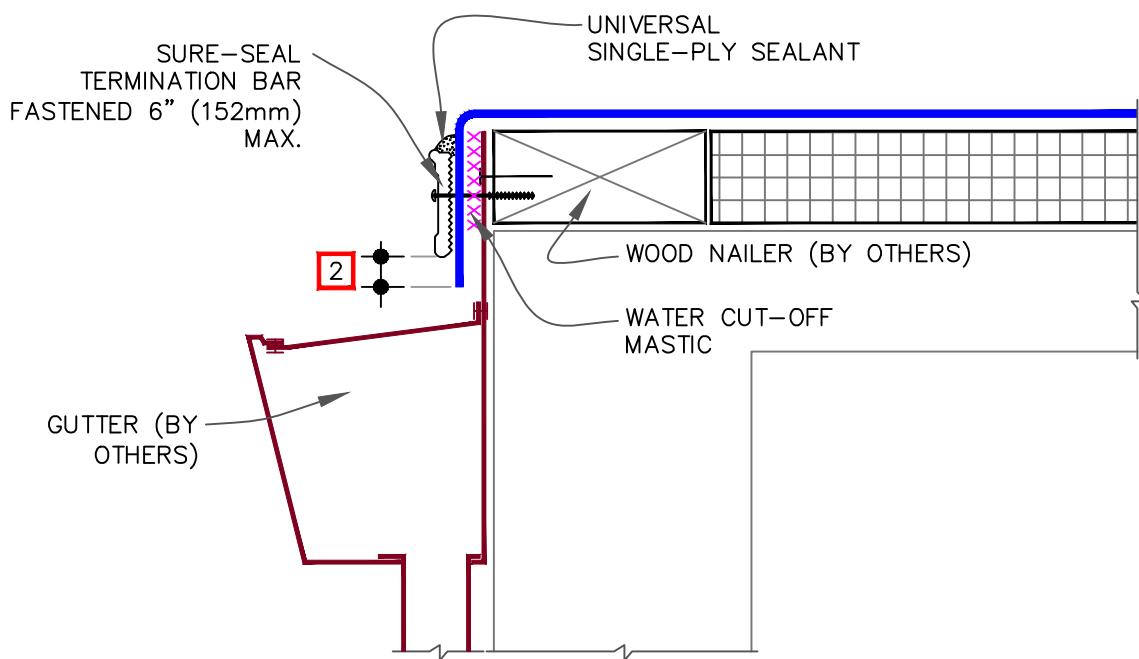
**NOTES:**

1. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP.
2. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING PRIMER.
3. LAP SEALANT MUST BE APPLIED AT FLASHING OVERLAPS AND INTERSECTIONS WITH JOINTS IN METAL EDGING.
4. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE 6"X6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION. T-JOINT COVER NOT NEEDED WHEN USING PS OVERLAYMENT STRIP.
5. REFER TO APPLICABLE [CARLISLE METAL EDGING INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.

DIMENSION	mm		
(A)	2"	51	MIN.

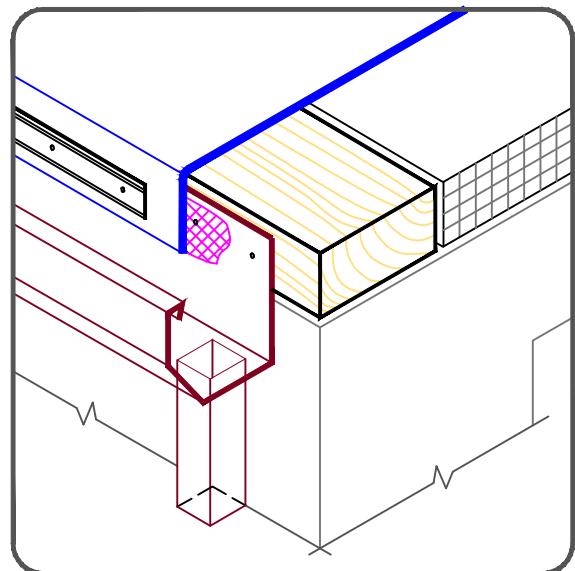


● EPDM	SecurEdge ONE-PIECE GRAVEL STOP	DETAIL NO.
● APPROVED SUBSTRATE		U-1B
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



NOTES:

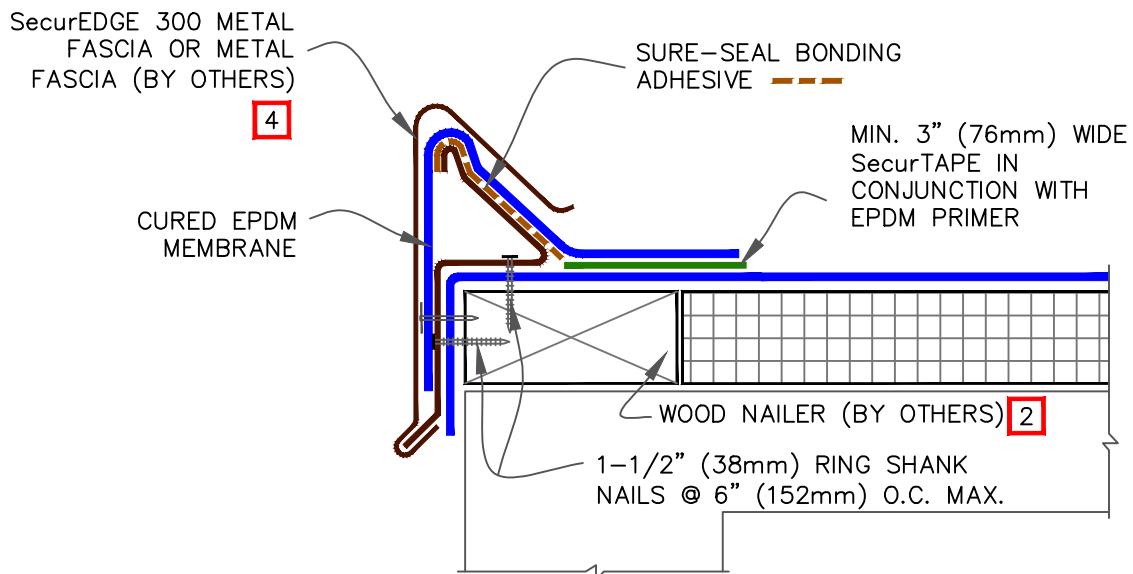
1. FASTENING OF METAL TERMINATION BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
2. ALLOW MEMBRANE SHEET TO EXTEND 1/2" (13mm) MINIMUM BELOW THE METAL TERMINATION BAR.
3. DETAIL NOT FOR USE WITH DESIGN "B" (BALLASTED STONE ASSEMBLY).



	● EPDM		DETAIL NO.
	● APPROVED SUBSTRATE	METAL BAR EDGE TERMINATION	
	● SEE NOTE(S)	For additional information, refer to Specifications	U-1C

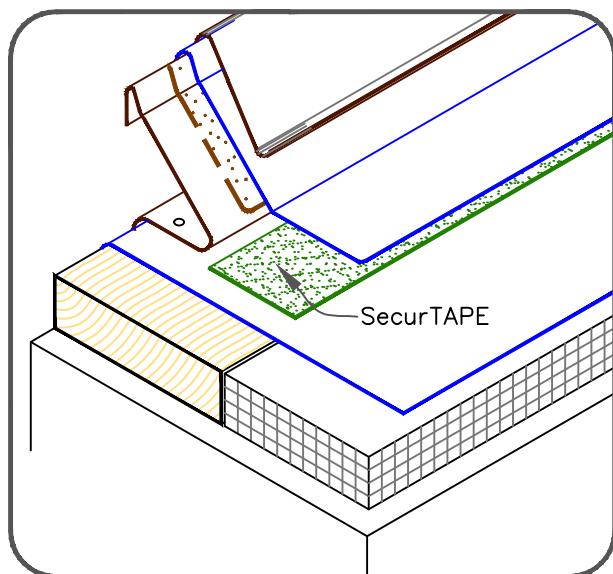
CAUTION

MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE FOR PROJECTS WITH 20, 25 and 30-YEAR WARRANTIES.

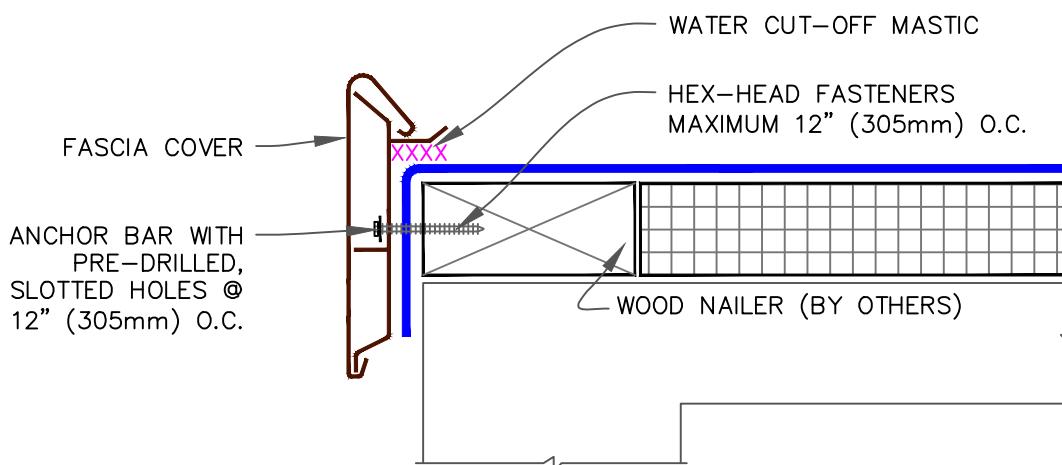


NOTES:

1. REFER TO [SecurEdge 300 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP.
3. PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE PRESSURE-SENSITIVE FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICES AT THE ANGLE CHANGE. PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE REQUIRE FIELD SPLICES TO BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
4. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.

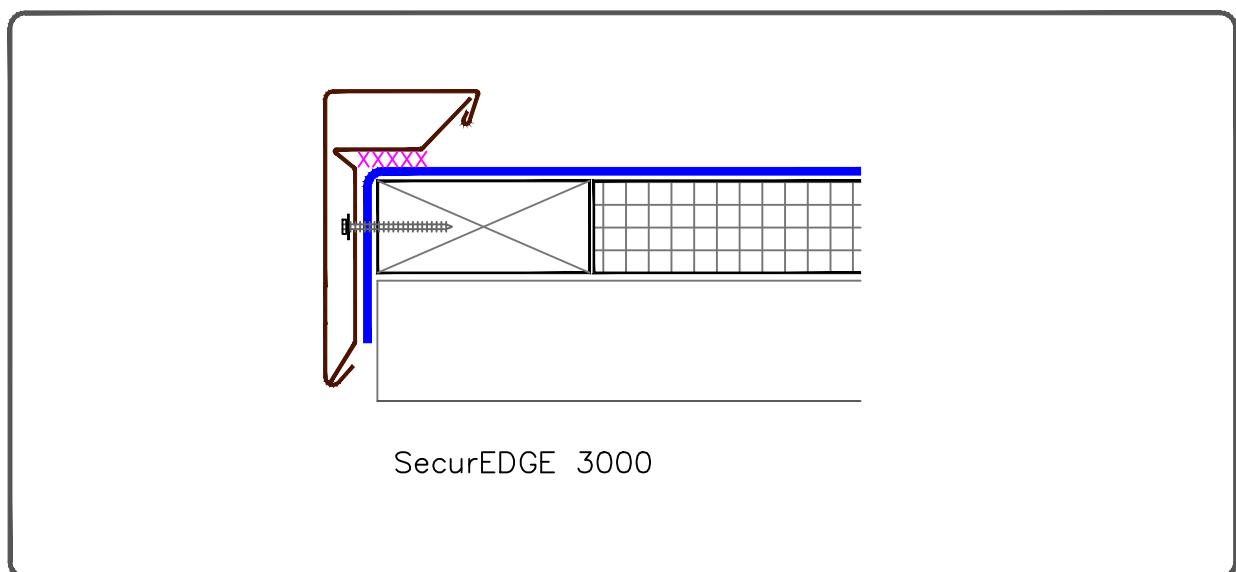


● EPDM	CARLISLE SecurEdge 300	DETAIL NO.
● APPROVED SUBSTRATE		U-1D
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

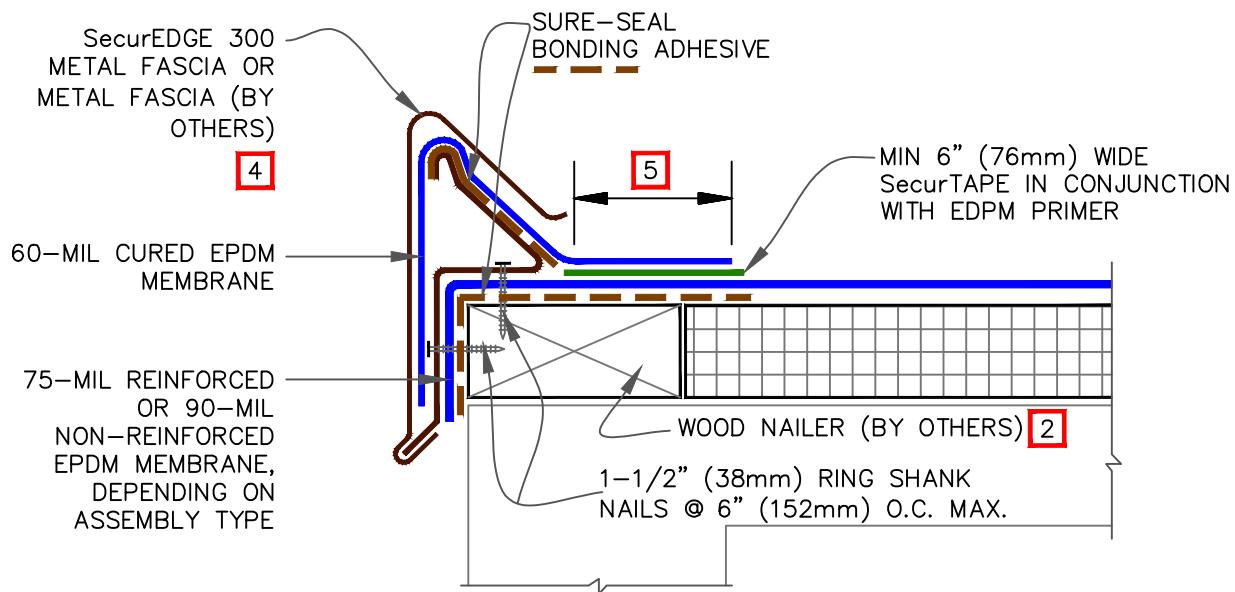
SecurEDGE 2000

NOTES:

1. REFER TO [SecurEdge 2000 OR 3000 INSTRUCTION MANUALS](#) FOR THE STEP BY STEP INSTALLATION PROCEDURES.
2. IF INCIDENTAL/TEMPORARY PONDED WATER IS EXPECTED, THE SecurEdge MUST BE ELEVATED AND SCUPPERS PROVIDED FOR DRAINAGE.
3. ENSURE ROOF SLOPES AWAY FROM SecurEDGE.

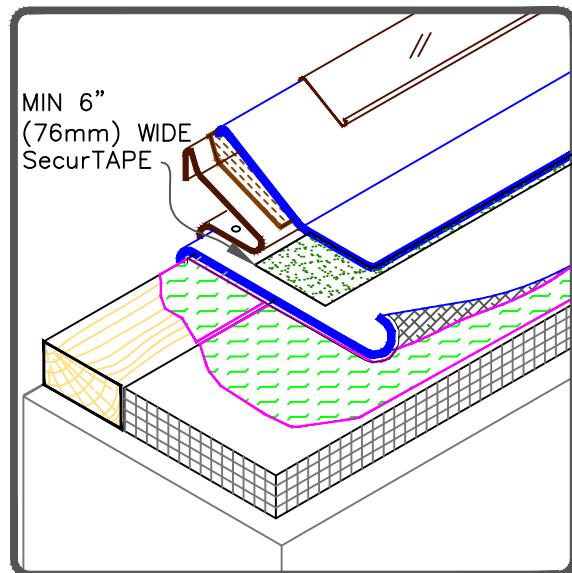
SecurEDGE 3000

● EPDM	CARLISLE SecurEDGE 2000 & 3000	DETAIL NO. U-1E
● APPROVED SUBSTRATE		
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



NOTES:

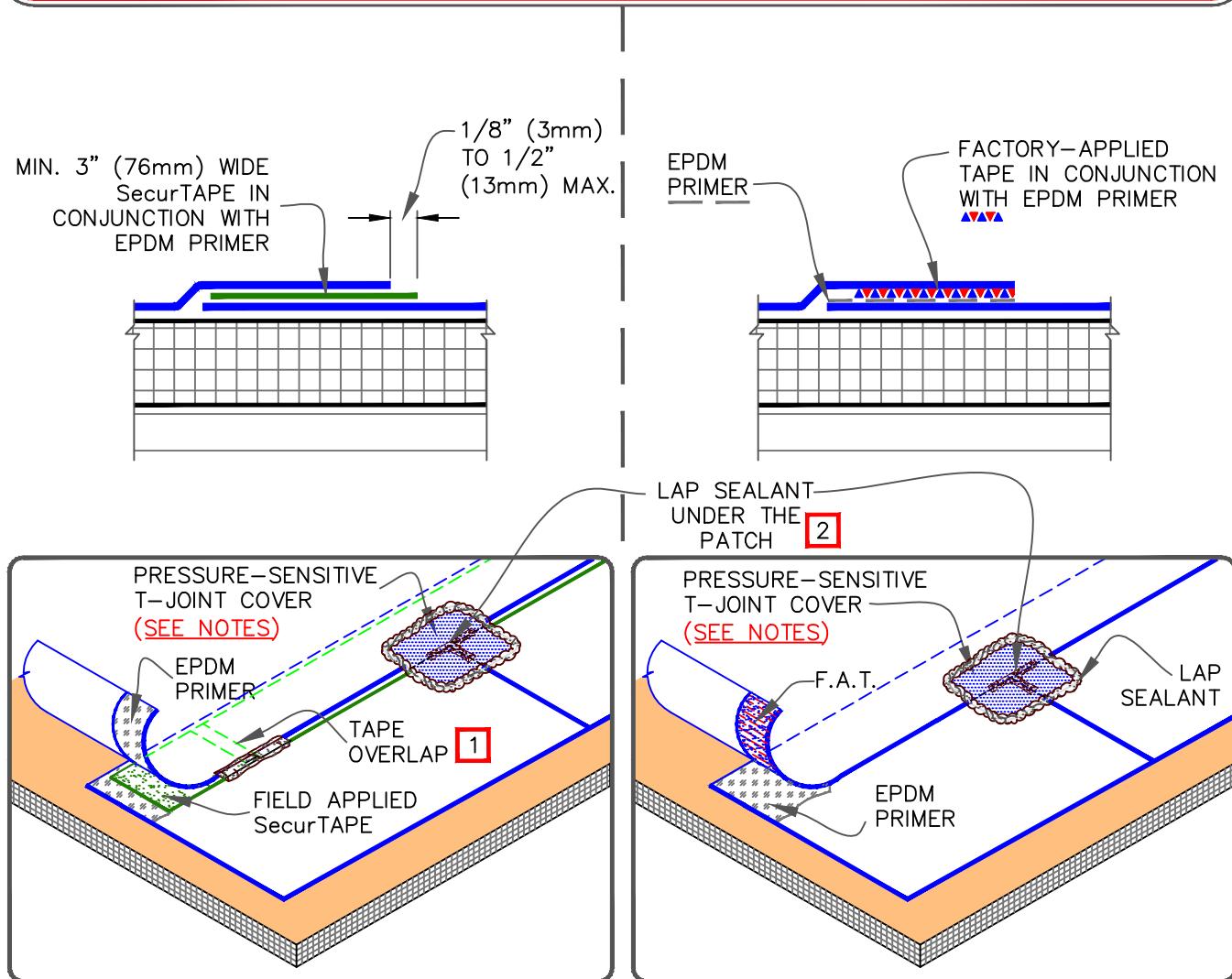
1. REFER TO [SecurEdge 300 INSTALLATION INSTRUCTION MANUAL](#) FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF GRAVEL STOP DECK FLANGE.
3. PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE PRESSURE-SENSITIVE FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER EPDM FIELD SPLICES AT THE ANGLE CHANGE. FIELD SPLICES SHALL BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
4. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.
5. AN AIR/VAPOR BARRIER SHALL BE USED WHEN REQUIRED AND MUST BE SEALED AROUND PERIMETER AND ROOF PENETRATIONS. WHEN NOT SPECIFIED, THE ROOF MEMBRANE SHALL BE ADHERED OVER PERIMETER WOOD NAILER ALONG EDGES TO PREVENT AIR INFILTRATION ALONG EDGING, REGARDLESS OF ASSEMBLY TYPE (BALLASTED, ADHERED AND MECHANICALLY FASTENED).



● EPDM	CARLISLE SecurEdge 300 (25 / 30 YEAR WARRANTIES)	DETAIL NO.
● APPROVED SUBSTRATE		U-1F
[0] ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

PROJECTS WITH 20-YEAR WARRANTIES (MAXIMUM MEMBRANE THICKNESS 75-MIL), TAPE SPLICES MUST BE A MINIMUM 3" WIDE FACTORY-APPLIED TAPE (FAT) OR A MINIMUM OF 6" FIELD APPLIED SecurTAPE. REFER TO [DETAIL U-2A.1](#) FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL MEMBRANE.



NOTES:

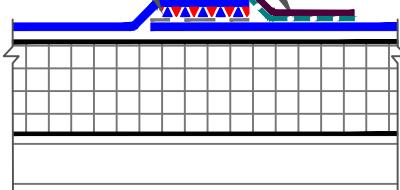
1. FIELD APPLIED SecurTape IS TO BE OVERLAPPED A MINIMUM OF 1" (25mm) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 2" (51mm) IN EACH DIRECTION AS SHOWN.
2. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152mm X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
3. 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MAY ALSO BE CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION.
4. LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.

• EPDM • APPROVED SUBSTRATE 0 • SEE NOTE(S)	EPDM MEMBRANE SPLICES <small>For additional information, refer to Specifications</small>	 DETAIL NO. U-2A THERMOSET UNIVERSAL
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OPTION 1

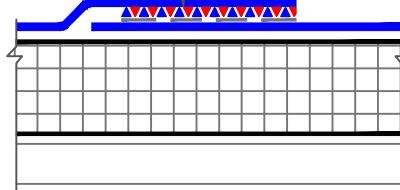
3" (76mm)
WIDEFACTORY-APPLIED
TAPE IN CONJUNCTION
WITH EPDM PRIMER
▲▼

6" (152mm) WIDE
PRESSURE-SENSITIVE
OVERLAYMENT STRIP
1



OPTION 2

6" (152mm) WIDE
FACTORY-APPLIED
TAPE IN CONJUNCTION
WITH EPDM PRIMER ▲▼



PRESSURE-SENSITIVE
OVERLAYMENT STRIP
(SEE NOTES)

F.A.T.

LAP
SEALANTEPDM
PRIMER

PRESSURE-SENSITIVE
T-JOINT COVERS
(SEE NOTE)

EPDM
PRIMER

F.A.T. (FACTORY APPLIED SecurTAPE)

NOTES:

- PROJECTS WITH 25-YEAR WARRANTIES OR PROJECTS WITH 90-MIL EPDM MEMBRANE (REGARDLESS OF WARRANTY), TAPE SPLICES MAY BE A MINIMUM 3" (76mm) WIDE FACTORY APPLIED TAPE (FAT). IN ADDITION, OVERLAY THE ENTIRE FIELD SPLICE WITH A CONTINUOUS 6" (152mm) WIDE PRESSURE-SENSITIVE OVERLAYMENT STRIP.
- APPLY LAP SEALANT AT ALL INTERSECTIONS BETWEEN PRESSURE-SENSITIVE OVERLAYMENT STRIP.

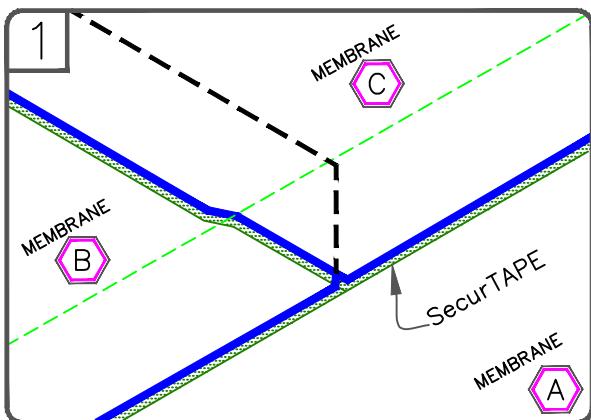
NOTE:

PROJECTS WITH 25-YEAR WARRANTIES OR PROJECTS WITH 90-MIL EPDM MEMBRANE (REGARDLESS OF WARRANTY), TAPE SPLICES MUST BE A MINIMUM 6" (152mm) WIDE FACTORY APPLIED SecurTAPE (F.A.T.). ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"X6" (152mm X 152mm) T-JOINT COVER A SECOND LAYER OF 12"X12" (305mm X 305mm) PRESSURE- SENSITIVE T-JOINT COVER IS REQUIRED. BOTH LAYERS SHALL BE CENTERED OVER THE SPLICE INTERSECTION AND SEALED WITH CONTINUOUS LAP SEALANT.

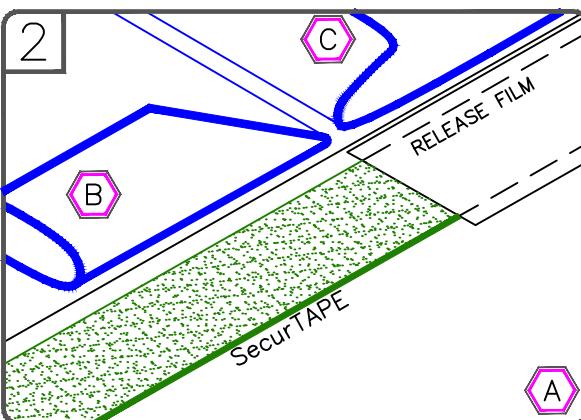
	• EPDM
	• APPROVED SUBSTRATE
0	• SEE NOTE(S)

EPDM MEMBRANE SPLICES- PROJECTS
WITH 90-MIL MEMBRANE OR
WARRANTIES GREATER THAN 20-YEAR
For additional information, refer to Specifications

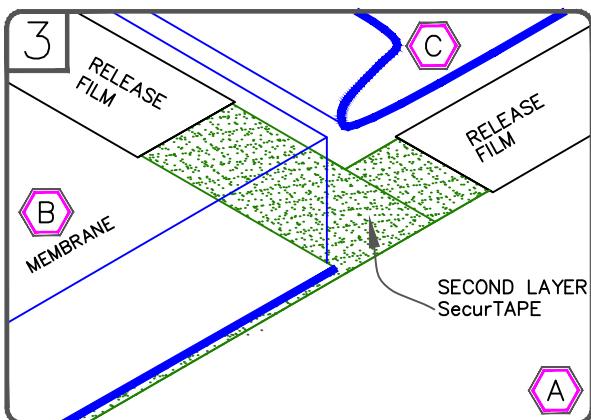
	DETAIL NO. U-2A.1
	THERMOSET UNIVERSAL



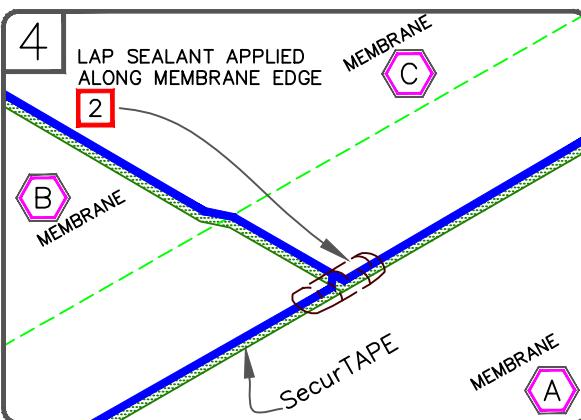
POSITION MEMBRANE TO ALLOW AN APPROXIMATE 3" (76mm) OVERLAP. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER 1/2" (13mm) FROM THE EDGE OF THE TOP SHEET AS SHOWN. THE PRE-MARKED LINE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.



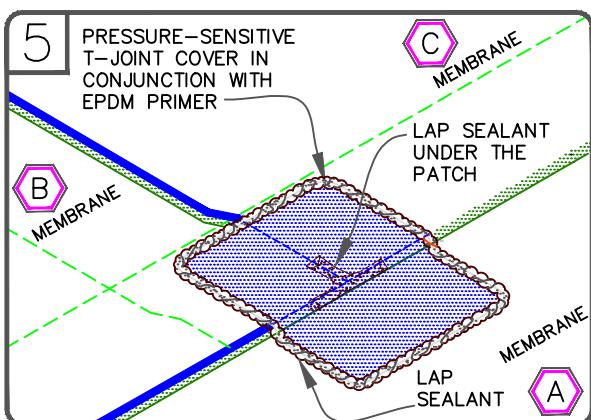
FOLD SHEETS BACK AS SHOWN. APPLY EPDM PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY SecurTape WITH RELEASE FILM ALIGNED WITH MARKER LINE.



SPLICE SHEET B TO SHEET A AND APPLY SECOND PIECE OF SecurTape BETWEEN SHEET B AND C. TRIM RELEASE FILM AS SHOWN.



SPLICE SHEET C TO SHEET A AND B, PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARDS THE OUTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" (51mm) WIDE STEEL ROLLER.



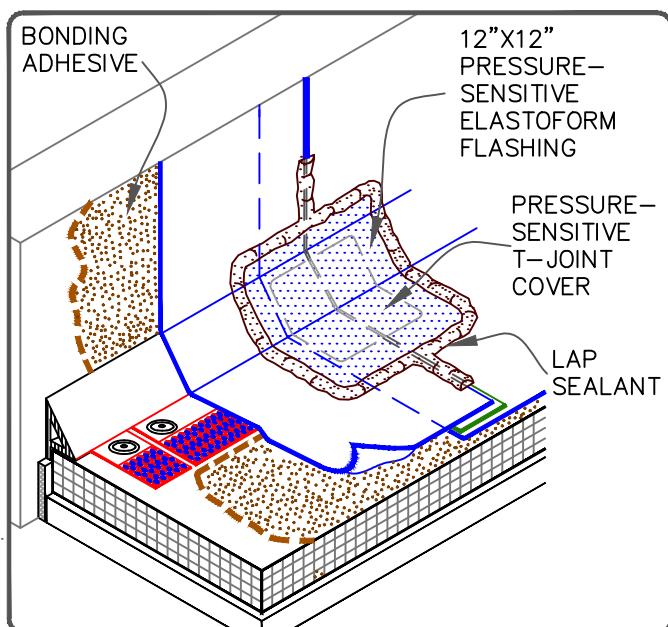
APPLY PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION AS SHOWN.

NOTES:

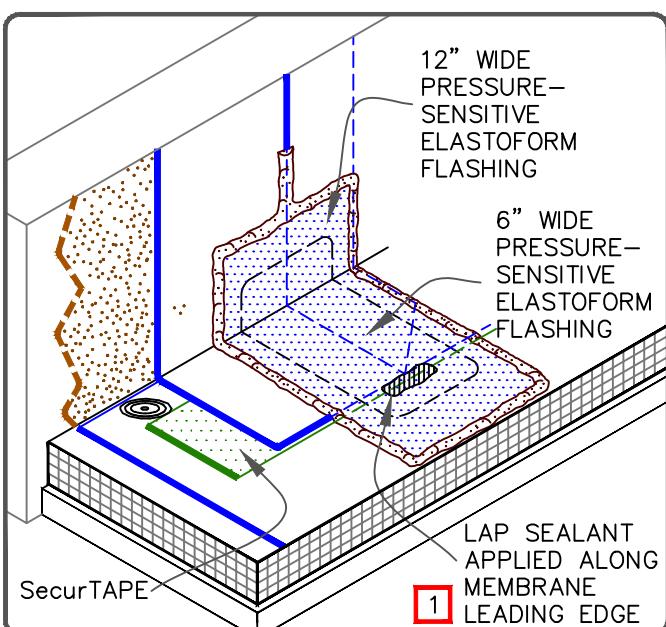
1. THE USE OF LAP SEALANT ALONG ENTIRE SPLICE EDGE IS OPTIONAL, EXCEPT AT CUT EDGES OF REINFORCED MEMBRANE AND TAPE OVERLAPS. REFER TO [DETAIL U-2A](#).
2. APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152mm X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION.
3. REFER TO [DETAIL U-2A.1](#) FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL MEMBRANE.

● EPDM ● APPROVED SUBSTRATE ○ SEE NOTE(S)	SecurTape SPLICE INTERSECTION <small>For additional information, refer to Specifications</small>	 DETAIL NO. U-2B <small>THERMOSET UNIVERSAL</small>
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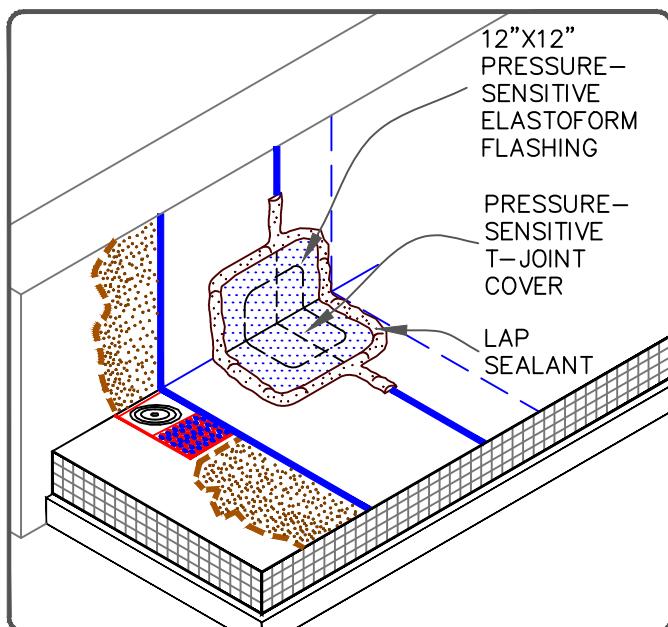
CONTINUOUS WALL FLASHING



SEPARATE WALL FLASHING



CONTINUOUS WALL FLASHING



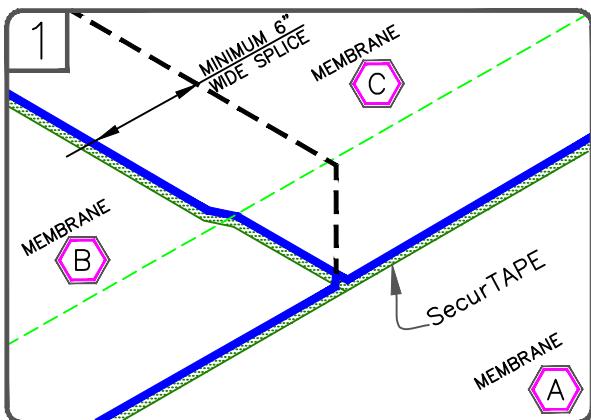
NOTES:

1. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE PRESSURE-SENSITIVE ELASTOFORM FLASHING) COVERING THE EXPOSED SPLICE TAPE APPROXIMATELY 1/2" (13mm) BEYOND THE SPLICE EDGE.
2. PRESSURE-SENSITIVE T-JOINT COVER OR 6" (152mm) WIDE PRESSURE-SENSITIVE FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICES AT THE ANGLE CHANGE. PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE REQUIRE FIELD SPLICES TO BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.

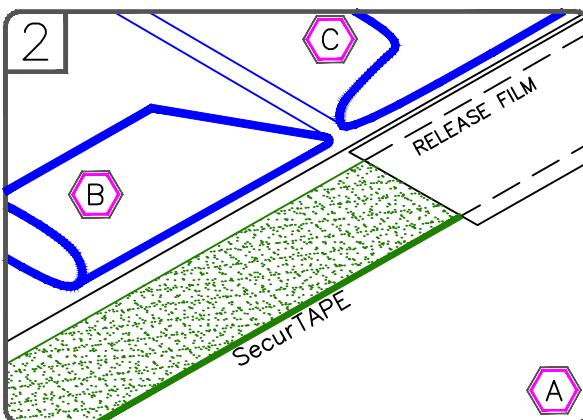
● EPDM	EPDM MEMBRANE SPLICES AT ANGLE CHANGE	DETAIL NO.
● APPROVED SUBSTRATE		U-2C
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

THERMOSET MEMBRANE

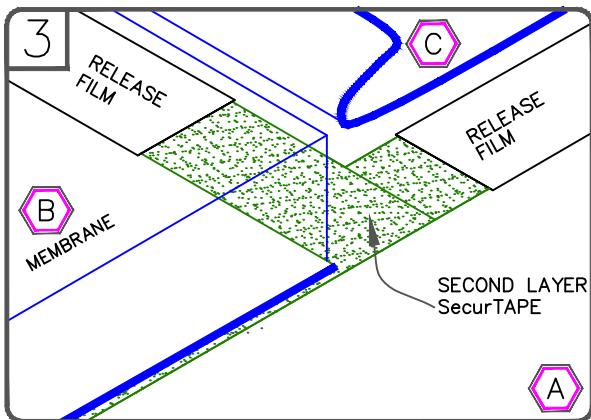
EPDM



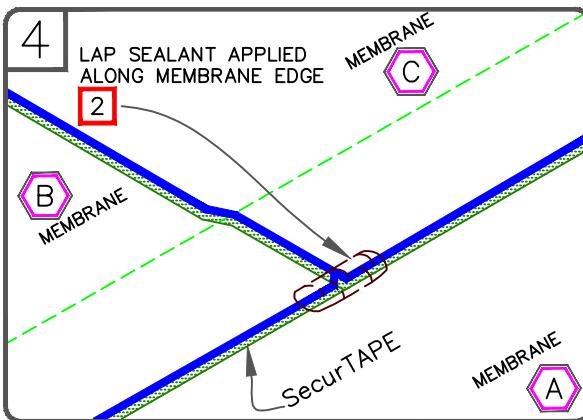
POSITION MEMBRANE TO ALLOW AN APPROXIMATE 3" (76mm) OVERLAP. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER 1/2" (13mm) FROM THE EDGE OF THE TOP SHEET AS SHOWN. THE PRE-MARKED LINE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.



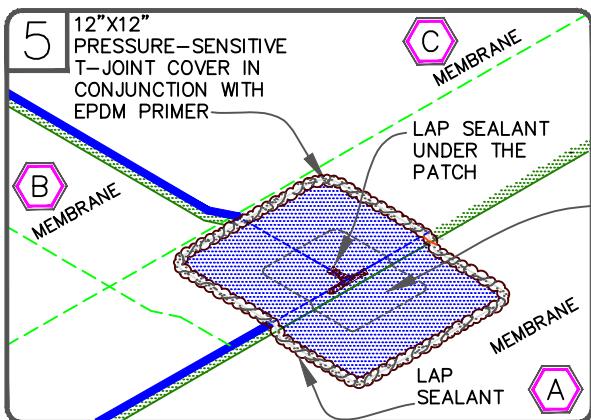
FOLD SHEETS BACK AS SHOWN. APPLY EPDM PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY SecurTAPE WITH RELEASE FILM ALIGNED WITH MARKER LINE.



SPLICE SHEET B TO SHEET A AND APPLY SECOND PIECE OF SecurTape BETWEEN SHEET B AND C. TRIM RELEASE FILM AS SHOWN.



SPLICE SHEET C TO SHEET A AND B, PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARDS THE OUTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" (51mm) WIDE STEEL ROLLER.

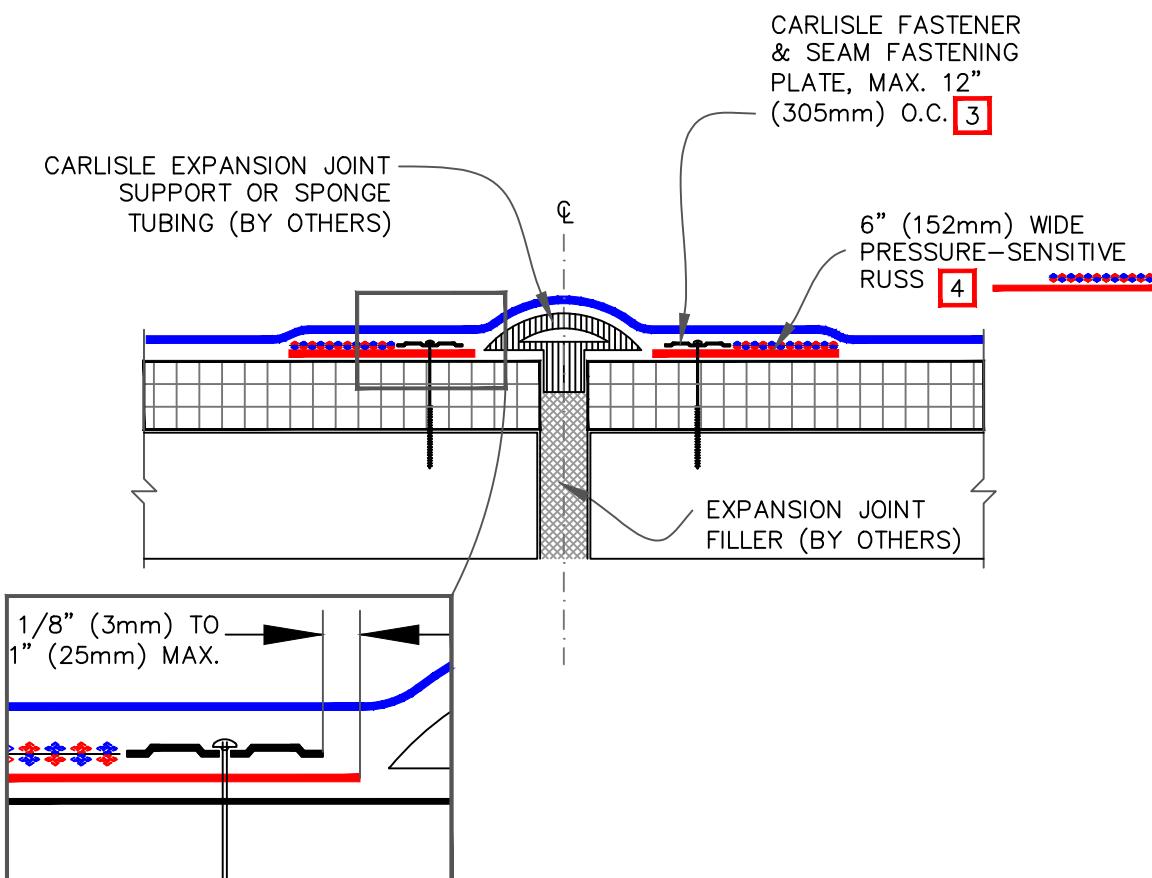


APPLY 6"X6" PRESSURE-SENSITIVE T-JOINT COVER AND 12"X12" PRESSURE-SENSITIVE T-JOINT COVER CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION AS SHOWN.

NOTES:

1. APPLY LAP SEALANT AT CUT EDGES OF REINFORCED MEMBRANE.
2. APPLY LAP SEALANT ALONG THE EDGES OF THE MEMBRANE SPLICE COVERING THE EXPOSED SPLICE TPAE 1/2" (13mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION.

● EPDM ● APPROVED SUBSTRATE ● SEE NOTE(S)	SecurTAPE SPLICE INTERSECTION (25 / 30 YEAR WARRANTIES) For additional information, refer to Specifications	 DETAIL NO. U-2D THERMOSET UNIVERSAL
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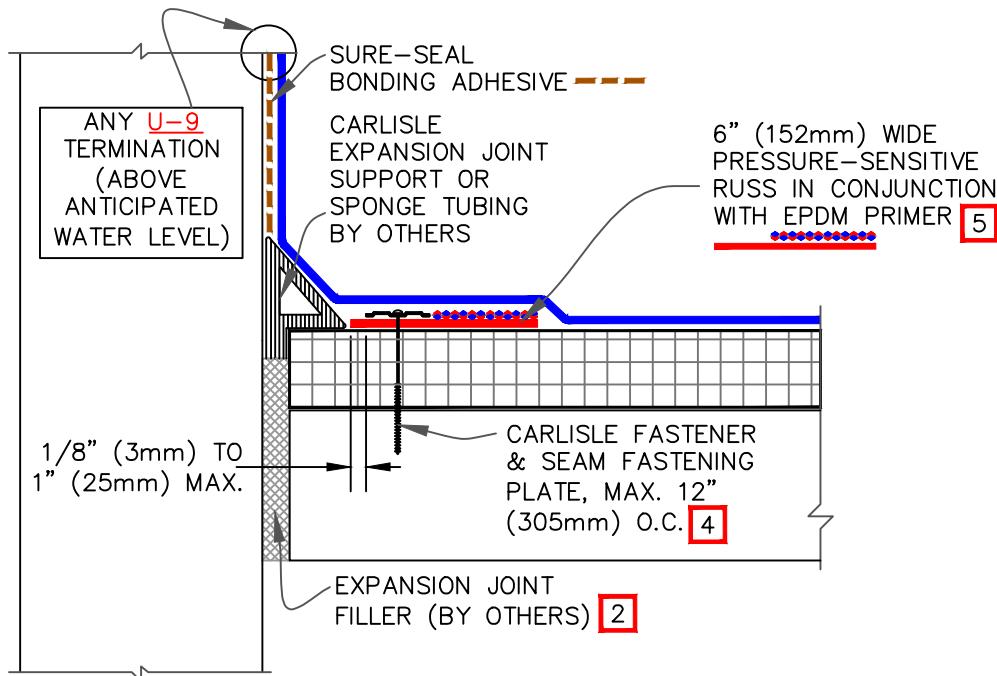
NOTES:

1. FOR EXPANSION JOINT INTERSECTIONS AND INTERSECTIONS BETWEEN EXPANSION JOINTS TO WALL OR EDGING, USE TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING WITH SECOND LAYER 3" (76mm) LARGER THAN PREVIOUS LAYER IN ALL DIRECTIONS.
2. WIDTH OF JOINT SHALL BE A MINIMUM OF 3/4" (19mm) AND SHALL NOT EXCEED 3" (76mm) WHEN CARLISLE EXPANSION JOINT SUPPORT IS USED.
3. ON MECHANICALLY FASTENED SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
4. EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.

● EPDM	DECK-TO-DECK EXPANSION JOINT	DETAIL NO.
● APPROVED SUBSTRATE	For additional information, refer to Specifications	U-3A
● SEE NOTE(S)		THERMOSET UNIVERSAL

CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER FOR ADHERED MEMBRANE ASSEMBLIES.



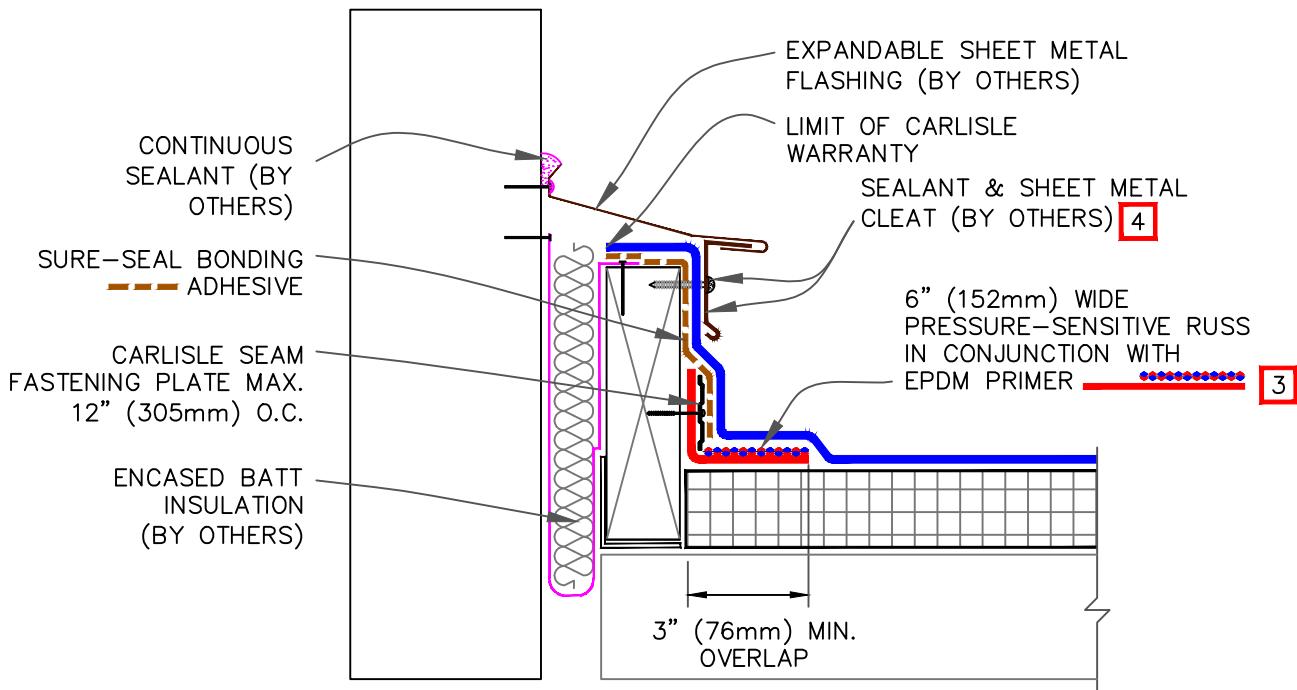
NOTES:

1. ALL OUTSIDE AND INSIDE CORNERS REQUIRE TWO COMPLETE CORNER APPLICATIONS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING AS PER [DETAILS U-15](#).
2. WIDTH OF JOINT SHALL BE A MINIMUM OF 3/4" (19mm) AND SHALL NOT EXCEED 2" (51mm) WHEN CARLISLE EXPANSION JOINT SUPPORT IS USED.
3. ALL VERTICAL FIELD SPLICES AT THE BASE OF A WALL OR CURB MUST BE OVERLAIDED WITH A PRESSURE-SENSITIVE T-JOINT COVER OR A 6"X6" (152mm X 152mm) SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING CENTERED OVER THE FIELD SPLICE. PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL VERTICAL SPLICES MUST BE OVERLAIDED WITH A T-JOINT COVER AND COVERED WITH A 12"X12" (305mm x 305mm) PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE OR T-JOINT COVER. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT. REFER TO [DETAIL U-2C](#).
4. ON MECHANICALLY FASTENED SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
5. EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.

● EPDM	DECK-TO-WALL EXPANSION JOINT	DETAIL NO.
● APPROVED SUBSTRATE		 U-3B
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER FOR ADHERED MEMBRANE ASSEMBLIES.



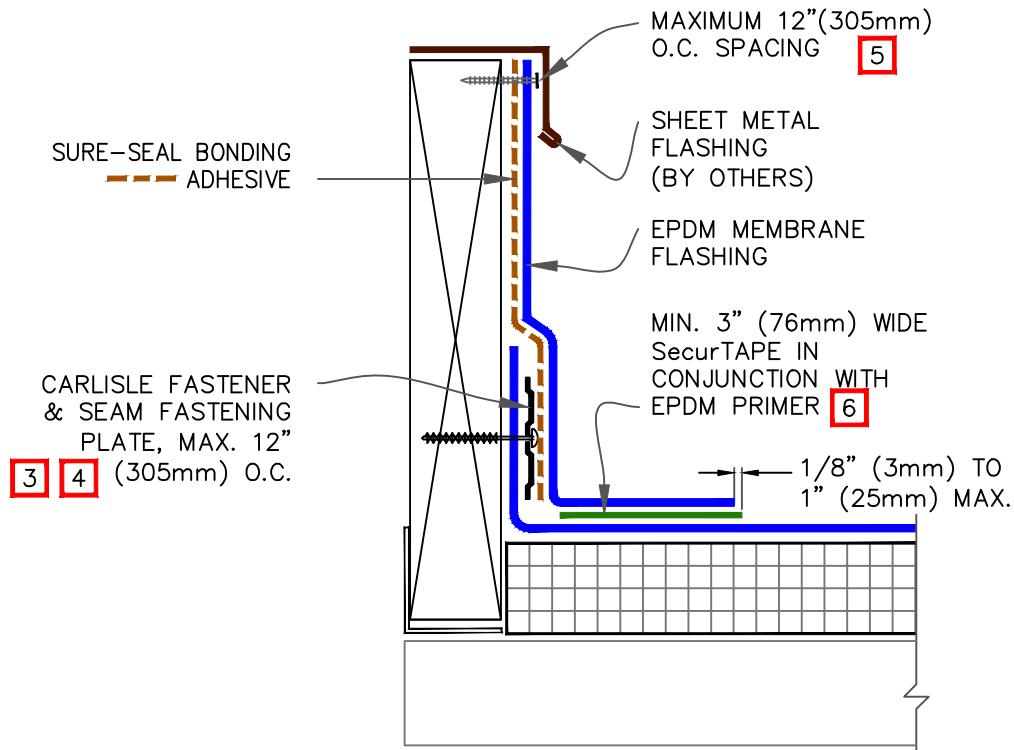
NOTES:

- PRESSURE-SENSITIVE RUSS MAY BE INSTALLED INTO THE STRUCTURAL DECK. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
- ALL VERTICAL FIELD SPLICES AT THE BASE OF A WALL OR CURB MUST BE OVERLAIDED WITH A PRESSURE-SENSITIVE T-JOINT COVER OR A 6"X6" (152mm X 152mm) SECTION OF PRESSURE-SENSITIVE ELASTOFORM FLASHING CENTERED OVER THE FIELD SPLICE. PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL VERTICAL SPLICES MUST BE OVERLAIDED WITH A T-JOINT COVER AND COVERED WITH A 12"X12" (305mm X 305mm) PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE OR T-JOINT COVER. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT. REFER TO [DETAIL U-2C](#).
- EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.
- WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.
- WHEN THE USE OF PRESSURE-SENSITIVE RUSS AND CONTINUOUS MEMBRANE IS NOT FEASIBLE, ACCEPTABLE FLASHING SHALL CONFORM TO THERMOSET UNIVERSAL [DETAIL U-12C](#).

● EPDM	SHEAR/EXPANSION COVER	DETAIL NO.
● APPROVED SUBSTRATE		U-3C
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

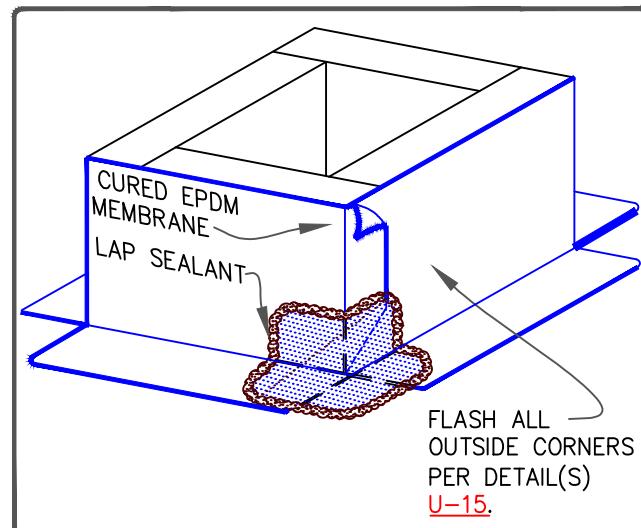
CAUTION

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-15H](#) FOR REQUIRED CORNER ENHANCEMENTS.



NOTES:

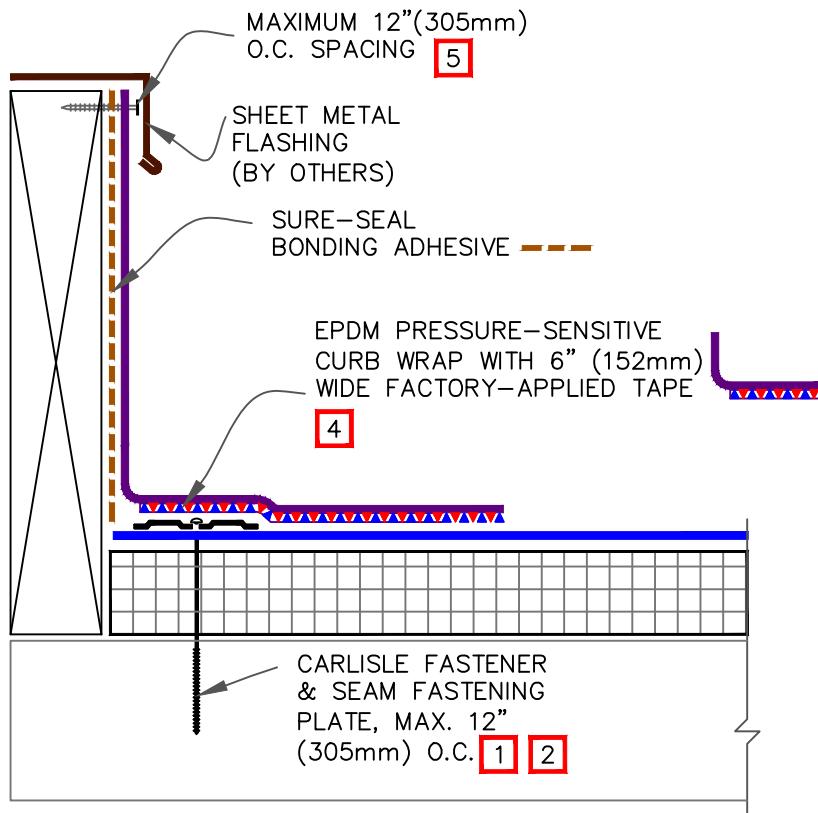
1. IF THE VERTICAL SPLICE ON THE CURB FLASHING IS NOT LOCATED AT THE CORNER, 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM OR T-JOINT FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
2. LAP SEALANT IS REQUIRED ON CUT-EDGES OF REINFORCED MEMBRANE.
3. SEAM FASTENING PLATES/FASTENERS MAY BE INSTALLED INTO THE STRUCTURAL DECK.
4. WHEN SEAM FASTENING PLATES/FASTENERS ARE INSTALLED HORIZONTALLY, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED FOR MECHANICALLY-FASTENED ROOFING SYSTEMS OVER STEEL DECKS.
5. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.
6. MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE FOR PROJECTS WITH 20, 25 and 30-YEAR WARRANTIES.



● EPDM	CURB FLASHINGS	DETAIL NO.
● APPROVED SUBSTRATE		U-5A
[0] ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

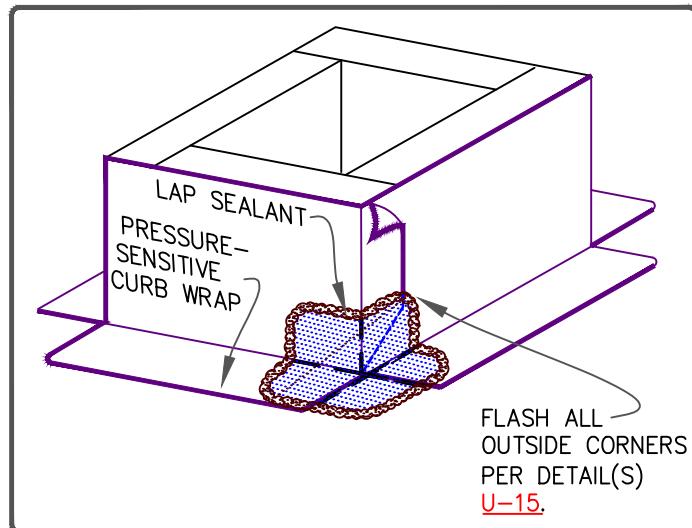
CAUTION

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-15H](#) FOR REQUIRED CORNER ENHANCEMENTS.



NOTES:

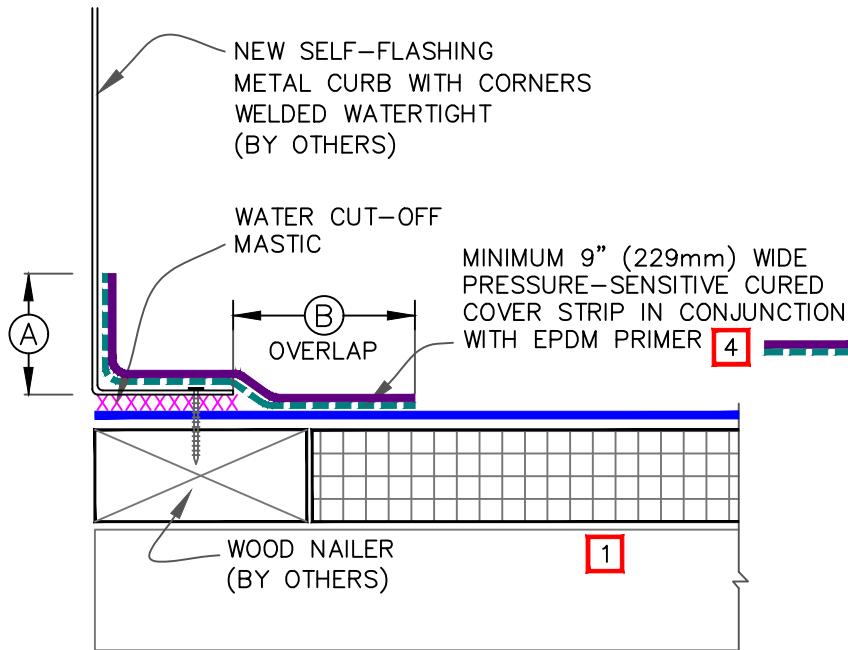
1. ON MECHANICALLY FASTENED ROOFING SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
2. SEAM FASTENING PLATES/FASTENERS MAY BE INSTALLED INTO THE VERTICAL SUBSTRATE.
3. IF THE VERTICAL SPLICING ON THE CURB FLASHING IS NOT LOCATED AT THE CORNER, 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM OR T-JOINT FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
4. PRIOR TO THE INSTALLATION OF PRESSURE-SENSITIVE CURB WRAP, APPLY EPDM PRIMER TO SPLICE AREA.
5. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.



● EPDM	PRESSURE-SENSITIVE CURB WRAP	DETAIL NO.
● APPROVED SUBSTRATE		U-5B
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

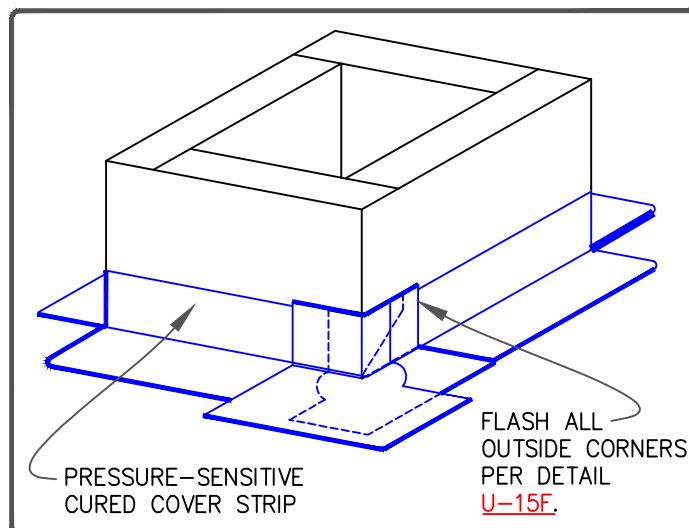
DETAIL NOT FOR USE ON 25 AND 30-YEAR WARRANTY PROJECTS. ACCEPTABLE FLASHING SHALL CONFORM TO [DETAILS U-5A OR U-5B](#).



NOTES:

1. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL CURB DECK FLANGE.
2. CONSULT THE RESPECTIVE MANUFACTURER OF THE SELF-FLASHING METAL CURB FOR PROPER SECUREMENT.
3. WATER CUT-OFF MASTIC MUST BE HELD UNDER CONSTANT COMPRESSION.
4. 7"X9" (178mm X 229mm) PRESSURE-SENSITIVE CORNERS CANNOT BE INSTALLED ON THIS DETAIL DUE TO INCOMPLETE COVERAGE OF THE METAL FLANGE AT CORNERS. REFER TO [DETAIL U-15F](#).

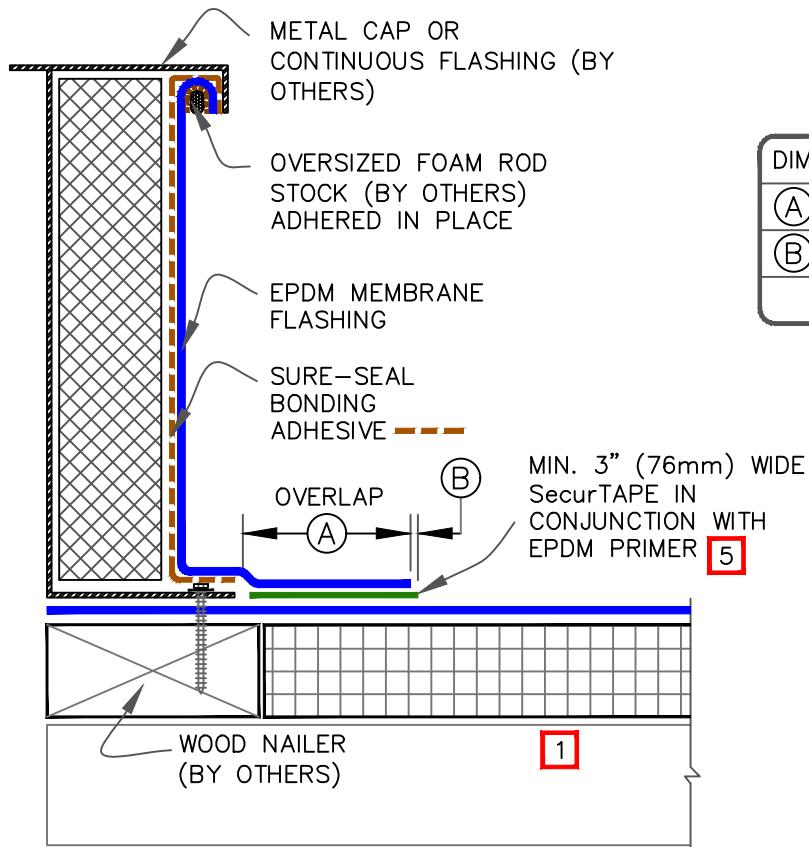
DIMENSIONS		mm	
(A)	2"	51	MIN.
(B)	3"	76	APPROX.



● EPDM	NEW SELF-FLASHING METAL CURB	DETAIL NO.
● APPROVED SUBSTRATE		U-5C
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

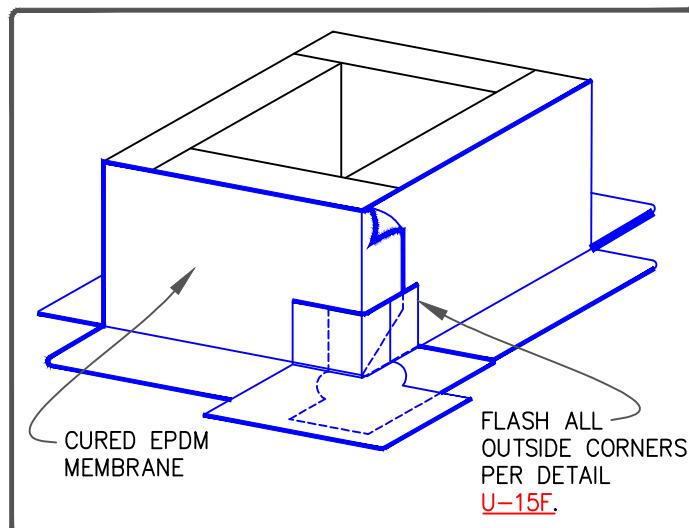
CAUTION

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-15H](#) FOR REQUIRED CORNER ENHANCEMENTS.

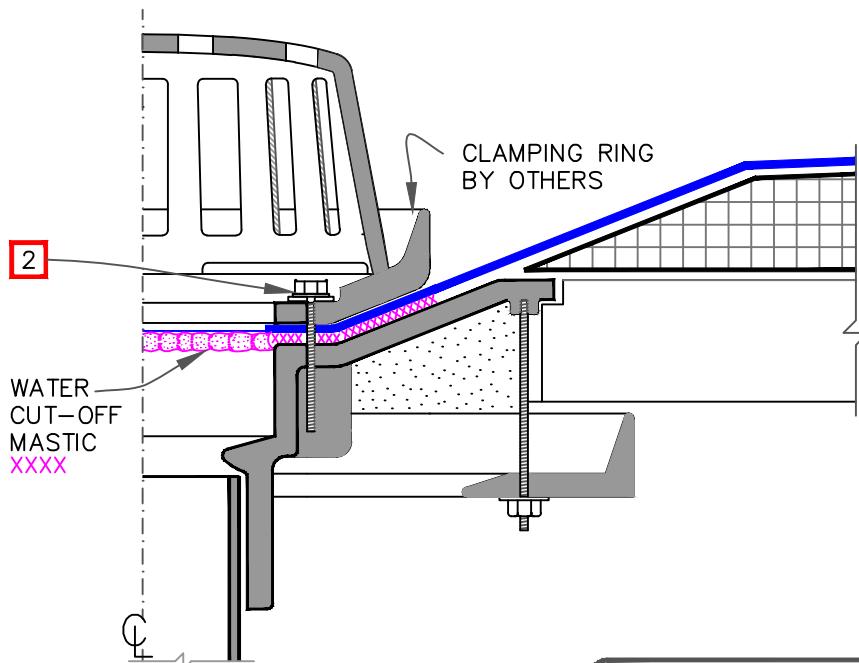


NOTES:

1. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF CURB FLANGE.
2. LENGTH OF ROD STOCK IS LIMITED TO 4' (1219mm). USE INDIVIDUAL SECTIONS OF ROD STOCK FOR LONGER DIMENSIONS.
3. 7"X9" (178mm X 229mm) PRESSURE-SENSITIVE CORNERS CANNOT BE USED FOR THIS DETAIL WHEN THE FLANGE IS LOCATED ON TOP OF THE MEMBRANE DUE TO INCOMPLETE COVERAGE OF THE METAL FLANGE AT CORNERS. REFER TO [DETAIL U-15F](#).
4. DETAIL IS NOT ACCEPTABLE FOR VIBRATING ROOF TOP UNITS.
5. MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE FOR PROJECTS WITH 20, 25 and 30-YEAR WARRANTIES.

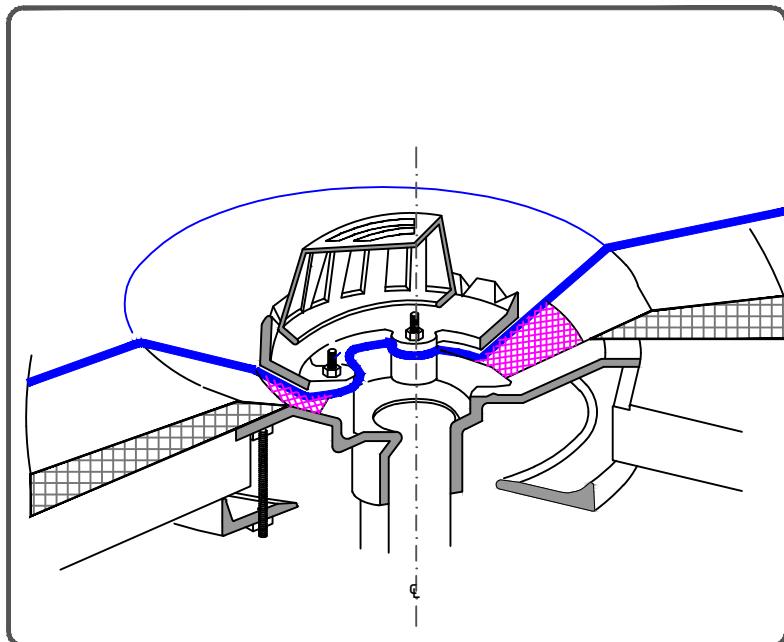
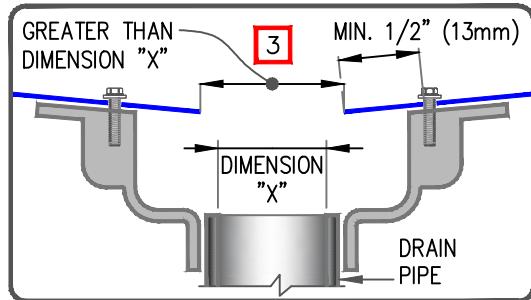


● EPDM	SELF-FLASHING CURB	DETAIL NO.
● APPROVED SUBSTRATE		U-5D
[0] ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

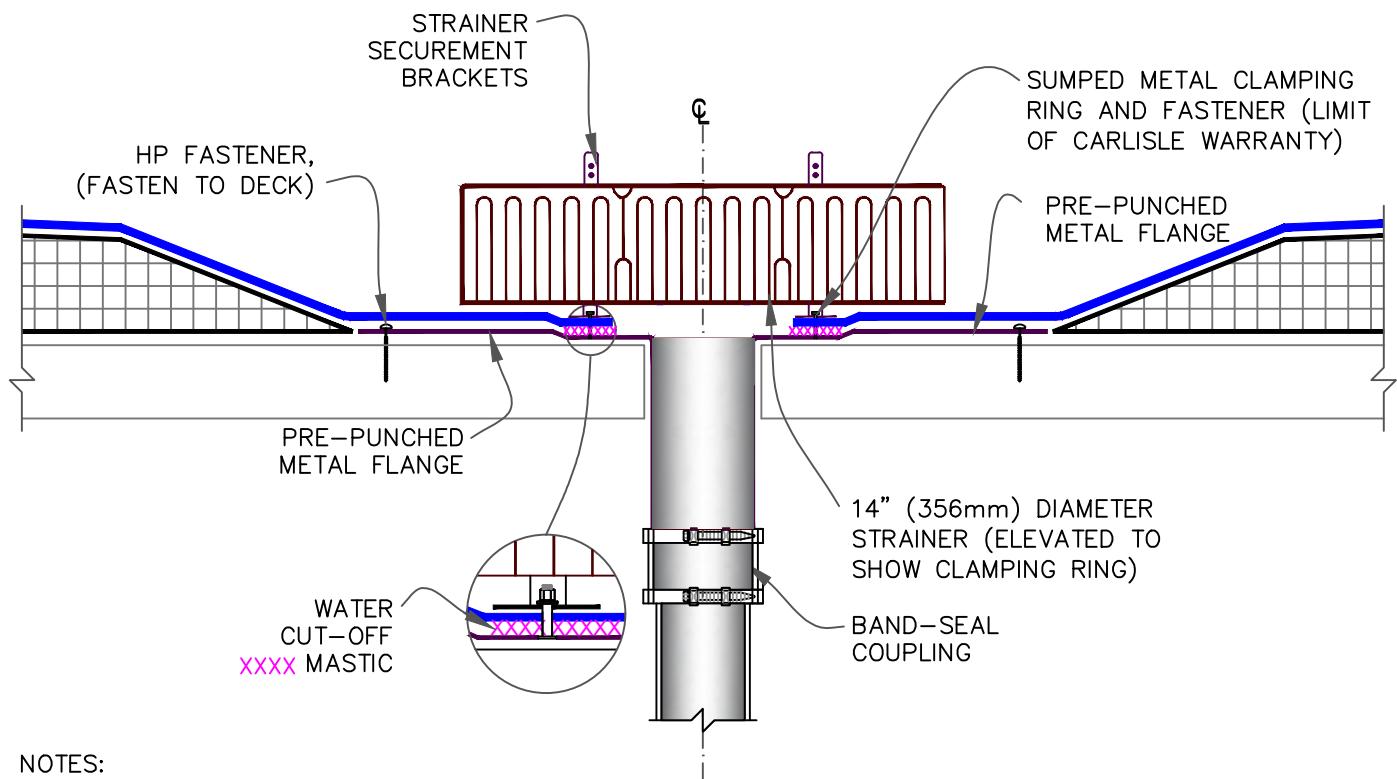


NOTES:

1. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.
2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (13mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
4. REMOVE EXISTING LEAD, FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.
5. FIELD SPLICES MUST BE LOCATED AT LEAST 6" (152mm) OUTSIDE THE DRAIN SUMP.
6. INSULATION TAPER SHALL NOT BE GREATER THAN 6" (152mm) IN 12" (305mm) HORIZONTAL.

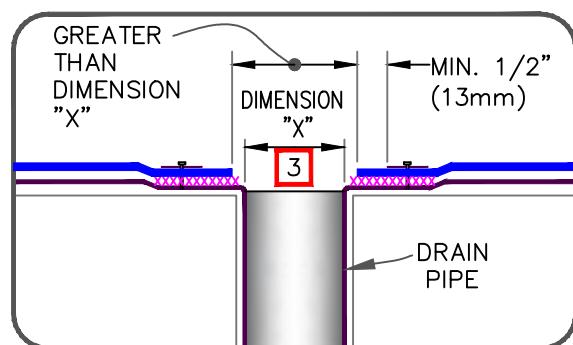


● EPDM	ROOF DRAIN	DETAIL NO.
● APPROVED SUBSTRATE		U-6A
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

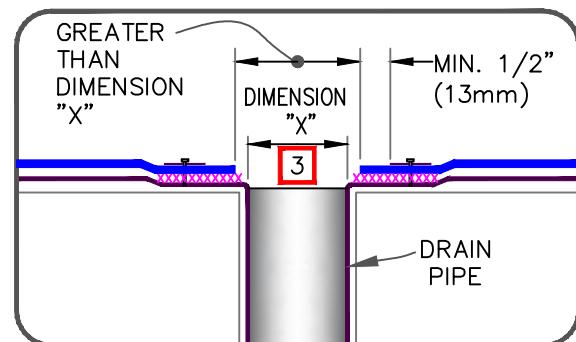
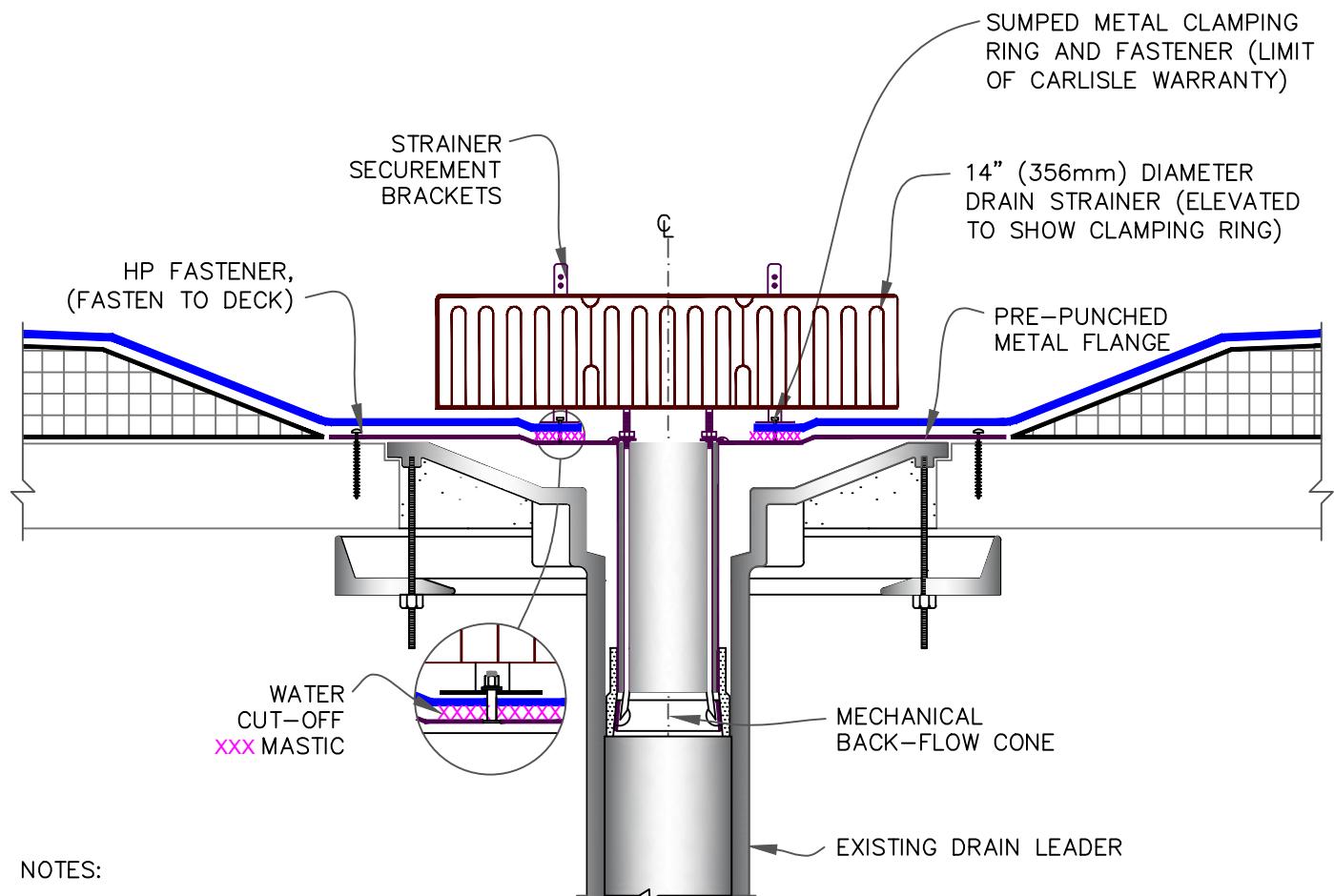


NOTES:

1. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.
2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (13mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
4. FIELD SPLICES MUST BE LOCATED AT LEAST 6" (152mm) OUTSIDE THE DRAIN SUMP.
5. INSULATION TAPER SHALL NOT BE GREATER THAN 6" (152mm) IN 12" (305mm) HORIZONTAL.



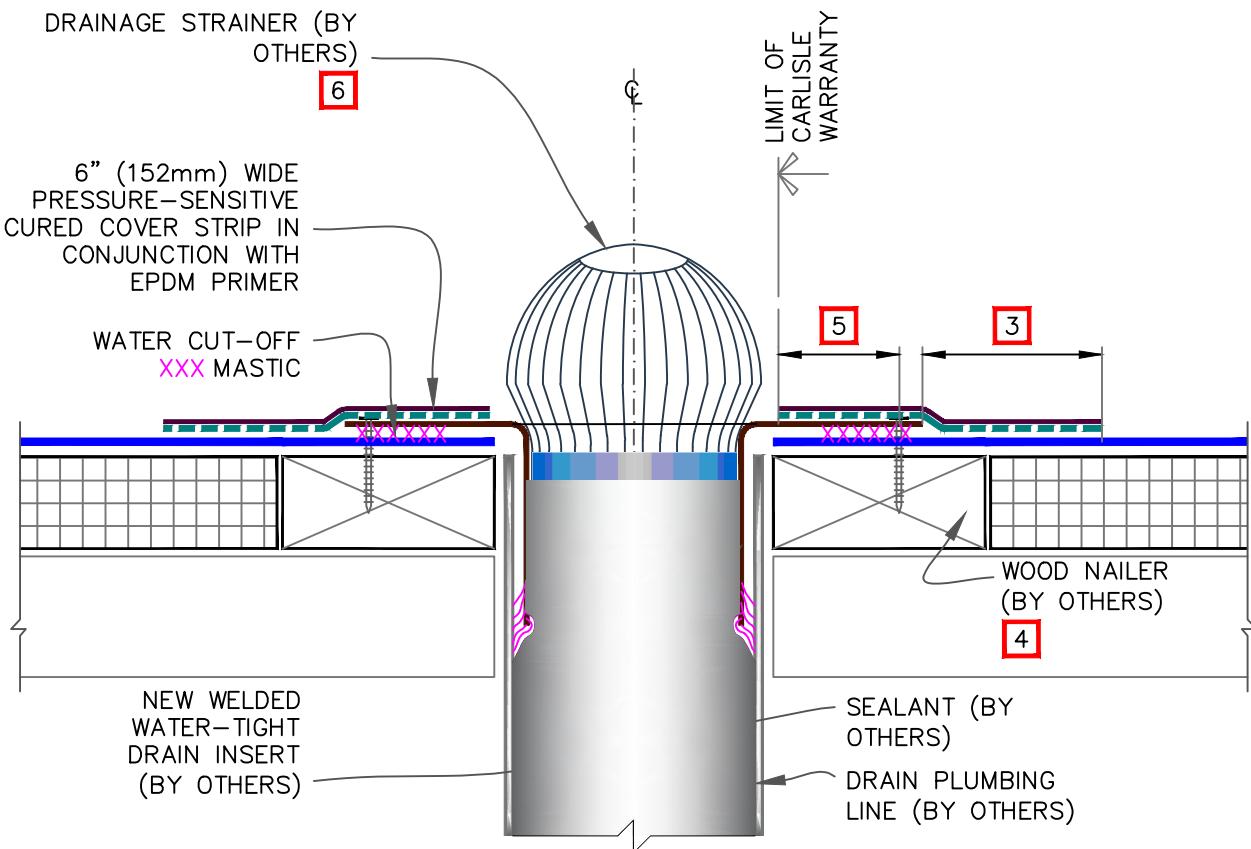
● EPDM	SURE-SEAL ADD-ON DRAIN	DETAIL NO.
● APPROVED SUBSTRATE		U-6B
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



● EPDM	SURE-SEAL INSERT DRAIN	DETAIL NO.
● APPROVED SUBSTRATE		U-6C
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

FOR PROJECTS WITH 25 AND 30-YEAR WARRANTIES, THE DRAIN INSERT FLANGE MUST BE OVERLAID WITH TWO LAYERS OF PRESSURE-SENSITIVE FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE PRESSURE-SENSITIVE CURED COVER STRIP COVERED WITH A 9" (229mm) WIDE TOP LAYER OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. BOTH LAYERS SHALL BE SEALED WITH CONTINUOUS LAP SEALANT.



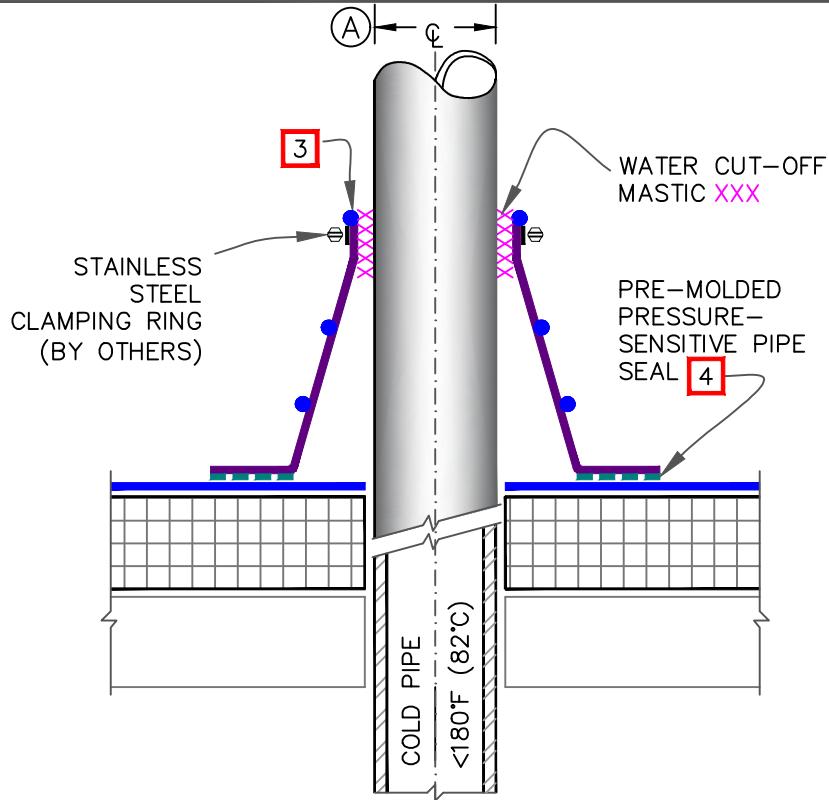
NOTES:

1. WATER CUT-OFF MASTIC MUST BE UNDER CONSTANT COMPRESSION.
2. APPLY EPDM PRIMER TO METAL FLANGE AND MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.
3. PRESSURE-SENSITIVE CURED COVER STRIP FLASHING MUST OVERLAP DECK MEMBRANE MINIMUM 3" (76mm).
4. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF DECK FLANGE.
5. DRAIN INSERT FLANGE MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE CURED COVER STRIP WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.
6. CONSULT SPECIFIER OR APPLICABLE CODES FOR ADEQUATE DRAINAGE STRAINER TO AVOID PONDING WATER. DO NOT RESTRICT WATER FLOW.

● EPDM	DETAIL NO.
● APPROVED SUBSTRATE	U-6D
● SEE NOTE(S)	THERMOSET UNIVERSAL
For additional information, refer to Specifications	

CAUTION

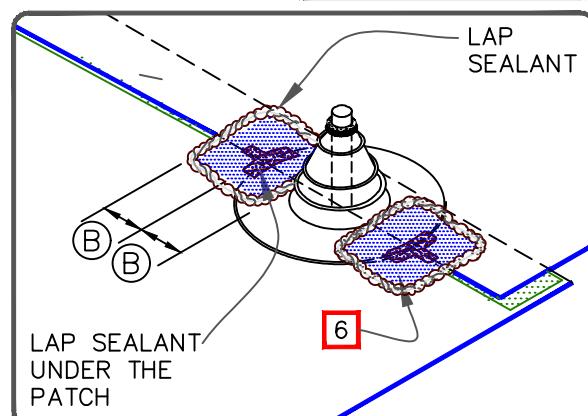
FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-8A.1](#) FOR REQUIRED FLASHING ENHANCEMENTS.



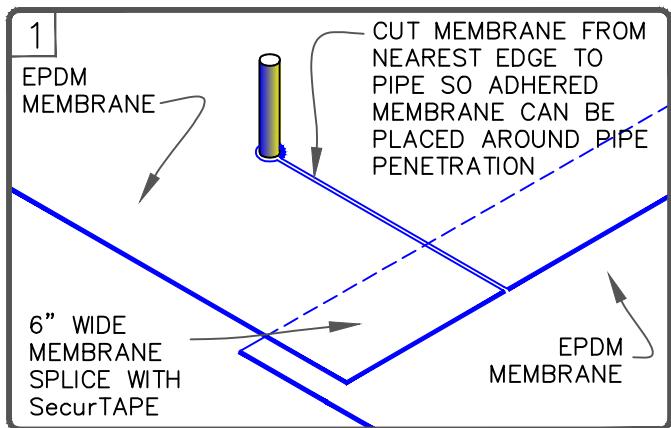
NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING PRESSURE-SENSITIVE PIPE SEAL.
2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).
3. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER.
4. EPDM PRIMER MUST BE APPLIED TO MEMBRANE SURFACE PRIOR TO APPLYING PRESSURE-SENSITIVE PIPE SEAL.
5. DECK FLANGES OF THE PRESSURE-SENSITIVE PIPE SEAL SHALL NOT BE OVERLAPPED, CUT OR APPLIED OVER ANY ANGLE CHANGE.
6. WHEN A FIELD SPLICE INTERSECTS A PIPE SEAL, APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE COVERING THE EXPOSED SPLICE TAPE 1/2" (13mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION & OVERLAY WITH A 6"X6" (152mm X 152mm) T-JOINT COVER.
7. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED. REFER TO [DETAIL MF-8A](#).

DIMENSIONS		mm	
(A)	1/2"	13	TO
	6"	152	
(B)	3"	76	

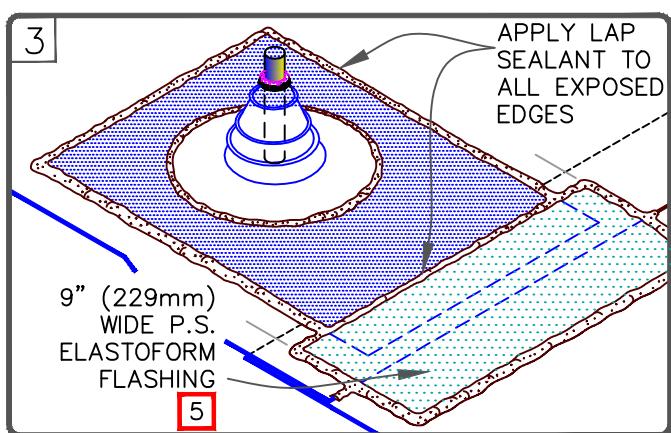


● EPDM	PRE-MOLDED PRESSURE-SENSITIVE PIPE SEAL	DETAIL NO.
● APPROVED SUBSTRATE		 U-8A
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

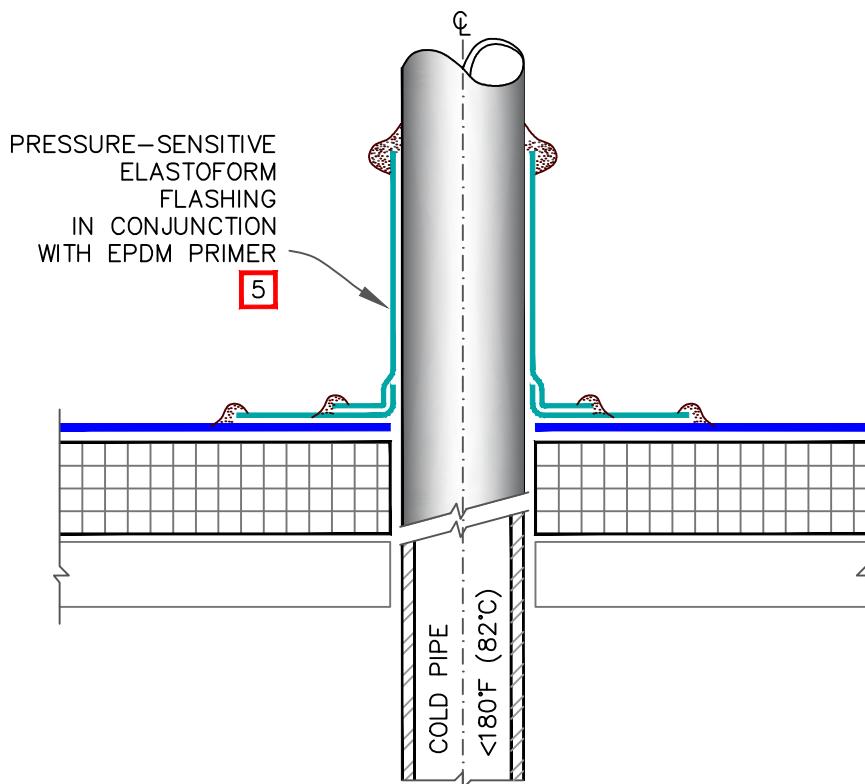


NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING PRESSURE-SENSITIVE PIPE SEAL.
2. PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
3. DECK FLANGES OF THE MOLDED PIPE SEAL SHALL NOT BE OVERLAPPED, CUT OR APPLIED OVER ANY ANGLE CHANGE.
4. 60-MIL (1.52mm) EPDM OR 20" (508mm) PRESSURE-SENSITIVE CURED EPDM FLASHING.
5. AT THE CUT IN THE FIELD MEMBRANE, FLASHING OVERLAY MUST EXTEND 3" (76mm) BEYOND THE MOLDED PIPE FLASHING FLANGE ON 3 SIDES AND WITHIN 1" (25mm) OF THE EDGE OF THE FIELD MEMBRANE, AS SHOWN.
6. CENTER 9" (229mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING OVER THE MEMBRANE SPLICE EDGE AND EXTEND 3" (76mm) BEYOND THE MEMBRANE OVERLAY, AS SHOWN.
7. SEAL ALL EDGES WITH CONTINUOUS LAP SEALANT.

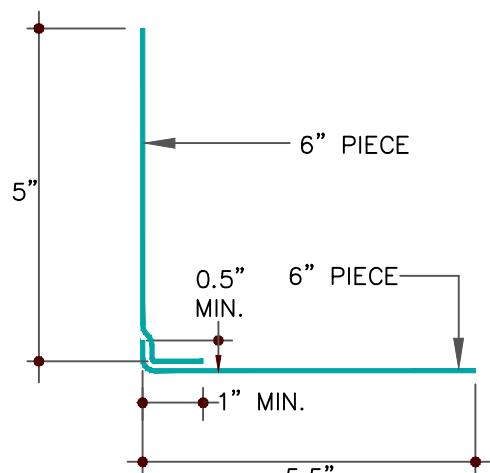


● EPDM ● APPROVED SUBSTRATE ● SEE NOTE(S)	PRE-MOLDED PRESSURE-SENSITIVE PIPE SEAL WITH 90-MIL MEMBRANE OR 25 & 30-YEAR WARRANTIES <small>For additional information, refer to Specifications</small>	 DETAIL NO. U-8A.1 <small>THERMOSET UNIVERSAL</small>
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NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD-FABRICATED FLASHING.
2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).
3. PIPE FLASHING MAY BE USED WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS.
4. FOR STRUCTURAL STEEL TUBING GREATER THAN 12" (305mm) ACROSS, USE DETAIL(S) U-5.
5. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
6. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
7. ON MECHANICALLY FASTENED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED. REFER TO DETAIL MF-8B.
8. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (457mm) IN DIAMETER.

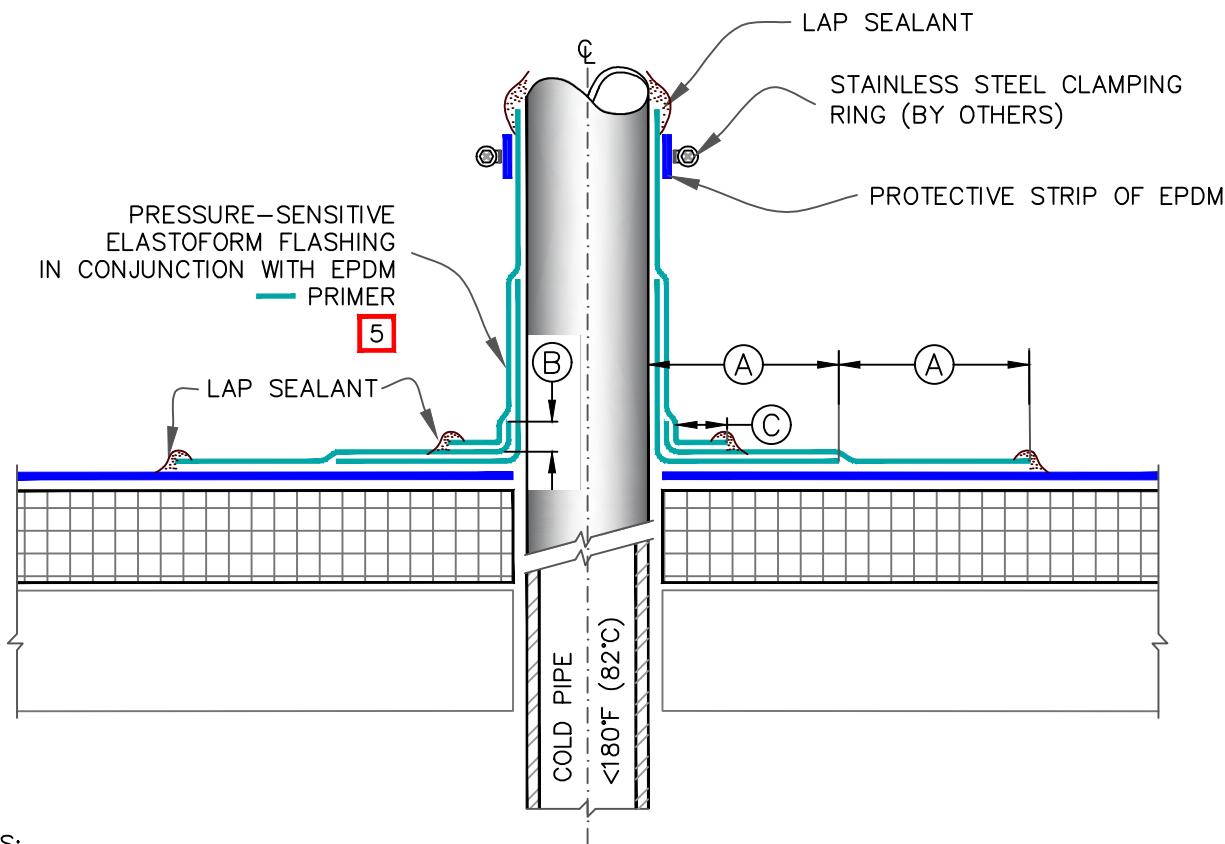


mm
0.5" = 13
1.0" = 25
5.0" = 127
5.5" = 140
6.0" = 152

	• EPDM		DETAIL NO.
	• APPROVED SUBSTRATE	FIELD FABRICATED PIPE SEAL	U-8B
	• SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

WHEN A PRE-MOLDED PIPE SEAL IS NOT FEASIBLE, PROJECTS WITH 25 & 30-YEAR WARRANTIES REQUIRE ALL ROUND PIPE PENETRATIONS & STRUCTURAL STEEL TUBING TO BE WRAPPED WITH THREE LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING, TERMINATED WITH A STAINLESS STEEL CLAMPING RING & SEALED WITH CONTINUOUS LAP SEALANT (AS SHOWN).



NOTES:

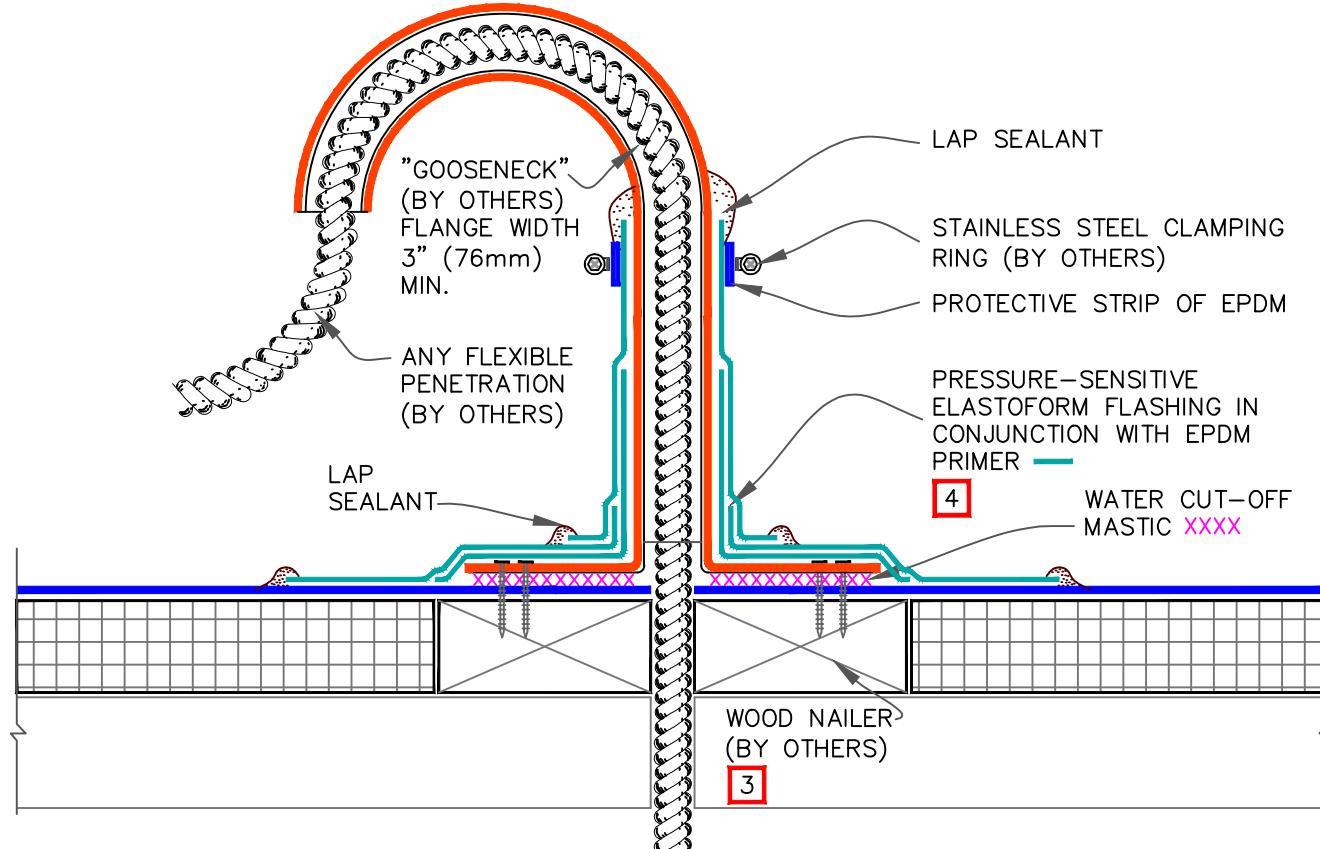
1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD-FABRICATED FLASHING.
2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).
3. PIPE FLASHING MAY BE USED WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS.
4. FOR STRUCTURAL STEEL TUBING GREATER THAN 12" (305mm) ACROSS, USE DETAIL(S) U-5.
5. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
6. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
7. ON MECHANICALLY FASTENED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED. REFER TO DETAIL MF-8B.
8. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (457mm) IN DIAMETER.

DIMENSIONS		mm	
(A)	3"	76	MIN.
(B)	1/2"	13	MIN.
(C)	1"	25	MIN.

● EPDM	FIELD FABRICATED PIPE / STRUCTURAL STEEL TUBE FLASHING FOR 25/30 YEAR WARRANTIES	DETAIL NO.
● APPROVED SUBSTRATE		U-8B.1
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

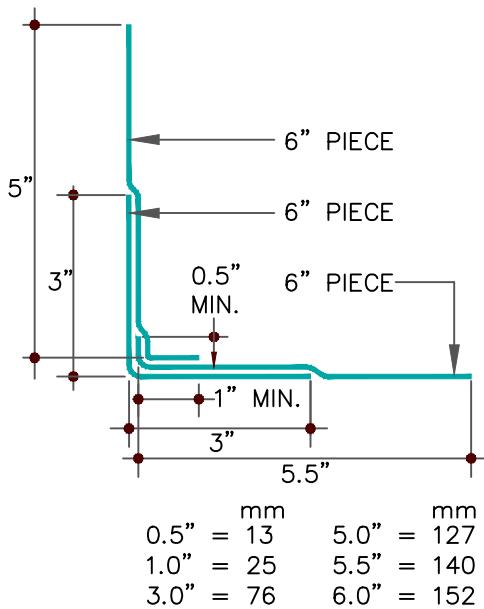
CAUTION

WHEN A PRE-MOLDED PIPE SEAL IS NOT FEASIBLE, PROJECTS WITH 25 & 30-YEAR WARRANTIES REQUIRE ALL ROUND PIPE PENETRATIONS TO BE DOUBLE WRAPPED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING, TERMINATED WITH A STAINLESS STEEL CLAMPING RING & SEALED WITH CONTINUOUS LAP SEALANT (AS SHOWN).



NOTES:

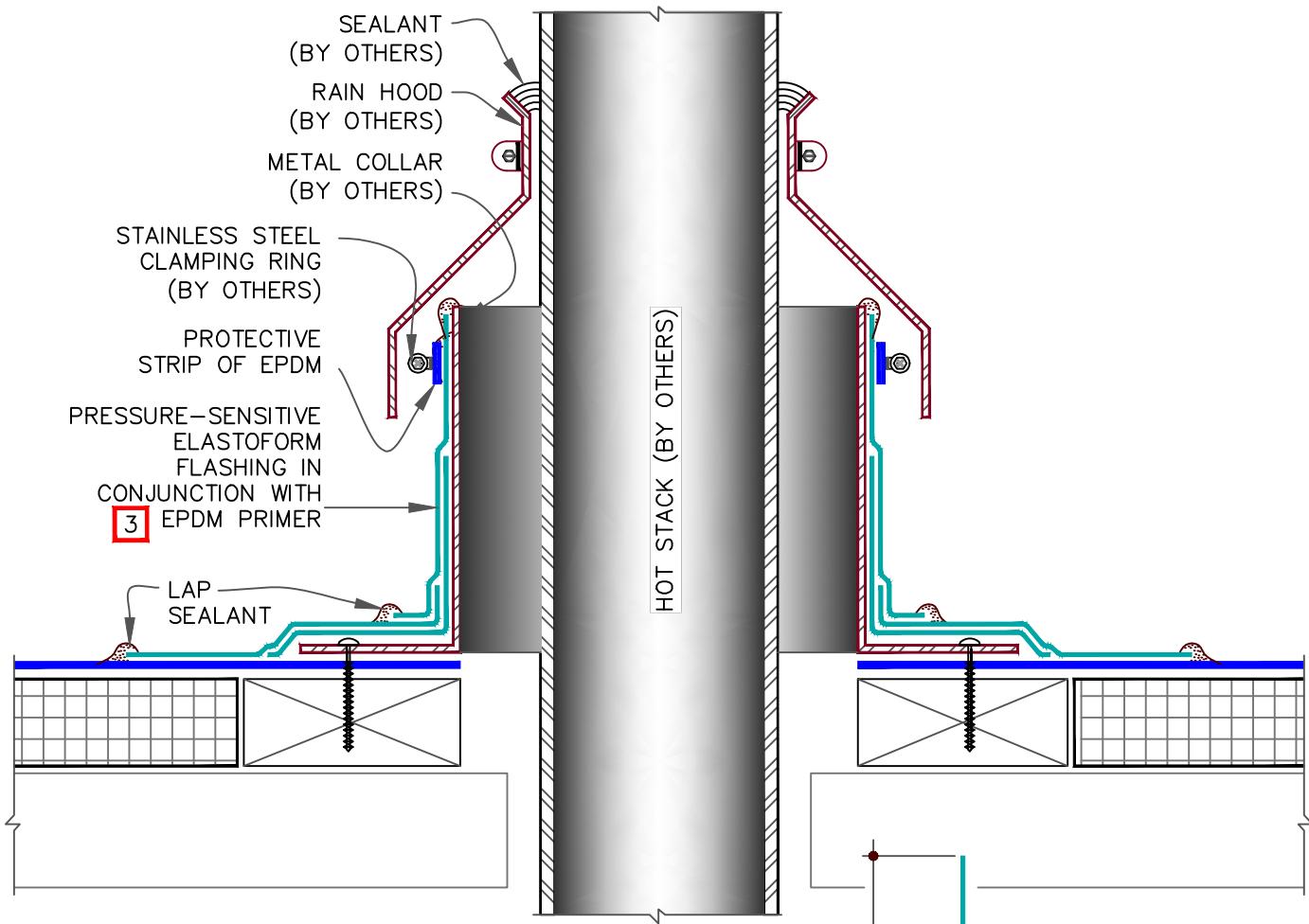
1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD-FABRICATED PIPE SEAL.
2. TEMPERATURE OF PENETRATION MUST NOT EXCEED 180°F (82°C).
3. WOOD NAILERS MUST EXTEND PAST TOTAL WIDTH OF METAL FLANGE.
4. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
5. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.



● EPDM	FLEXIBLE PENETRATION	DETAIL NO.
● APPROVED SUBSTRATE		U-8C
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

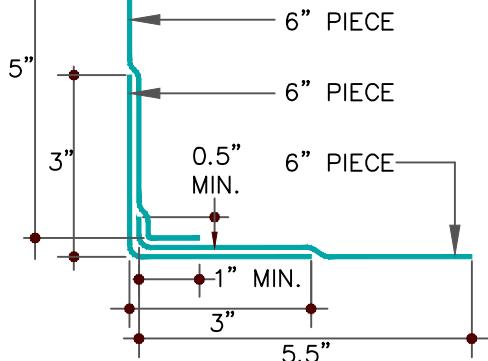
CAUTION

WHEN A PRE-MOLDED PIPE SEAL IS NOT FEASIBLE, PROJECTS WITH 25 & 30-YEAR WARRANTIES REQUIRE ALL ROUND PIPE PENETRATIONS TO BE DOUBLE WRAPPED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING, TERMINATED WITH A STAINLESS STEEL CLAMPING RING & SEALED WITH CONTINUOUS LAP SEALANT (AS SHOWN).



NOTES:

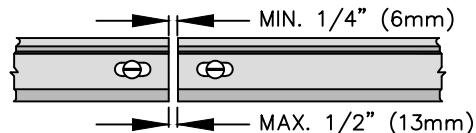
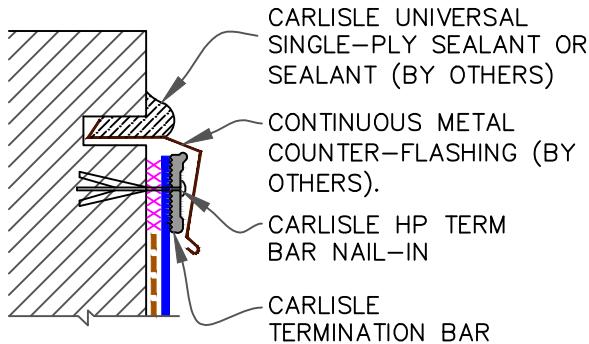
1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL.
2. TEMPERATURE OF METAL COLLAR MUST NOT EXCEED 180°F (82°C).
3. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
4. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.



0.5" = 13	mm	5.0" = 127
1.0" = 25	mm	5.5" = 140
3.0" = 76	mm	6.0" = 152

	<ul style="list-style-type: none"> ● EPDM ● APPROVED SUBSTRATE ● SEE NOTE(S) 	FIELD FABRICATED HOT STACK <small>For additional information, refer to Specifications</small>	DETAIL NO. U-8D THERMOSET UNIVERSAL
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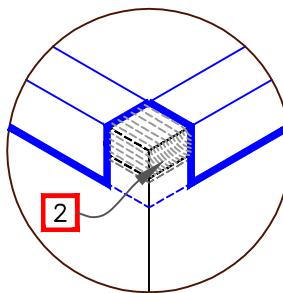
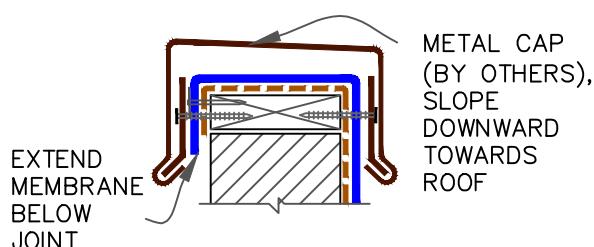
9A MECHANICAL TERMINATION WITH COUNTER FLASHING



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP TERMINATION BAR AROUND CORNERS.
3. DETAIL REQUIRED FOR USE ON WARRANTY PROJECTS EXCEEDING 20-YEARS.

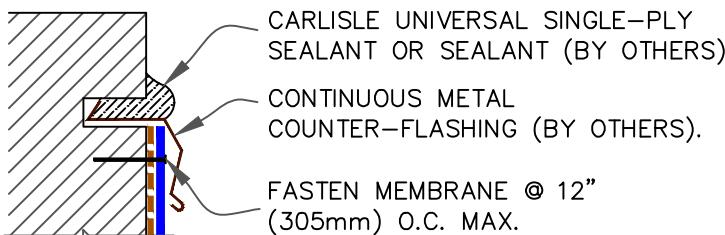
9B SHEET METAL COPING (BY OTHERS)



NOTES:

1. FOR CARLISLE SecurEdge COPING, REFER TO INSTALLATION INSTRUCTIONS PUBLISHED SEPARATELY.
2. MEMBRANE MUST BE EXTENDED TO CORNERS TO PROVIDE COMPLETE COVERAGE OF THE TOP WALL SURFACE.

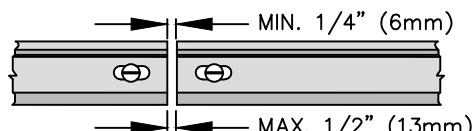
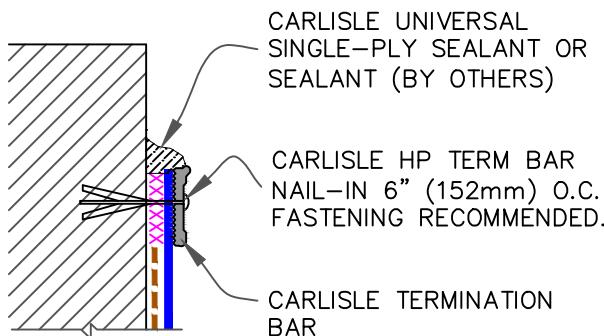
9C COUNTER FLASHING TERMINATION



NOTES:

1. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.
2. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 10-YEARS.

9D MECHANICAL TERMINATION



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP TERMINATION BAR AROUND CORNERS.
3. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 20-YEARS.
4. DETAIL 9E MUST BE USED AT VERTICAL JOINTS IN PANEL WALLS.

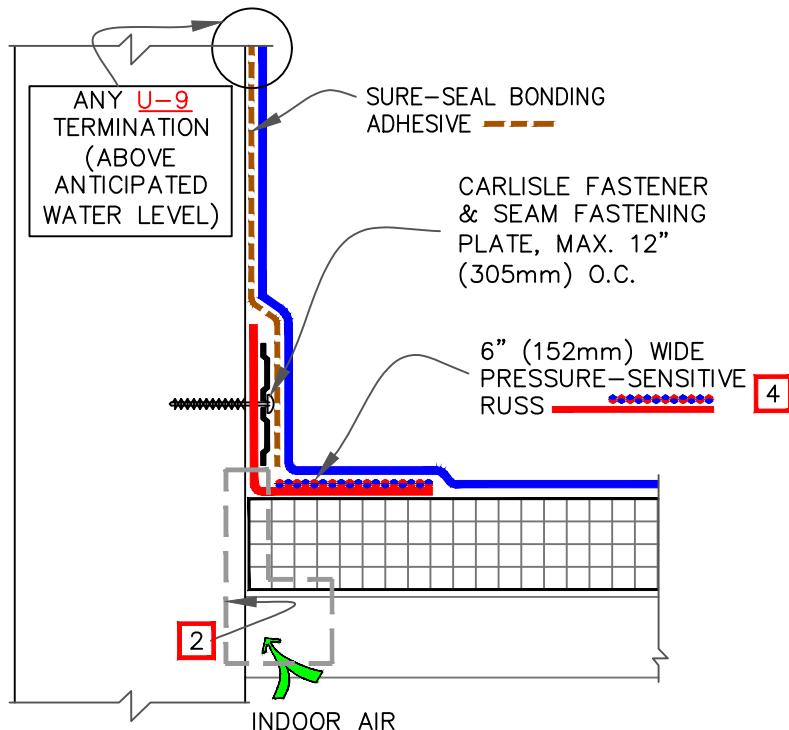
----- APPLICABLE BONDING ADHESIVE

xxx WATER CUT-OFF MASTIC—MUST BE HELD UNDER CONSTANT COMPRESSION.

● EPDM	MEMBRANE TERMINATIONS PAGE 1 OF 2	DETAIL NO. U-9
● APPROVED SUBSTRATE SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

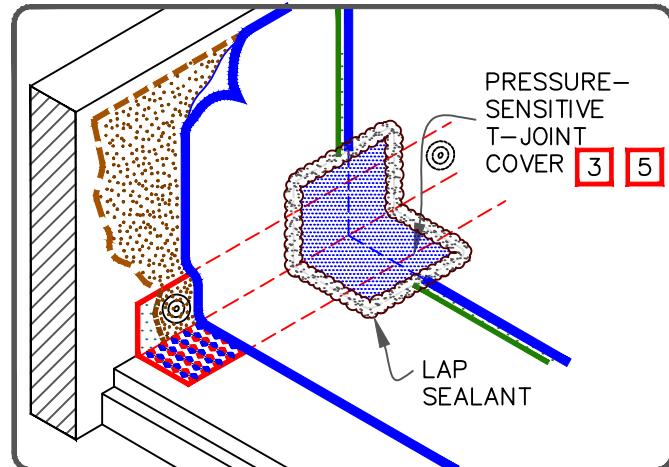
CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER FOR ADHERED MEMBRANE ASSEMBLIES.



NOTES:

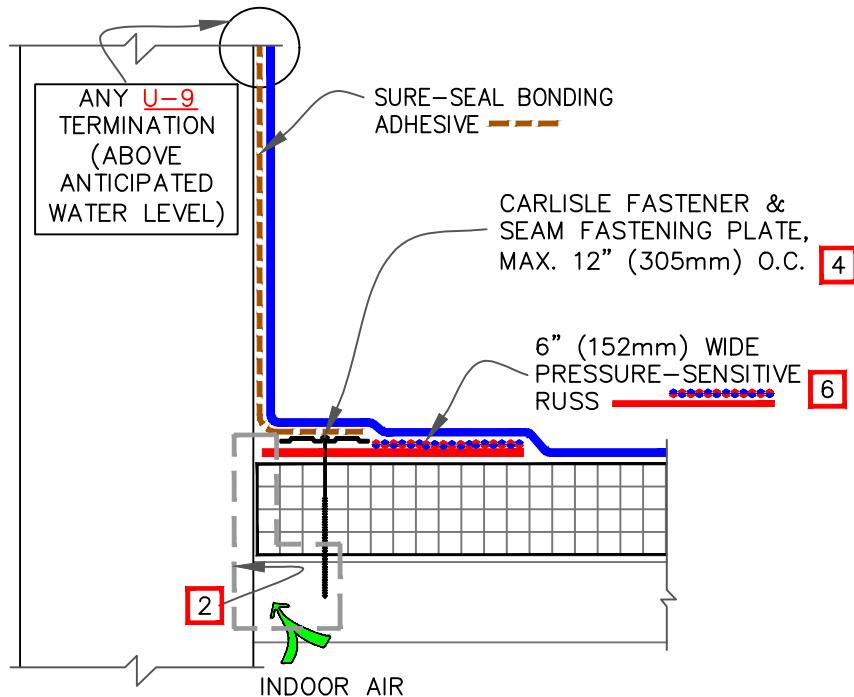
- FOR CORNERS AND RUSS APPLICATION REFER TO [DETAILS U-15A OR U-15B](#).
- REFER TO SPECIAL CONDITION [SPEC. SUPPLEMENTS G-01-17 OR G-08-17](#):
 - TO BLOCK INDOOR AIR INFILTRATION AND HUMIDITY AT THE JUNCTION ([G-01-17](#)).
 - WHERE ROOF SYSTEM IS DESIGNED WITH A VAPOR RETARDER ([G-08-17](#)).
- 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MAY ALSO BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
- EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.
- PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL VERTICAL SPLICES AT THE BASE OF A WALL AND SPLICE INTERSECTIONS MUST BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" (305mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT. REFER TO [DETAIL U-2C](#).



 • EPDM  • APPROVED SUBSTRATE  • SEE NOTE(S)	PARAPET / CURB WITH PRESSURE-SENSITIVE RUSS (VERTICAL) <small>For additional information, refer to Specifications</small>	 DETAIL NO. U-12A <small>THERMOSET UNIVERSAL</small>
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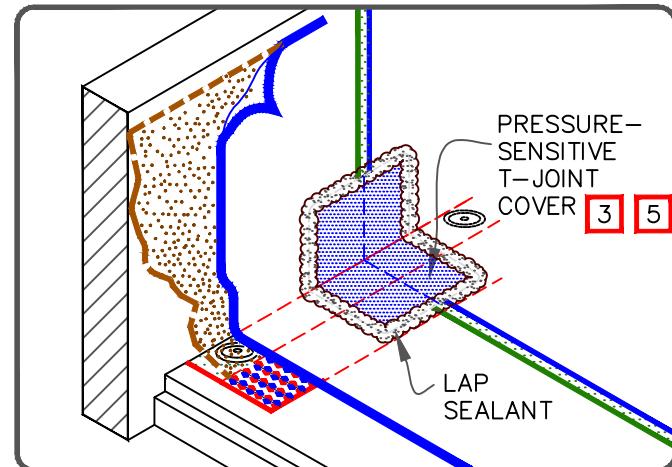
CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER FOR ADHERED MEMBRANE ASSEMBLIES.



NOTES:

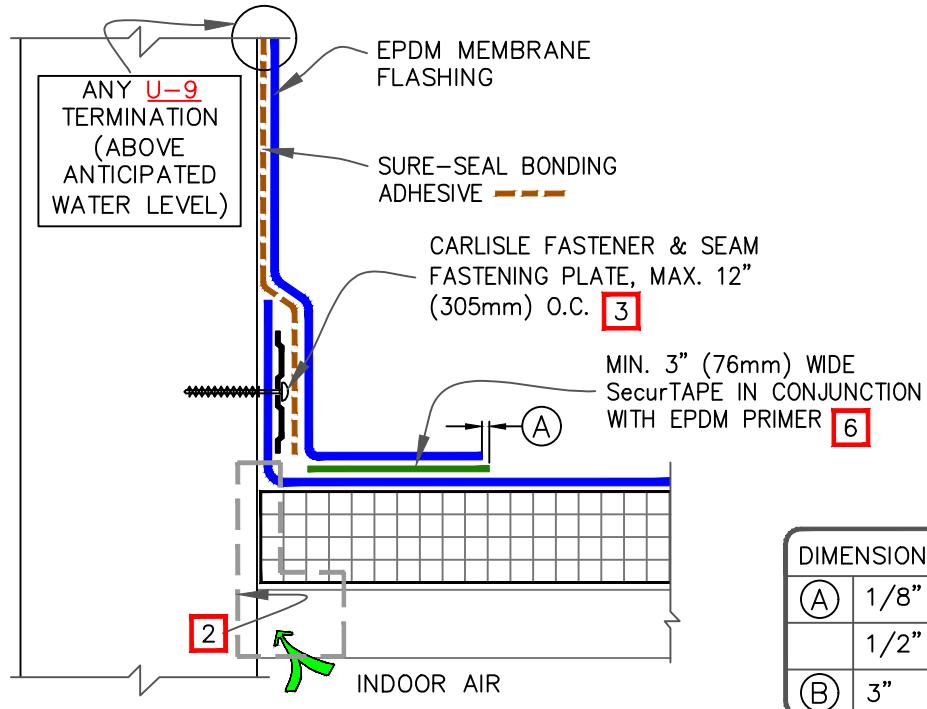
1. FOR CORNERS AND RUSS APPLICATION REFER TO [DETAILS U-15A OR U-15B](#).
2. REFER TO SPECIAL CONDITION [SPEC. SUPPLEMENTS G-01-17 OR G-08-17](#):
 - 2.1. TO BLOCK INDOOR AIR INFILTRATION AND HUMIDITY AT THE JUNCTION ([G-01-17](#)).
 - 2.2. WHERE ROOF SYSTEM IS DESIGNED WITH A VAPOR RETARDER ([G-08-17](#)).
3. 6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MAY ALSO BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.
4. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
5. PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL VERTICAL SPLICES AT THE BASE OF A WALL AND SPLICE INTERSECTIONS MUST BE OVERLAIN WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" (305mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT. REFER TO [DETAIL U-2C](#).
6. EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.



● EPDM	PARAPET / CURB WITH PRESSURE-SENSITIVE RUSS (HORIZONTAL)	DETAIL NO.
● APPROVED SUBSTRATE		U-12B
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

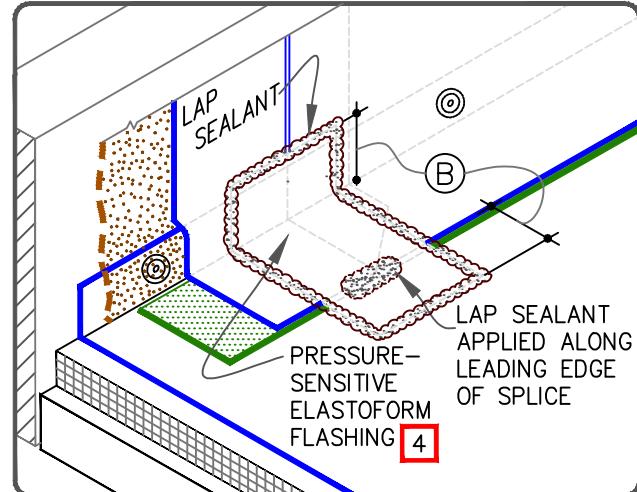
CAUTION

WHEN A WARRANTY WIND SPEED GREATER THAN 90MPH IS SPECIFIED, CARLISLE FASTENERS AND SEAM FASTENING PLATES SHALL NOT EXCEED 6" (152mm) ON CENTER FOR ADHERED MEMBRANE ASSEMBLIES.



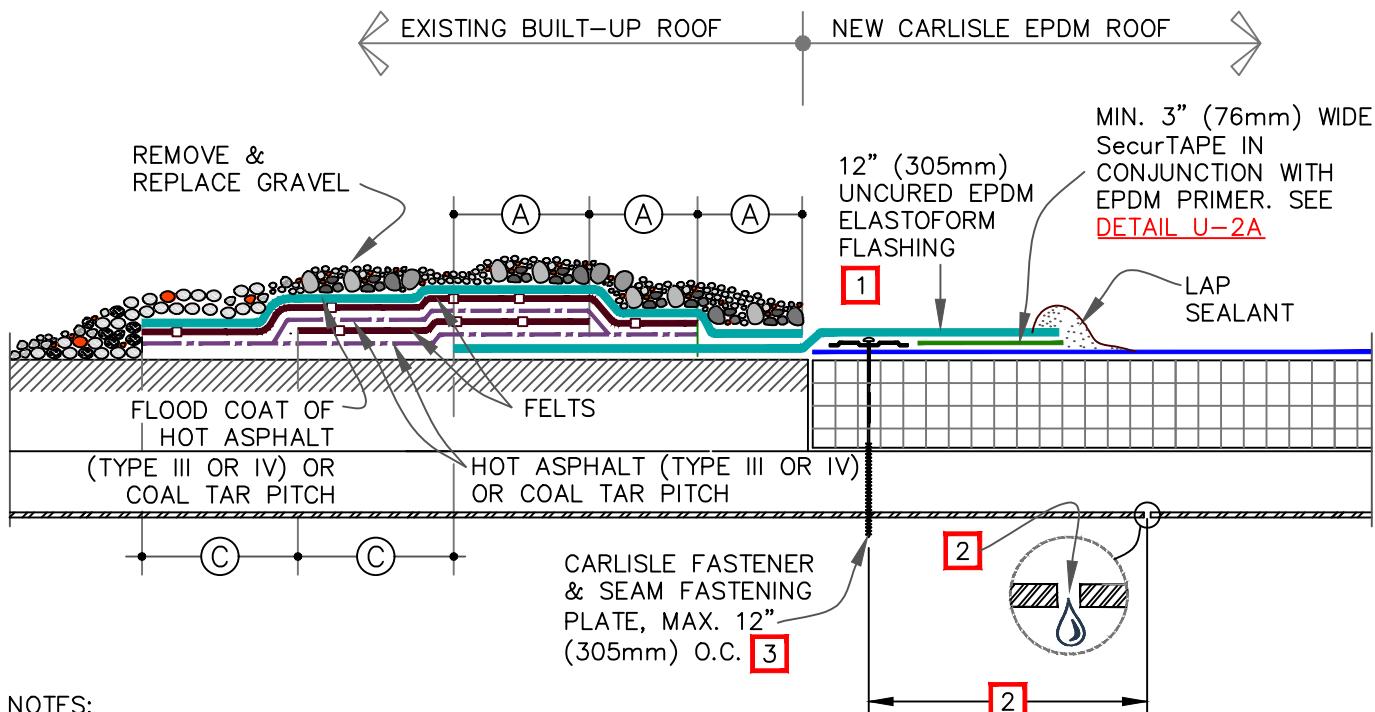
NOTES:

- PRIOR TO THE INSTALLATION OF SecurTape AND PRESSURE-SENSITIVE FLASHING APPLY EPDM PRIMER TO SPLICE AREAS.
- REFER TO SPECIAL CONDITION [SPEC. SUPPLEMENTS G-01-17 OR G-08-17](#):
 - TO BLOCK INDOOR AIR INFILTRATION AND HUMIDITY AT THE JUNCTION ([G-01-17](#)).
 - WHERE ROOF SYSTEM IS DESIGNED WITH A VAPOR RETARDER ([G-08-17](#)).
- SEAM FASTENING PLATE/FASTENER MAY BE INSTALLED INTO THE STRUCTURAL DECK. HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED FOR MECHANICALLY-FASTENED ROOFING SYSTEMS OVER STEEL DECKS.
- PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL VERTICAL SPLICES AT THE BASE OF A WALL AND SPLICE INTERSECTIONS MUST BE OVERLAID WITH TWO LAYERS OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" (305mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT. REFER TO [DETAIL U-2C](#).
- MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTape FOR PROJECTS WITH 20, 25 and 30-YEAR WARRANTIES.
- LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.

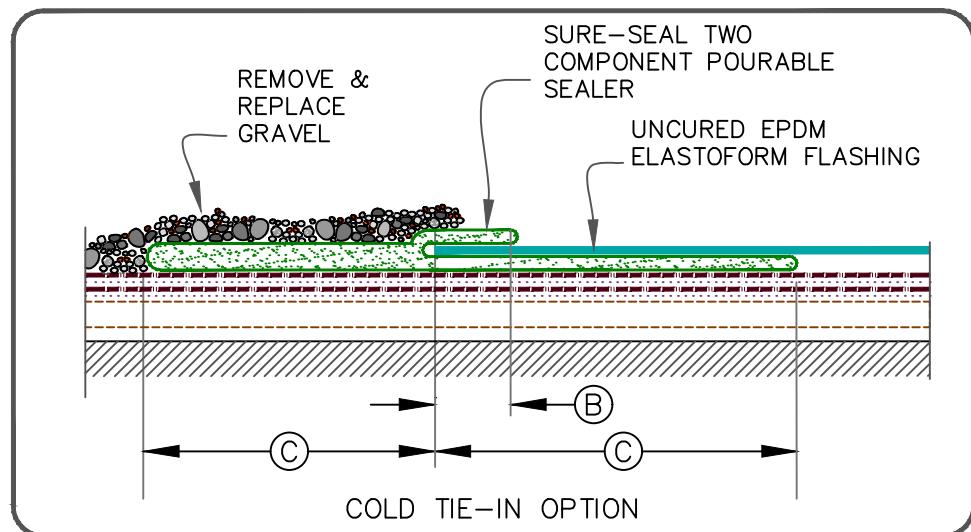


● EPDM	PARAPET / CURB WITH SEPARATE MEMBRANE FLASHING	DETAIL NO.
● APPROVED SUBSTRATE		U-12C
[0] ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

THERMOSET MEMBRANE **EPDM**

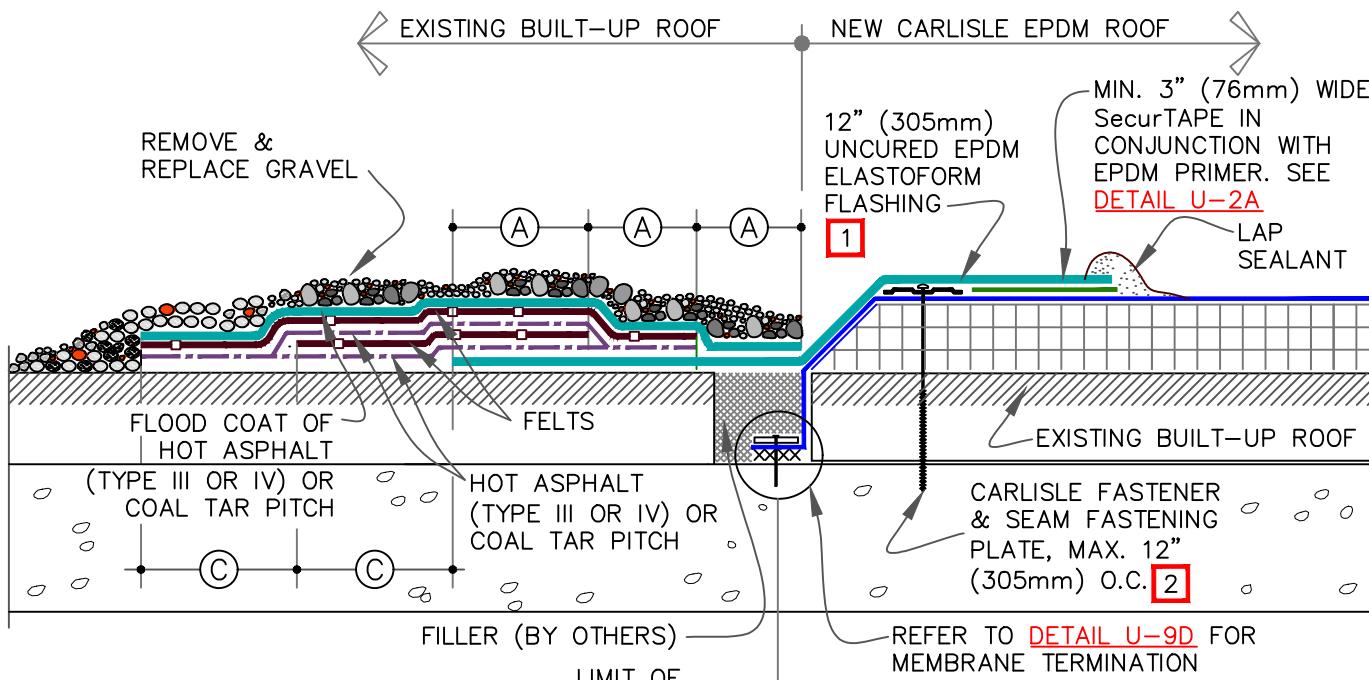


DIMENSIONS	mm	
(A)	5"	127 MIN.
(B)	2"	51 \pm 1/2" (13mm)
(C)	6"	152 TO



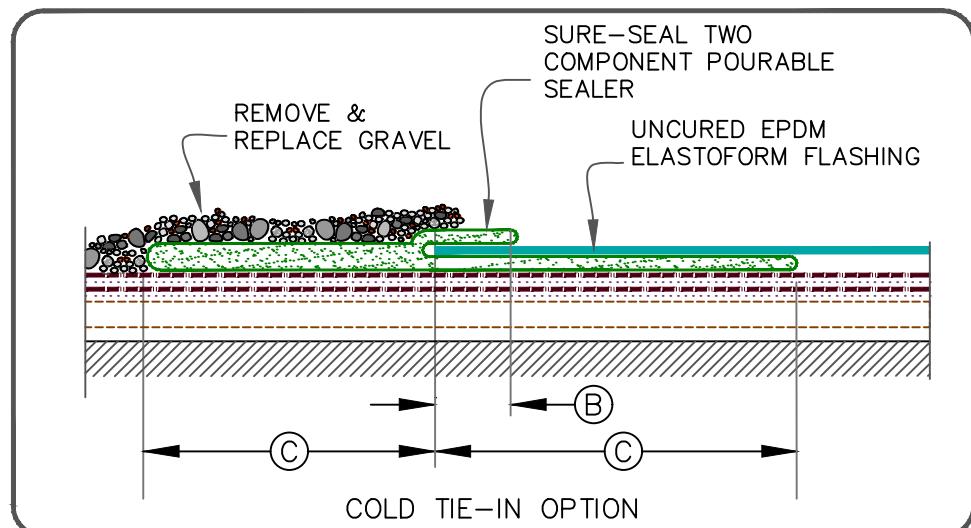
● EPDM	BUILT-UP ROOFING TIE-IN OVER STEEL ROOF DECK	DETAIL NO.
● APPROVED SUBSTRATE		 U-13A
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

THERMOSET MEMBRANE **EPDM**



NOTES:

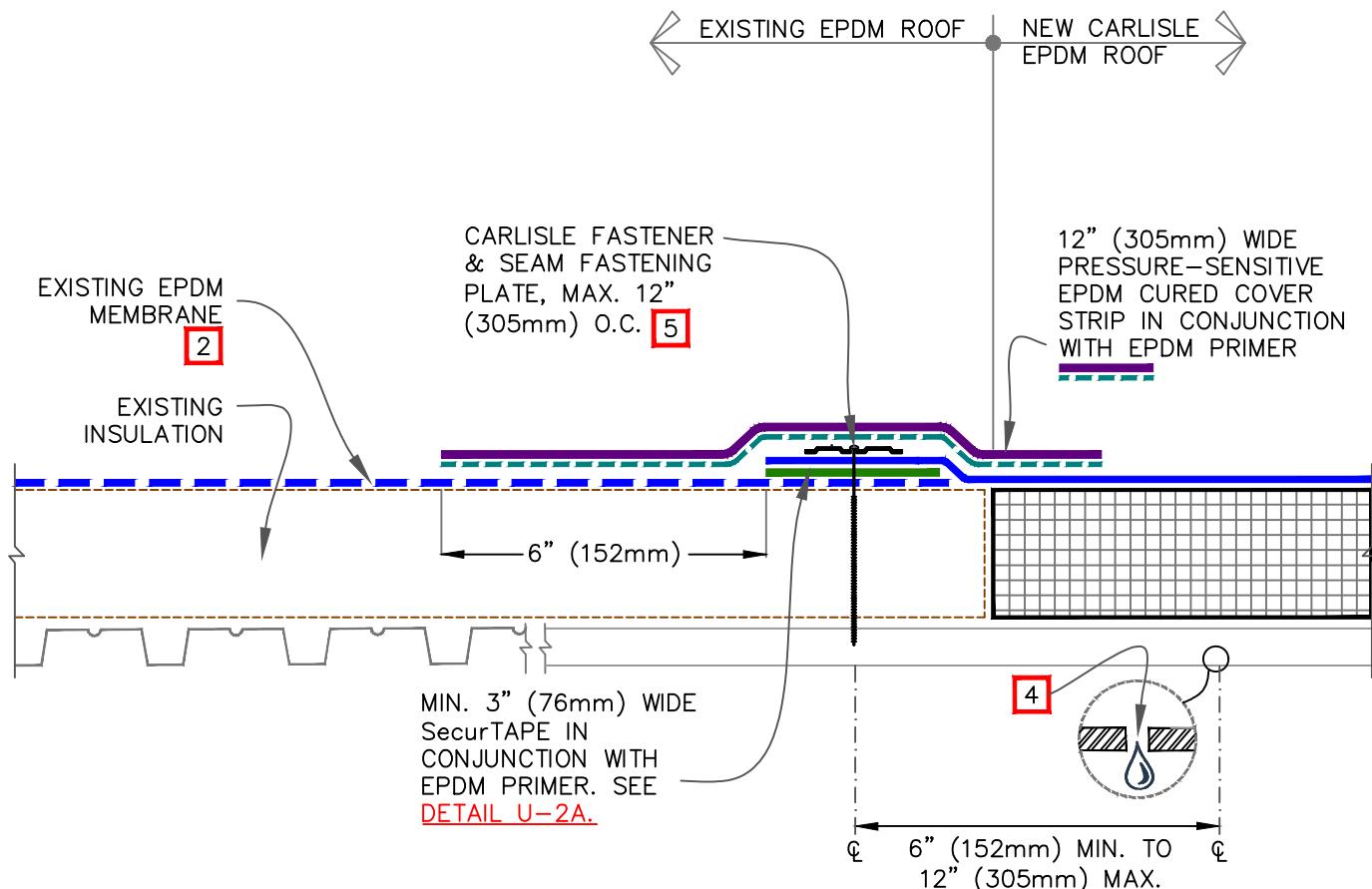
1. SPLICE TWO PIECES OF ELASTOFORM OR PRESSURE-SENSITIVE ELASTOFORM TOGETHER TO ACHIEVE DESIRED WIDTH.
2. ON MECHANICALLY FASTENED SYSTEMS, CD-10 OR HD 14-10 FASTENERS AND SEAM FASTENING PLATES ARE REQUIRED OVER CONCRETE DECKS.
3. WATER CUT-OFF MUST BE UNDER CONSTANT COMPRESSION.
4. CARLISLE IS NOT RESPONSIBLE FOR DAMAGE TO THE BUILT-UP ROOF OR STRUCTURAL DECK RESULTING FROM PONDED WATER; THIS DETAIL APPLIES TO RE-ROOFING WHEN A TEAR-OFF IS NOT SPECIFIED AND WAS DESIGNED TO PREVENT MIGRATION OF WATER INTO THE NEW ROOFING SYSTEM.
5. ON BALLASTED SYSTEMS, USE CONCRETE PAVERS TO PREVENT BALLAST MIGRATION.



DIMENSIONS	mm	
(A)	5"	127 MIN.
(B)	2"	51 $\pm 1/2"$ (13mm)
(C)	6"	152

● EPDM	BUILT-UP ROOFING TIE-IN OVER CONCRETE ROOF DECK	DETAIL NO.
● APPROVED SUBSTRATE	For additional information, refer to Specifications	U-13B
● SEE NOTE(S)		THERMOSET UNIVERSAL

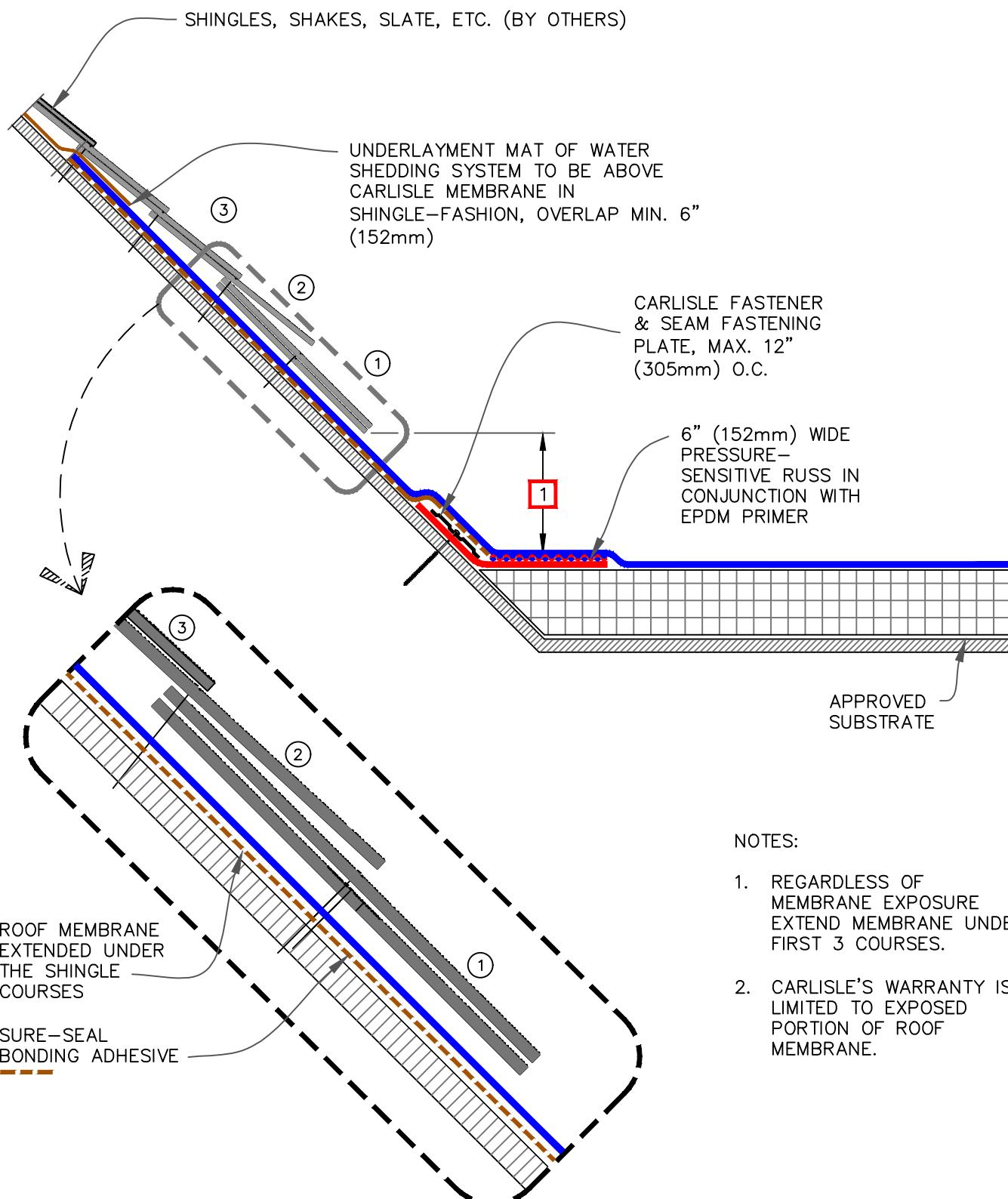
THERMOSET MEMBRANE **EPDM**



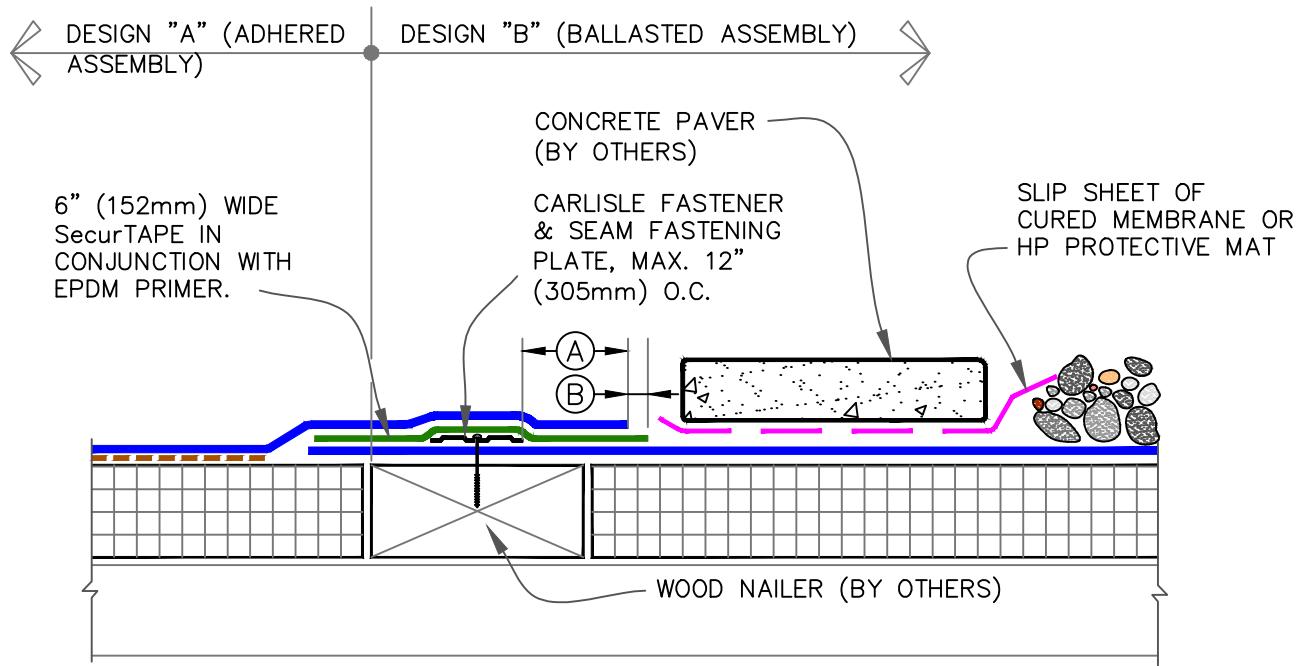
NOTES:

1. PRIOR TO SPLICING, CLEAN EXISTING EPDM MEMBRANE BY SCRUBBING THE SPLICING AREA WITH WEATHERED MEMBRANE CLEANER AND ALLOW TO DRY.
2. CONTACT MANUFACTURER OF EXISTING EPDM MEMBRANE ROOFING SYSTEM TO VERIFY ACCEPTANCE OF TIE-IN AND TO NOT VOID EXISTING WARRANTY.
3. FOR EXISTING BALLASTED SYSTEMS BY OTHERS, CONSULT RESPECTIVE MANUFACTURER FOR ACCEPTABLE GRAVEL CONTAINMENT TO PREVENT GRAVEL MIGRATION.
4. DRILL A 3/8" (10mm) DIAMETER WEEP HOLE INTO THE BOTTOM FLUTES OF THE STEEL DECK ALONG THE PERIMETER OF THE TIE-IN 6" (152mm) MINIMUM TO 12" (305mm) MAXIMUM FROM THE SEAM FASTENING PLATE.
5. ON MECHANICALLY FASTENED SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
6. ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH PRESSURE-SENSITIVE T-JOINT COVERS. REFER TO DETAIL U-2A OR DETAIL U-2A.1 FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL EPDM MEMBRANE.

	<ul style="list-style-type: none"> ● EPDM ● APPROVED SUBSTRATE ● SEE NOTE(S) 	TIE-IN TO EXISTING EPDM MEMBRANE <small>For additional information, refer to Specifications</small>		DETAIL NO. U-13C <small>THERMOSET UNIVERSAL</small>
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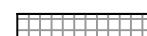
● EPDM	TIE-IN WITH SHINGLED ROOF	DETAIL NO.
● APPROVED SUBSTRATE	For additional information, refer to Specifications	U-13E
● SEE NOTE(S)		THERMOSET UNIVERSAL

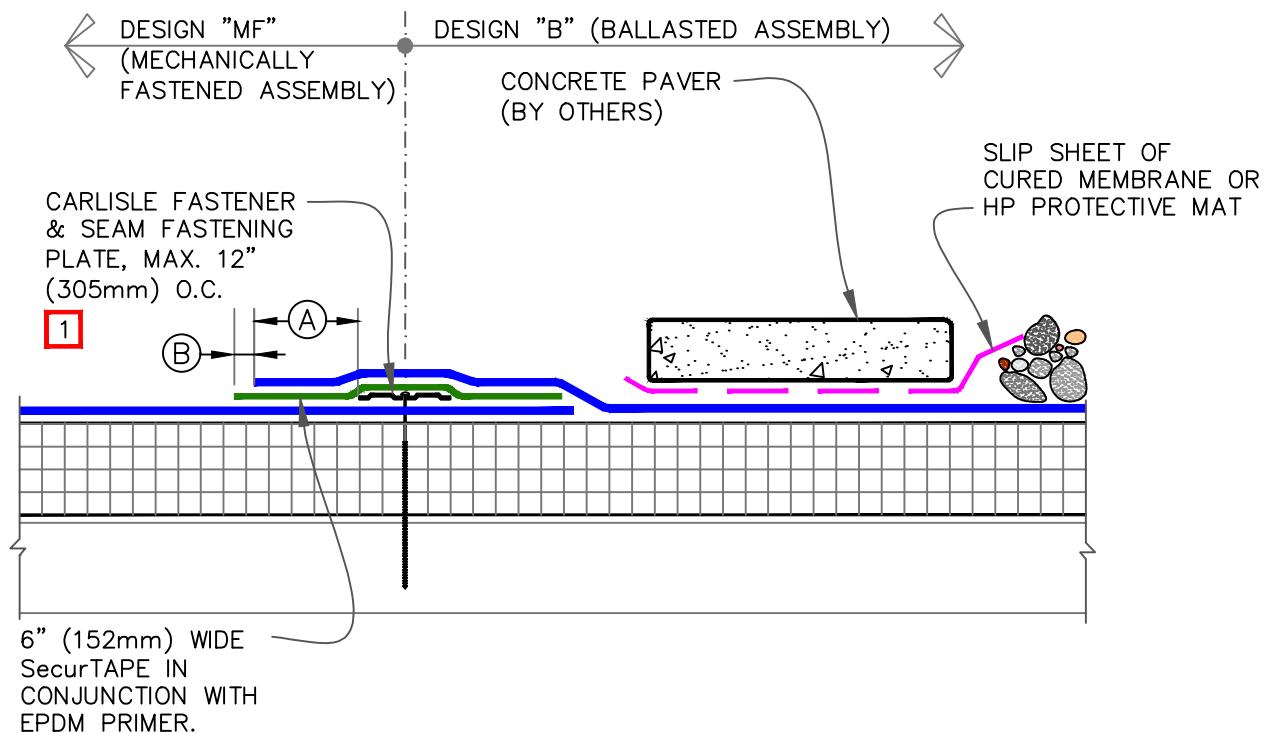


NOTE:

ALL SPLICE INTERSECTIONS MUST BE OVERLAD WITH PRESSURE-SENSITIVE T-JOINT COVERS. REFER TO DETAIL [U-2A OR DETAIL U-2A.1](#) FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL EPDM MEMBRANE.

DIMENSIONS	mm	
(A)	2"	51 MIN.
(B)	1/8"	3 MIN.
	1/2"	13 MAX.

 • EPDM  • APPROVED SUBSTRATE  0 • SEE NOTE(S)	TIE-IN BETWEEN NEW CARLISLE ADHERED & BALLASTED ROOF <small>For additional information, refer to Specifications</small>	 DETAIL NO. U-13F <small>THERMOSET UNIVERSAL</small>
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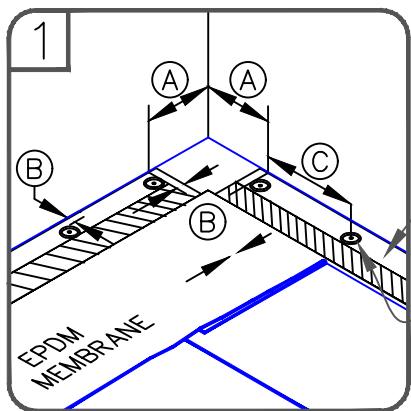


NOTES:

1. ON MECHANICALLY FASTENED SYSTEMS, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.
2. ALL SPLICING INTERSECTIONS MUST BE OVERLAIN WITH PRESSURE-SENSITIVE T-JOINT COVERS. REFER TO DETAIL U-2A OR DETAIL U-2A.1 FOR WARRANTY PROJECTS EXCEEDING 20-YEARS OR WHEN USING 90-MIL EPDM MEMBRANE.

DIMENSIONS	mm	
(A) 2"	51	MIN.
(B) 1/8"	3	MIN.
1/2"	13	MAX.

● EPDM	TIE-IN BETWEEN NEW CARLISLE MECHANICALLY FASTENED & BALLASTED ROOF	DETAIL NO. U-13G
● APPROVED SUBSTRATE	For additional information, refer to Specifications	
● SEE NOTE(S)	THERMOSET UNIVERSAL	

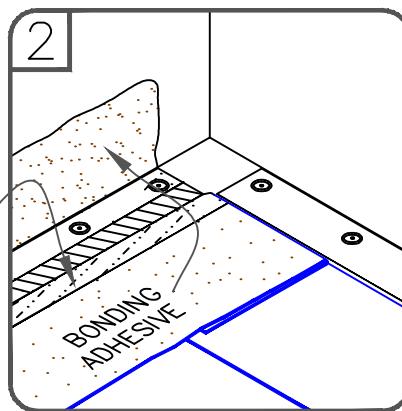


6" (152mm) WIDE PRESSURE-SENSITIVE RUSS

CARLISLE SEAM FASTENING PLATE & FASTENER.

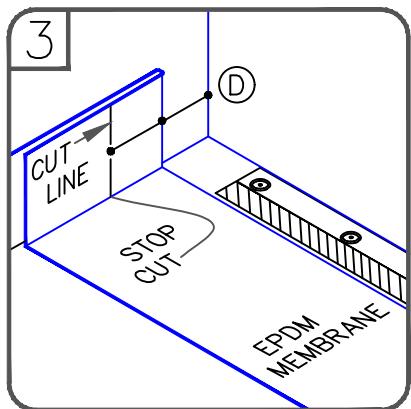
EPDM PRIMER

DIMENSIONS	mm	
(A)	6"	152 T0
	9"	229
(B)	1/8"	3 MIN.
	1"	25 MAX.
(C)	12"	305 MAX.
(D)	6"	152 MIN.



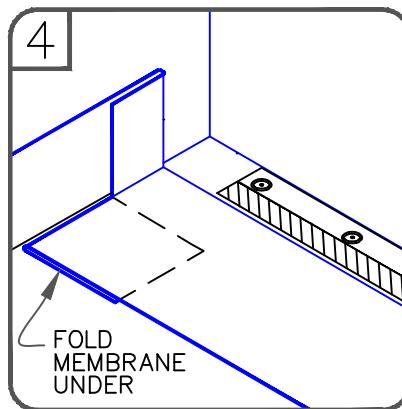
2

BONDING ADHESIVE



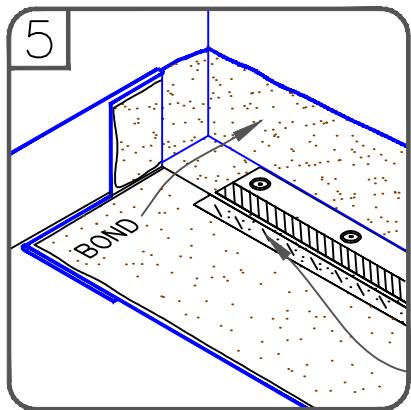
NOTE:

- PRESSURE-SENSITIVE ELASTOFORM FLASHING INSIDE / OUTSIDE CORNERS MUST BE USED.
- AS AN OPTION, 6" (152mm) WIDE PRESSURE-SENSITIVE RUSS MAY BE FASTENED INTO THE VERTICAL SUBSTRATE, SEE DETAIL U-12A.



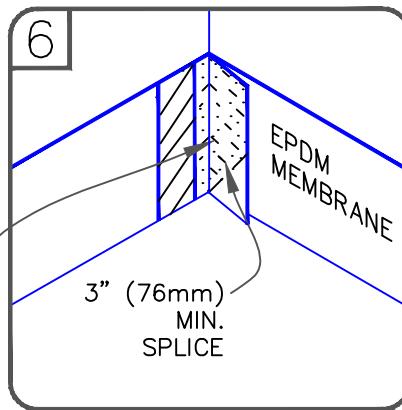
4

FOLD MEMBRANE UNDER



CUT 45° AND APPLY EPDM PRIMER/SecurTAPE

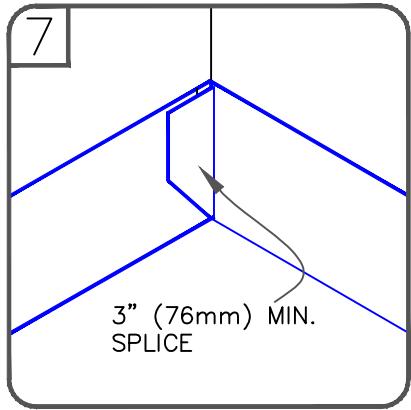
EPDM PRIMER



6

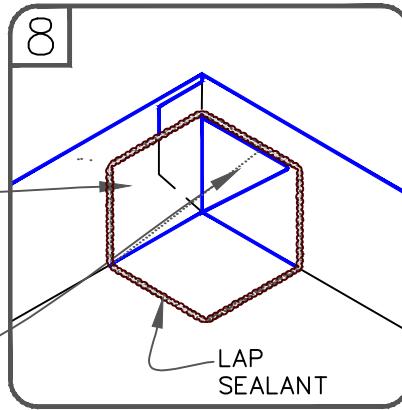
EPDM MEMBRANE

3" (76mm)
MIN.
SPLICE



9"X9" (229mm X 229mm)
PRESSURE- SENSITIVE
ELASTOFORM FLASHING OR
7"X9" (178mm X 229mm)
PRE-CUT PRESSURE-SENSITIVE
FLASHING. **FOR PROJECTS WITH
25 AND 30-YEAR WARRANTIES
OR WHEN USING 90-MIL
MEMBRANE, REFER TO DETAIL
U-15C.**

PIG EAR ON OPPOSITE WALL



8

LAP
SEALANT

	• EPDM
	• APPROVED SUBSTRATE
	• SEE NOTE(S)

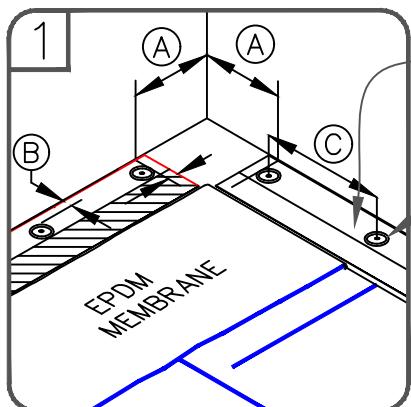
INSIDE CORNER WITH RUSS
(OPTION 1)

For additional information, refer to Specifications

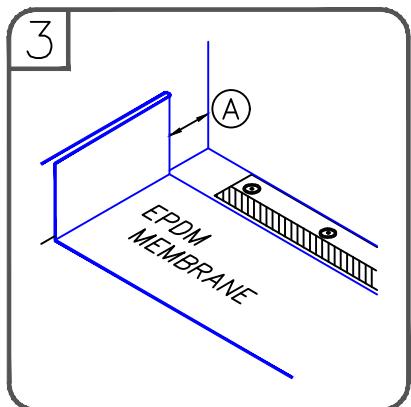
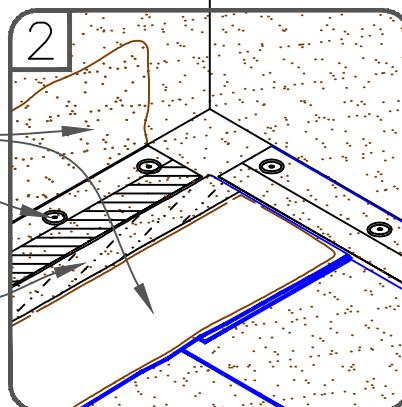
	DETAIL NO.
EPDM	U-15A
THERMOSET UNIVERSAL	

THERMOSET MEMBRANE

EPDM



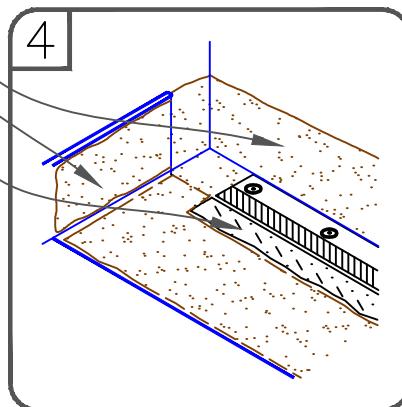
- 6" (152mm) WIDE PRESSURE-SENSITIVE RUSS
- SURE-SEAL BONDING ADHESIVE
- CARLISLE SEAM FASTENING PLATE & FASTENER.
- EPDM PRIMER



SURE-SEAL BONDING ADHESIVE

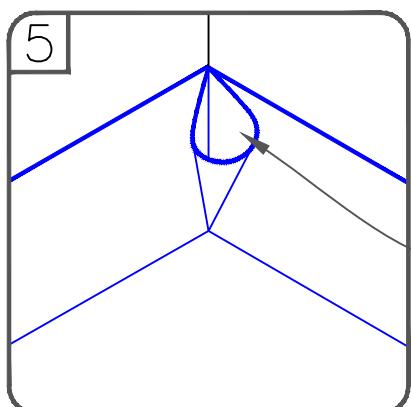
EPDM PRIMER

DIMENSIONS	mm	
(A)	6"	152 TO
	9"	229
(B)	1/8"	3 MIN.
	1"	25 MAX.
(C)	12"	305 O.C.



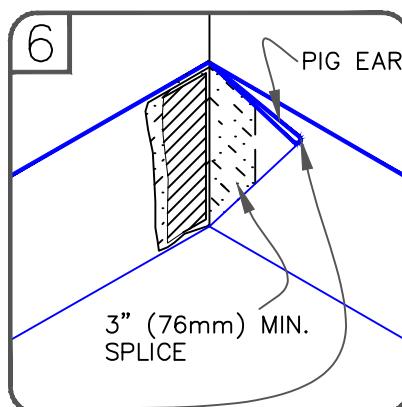
NOTE:

- AS AN OPTION, 6" (152mm) WIDE PRESSURE-SENSITIVE RUSS MAY BE FASTENED INTO THE VERTICAL SUBSTRATE, SEE DETAIL U-12A.

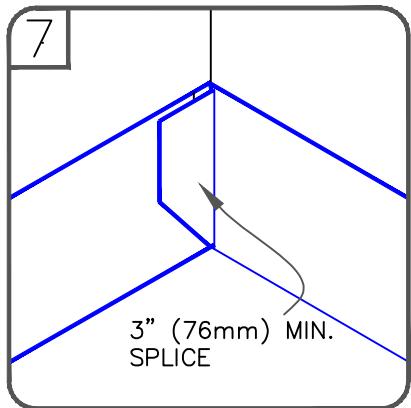


FORM PIG EAR WITH CONTINUOUS MEMBRANE AT CORNER AS SHOWN

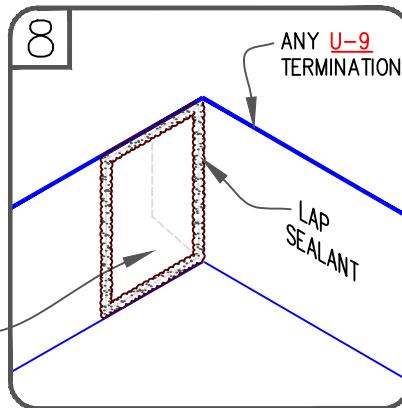
CUT & REMOVE EXCESSIVE MEMBRANE



3" (76mm) MIN. SPLICE



6" (152mm) WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING IN CONJUNCTION WITH EPDM PRIMER



DETAIL NO.

U-15B



THERMOSET UNIVERSAL

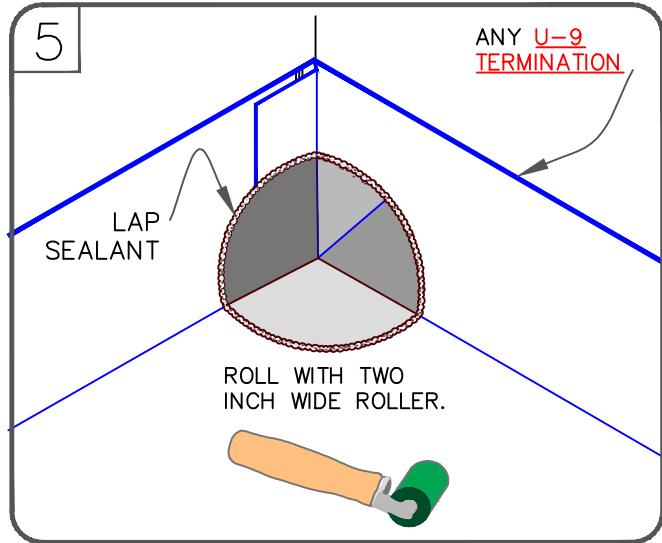
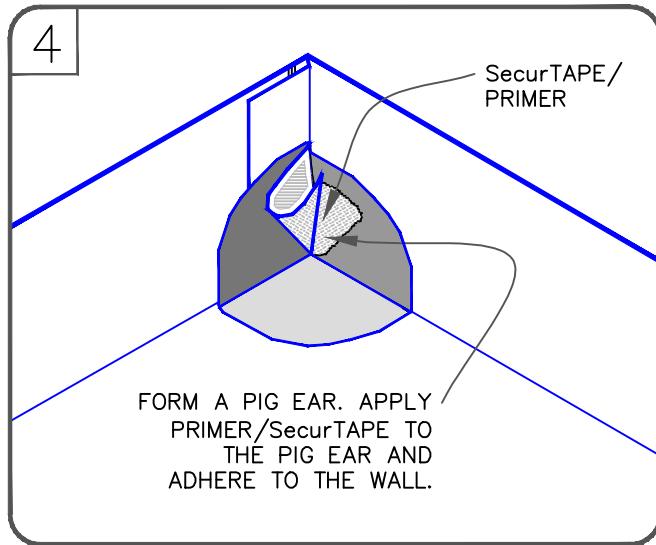
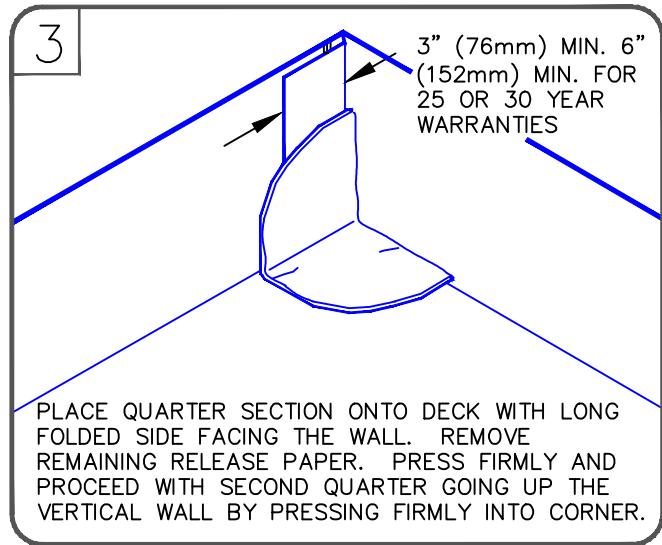
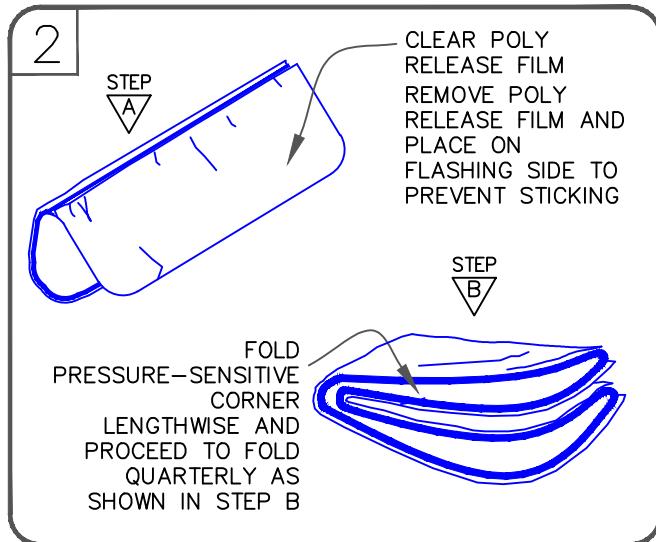
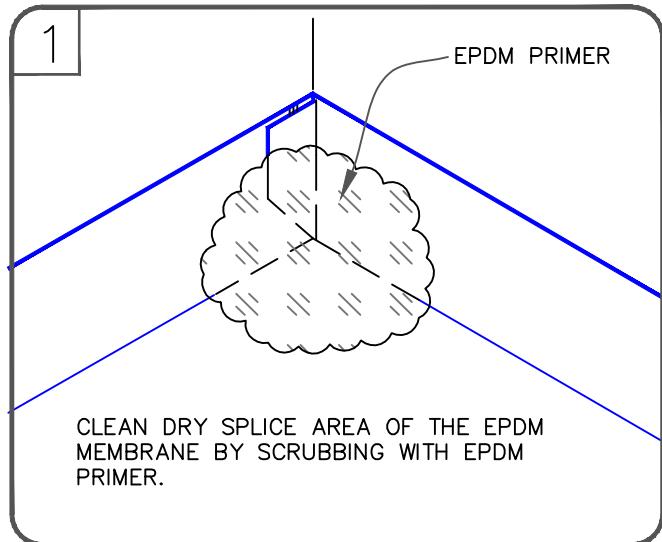
	• EPDM
	• APPROVED SUBSTRATE
	• SEE NOTE(S)

INSIDE CORNER WITH RUSS
(OPTION 2)

For additional information, refer to Specifications

THERMOSET MEMBRANE

EPDM



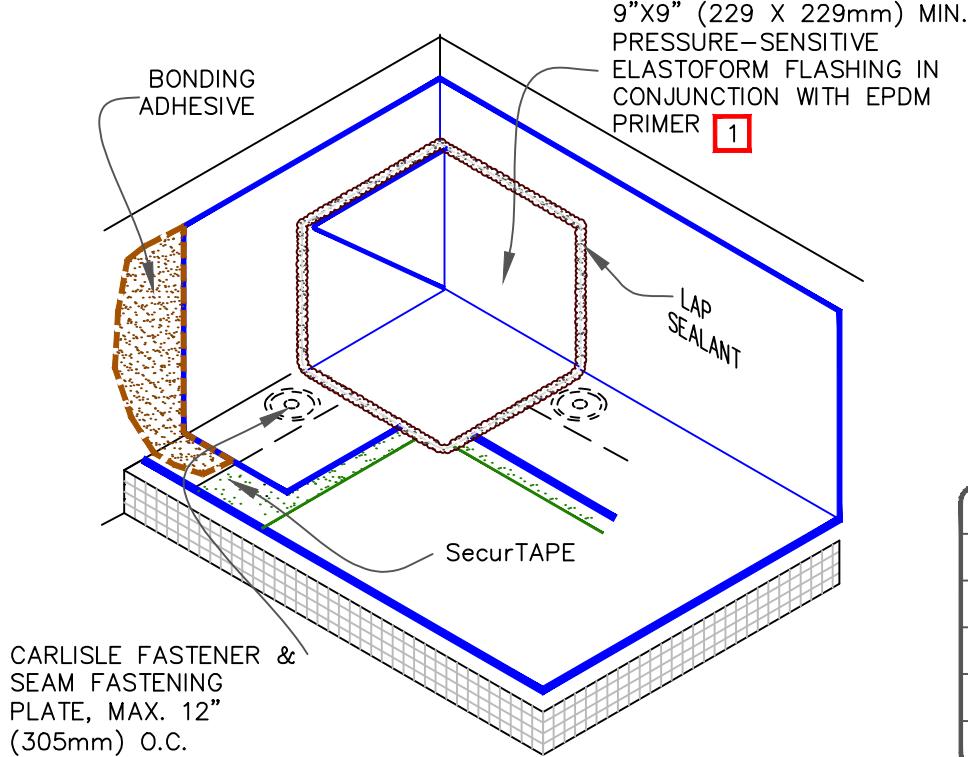
NOTES:

1. FOR PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL INSIDE CORNERS MUST BE COMPLETED WITH TWO LAYERS OF PRESSURE-SENSITIVE FLASHING. THE BOTTOM LAYER SHALL BE A PRESSURE-SENSITIVE PRE-CUT T-JOINT COVER OR A 6'X6" (152mm X 152mm) PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE COVERED WITH A 12"X12" (305mm X 305mm) TOP LAYER OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
2. EPDM PRIMER MUST BE APPLIED TO ALL SPLICE AREAS AND FOR EACH LAYER OF PRESSURE-SENSITIVE FLASHING.

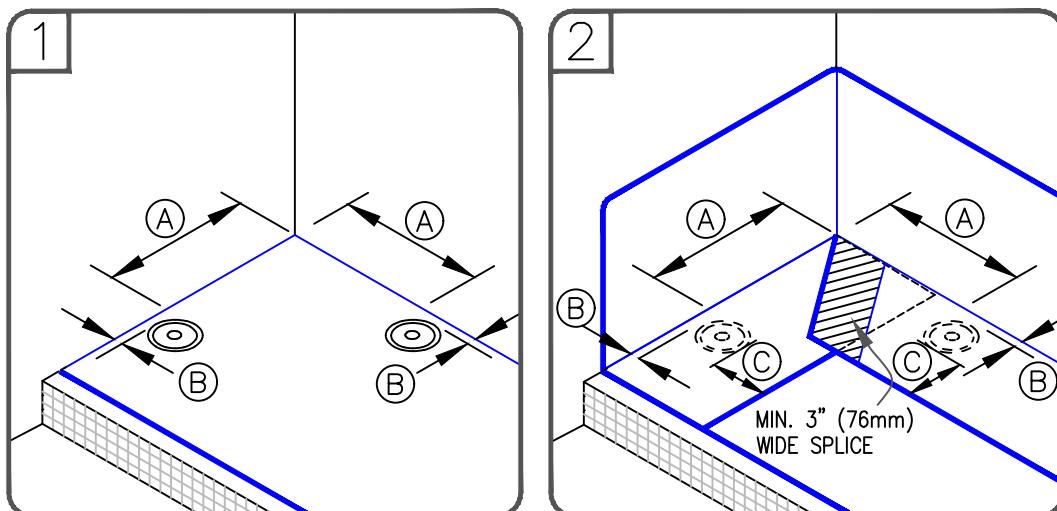
● EPDM	INSIDE CORNER WITH CONTINUOUS EPDM WALL FLASHING	DETAIL NO.
● APPROVED SUBSTRATE		
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO
[DETAIL U-15D.1](#) FOR REQUIRED FLASHING ENHANCEMENTS.



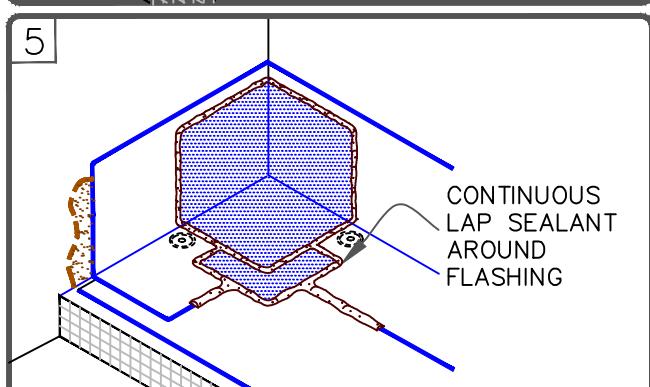
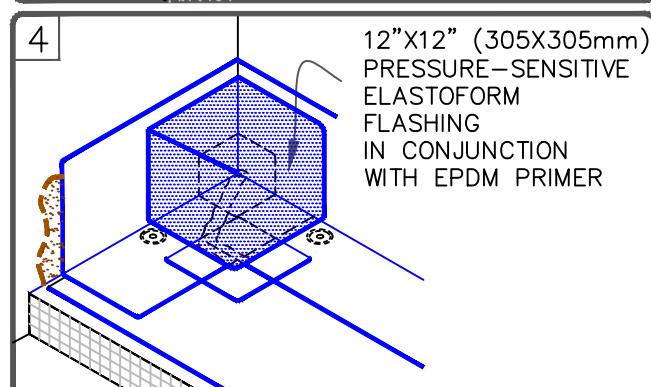
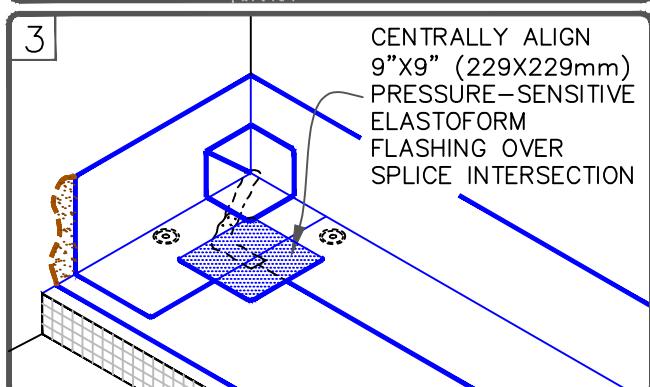
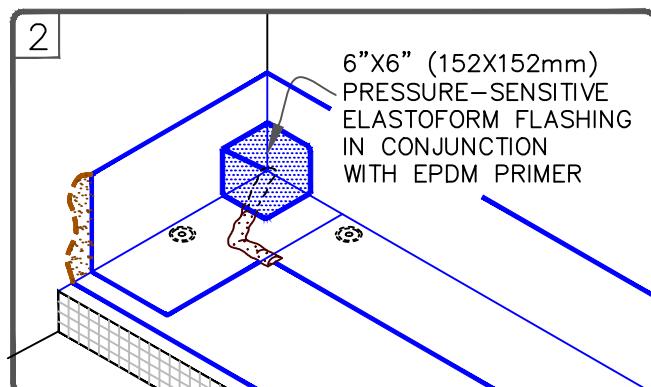
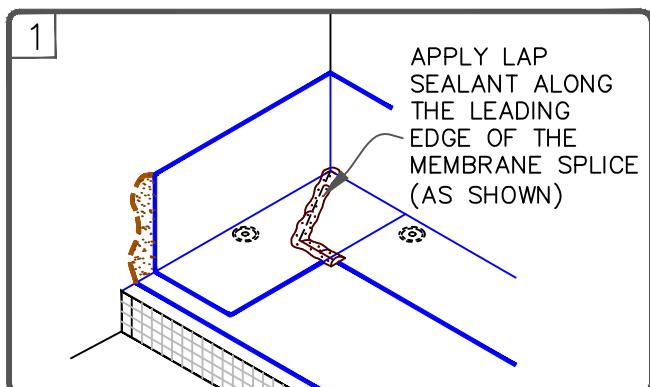
DIMENSIONS		mm	
(A)	6"	152	TO
	9"	229	
(B)	1/8"	3	MIN.
	1"	25	MAX.
(C)	3"	76	MIN.



NOTES:

1. APPLY EPDM PRIMER TO THE MEMBRANE SURFACES PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.
2. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.

—●— EPDM	INSIDE CORNER WITH SEPARATE EPDM WALL FLASHING	DETAIL NO.
—●— APPROVED SUBSTRATE		 U-15D
—●— SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

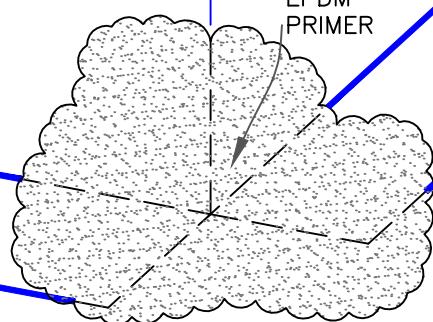


NOTES:

1. FOR PROJECTS WITH 25 AND 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, ALL INSIDE CORNERS MUST BE OVERLAIDED WITH TWO LAYERS OF PRESSURE-SENSITIVE FLASHING. THE BOTTOM LAYER SHALL BE A 7"X9" (178mm X 229mm) PRESSURE-SENSITIVE PRE-CUT INSIDE/OUTSIDE CORNER OR A 6"X6" (152mm X 152mm) PRESSURE-SENSITIVE ELASTOFORM FLASHING PIECE COVERED WITH A 12"X12" (305mm X 305mm) OF PRESSURE-SENSITIVE ELASTOFORM FLASHING. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
2. EPDM PRIMER MUST BE APPLIED TO ALL SPLICE AREAS AND FOR EACH LAYER OF PRESSURE-SENSITIVE FLASHING.

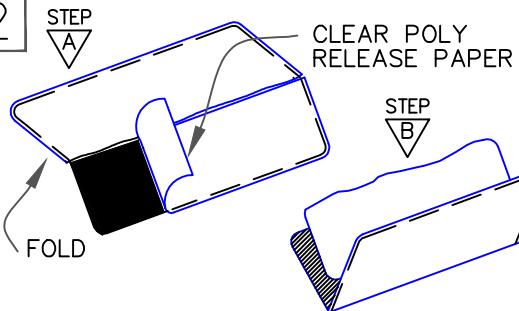
<ul style="list-style-type: none"> • EPDM • APPROVED SUBSTRATE • SEE NOTE(S) 	INSIDE CORNER FLASHING FOR PROJECTS WITH 90-MIL MEMBRANE OR 25 & 30-YEAR WARRANTIES <small>For additional information, refer to Specifications</small>	<p>DETAIL NO. U-15D.1</p> <p>THERMOSET UNIVERSAL</p>
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1



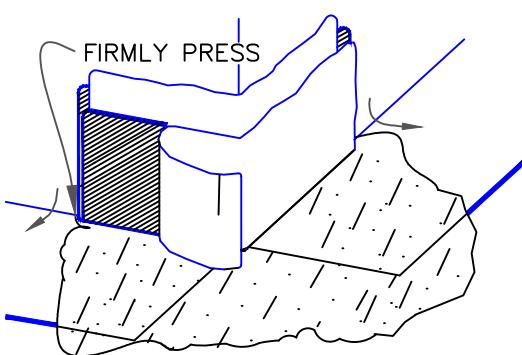
CLEAN THE DRY SPLICE AREA OF THE EPDM MEMBRANE BY SCRUBBING WITH EPDM PRIMER.

2



PRIOR TO PLACEMENT OF SURE-SEAL CORNER, PEEL OFF THE BLUE POLY RELEASE FILM AND HEAT THE FLASHING SIDE WITH A HEAT GUN. RE-APPLY THE POLY LOOSELY. FOLD THE FLASHING IN HALF.

3



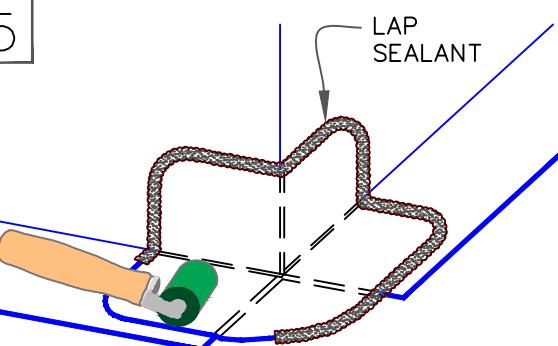
PLACE SURE-SEAL INSIDE/OUTSIDE CORNER AS SHOWN AND REMOVE RELEASE PAPER. PRESS FOLDED FLASHING TIGHTLY INTO ANGLE CHANGE AND FIRMLY PRESS FLASHING AGAINST THE VERTICAL SURFACE.

4



PLACE FOLDED FLASHING TIGHTLY INTO ANGLE CHANGE AND FIRMLY PRESS FLASHING ONTO THE DECK FLANGE BY PRESSING THE FLASHING AGAINST THE HORIZONTAL SURFACE.

5



ROLL WITH A TWO INCH WIDE ROLLER. PAY PARTICULAR ATTENTION TO THE STEP OFFS AND ANGLE CHANGE.

NOTE:

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-15H](#) FOR REQUIRED FLASHING ENHANCEMENTS.

	• EPDM
	• APPROVED SUBSTRATE
	• SEE NOTE(S)

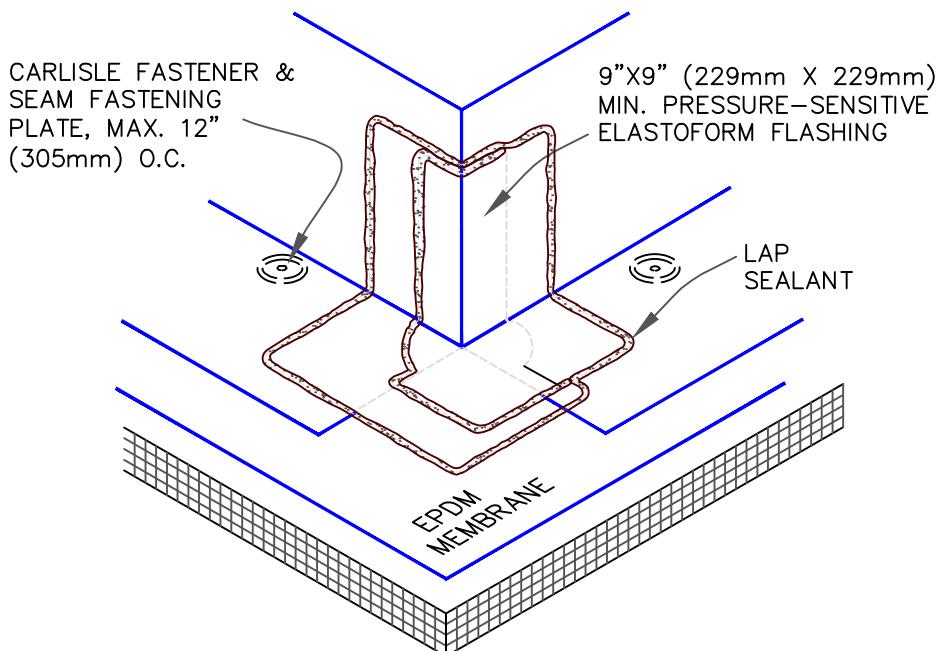
OUTSIDE CORNER WITH PRE-CUT
PRESSURE-SENSITIVE FLASHING

For additional information, refer to Specifications

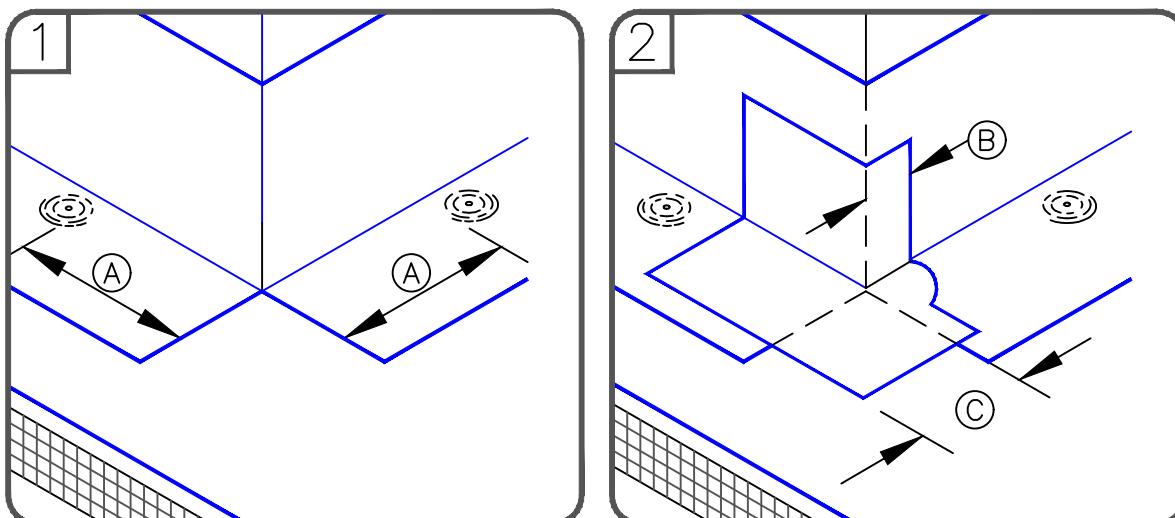
	DETAIL NO.
	U-15E
	THERMOSET UNIVERSAL

CAUTION

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO [DETAIL U-15H](#) FOR REQUIRED FLASHING ENHANCEMENTS.



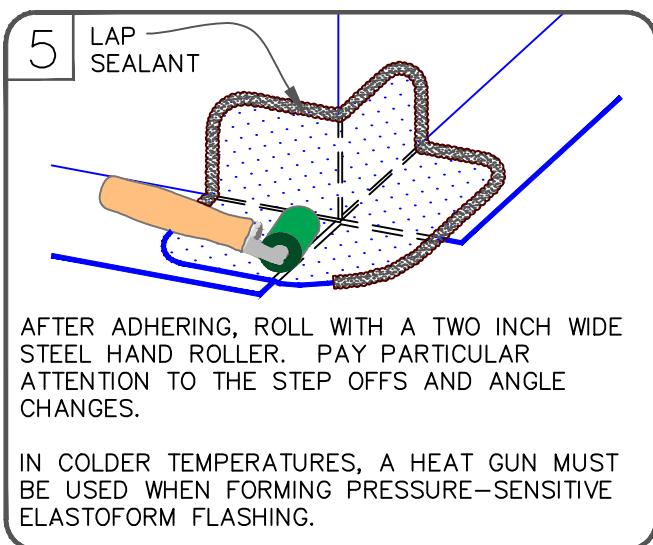
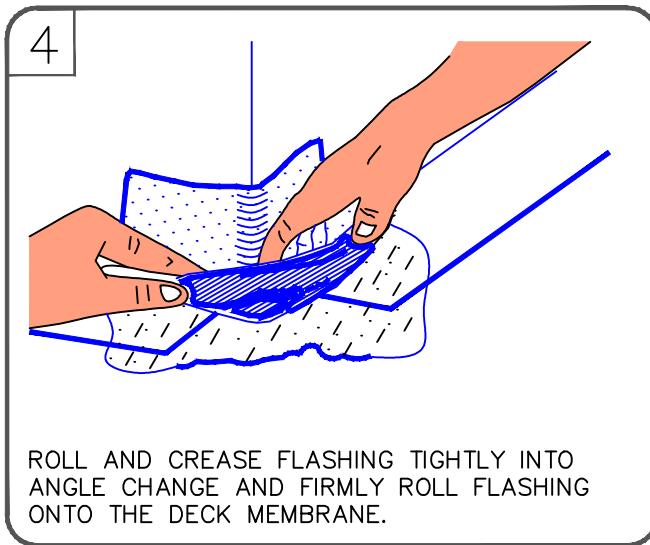
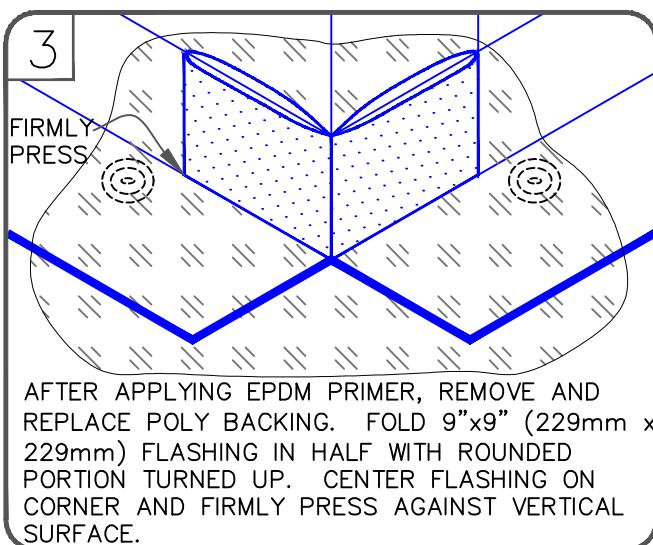
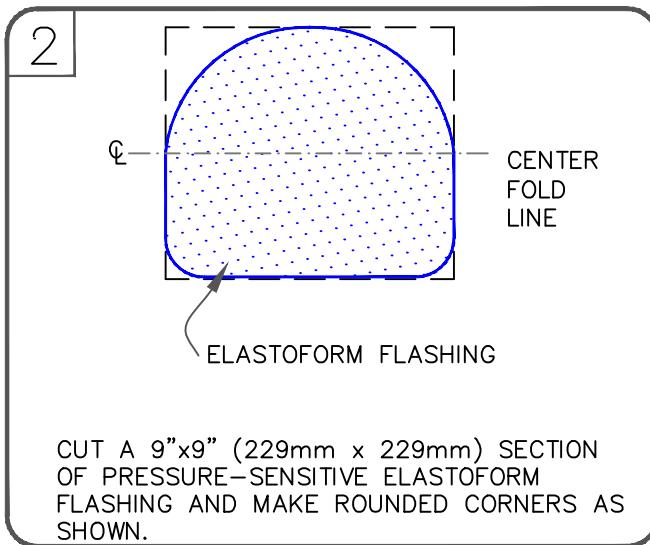
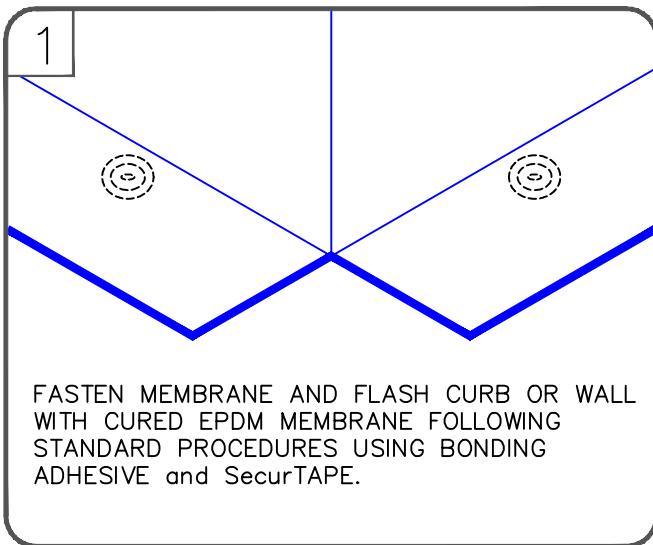
DIMENSIONS		mm	
(A)	6"	152	TO
	9"	229	
(B)	2"	51	MIN.
(C)	3"	76	MAX.



NOTES:

1. APPLY EPDM PRIMER TO THE MEMBRANE SURFACES PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.
2. PRESSURE-SENSITIVE ELASTOFORM FLASHING TO OVERLAP DECK MEMBRANE 3" (76mm) MINIMUM AND EXTEND 2" (51mm) MINIMUM AROUND CORNERS.
3. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.

● EPDM ● APPROVED SUBSTRATE 0 ● SEE NOTE(S)	OUTSIDE CORNER WITH PRESSURE-SENSITIVE ELASTOFORM FLASHING (OPTION 1) <small>For additional information, refer to Specifications</small>	DETAIL NO. U-15F <small>THERMOSET UNIVERSAL</small>
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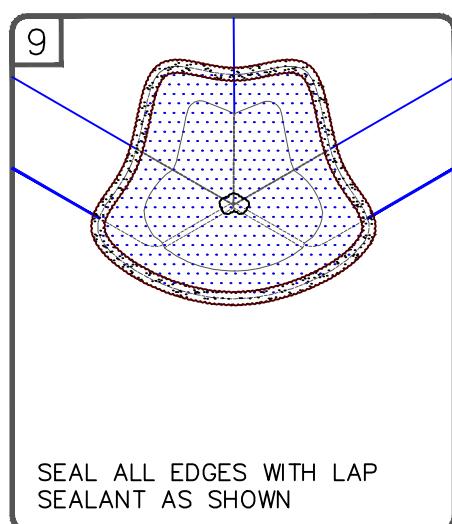
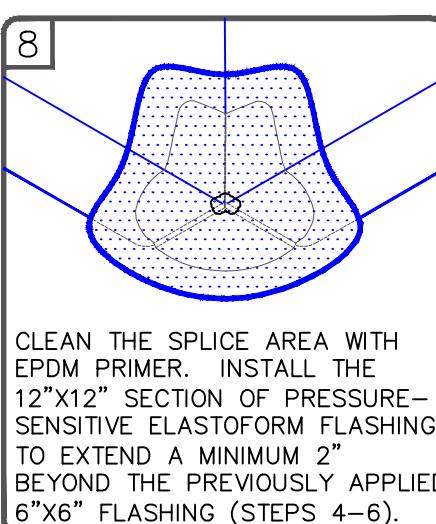
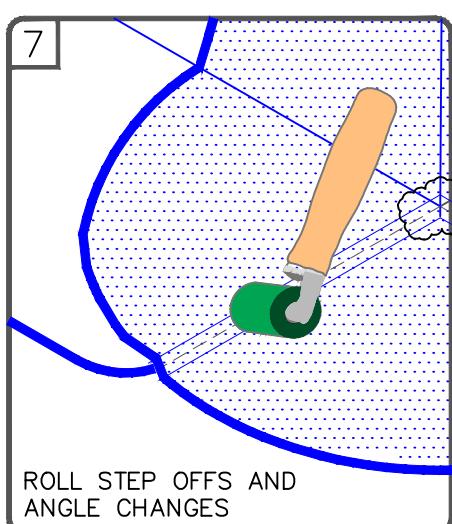
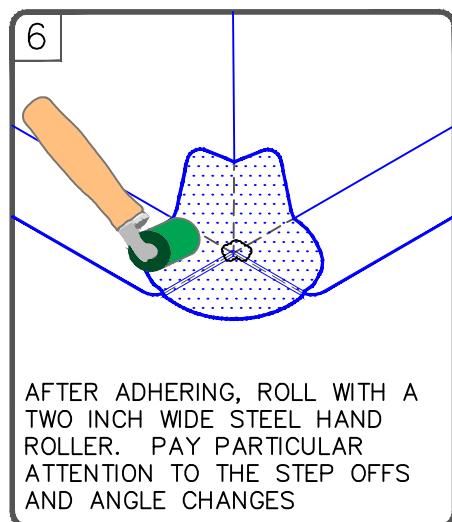
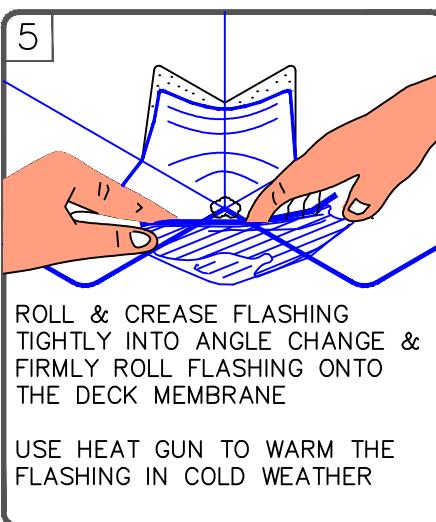
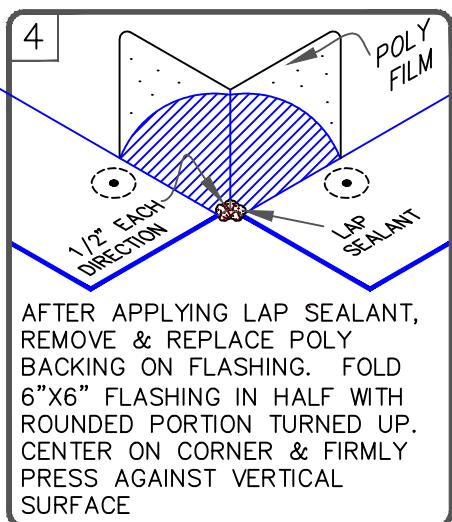
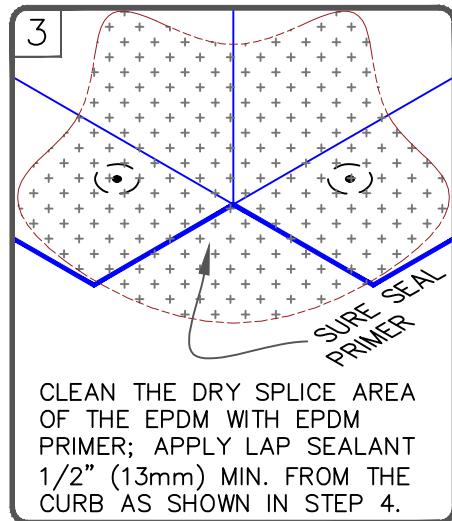
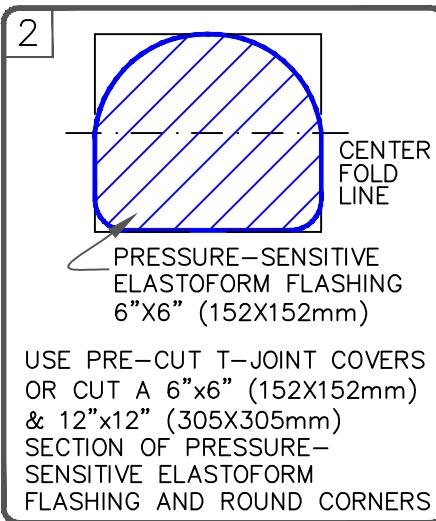
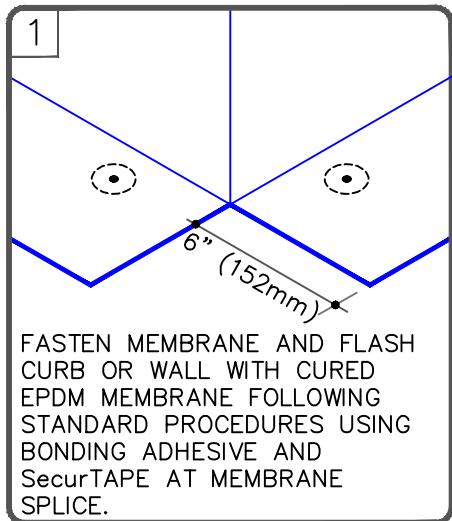
NOTE:

FOR PROJECTS WITH 25 & 30-YEAR WARRANTIES OR WHEN USING 90-MIL MEMBRANE, REFER TO **DETAIL U-15H** FOR REQUIRED FLASHING ENHANCEMENTS.

● EPDM	OUTSIDE CORNER WITH PRESSURE-SENSITIVE ELASTOFORM FLASHING (OPTION 2)	DETAIL NO.
● APPROVED SUBSTRATE		U-15G
0 ● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

THERMOSET MEMBRANE

EPDM



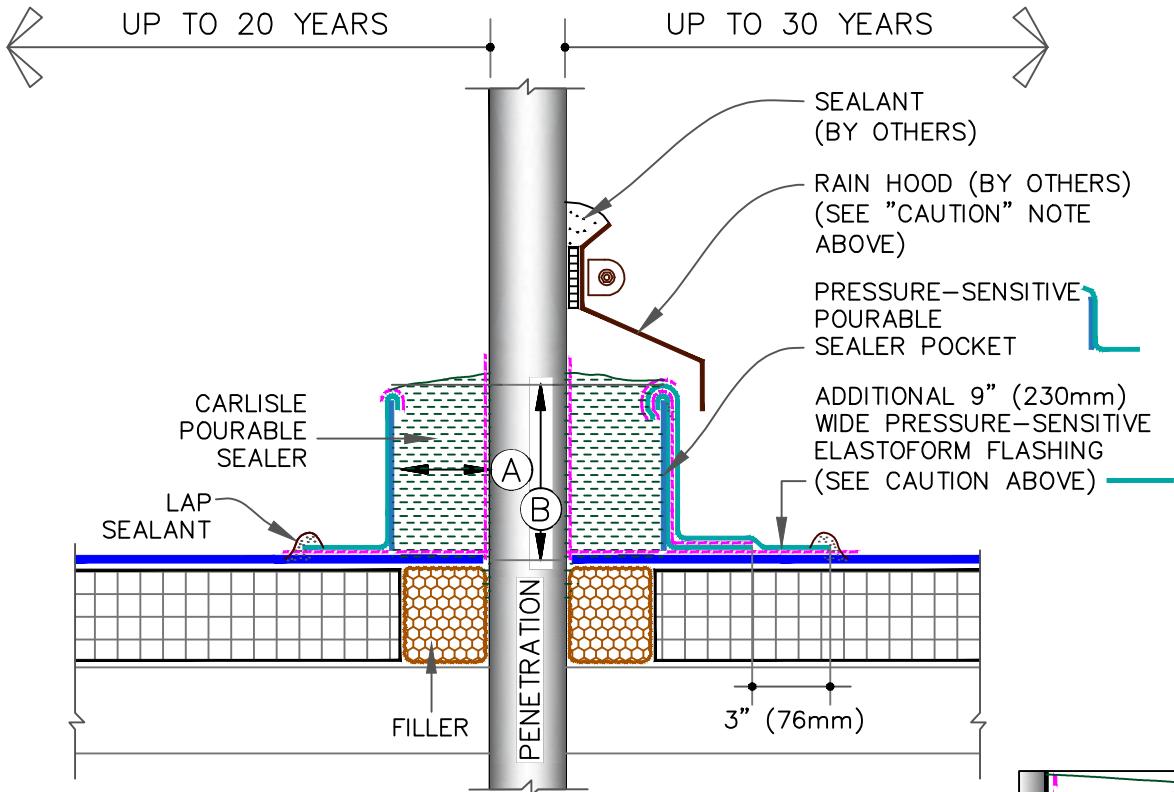
	EPDM
	APPROVED SUBSTRATE
	SEE NOTE(S)

OUTSIDE CORNER FLASHING FOR PROJECTS WITH 90-MIL MEMBRANE OR 25 & 30-YEAR WARRANTIES
For additional information, refer to Specifications

	DETAIL NO. U-15H
	THERMOSET UNIVERSAL

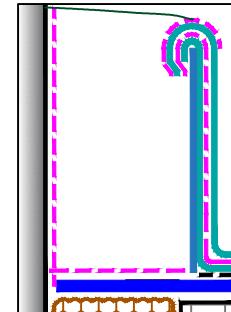
CAUTION

POURABLE SEALER POCKETS MUST BE USED IN CONJUNCTION WITH RAIN HOODS AND AN EXTRA LAYER OF PRESSURE SENSITIVE ELASTOFORM FLASHING [EXTENDING 3" (76mm) BEYOND THE BASE LAYER OF FLASHING] FOR PROJECTS WITH 25 AND 30-YEAR WARRANTIES.



NOTES:

1. THE MAXIMUM ALLOWABLE SURFACE TEMPERATURE OF THE PENETRATION SHALL NOT EXCEED 180° F (82° C).
2. ALL DEBRIS (PAINT, RUST, LEAD, OTHER FLASHINGS, ETC.) MUST BE REMOVED FROM THE PENETRATION.
3. PENETRATIONS, MEMBRANE, FLASHING AND METAL (INSIDE POCKET) MUST BE PRIMED WITH EPDM PRIMER PRIOR TO APPLYING POURABLE SEALER. DO NOT PRIME THE BLUE PLASTIC SUPPORT STRIP.
4. POURABLE SEALER MUST COMPLETELY FILL POURABLE SEALER POCKET TO PREVENT PONDING OF WATER.
5. POURABLE SEALER MUST CONTACT PRIMED PRESSURE-SENSITIVE ELASTOFORM FLASHING AND DECK MEMBRANE.
6. SECUREMENT IS REQUIRED FOR POURABLE SEALER POCKETS WHICH ARE GREATER THAN 18" (457mm) IN DIAMETER. REFER TO SPECIFICATIONS.
7. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED (SIMILAR TO DETAIL MF-8A) REGARDLESS OF SIZE OR DIAMETER.
8. PIPE CLUSTERS MUST HAVE MINIMUM 1" (25mm) CLEARANCE BETWEEN PENETRATIONS.



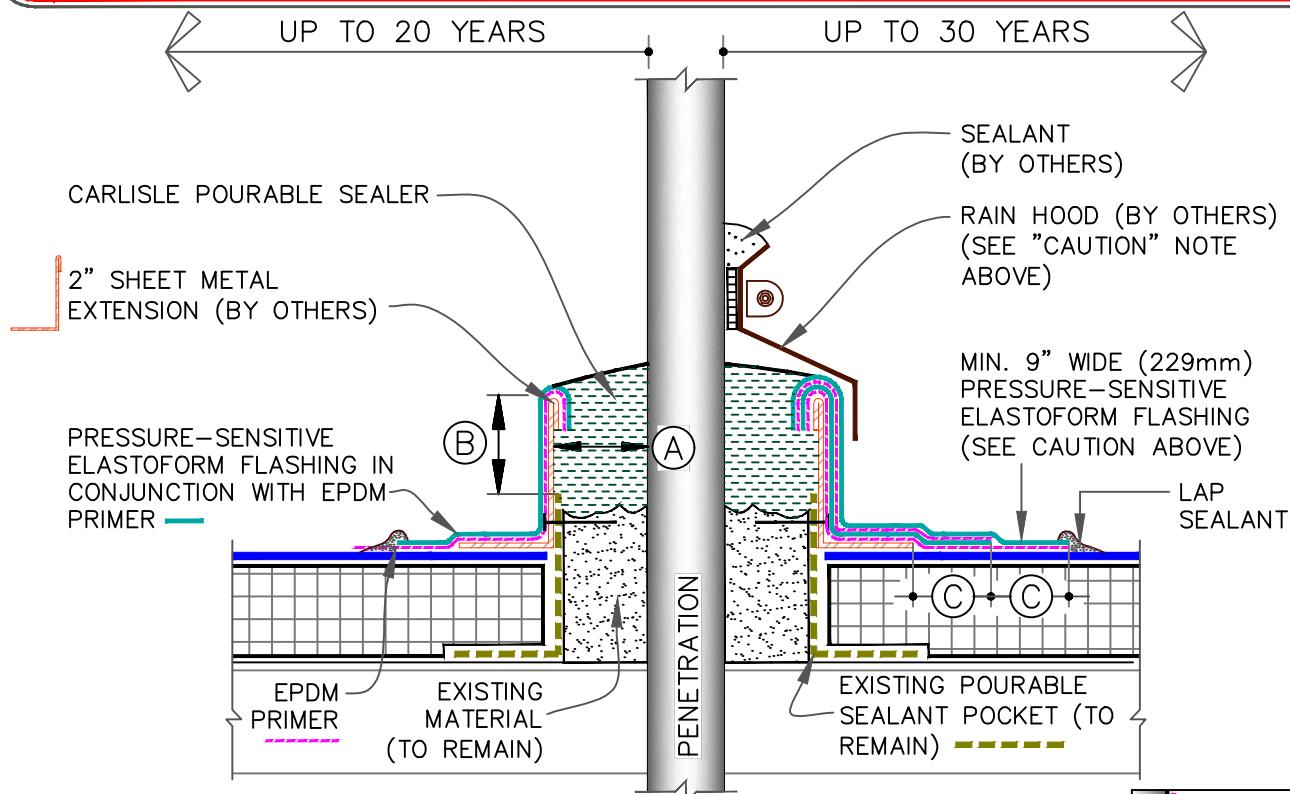
MANDATORY EPDM PRIMER AT ALL INTERFACES OF POURABLE SEALER EXCEPT BLUE PLASTIC SUPPORT STRIP

DIMENSIONS		mm	
(A)	1"	25	MIN.
(B)	2"	51	MIN.

● EPDM	PRESSURE-SENSITIVE POURABLE SEALER POCKET	DETAIL NO.
● APPROVED SUBSTRATE		U-16A
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

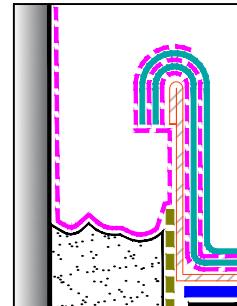
CAUTION

POURABLE SEALER POCKETS MUST BE USED IN CONJUNCTION WITH RAIN HOODS AND AN EXTRA LAYER OF PRESSURE SENSITIVE ELASTOFORM FLASHING (EXTENDING 3" BEYOND THE BASE LAYER OF FLASHING) FOR PROJECTS WITH 25 AND 30-YEAR WARRANTIES.



NOTES:

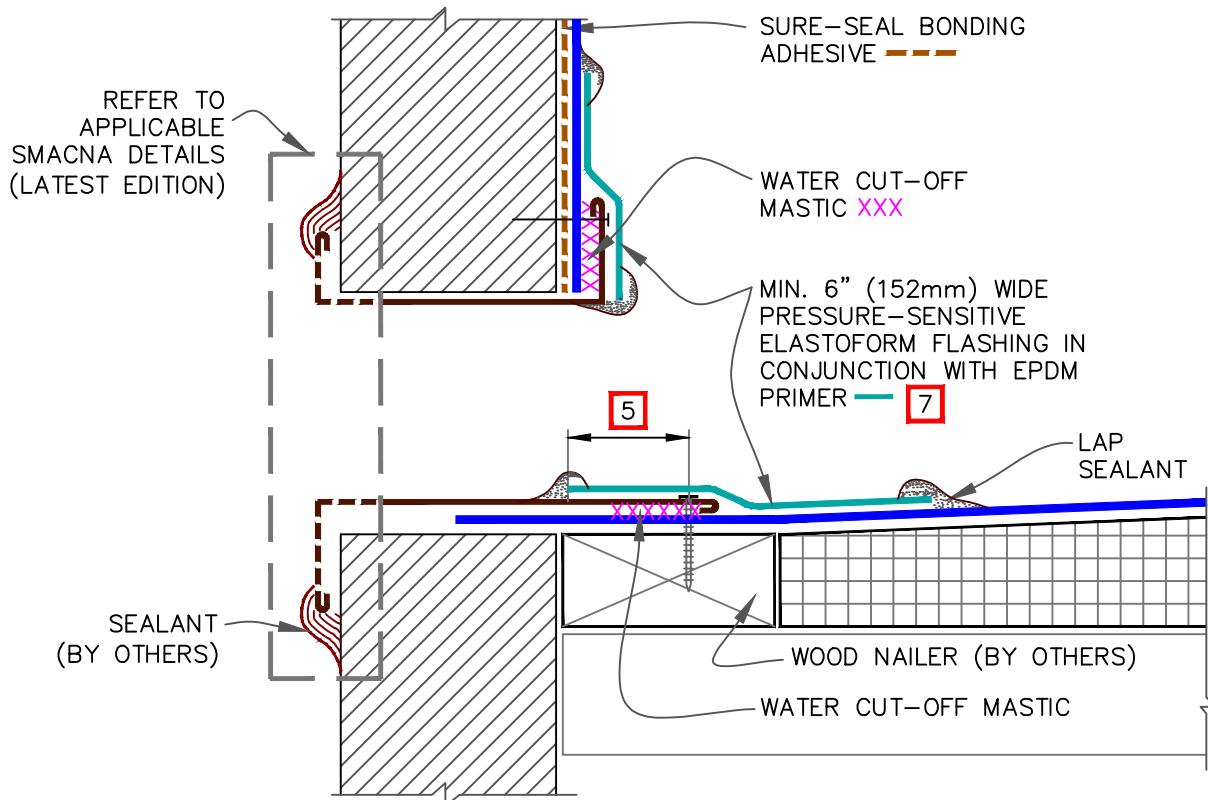
1. THE MAXIMUM ALLOWABLE SURFACE TEMPERATURE OF THE PENETRATION SHALL NOT EXCEED 180° F (82° C).
2. ALL DEBRIS (PAINT, RUST, LEAD, OTHER FLASHINGS, ETC.) MUST BE REMOVED FROM THE PENETRATION.
3. PENETRATIONS, MEMBRANE, FLASHING AND METAL (INSIDE POCKET) MUST BE PRIMED WITH EPDM PRIMER PRIOR TO APPLYING POURABLE SEALER.
4. POURABLE SEALER MUST COMPLETELY FILL POURABLE SEALER POCKET TO PREVENT PONDING OF WATER.
5. POURABLE SEALER MUST CONTACT PRIMED PRESSURE-SENSITIVE ELASTOFORM FLASHING AND DECK MEMBRANE.
6. SHAPE METAL DAM TO FIT EXISTING PITCH POCKET.
7. SECUREMENT IS REQUIRED FOR POURABLE SEALER POCKETS WHICH ARE GREATER THAN 18" (457mm) IN DIAMETER. REFER TO SPECIFICATIONS.
8. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED (SIMILAR TO **DETAIL MF-8A**) REGARDLESS OF SIZE OR DIAMETER.
9. PIPE CLUSTERS MUST HAVE MINIMUM 1" (25mm) CLEARANCE BETWEEN PENETRATIONS.



MANDATORY EPDM PRIMER AT ALL INTERFACES OF POURABLE SEALER VS. ANY OTHER COMPONENT & AS SHOWN UNDER **FLASHING**

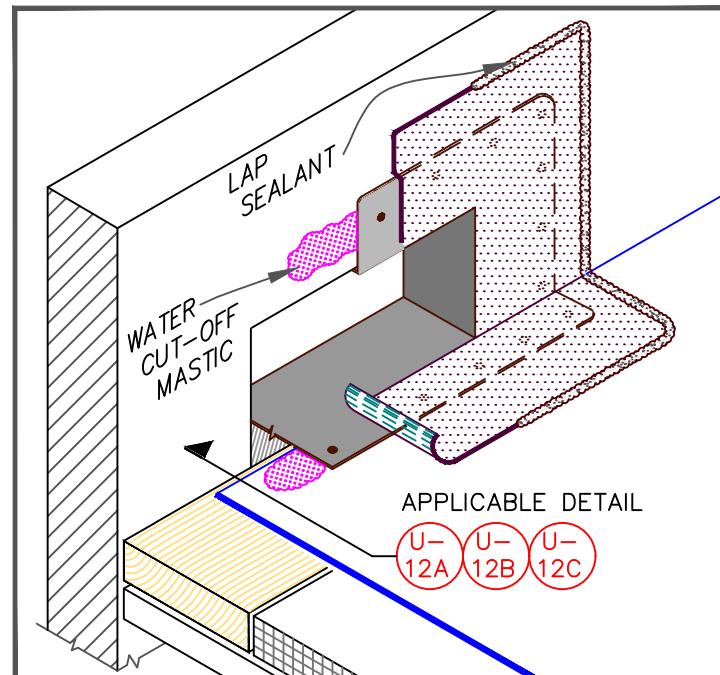
DIMENSIONS	mm	
(A)	1"	25 MIN.
(B)	2"	51 MIN.
(C)	3"	76

● EPDM	EXTENDED POURABLE SEALER POCKET	DETAIL NO.
● APPROVED SUBSTRATE	For additional information, refer to Specifications	U-16C
● SEE NOTE(S)		THERMOSET UNIVERSAL



NOTES:

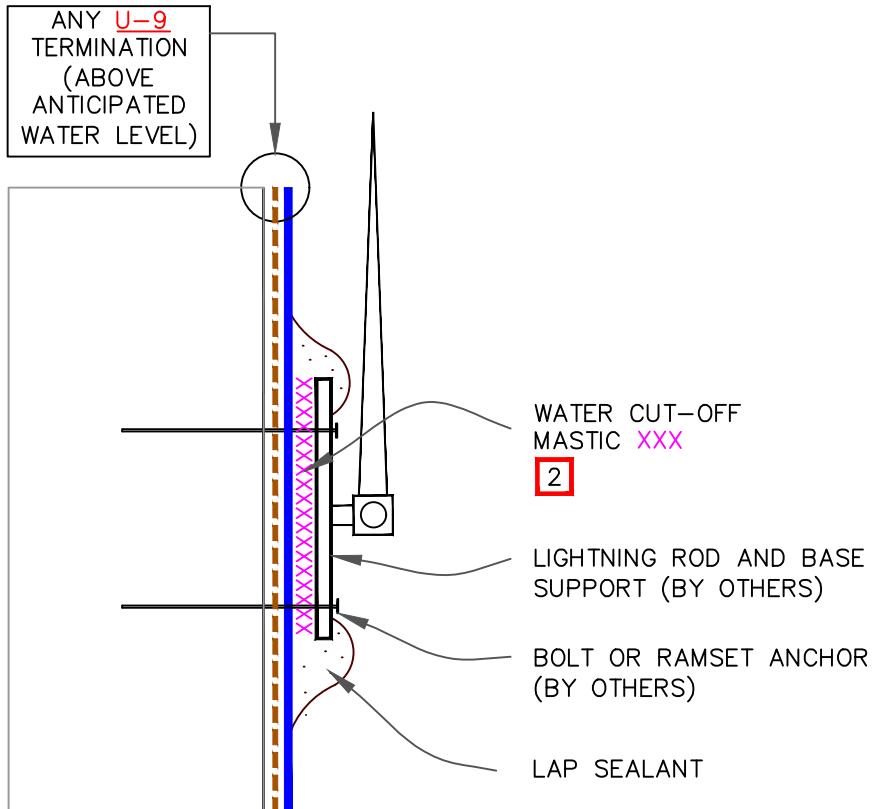
1. WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
3. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS. SOLDER ALL SCUPPER SEAMS WATER-TIGHT.
4. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
5. SCUPPER FLANGES MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE ELASTOFORM FLASHING WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.
6. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING EPDM PRIMER.
7. APPLY EPDM PRIMER TO METAL FLANGE AND MEMBRANE SURFACE PRIOR TO INSTALLING PRESSURE-SENSITIVE FLASHING.



● EPDM	METAL SCUPPER AT DECK	DETAIL NO.
● APPROVED SUBSTRATE		U-18A
○ SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL

CAUTION

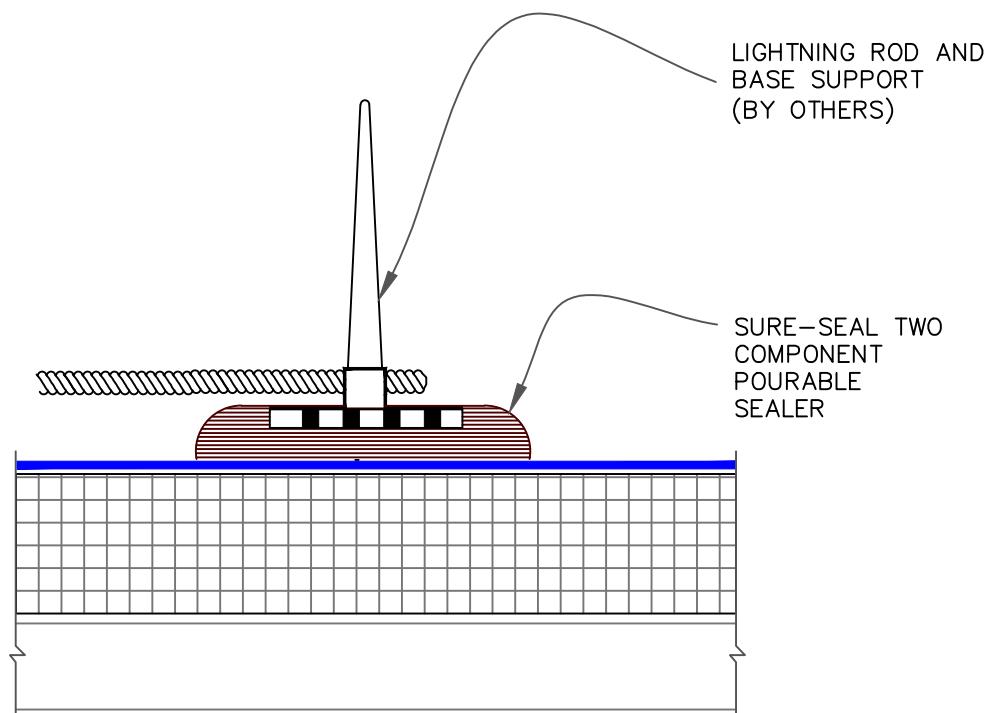
DETAIL UNACCEPTABLE FOR HORIZONTAL APPLICATIONS ON ROOF DECK.



NOTES:

1. DETAIL MAY BE USED FOR ANY FASTENER PENETRATION (E.G., ACCESS LADDER, ANCHOR SUPPORT TO PARAPET).
2. WATER CUT-OFF MASTIC MUST BE UNDER CONSTANT COMPRESSION.

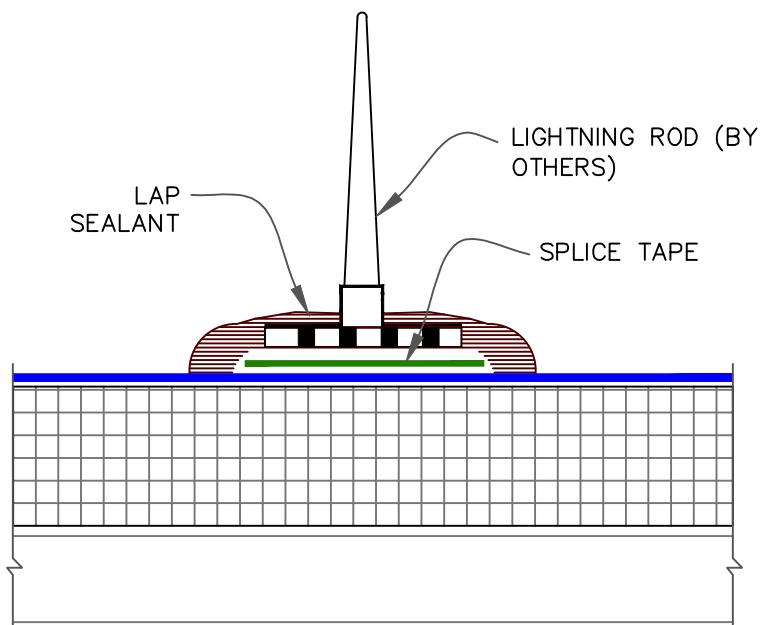
● EPDM	LIGHTNING ROD AT PARAPET (VERTICAL ATTACHMENT)	DETAIL NO.
● APPROVED SUBSTRATE		U-20A
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



NOTES:

1. CLEAN EXPOSED MEMBRANE WITH WEATHERED MEMBRANE CLEANER AND ALLOW TO DRY.
2. PRIOR TO THE APPLICATION OF POURABLE SEALER, APPLY EPDM PRIMER TO THE MEMBRANE AND LIGHTNING ROD BASE ACHIEVING A VERY THIN EVEN COAT ON BOTH SURFACES. ALLOW PRIMER TO DRY UNTIL IT IS TACK FREE.

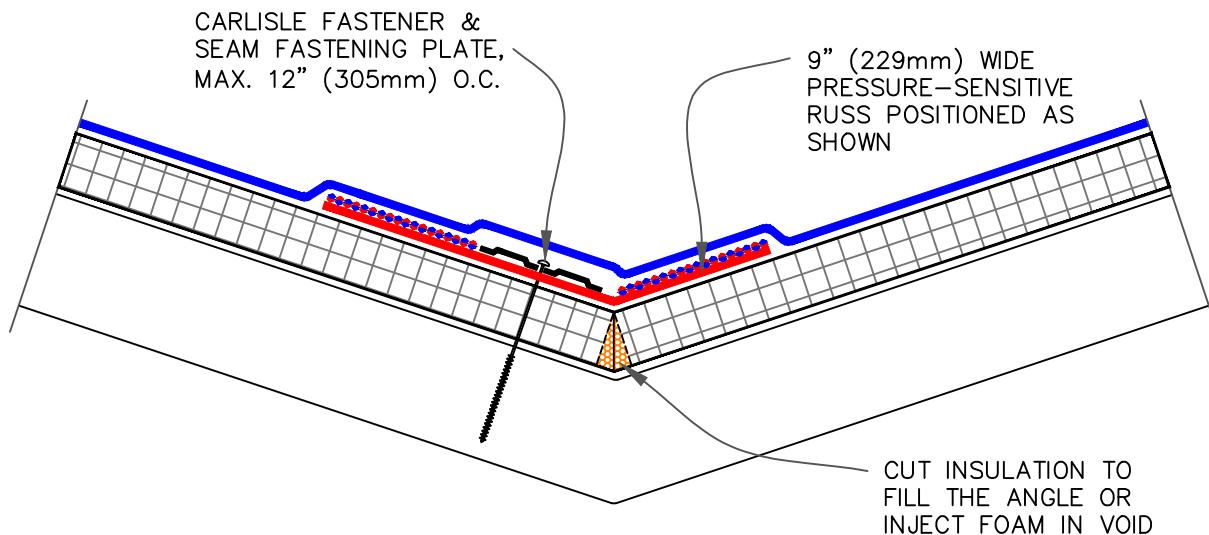
	• EPDM	LIGHTNING ROD AT DECK LEVEL WITH POURABLE SEALER	For additional information, refer to Specifications	DETAIL NO.
	• APPROVED SUBSTRATE			 U-20B
	• SEE NOTE(S)			THERMOSET UNIVERSAL



NOTES:

1. CLEAN EXPOSED MEMBRANE WITH WEATHERED MEMBRANE CLEANER AND ALLOW TO DRY.
2. APPLY EPDM PRIMER TO THE MEMBRANE AND LIGHTING ROD BASE ACHIEVING A VERY THIN, EVEN COAT ON BOTH SURFACES. ALLOW PRIMER TO DRY UNTIL IT IS TACK FREE.
3. INSTALL A SECTION OF SPLICE TAPE (APPROXIMATELY THE SIZE OF THE METAL BASE) TO THE MEMBRANE SURFACE. LEAVE THE RELEASE FILM IN PLACE AND ROLL THE TAPE FROM THE CENTER TO THE OUTER EDGES.
4. REMOVE RELEASE FILM AND CAREFULLY PLACE METAL BASE OVER SPLICE TAPE.
5. APPLY EPDM PRIMER TO THE EPDM MEMBRANE WHERE LAP SEALANT IS TO BE APPLIED TO ACHIEVE A THIN, EVEN COAT. ALLOW TO DRY UNTIL TACK FREE. SEAL ALL EDGES AND ANY EXPOSED AREAS OF TAPE (AT PERFORATED BASE) WITH LAP SEALANT.

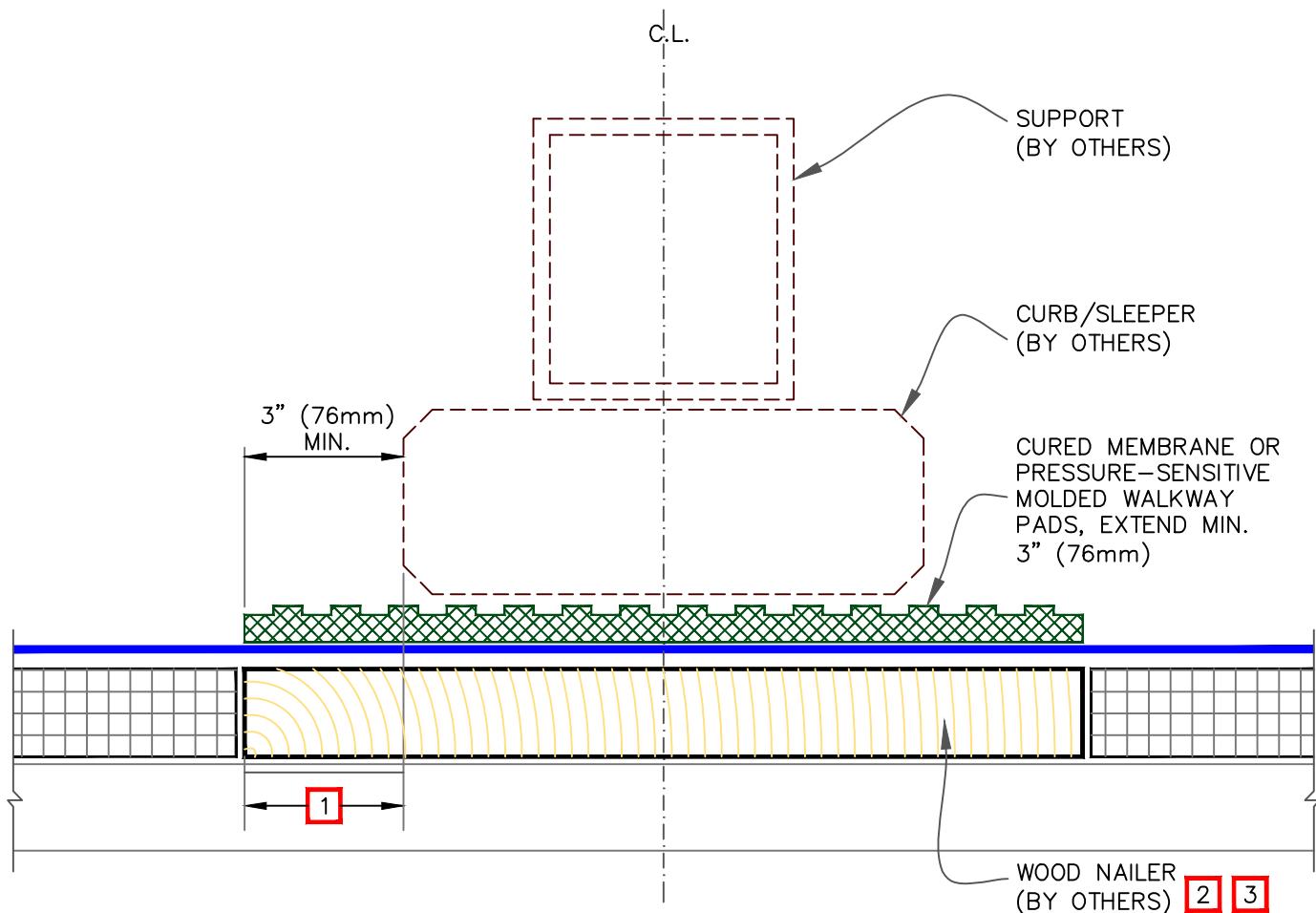
	• EPDM	LIGHTNING ROD AT DECK LEVEL WITH SecurTAPE	For additional information, refer to Specifications	DETAIL NO.
	• APPROVED SUBSTRATE			
	• SEE NOTE(S)			U-20C



NOTES:

1. DETAIL FOR SURE-SEAL/SURE-WHITE ADHERED AND SURE-TOUGH MECHANICALLY-FASTENED ROOFING SYSTEMS WHEN SLOPE AT VALLEY EXCEEDS 2" (51mm) IN ONE HORIZONTAL FOOT.
2. ON MECHANICALLY-FASTENED ROOFING SYSTEMS, HP FASTENERS AND POLYMER SEAMS ARE REQUIRED OVER STEEL DECKS.
3. EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PRESSURE-SENSITIVE RUSS.

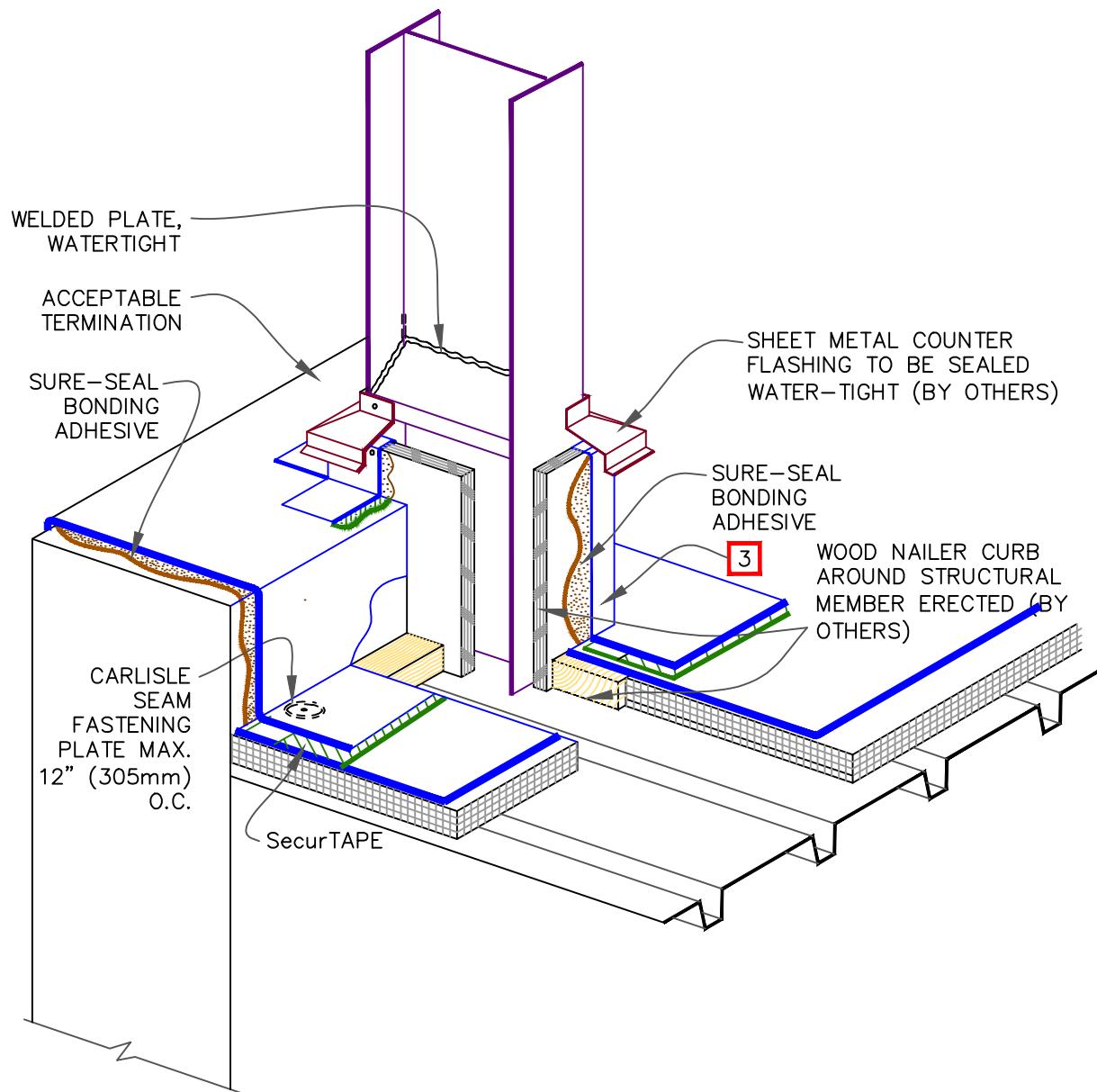
● EPDM		DETAIL NO.
● APPROVED SUBSTRATE	VALLEY	U-22
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



NOTES:

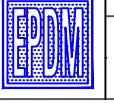
1. SLEEPER MUST BE LARGE ENOUGH TO SUPPORT WEIGHT OF EQUIPMENT WITHOUT INDENTING INSULATION. EXTEND WOOD NAILER OUT AS REQUIRED BY STRUCTURAL ENGINEER TO DISTRIBUTE SUBJECT LOAD OR AT LEAST EXTEND OUT MIN. 3" (76mm).
2. ENSURE SCREW/ANCHOR HEADS IN TOP SURFACE OF WOOD BLOCKING ARE RECESSED TO PROTECT MEMBRANE.
3. WOOD NAILERS NOT REQUIRED UNDER PIPE SUPPORTS.
4. CONSULT STRUCTURAL ENGINEER AND/OR SPECIFIER TO AVOID WATER PONDING DUE TO DECK DEFLECTION.

● EPDM	SLEEPER	DETAIL NO.
● APPROVED SUBSTRATE		U-24
● SEE NOTE(S)	For additional information, refer to Specifications	THERMOSET UNIVERSAL



NOTES:

1. FOR PARAPET FLASHING, REFER TO DETAIL [U-12.](#)
2. FOR CURB FLASHING, REFER TO DETAIL [U-5.](#)
3. FOR CORNER APPLICATION, REFER TO DETAIL [U-15.](#)

  	<ul style="list-style-type: none"> ● EPDM ● APPROVED SUBSTRATE ● SEE NOTE(S) 	I-BEAM PENETRATION	DETAIL NO.
		For additional information, refer to Specifications	 U-30