

TECHNICAL BULLETIN

TARGET MARKET ROOFING



BUILDING TRUST



Subject: Staining and Effects of Self-Adhering Bituminous Wall Flashings

16-05

Recently, RCI, Inc. issued Technical Advisory No. 11-2016 [“to provide commentary on staining and flow of oils from self-adhesive, bituminous-based wall flashings.”](#)

The construction industry has continued to see an increase in the use of self-adhered sheets, both as vapor/air barriers as well as modified base sheets. These sheets raise continuity and compatibility issues, specifically as it related to our products with PVC membranes.

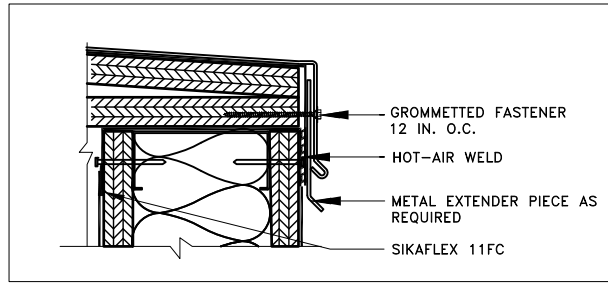
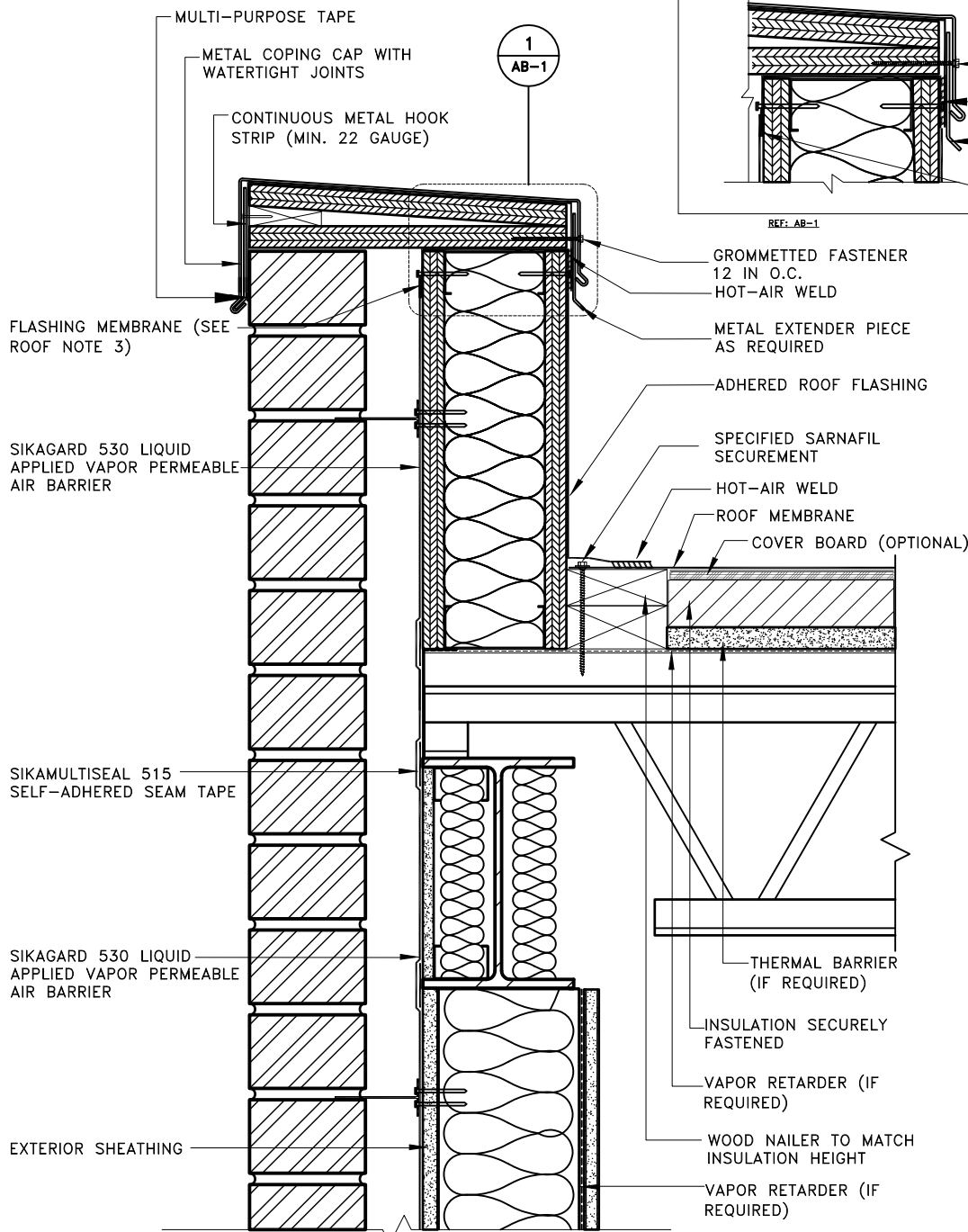
Typically, the adhesive backing used on these sheets vary from modified rubberized asphalt to rubber based adhesives like butyl, while a plastic film or asphalt-based surface is used on the top side. These adhesive backings are not compatible with many single ply membranes, including PVC. When direct contact is made, it adversely affects both products.

Above all else, this is a design issue and the designer should be cautious of these limitations before specifying. Care must be taken by designers in selecting these products as well as being sure to include a separation layer to avoid the PVC membrane becoming discolored, stiff, and aging prematurely through migration of the plasticizer, as well as preventing the asphalt sheet from softening and “bleeding,” resulting in the asphalt running and staining the membrane.

Designers and contractors alike must be aware of these compatibility issues and take proper measures to prevent them from occurring by the use of proper separation layers, including metal strips, aluminum tapes, or other similar approaches. Even the slightest bit of contact will result in contamination and any contaminated membrane must be removed and replaced with new membrane. Once membrane is replaced, precautions must be taken in order to eliminate further contamination as well.



The following details are accepted Sika Sarnafil means to address these issues:



AIR BARRIER NOTES:

- A. TREAT SHEATHING BOARD JOINTS WITH SIKAFLEX 11FC SEALANT, TREAT CONNECTIONS BETWEEN DISSIMILAR MATERIALS AND OUTSIDE CORNER DETAILS WITH SIKAMULTISEAL 515 SELF-ADHERED TRANSITION SEAM TAPE.
- B. INSTALL SIKAGARD 530 LIQUID APPLIED VAPOR PERMEABLE AIR BARRIER OVER THE EXTERIOR FACE OF THE BACK-UP WALL SUBSTRATE SO AS TO PROVIDE A CONTINUOUS BARRIER TO STOP AIR MOVEMENT AND PREVENT WATER INTRUSION.
- C. ACCEPTABLE BACK-UP WALL SUBSTRATES INCLUDE BUT NOT LIMITED TO DENSGLOSS GOLD, PLYWOOD, CONCRETE AND CONCRETE BLOCK.
- D. PENETRATIONS OF THE AIR BARRIER SYSTEM SHALL BE SEALED WITH SIKAFLEX 11FC SEALANT TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER SYSTEM OVER THE ENTIRE SURFACE.
- E. PROVIDE A FEATHEREDGE OF COMPATIBLE SEALANT OR COATING OF LIQUID APPLIED AIR BARRIER MATERIAL OVER THE LEADING EDGE OF MEMBRANE FLASHINGS TO DIRECT WATER OUT.
- F. REFER TO SIKA TECHNICAL DATA SHEETS AND GUIDE SPECIFICATIONS FOR RECOMMENDED INSTALLATION PROCEDURES AND COMPATIBLE SEALANTS.
- G. DETAIL REPRESENTS GENERAL ARRANGEMENT OF MATERIALS ASSEMBLIES, PROJECT SPECIFICATIONS GOVERN. DO NOT SCALE.

ROOF NOTES:

- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
- 2) METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4-INCHES WIDE.
- 3) TRANSITION SEQUENCE: 1) INSTALL THE ADHERED FLASHING MEMBRANE AND FINAL TERMINATION. 2) PRIME WITH SIKAFLEX PRIMER 449 AND APPLY A 3/8" BEAD OF SIKAFLEX 11FC ALONG THE EDGE OF THE FLASHING MEMBRANE AND ALLOW TO CURE. 3) APPLY SIKAGARD 530 LIQUID AIR BARRIER TERMINATING ON THE BEAD OF SIKAFLEX 11FC.

SIKAGARD WALL AIR BARRIER TO ROOF TIE-IN

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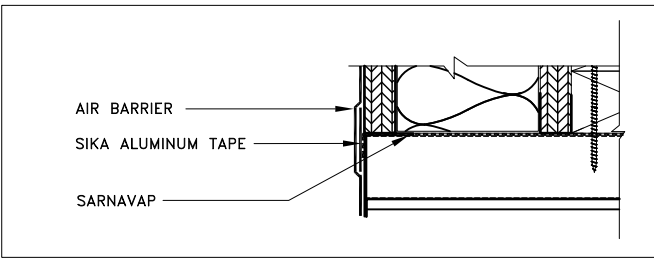
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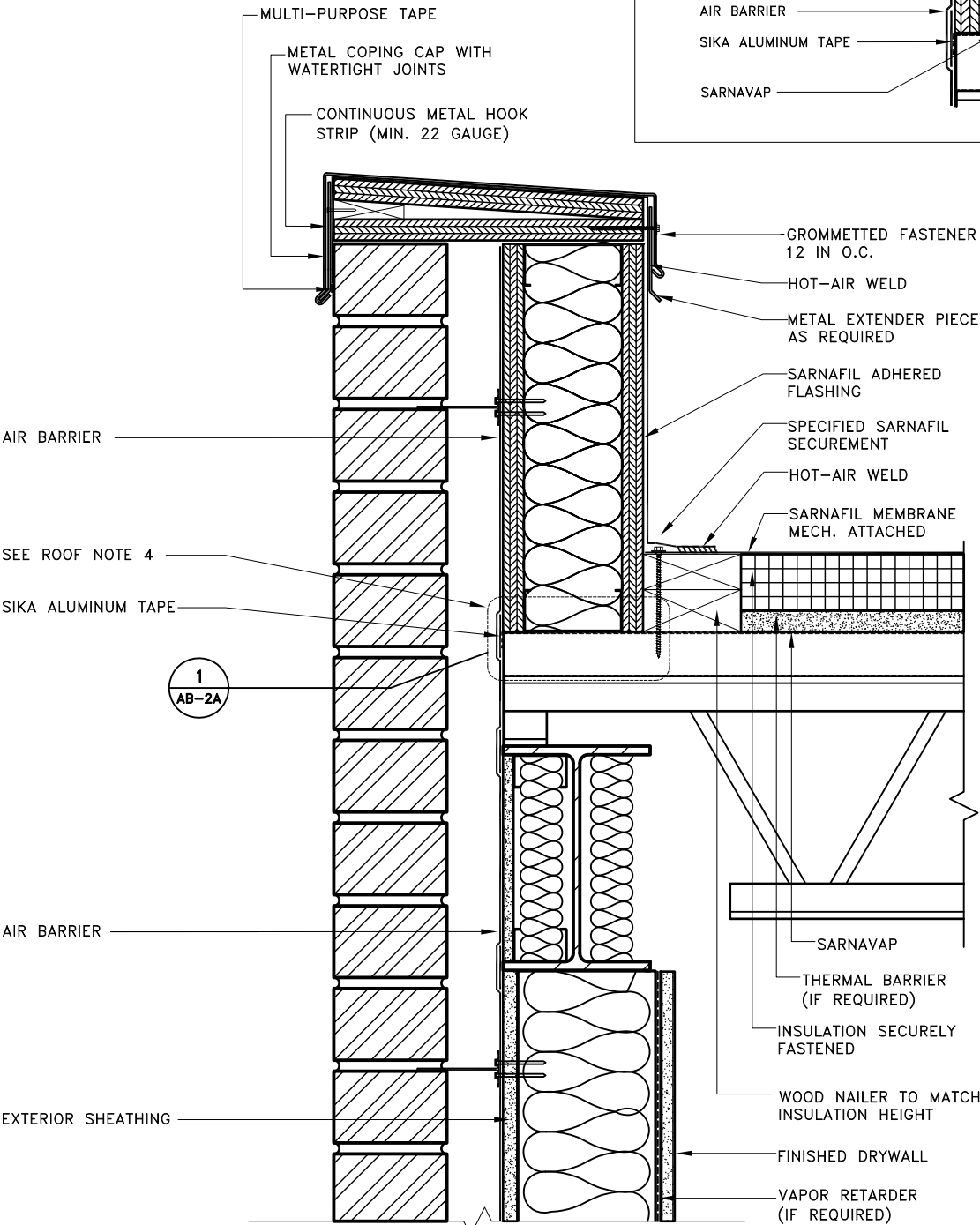
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AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION, WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA' TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



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- ROOF NOTES:**
- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
 - 2) METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4-INCHES WIDE.
 - 3) AIR BARRIER SHALL BE SEALED AT EDGES.
 - 4) SARNAVAP IS INSTALLED AND TURNED DOWN THE WALL 3" AND THEN SEALED WITH SIKA ALUMINUM TAPE.

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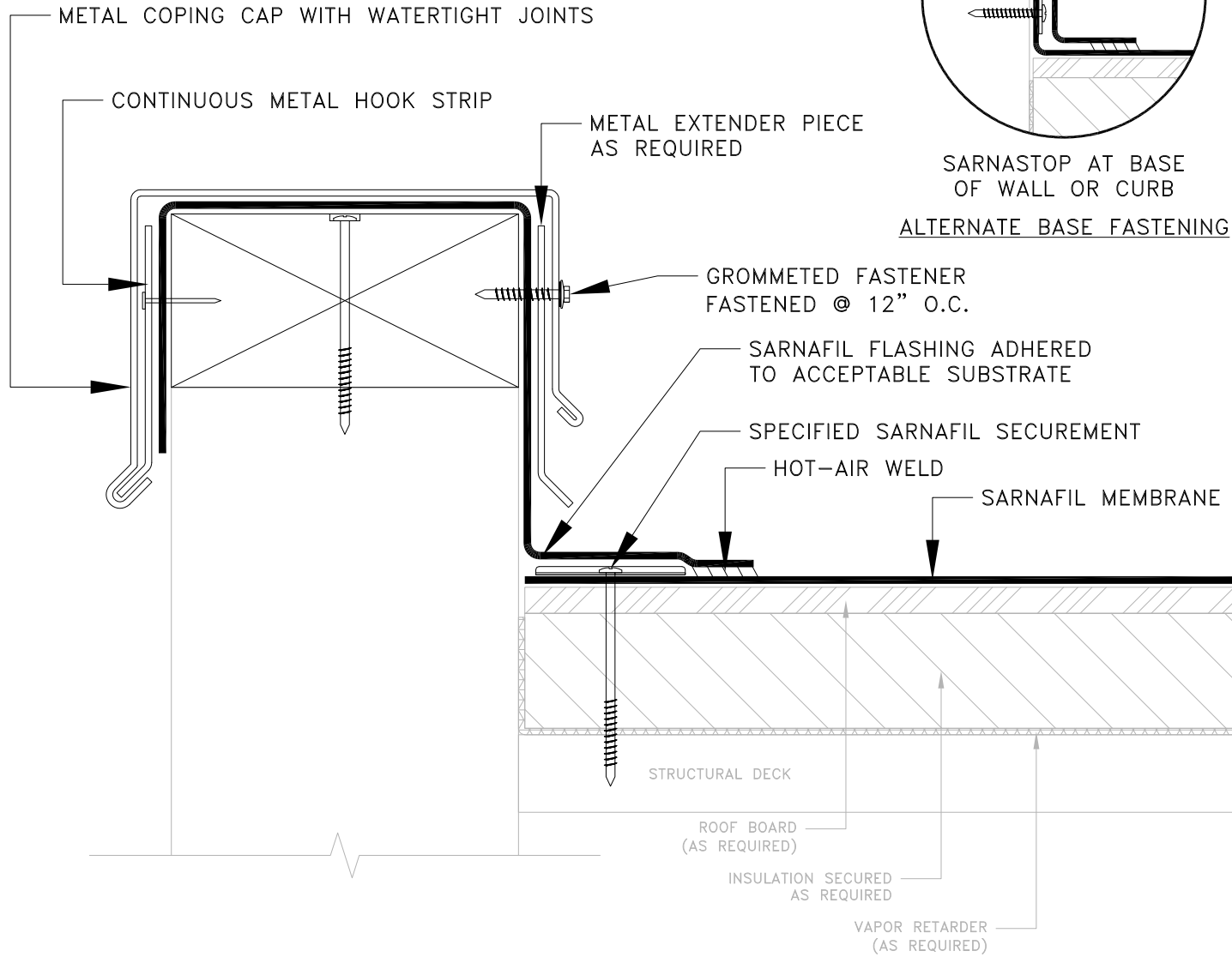
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NOTES:

- 1) NEW OR EXISTING WOOD NAILERS SHALL BE ATTACHED ACCORDING TO THE D.O.R., LOCAL CODE, OR INSURANCE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

PARAPET WALL WITH METAL COPING CAP

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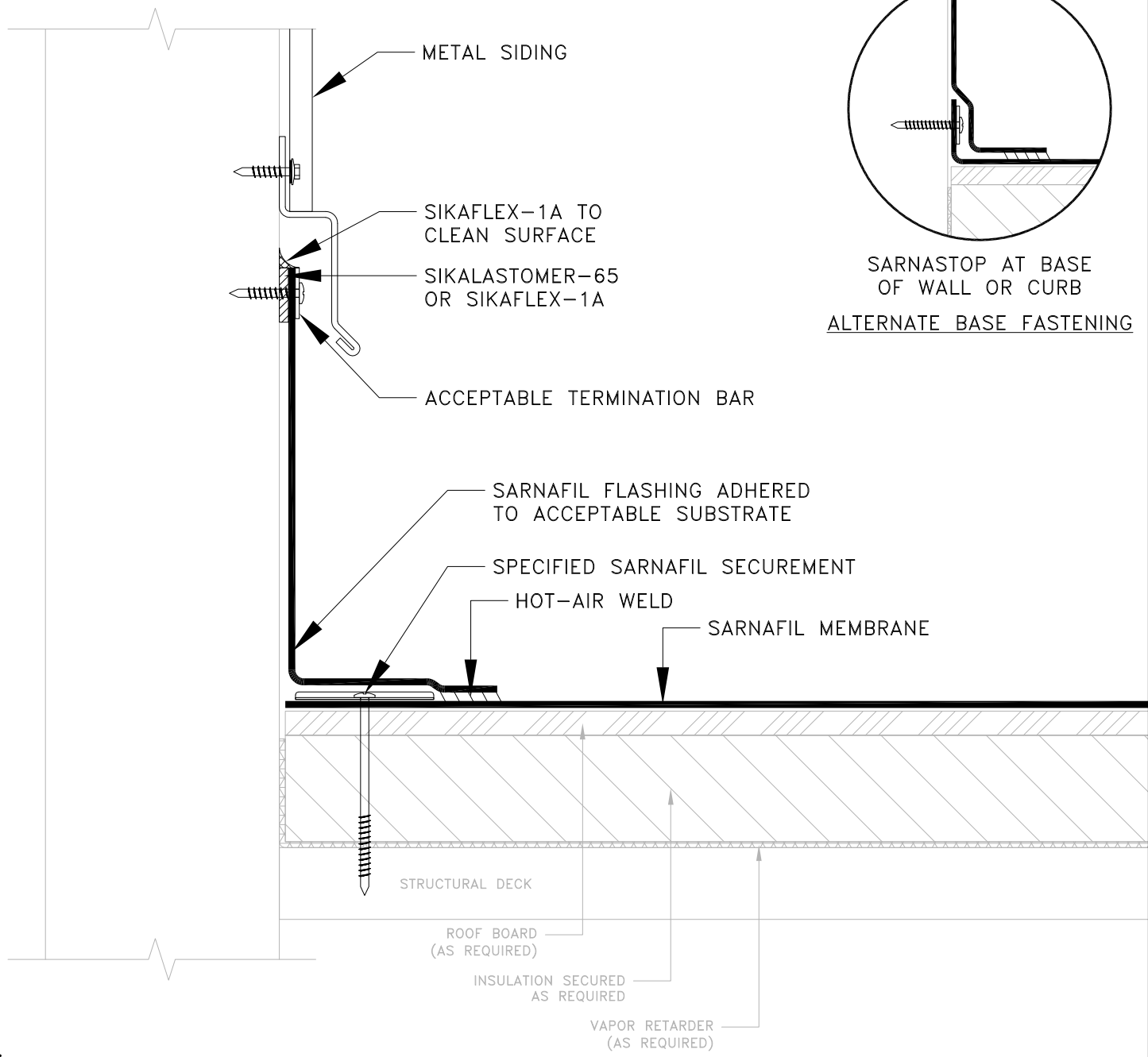
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NOTES:

- 1) SEALANT IS A TWO-STEP APPLICATION: BEHIND TOP OF SARNAFIL FLASHING THEN TOP OF TERMINATION BAR.
- 2) SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES.
- 3) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.
- 4) TERMINATION BAR SHALL BE SECURELY ANCHORED WITH GROMMETTED FASTENERS AND PROVIDE ADEQUATE COMPRESSION OF MEMBRANE FLASHING AND SEALANT.

FLASHING AT SIDING

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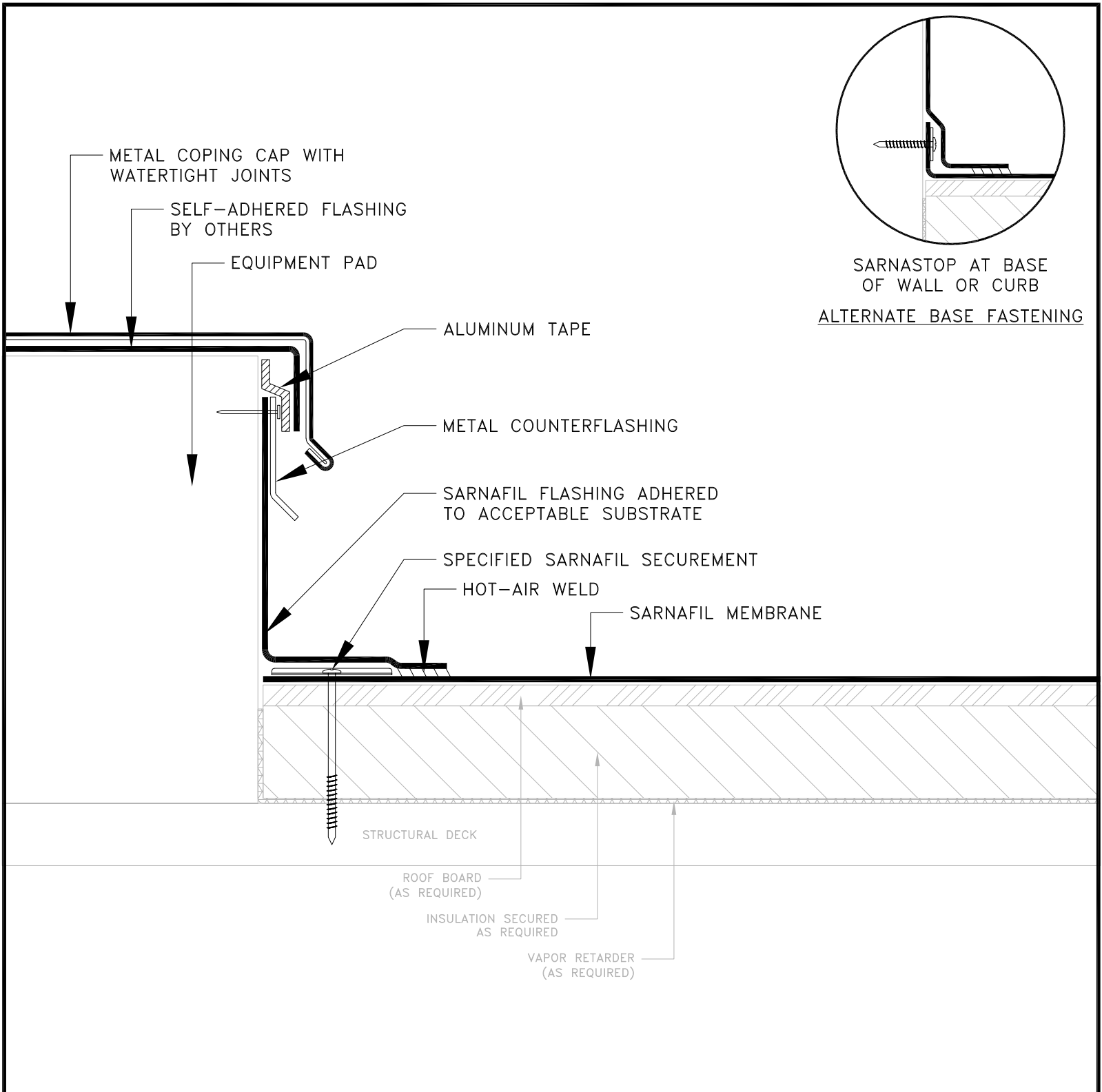
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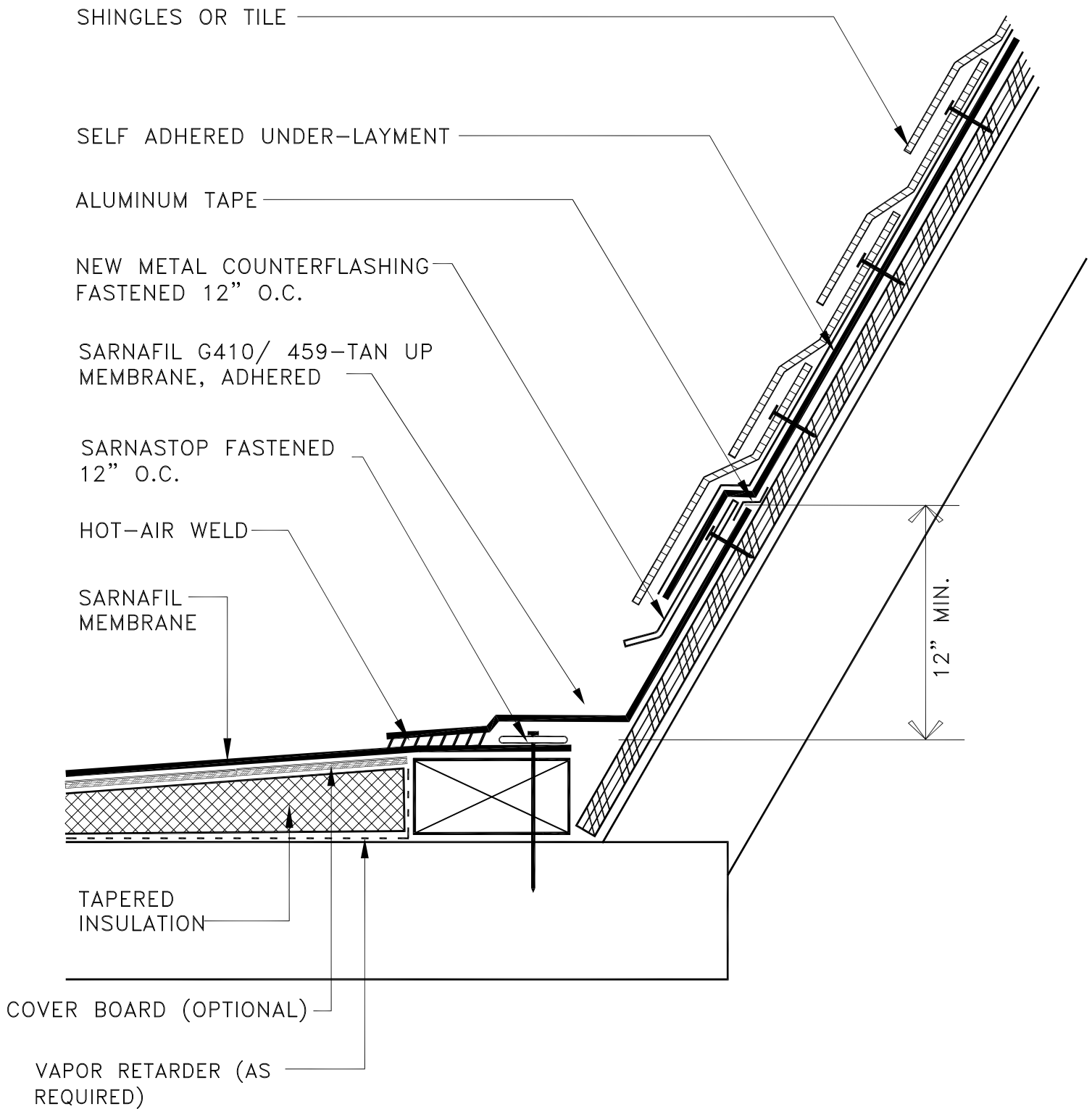
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TIE-IN AT ASPHALT SHINGLES

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