

Sika Sarnafil

World Class Roofing and Waterproofing

ROOFING TECHNICAL BULLETIN

#02-12

To: Authorized Roofing Applicators
Sika Sarnafil Sales Staff & Sales Representatives
Sika Sarnafil Regional Technical Staff
Sika Sarnafil Customer Service Staff
Sika Sarnafil Services Staff

From: Technical Service Department

Date: 05-23-12

Subject: Sika Sarnafil Membranes in Contact with Self-adhered Barrier Sheets

The construction industry has seen an increase of air and/or vapor barriers used for the building envelope. This may be driven by the design criteria of the building or newly adopted building energy codes. The use of these barriers creates issues on how to tie-in the barrier layer with the roof covers, both with regards to maintaining continuity as well as with potential incompatibility between dissimilar products. Maintaining continuity with the various components is a design issue. This Bulletin will address the compatibility issues.

The predominant product types used for the barrier layer are self-adhered membranes. The adhesive side of these products will vary from modified rubberized asphalt to rubber based adhesives such as Butyl. The top side of these barrier sheets may be a plastic film or an asphaltic based material.

Good installation practice has the layers installed in a shingle manner to properly shed water. Typically the adhesive backing of the barrier sheets are not compatible with many single ply roof covers, including PVC. When a rubberized asphalt sheet comes into contact with the PVC membrane with, both products are affected. The PVC will discolor and over time become stiff, and age prematurely. The asphalt product will soften and start to "bleed" causing the asphalt to run down slope increasing the contamination area and thinning the barrier sheet. Rubber based adhesives may also have a stiffening effect on the membrane, potentially affecting the service life.



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In order to overcome the compatibility issues a separation layer **must be installed between the products**. This may be accomplished with the use of metal strips, aluminum tapes or similar approaches. At no point shall the self-adhered membrane come in contact with the PVC membrane. Even the smallest of contact will result in the self-adhered membrane reacting and thus melting or dripping. Please see photos for examples of contamination to the membrane from asphalt based barrier sheet.



Any membrane that is contaminated by a barrier sheet must be removed and replaced with new membrane. The detail must be addressed to eliminate further contamination. Membrane that is contaminated by a barrier sheet that is not replaced will affect the roof warranty for the project.



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Following are acceptable Sika Sarnafil details to address tie-in conditions with barrier sheets:

- Tie-in at Tile or Shingle Roofing
- Metal coping cap with self-adhered membrane
- Flashing at siding with self-adhered membrane
- Mechanical curb with self-adhered membrane



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SHINGLES OR TILE

SELF ADHERED UNDER-LAYMENT

ALUMINUM TAPE

NEW METAL COUNTERFLASHING
FASTENED 12" O.C.

SARNAFIL G410 FLASHING
MEMBRANE, ADHERED

SARNASTOP FASTENED
12" O.C.

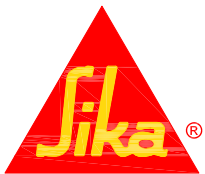
HOT-AIR WELD

SARNAFIL
MEMBRANE

TAPERED
INSULATION

12" MIN.

TIE-IN AT ASPHALT SHINGLES



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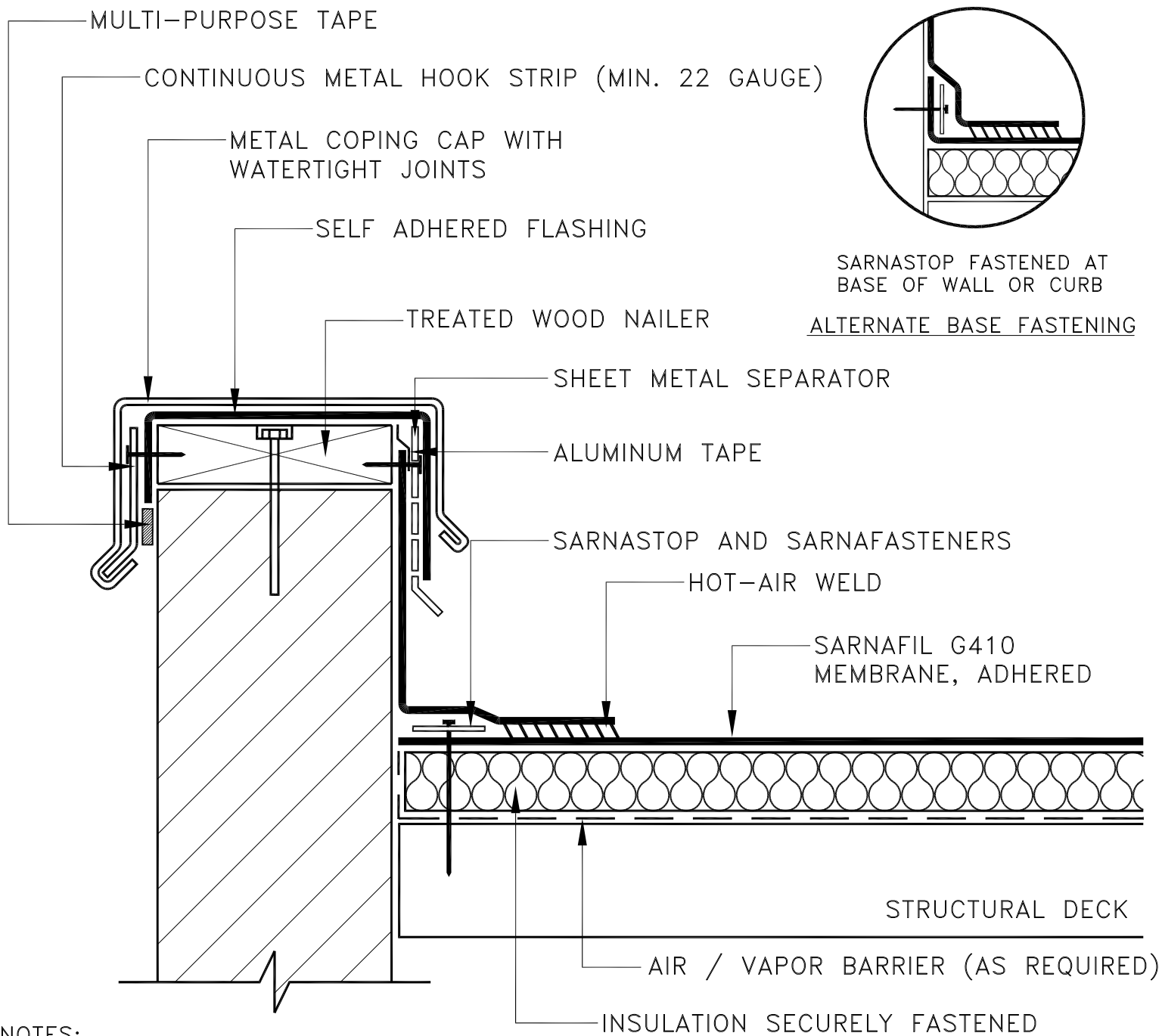
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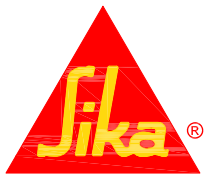
AS A MEMBRANE MANUFACTURER, SIKA SARNAFIL, A DIVISION OF SIKA CORPORATION REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA SARNAFIL WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA SARNAFIL 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 SARNAFIL PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA SARNAFIL 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 SARNAFIL MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR.



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.

PARAPET WALL WITH METAL COPING CAP



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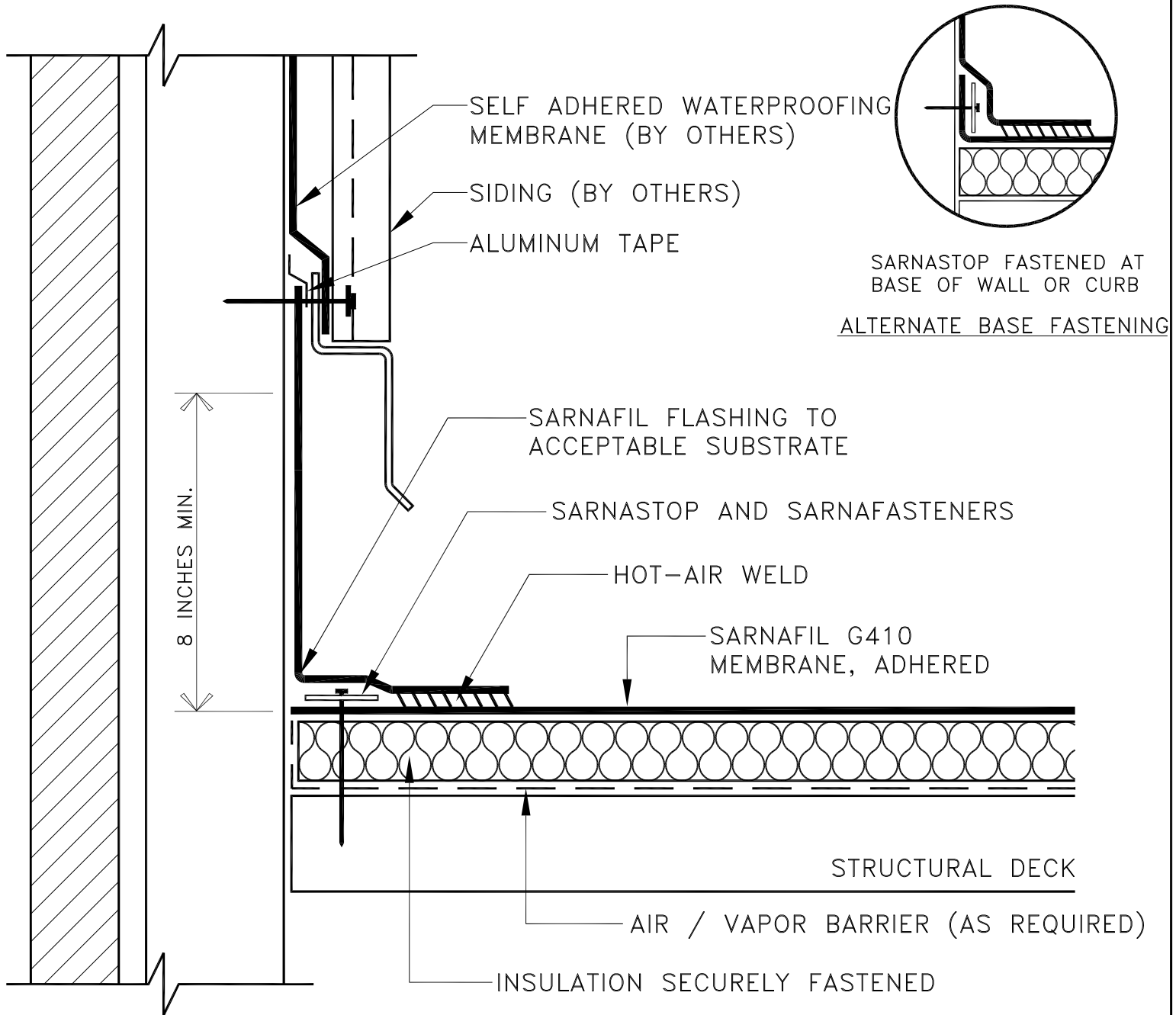
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FLASHING AT SIDING



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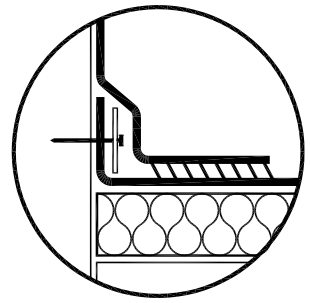
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METAL COPING CAP WITH
WATERTIGHT JOINTS

SELF ADHERED FLASHING

SARNASTOP FASTENED AT
BASE OF WALL OR CURB

ALTERNATE BASE FASTENING

SHEET METAL SEPARATOR

ALUMINUM TAPE

SARNASTOP AND SARNAFASTENERS

HOT-AIR WELD

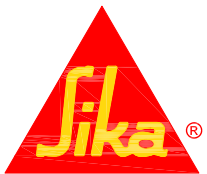
SARNAFIL
MEMBRANE

STRUCTURAL DECK

AIR / VAPOR BARRIER (AS REQUIRED)

INSULATION SECURELY FASTENED

EQUIPMENT PAD DETAIL



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