

TECHNICAL BULLETIN

TARGET MARKET ROOFING



BUILDING TRUST

**Subject: Hybrid Roofing Systems****16-04**

Sika Corporation – Roofing now offers several hybrid roofing systems that combine Sika's Sarnafil® G410 Feltback Roof Membrane with the following Sika SBS modified bitumen base and ply sheets.

- **Base Sheet NB 48** is a 48 mil thick SBS modified fiberglass base sheet
- **Base Sheet NB 120** is a 120 mil thick SBS modified fiberglass venting base sheet
- **Ply Sheet TA 87** is a 87 mil thick torch applied SBS modified bitumen ply sheet
- **Vapor Retarder TA 138** is a 138 mil thick torch applied SBS modified bitumen vapor retarder
- **Ply Sheet HA 87** is a 87 mil thick hot applied SBS modified bitumen ply sheet
- **Ply Sheet HA 118** is a 118 mil thick hot applied SBS modified bitumen ply sheet

For additional information, please [click here](#) to download the Product Data Sheets.

The following table provides an overview of the Sika hybrid roofing systems that are available depending on the deck type and insulation requirements.

System Components	Deck Type				
	Light Weight Insulating Concrete on Metal Deck or Structural Concrete		Cementitious Wood Fiber	Metal Deck	
	Without Additional Insulation	With Additional Insulation		Fastening Option 1	Fastening Option 2
Base Sheet	Base Sheet NB 48	Base Sheet NB 48	Base Sheet NB 48	NA	NA
Base Sheet Attachment	CR-Base Sheet Fastener	CR-Base Sheet Fastener	OlyLok Locking Impact Nail	NA	NA
Insulation	NA	Sarnatherm® Polyisocyanurate	Sarnatherm® Polyisocyanurate	Sarnatherm® Polyisocyanurate	Sarnatherm® Polyisocyanurate
Insulation Attachment	NA	Sarnacol® Board Adhesive	Sarnacol® Board Adhesive	NA	Sarnafasteners and Sarnaplates
Cover Board	NA	DensDeck® Prime	DensDeck® Prime	DensDeck® Prime	DensDeck® Prime
Cover Board Attachment	NA	Sarnacol® Board Adhesive	Sarnacol® Board Adhesive	Sarnafasteners and Sarnaplates	Sarnacol® Board Adhesive
Ply Sheet & Attachment¹	Ply Sheet HA set in hot asphalt or Ply Sheet TA torch applied	Ply Sheet HA set in hot asphalt or Ply Sheet TA torch applied	Ply Sheet HA set in hot asphalt or Ply Sheet TA torch applied	Ply Sheet HA set in hot asphalt or Ply Sheet TA torch applied	Ply Sheet HA set in hot asphalt or Ply Sheet TA torch applied
Cap Ply²	G410 Feltback Membrane	G410 Feltback Membrane	G410 Feltback Membrane	G410 Feltback Membrane	G410 Feltback Membrane
Cap Ply Attachment	Sarnacol® Feltback Membrane Adhesive	Sarnacol® Feltback Membrane Adhesive	Sarnacol® Feltback Membrane Adhesive	Sarnacol® Feltback Membrane Adhesive	Sarnacol® Feltback Membrane Adhesive

¹ Please refer to the 'Hybrid Systems Requiring Hot Asphalt Attachment' and 'Trumbull Asphalt Warranty Program' sections on the next page when using Ply Sheet HA 87. Ply Sheet HA 87 and Ply Sheet TA 87 may be left exposed for a maximum of 6 months prior to the G410 Feltback Membrane installation.

² Allow the ply sheet to cool prior to the G410 Feltback Membrane installation.

Attached are additional technical documents related to Sika's hybrid roofing systems.

- Isometric drawings that describe the available roofing assemblies which include steel, light weight insulating concrete, and cementitious wood fiber decks
- Trinity ERD Evaluation Report showing the wind uplift ratings and attachment requirements for steel deck, structural concrete, light weight insulating concrete and cementitious wood fiber decks
- [Click here](#) for UL Class A fire ratings. See "Class A – Fully Adhered," systems 53 – 57
- Fastening patterns for Base Sheet NB 48 attachment to light weight insulating concrete

Sika's hybrid roofing systems are eligible for a Sika System Warranty for Hybrid Roofing Systems upon successful completion of the installed roofing system by the Sika Authorized Roofing Applicator.

Hybrid Systems Requiring Hot Asphalt Attachment

For hybrid systems requiring the use of hot asphalt for ply sheet attachment, Owens Corning Trumbull® asphalt must be used and will be covered in Sika's System Warranty for Hybrid Roofing Systems subject to the requirements outlined in the Trumbull Asphalt Warranty Program below.

Trumbull Asphalt Warranty Program

In order for Trumbull asphalt to be included in the Sika System Warranty for Hybrid Roofing Systems, Sika Corporation – Roofing must receive the following documents from the Sika Authorized Roofing Applicator:

1. **Addendum to Sarnafil Authorized Roofing Applicator Agreement** – The Addendum must be completed and signed by the Sika Authorized Applicator upon award of the project. The addendum is required since the Trumbull asphalt is not supplied by Sika Corporation – Roofing but is covered under Sika's System Warranty for Hybrid Roofing Systems.
2. **Trumbull Certificate of Analysis** – The Sika Authorized Applicator must obtain a Certificate of Analysis from Trumbull for the asphalt provided for the project. Please refer to the Owens Corning Roofing and Asphalt, LLC Trumbull Asphalt Certificate of Analysis Process (attached). The Certificate of Analysis must be provided to Sika prior to, or when, requesting the Sika System Warranty for Hybrid Roofing Systems in order for the Trumbull asphalt to be covered under the Warranty.

Following are some helpful tips to facilitate obtaining the Trumbull Certificate of Analysis. Please refer to the attached Owens Corning Roofing and Asphalt, LLC – Trumbull Asphalt Certificate of Analysis Process for complete instructions.

1. A Product Information Sheet (PIS) is included with each shipment of Trumbull asphalt. The PIS is attached to the Bill of Lading (BOL) for bulk shipments (tankers) or attached to the packaging or pallet for keg shipments (see attached photo). Tankers delivered to the Authorized Applicator's yard, or bulk asphalt that is picked up by the Authorized Applicator in his equipment will not be covered under the program.
2. The Authorized Applicator must complete the Application for Certificate of Analysis (Fax Cover Page) and fax it, with the PIS, to the plant location shown on the PIS. The plant locations with contact persons are shown on the Application for Certificate of Analysis Fax Cover Page.
3. Trumbull will issue a Certificate of Analysis and send it to the Authorized Applicator.
4. The Authorized Applicator must e-mail or fax the signed Sarnafil Authorized Roofing Applicator Agreement Addendum and the Trumbull Certificate of Analysis to Sika's Technical Services Department Administrator – Canton, MA at tech.admin@us.sika.com or 781-828-3528.

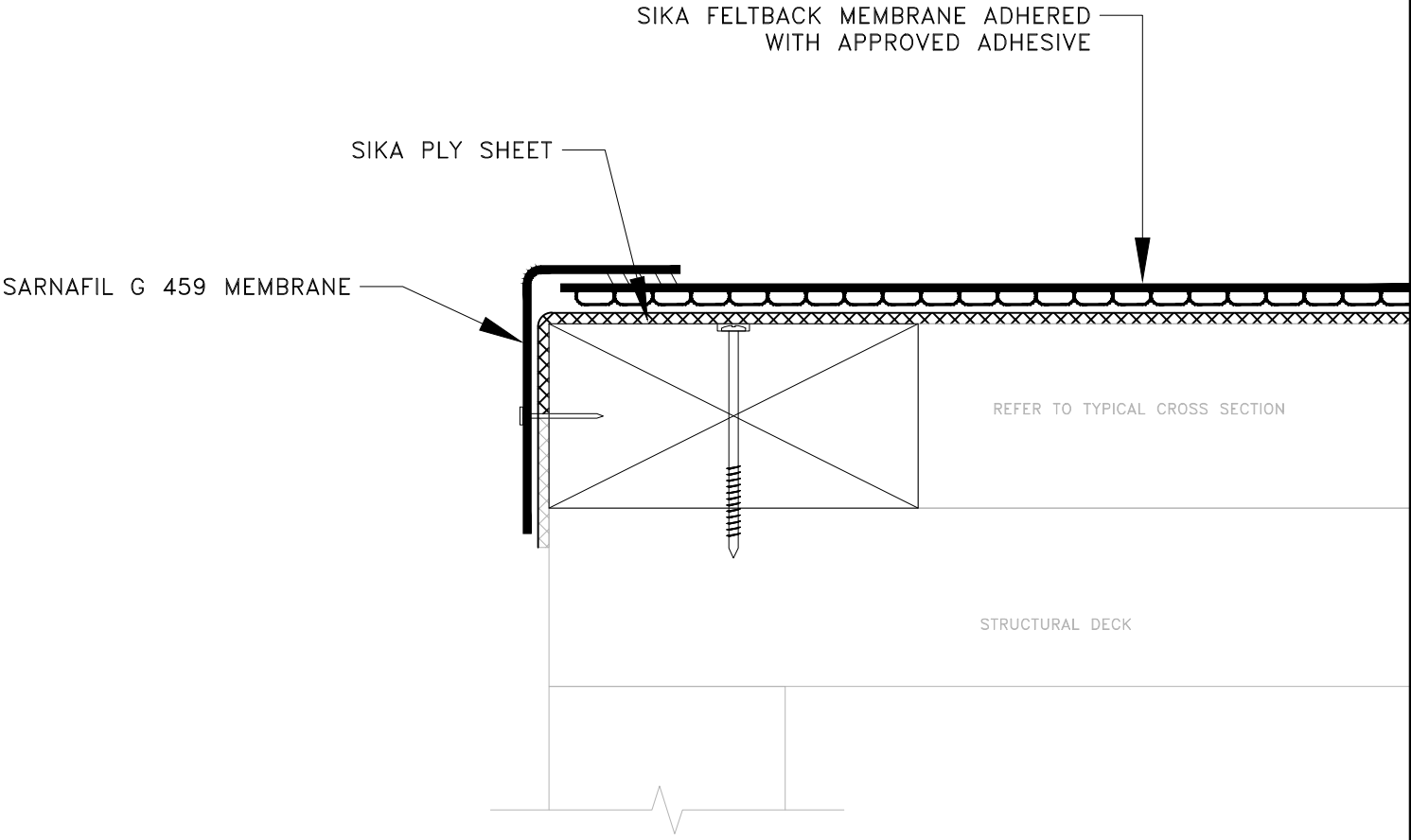
Failure to provide the signed Sarnafil Authorized Roofing Applicator Agreement Addendum and a valid project specific Trumbull Asphalt Certificate of Analysis to Sika Corporation – Roofing will result in the asphalt being excluded from Sika’s warranty coverage.

Attached are product data sheets for Trumbull Trulo® Lo Odor and Trulo® Max Asphalt with physical properties information.

Important note: Type III or Type IV asphalt must be used. The designer/specifier must determine the correct type based on climatic conditions at the building’s location and roof slope. The asphalt must be installed at the proper EVT to assure the correct coverage rate of 25 - 30 lbs/square.

Attached please find the following:

- Addendum to Sika Corp. – Roofing Authorized Roofing Applicator Agreement including Exhibit A & Exhibit B. The Addendum is required when the roof system incorporates modified bitumen sheets adhered with hot asphalt.
- Trumbull Certificate of Analysis Process & Application for Certificate of Analysis
- Product Data Sheets for Trumbull Trulo® Lo Odor and Trulo® Max Asphalt



NOTES:
1) REFER TO TYPICAL EDGE DETAILS.

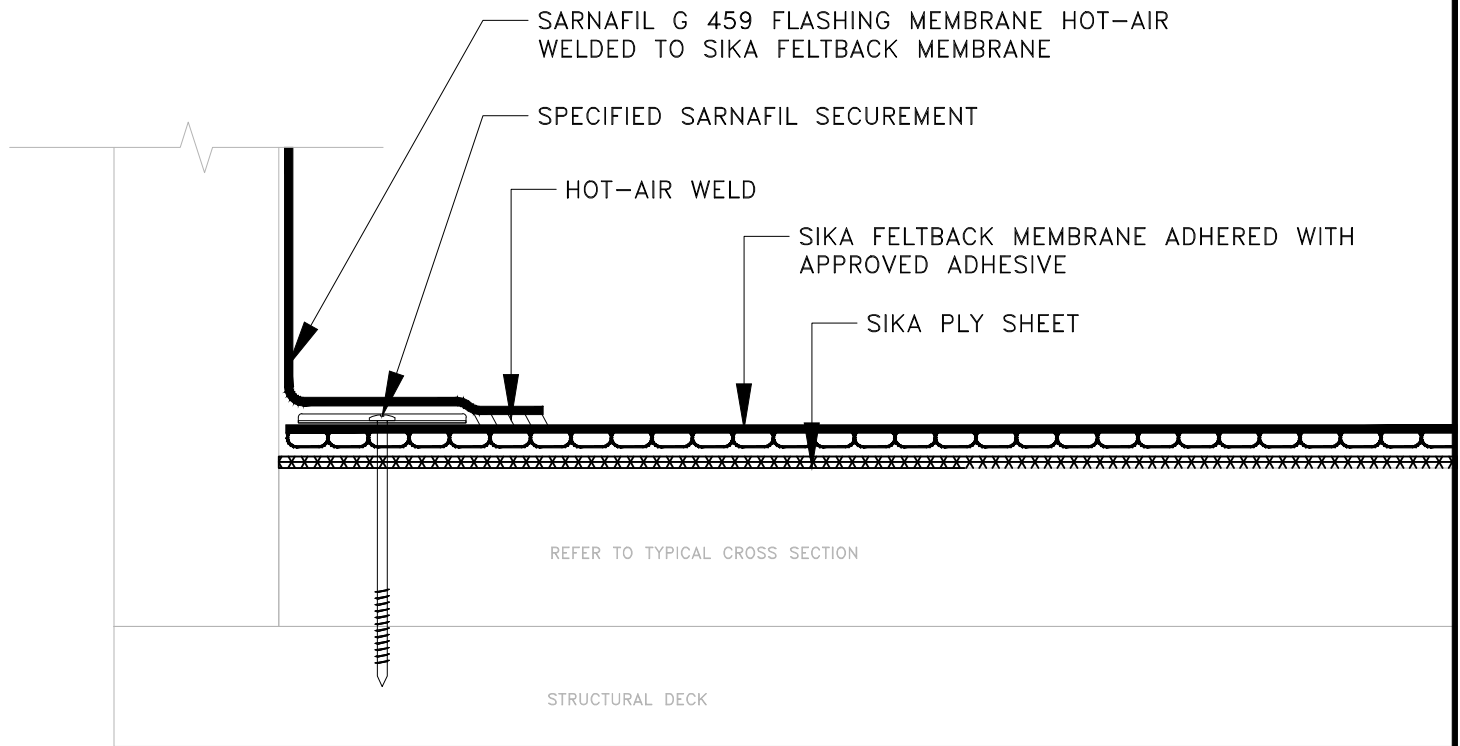
SARNACLAD METAL EDGE

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781-828-5400



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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'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:

- 1) REFER TO TYPICAL CURB DETAILS.

NON-REMOVABLE CURB (HYBRID FLASHING)

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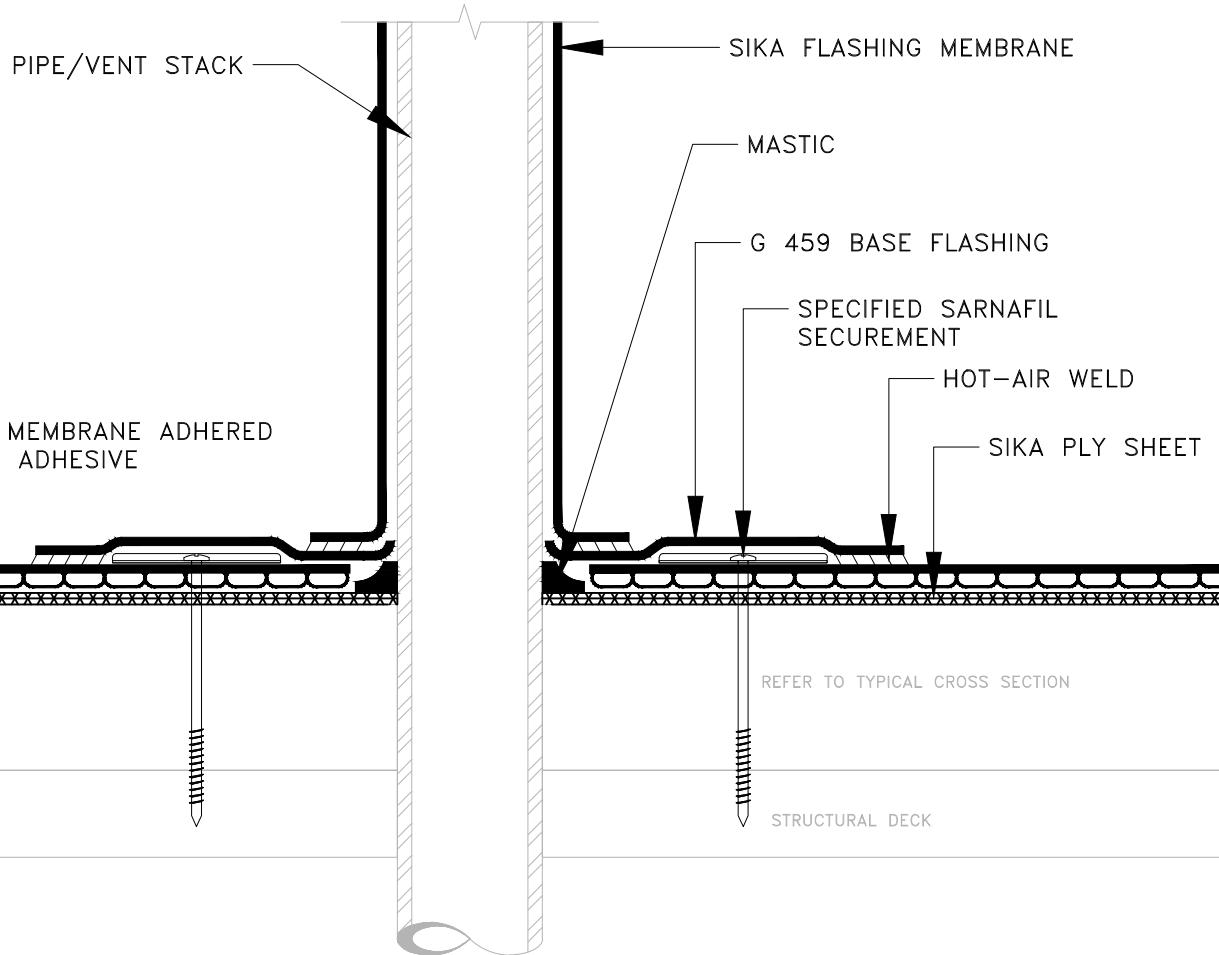
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NOTES:

- 1) REFER TO TYPICAL PENETRATION DETAILS.

HYBRID SYSTEM PIPE/VENT STACK FLASHING DETAIL

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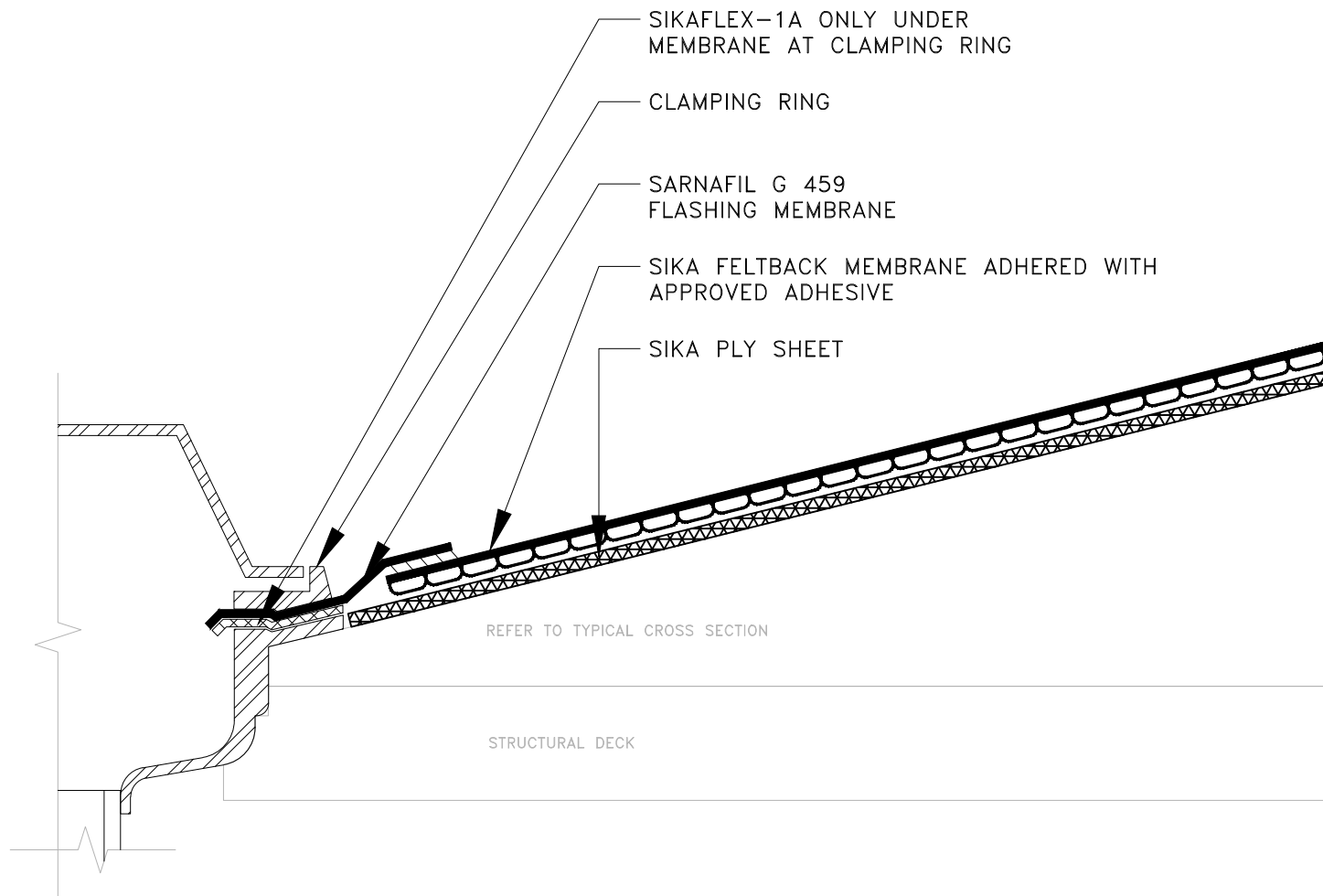
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NOTES:

- 1) IF BEING USED AS A TEMPORARY ROOF, PLY SHEET MAY BE INSTALLED INTO THE BOWL BUT MUST BE REMOVED BEFORE INSTALLING SIKA MEMBRANE.
- 2) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER WARRANTY

CLAMPING RING DRAIN (HYBRID FLASHING)

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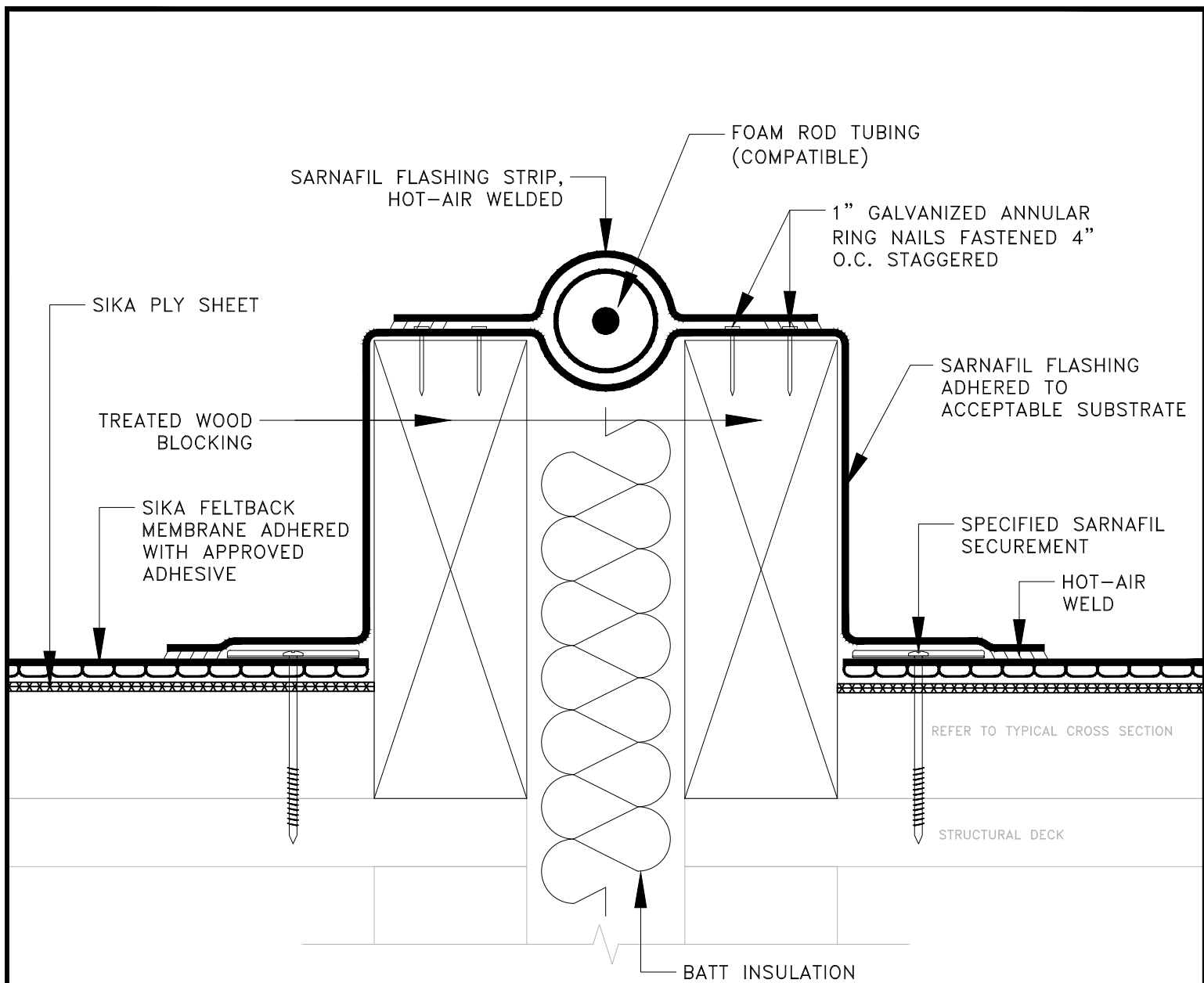
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NOTES:

- 1) NEW OR EXISTING WOOD NAILERS SHALL BE ATTACHED ACCORDING TO THE D.O.R., LOCAL CODE, OR INSURANCE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. NAILER HEIGHT TO MATCH TOP SURFACE TO WHICH MEMBRANE IS TO BE APPLIED.

EXPANSION JOINT ON CURB WITH FOAM ROD

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