SPECIFICATION
SUPPLEMENT

G-12

Application Procedures for Versico's VapAir Seal MD Air and Vapor Barrier

July 2024

The information contained in this supplement serves as a criteria for Specifiers and Authorized Contractors regarding the design and installation of Versico Roofing Systems and related products. Additional information essential for the design and installation of the Roof Systems mentioned herein are also included in the respective Specification for each Roof System and in the Design Reference Section of the Versico Technical Manual. Specifiers and Authorized Contractors are advised to reference all applicable sections.

A. General

1. **Versico VapAir Seal MD Air and Vapor Barrier** – a reinforced composite aluminum foil with self-adhesive SBS backing and removable poly release film. Used for direct application over metal decks. Available in rolls 42.5" wide by 131.23" long (460 square feet).

2. **Versico CAV-GRIP 3V Low-VOC Adhesive/Primer:** a low-VOC, methylene chloride-free adhesive that can be used for a variety of applications including: enhancing the bond between Versico's VapAir Seal MD and various substrates. Coverage rate is approximately 2,000-2,500 sq. ft. per 40 lb cylinder and 4,000-5,000 sq. ft. per 85 lb cylinder as a primer, in a single-sided application.

3. **CCW 702 Primer and 702LV Primer (Low VOC)** - A single component, solvent based, high-tack primer used to provide maximum adhesion between Versico 725TR Air and Vapor Barrier and an approved substrate. Applied by spray or long nap roller with a coverage rating ranging from approximately 300 to 350 square feet per gallon on smooth finishes (i.e., concrete) to 75 square feet per gallon on porous surfaces (i.e., Dens-Deck Prime gypsum board). Available in 5-gallon containers. CCW 702LV Primer contains less than 250g/L VOCs and meets South Coast Air Quality Management District (SCAQMD) and Leadership in Energy and Environmental Design (LEED) Requirements for Volatile Organic Compounds.

4. **CCW 702 WB –** a high-tack, water-based contact adhesive for promoting adhesion of Versico air/vapor barrier membranes and an approved substrate (i.e., concrete, Dens-Deck Prime and Securock). Applied by roller, brush or spray with an application rate of approximately 200 sq. ft. per gallon. Available in 5-gallon containers. CCW 702 WB Primer contains 57g/L VOCs and meets South Coast Air Quality Management District (SCAQMD) and Leadership in Energy and Environmental Design (LEED) Requirements for Volatile Organic Compounds.

B. Approved Substrates

VapAir Seal MD Air and Vapor Barrier is specifically designed for direct application to fluted steel decks. It may also be used in conjunction with either Versico's CAV-GRIP 3V on vertical wall surfaces, such as structural concrete, gypsum, Securock, DensDeck Prime and plywood substrates.

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CAUTION: Use of standard DensDeck is not recommended due to excessive primer absorption. When the use of standard DensDeck is specified, two coats of Versico Primer will be required along with a trial test to verify adequate adhesion of the Versico's VapAir Seal MD Air and Vapor Barrier.

C. **Limitations**

1. Do not apply primer or vapor barrier to frozen substrates. Best results are obtained when temperatures are above 40°F (4°C).

2. Versico's VapAir Seal MD Air and Vapor Barrier may be installed in temperatures as low as 10°F (-12°C) based on the following criteria:

   a. All materials (Vapor Barrier and Primer) must be stored in temperatures above 60°F (15°C) prior to installation.

   b. For best results, CAV-GRIP 3V primer should be applied to the metal deck to ensure proper adhesion during the roofing installation. CAV-GRIP 3V primer will allow for the shortest flash off time (approximately 5 minutes). **Note: The propellant in CAV-GRIP 3V will revert back to a liquid when the cylinder temperature falls below 45°F (7°C). If this occurs, simply warm the cylinder up above 60°F (15°C) and the propellant will revert back to a gas.**

   c. In temperatures below 40°F (4°C) priming the seams is recommended to ensure seam performance.

3. Do not apply primer or vapor barrier to damp or contaminated surfaces.

4. Versico's VapAir Seal MD Air and Vapor Barrier is not recommended for use over sealants containing coal tar or polysulfides. If these materials are present, they must be removed and the surfaces thoroughly cleaned.

D. **Installation**

1. **Surface Preparation**: The surface shall have a smooth finish and be free of voids, spalled areas, sharp protrusions, loose aggregate, laitance and form release agents. In the event of rain, concrete must be allowed to dry before primer is applied.

2. **Primer**: Non-metal surfaces to receive VapAir Seal MD must be clean and dry. Prime with CAV-GRIP 3V, CCW 702, 702LV or CCW WB Primer. Apply Primer by spray, brush or with a long nap roller at the applicable coverage rate noted above. At 75°F allow 702, 702LV and 702WB primer to dry 75 minutes minimum. Primer has a satisfactory cure when it will not transfer when touched. Prime only areas to be waterproofed the same day. At 75°F allow CAV-GRIP 3V primer to dry approximately 5 minutes minimum. Re-prime if area becomes dirty.

3. **Application**: Apply VapAir Seal MD Air and Vapor Barrier to the metal deck from low to high point, in a shingle fashion, so that laps will shed water. Overlap all edges at lease 2-1/2". End laps shall be staggered. Place either a 6" wide section of 24 gauge sheet metal or a 6" wide section of VapAir Seal MD directly on the metal under each end lap, perpendicular to the end lap, to ensure a solid surface to roll the end lap together. Seams and end laps must be rolled with a 2" seam roller or stand-up seam roller. Place membrane carefully so as to avoid wrinkles and fish mouths. Immediately after installation, broom the sheet to ensure proper contact to the metal.

   a. Apply a bead of lap seal should be applied at the interior of all T-Joint intersection. Please refer to applicable Versico Details.

4. **Repairs**: Following application, inspect VapAir Seal MD membrane for tears, punctures, fish mouths, air bubbles and voids due to misalignment at seams. Remove damaged membrane. Prime exposed substrate and allow primer to dry. Apply a new section of VapAir Seal MD Air and Vapor Barrier to primed substrate, extending onto adhered membrane, 6" on all sides. With a seam roller; roll VapAir Seal MD repair section to ensure a proper seal. Slit fish mouths and overlap the edges.

5. **Insulation Installation**: Ensure surface of VapAir Seal MD Air and Vapor Barrier is dry prior to installing insulation. Place insulation over the surface and mechanically fasten to the roof deck accordance with this Versico Specification.

6. **Installation at angle changes**: To ensure proper installation, the vertical wall must me clean of debris and residual asphalt. Prime the vertical surface ensuring the primer extends a minimum of 2” above where the VapAir Seal MD meets the vertical wall. After installing the VapAir Seal MD, use a seam roller on the vertical surface to ensure contact to the wall. There are two options for applying the MD to the vertical surface:

   a. Option One: Apply the VapAir Seal MD up the vertical surface to the height of the insulation or a minimum of 2”.

   b. Option Two: Apply the VapAir Seal MD over the entire vertical surface ensuring the membrane extends over the top of the vertical surface and ties into exterior wall air barrier when applicable. Refer to applicable Versico details.

      Note: When utilizing option 2, mechanically fastened 1/2” SecurShield HD board, 1/2” SecurShield HD Plus board, 1/2” DensDeck, 1/2” Securock or 1/2” plywood over the VapAir Seal MD surface to ensure a solid substrate to adhere the roofing membrane.

7. **Angle Change**: The VapAir Seal MD should be applied to the vertical surface at a 90° angle and be adhered to a firm substrate. When a gap is present between the metal deck and the vertical surface, loose lay a 6” wide section of 24 gauge sheet metal at the angle change to ensure a solid surface for adhering the membrane. When the gap between the metal deck and vertical substrate is greater than 2”, install a section of insulation to fill in the gap prior to loose laying the 6” wide section of sheet metal.

8. **Details:** Proper details ensure the integrity of the Air and Vapor Barrier. Details must be completed using the following materials: VapAir Seal MD material, Pressure-Sensitive ElastoForm Flashing and VapAir Seal Foam Flashing. Please refer to applicable Versico details for penetrations and ties-ins.

SPECIFICATION
SUPPLEMENT

G-13

VacuSeal™ Vent Secured Roofing Systems

July 2024

The information contained in this supplement serves as a criteria for Specifiers and Authorized Contractors regarding the design and installation of Versico Roofing Systems and use of roof vents for a vent secured roofing system. In addition to the information contained herein, attachment details are included to provide the Specifiers and Authorized Contractors with quick access to specific information. Specifiers and Authorized Contractors are advised to reference all applicable details included with this spec supplement.

This alternate method with vent securement is for securing Versico's VersiGard/VersiGard White (EPDM), VersiWeld (TPO), VersiFlex (PVC) or VersiFlex (KEE HP) membrane and is intended to be used with products included within the Versico's Thermoset or Thermoplastic Specification and Details.

A. Description

The VacuSeal™ Vent Secured Roofing System incorporates the use of a loose-laid thermoset or thermoplastic membranes in conjunction with a sealed roofing/substrate assembly and VacuSeal Roof Vents. The roof vents locations are pre-determined by engineered drawings processed through Versico, based on project location and conditions. Air distribution strips are positioned beneath the membrane linking the VacuSeal Vents and facilitating air movement beneath the membrane. The insulation is loose-laid in a single or multiple layers and overlaid with a 1/2 inch gypsum cover board.

NOTE: A continuous air seal is critical for performance of the system, closely follow details at perimeters and penetrations. VacuSeal Vent Secured Roofing System is limited to 20 Year Maximum warranty with wind speed coverage up to 90 mph. Specific enhancements will be required along the perimeter for systems requiring warranty wind speed coverage greater than 72 mph. Contact Versico for enhancement requirements.

VacuSeal™ Membrane Systems Warranty Options

Years	Thermoset (VersiGard/VersiGard White EPDM) OR Thermoplastic Membranes (VersiWeld TPO/VersiFlex PVC/VersiFlex KEE HP)		
	Warranty Wind Speed 55, 72, 80 or 90 mph	Minimum Membrane Thickness (1)	Additional Puncture Coverage
5, 10, 15 or 20 year	√(2)	60-mil	Not Available

Notes: √= Acceptable

(1) All "T-Joints" must be overlaid with appropriate flashing material.
(2) Perimeter enhancements required for wind speed coverage greater than 72mph. Contact Versico for requirements.

B. Quality Assurance

1. This securement method using VacuSeal Vents requires a pre-engineered drawing developed by Versico identifying locations of all vents in the system and specific engineering evaluations completed by Versico. Prior to installation, approved engineered drawing must be obtained.

VERSICO
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2. This roofing assembly must be installed by an authorized applicator who has been trained for the installation of VACUSEAL Roof Vents and its components in compliance with the approved engineered drawing.

3. Consult Versico to ensure proper seal detailing is provided and appropriate Versico roofing details are selected.

4. In addition to final inspection by Versico, project scheduling must be coordinated with Versico for in-progress inspection coordination.

C. Submittals

1. Prior to starting work, the roofing contractor must submit the following:

   a. A completed VacuSeal Job Evaluation Request Form prior to installation. This is required to receive a project layout from Carlisle for the VacuSeal system components. For questions – email VacuSeal@Versico.com.

2. No deviations will be allowed without prior written approval.

3. Upon completion of the installed work, submit notice of completion to Versico to schedule Final Inspection.

D. Products

Products listed in "Part II" of the Versico Thermoset/Thermoplastic Roofing System Specifications can be used as part of the VacuSeal Vent Secured Roofing System. In addition, products listed herein are specific to this system:

1. VacuSeal **Roof Vent**: A ridged injection-molded PVC plastic roof vent with integrated plastic flange base.

2. **Air Distribution Strip:** A 10" wide, orange polypropylene mesh used to distribute air underneath the membrane and VacuSeal roof vent. Available in rolls of 10" wide by 500' long.

3. **Sealant Tape:** An elastomeric butyl rubber sealant, extruded on silicone coated paper, used in conjunction with a termination bar to secure and seal compression type flashing terminations.

4. **Versico VapAir Seal 725TR Air and Vapor Barrier** - A 40-mil thick composite consisting of 35-mil self-adhering rubberized asphalt membrane laminated to a 5-mil UV resistant poly film with an anti-skid.

5. **Versico VapAir Seal MD Air and Vapor Barrier** – a reinforced composite aluminum foil with self-adhesive SBS backing and removable poly release film. Used for direct application over metal decks.

6. **Versico VapAir Seal Flashing Foam –** a low pressure foam system that utilizes a non-flammable blowing agent. The foam is used to seal penetrations and reduce air leakage, especially at roof perimeters.

7. **VersiGard/VersiGard White Quick Applied Uncured Flashing:** A 6" X 100' and 9" or 12" wide by 50' long, 60-mil thick VersiGard **uncured** EPDM Flashing laminated to a 30-mil QA Seam Tape used in conjunction with EPDM Primer. VersiGard/VersiGard White EPDM Quick Applied uncured Flashing is used to flash inside and outside corners, pipes, scuppers and field fabricated pourable sealer pockets when the use of Versico pre-fabricated flashing accessories is not feasible.

E. Design Criteria

Follow current Versico specifications for installing roof membranes and seaming per specific membrane. [VersiGard/VersiGard White (EPDM), VersiWeld (TPO), VersiFlex (PVC) or VersiFlex (KEE HP)].

1. **General**

   a. The use of a sealed air barrier for this roofing system is required and is critical to the performance and function of this system. Follow all details at perimeters and penetrations.

   b. For this air equalization attachment method, night seal must be completed by the end of each day, perimeter seals must be completed along with the required number of vents in a specific area.

2. **Re-Roof (Recover, No Tear-Off)**

   a. To maintain continuous air seal, utilize existing roof membrane and replace or re-seal any flashings which are loose or damaged.

SUBSTRATE CRITERIA FOR VACUSEAL REROOF (RECOVER, NO TEAR-OFF) [(1)]

Acceptable Roof Deck / Substrate (1)	TPO Membrane	PVC / KEE HP PVC Membrane	EPDM Membrane
Existing Smooth Surface BUR (7) or Mineral Surface Cap Sheet	Direct Application (8) (9)	½" min. approved coverboard	Direct Application (2) (9)
Gravel Surfaced BUR (3) or Coal Tar Pitch (3) (4)	½" min. approved coverboard	½" min. approved coverboard	½" min. approved coverboard
Modified Bitumen (9)	Direct Application (6) (8)	½" min. approved coverboard	Direct Application (6) (8)
Existing Single-Ply (5)(9)	Direct Application	Direct Application	Direct Application
Sprayed-in-place Urethane	½" min. approved coverboard	½" min. approved coverboard	½" min. approved coverboard

Notes:

1) Existing roof system must be securely attached.
2) VersiGard (black) may be applied directly to the substrate provided asphalt on existing smooth surfaced built-up roof has a softening point above 185°F (85°C). VersiGard White (White-on-black) Roofing Systems are not recommended for direct application over smooth BUR or granule surface BUR or in in conjunction with HP mat. Make sure substrate is clean and free of roofing cement and fresh asphalt to avoid sheet contamination and staining of white color membrane.
3) Loose gravel must be removed to avoid entrapment of moisture.
4) Existing coal tar could drip back into the building, especially when new insulation does not provide sufficient thermal value to prevent the surface of the coal tar from softening.
5) Not Approved over existing ballasted single-ply systems (even if ballast removed). An approved underlayment is required over existing roofing systems of any type.
6) Direct application permitted over smooth surfaced modified bitumen. Membrane shall be positioned with length of sheets parallel to modified bitumen field seams. At end laps or other locations where splices intersect modified bitumen field seams, 6" wide VersiWeld or VersiFlex Flashing must be heat welded over intersections. For VersiGard, 6" wide Uncured or Quick-Applied Flashing must be applied over intersections.
7) Existing Type III or IV smooth asphalt BUR only.
8) Possible staining/discoloration of light-colored membrane may result when installing this system directly over existing smooth surfaced BUR or modified bitumen. If aesthetics is critical, an approved insulation should be specified beneath the membrane.
9) Maximum warranty available 20 YR with 55 MPH peak gust wind speed coverage. Carlisle may be contacted for other warranty options.

3. **Re-Roof (Partial Tear Off, Deck Not Exposed)**

   a. Partial tear-off does not allow a continuous air seal below the membrane and these projects are not recommended for use with Vented Roof Systems, without verification of an existing air barrier.

4. **New Construction / Re-Roof (Complete Tear-Off, Deck Exposed)**

   All deck types (Steel, Concrete, Wood, Cementitious Wood Fiber or Gypsum) require a continuous air seal which can be achieved utilizing an air barrier at the deck level.

F. Installation

1. Daily Seal

   a. On phased roofing, when the completion of flashings and terminations is not possible by the end of each workday, provisions must be taken to temporarily close the membrane to prevent water and air infiltration.

   b. Temporarily seal any loose membrane edge down slope using G400PS-2 Pourable Sealer (EPDM only), Flexible DASH Adhesive, hot asphalt, or a similar product so that the membrane edge will not buck water. Caution must be exercised to ensure positive draining during installation, temporary seal locations should be designated so that drainage is not restricted during construction by partially installed roof sections.

      1) When applying Flexible DASH Adhesive or other sprayed urethane foam, prime the surface of the membrane with Versico Primer to ensure proper adhesion.

      2) G400PS-2 Pourable Sealer, when utilized, shall be applied as follows:

         a) The two Pourable Sealer components must be mixed in accordance with the instructions on the container labels.
         b) Apply the Pourable Sealer along the loose edge of the EPDM membrane. If necessary, use a trowel to spread Pourable Sealer to achieve complete coverage.

c. When tie-in to existing built-up roofs, remove the gravel. The surface must be clean and dry.

d. After embedding membrane in daily seal material, CHECK FOR CONTINUOUS CONTACT. Provide continuous pressure over the length of the temporary seal. Provide weight evenly distributed along the length of the daily seal to reduce the wind effect on the continuous temporary seal.

NOTE: The use of rigid wood nailers is not recommended due to warping. Constant compression cannot be achieved on an uneven substrate.

e. When work is resumed, pull the imbedded membrane free; trim and remove daily seal material from membrane before continuing installation of adjoining sections.

2. Follow guidelines above for the installation and air sealing of roof deck perimeters and penetrations.

3. After placement of insulation and coverboard, layout the vents and air distribution strips per engineered layout drawing provided by VacuSeal Technology. Mark placement of vents on substrate with chalk or marker.

4. Loose lay roofing membrane over the air distribution strips and air vent locations. Allow the membrane to relax.

5. Place the VacuSeal Roof Vents on previous marks and cut out membrane as needed for installation of vent, follow details for specific requirements for each vent.

6. Flash VacuSeal Roof Vent per requirements outlined in detail.

7. Repeat installation for additional vents.

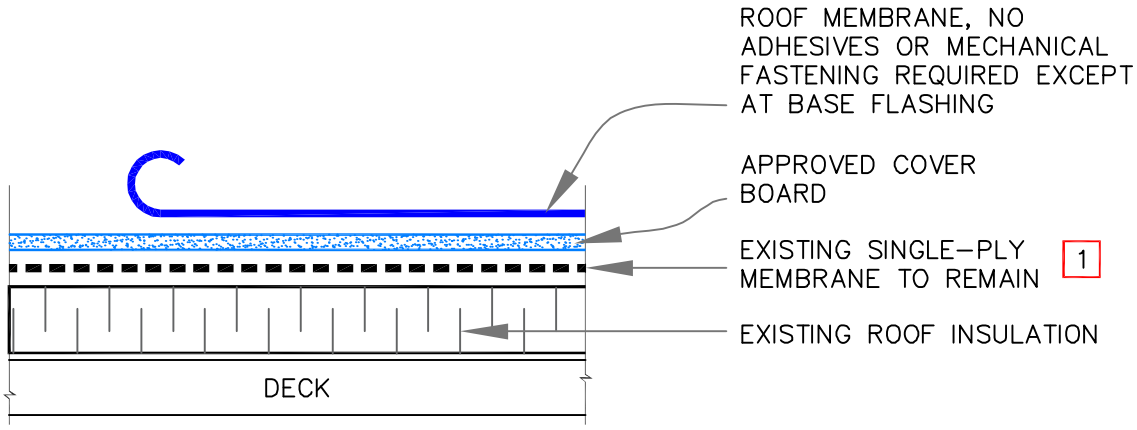
G. Field Quality Control

1. Repair or remove and replace components of membrane roofing system where inspections indicate that they do not comply with specified requirements.

H. Associated Installation Details

End of Section

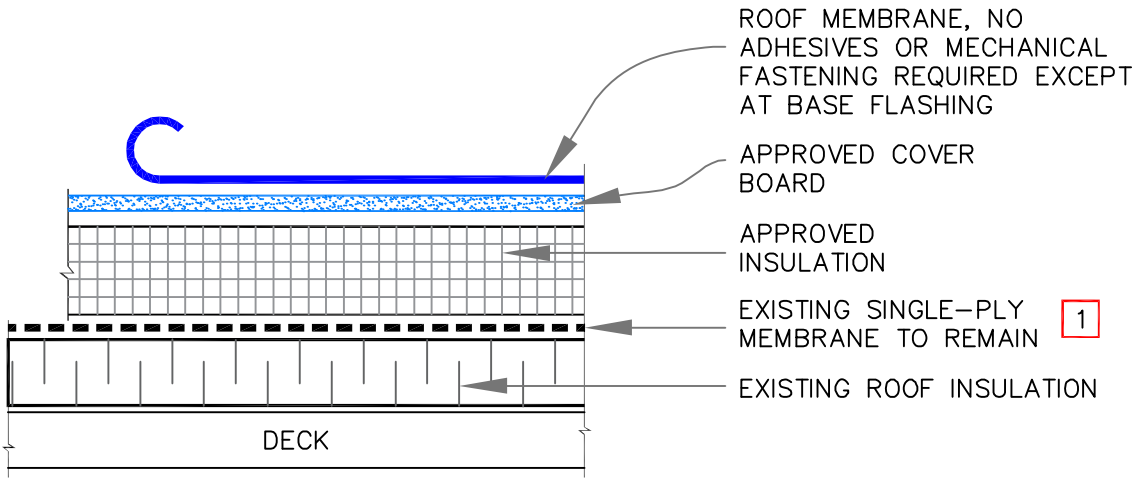
ROOF ASSEMBLY WITHOUT NEW INSULATION



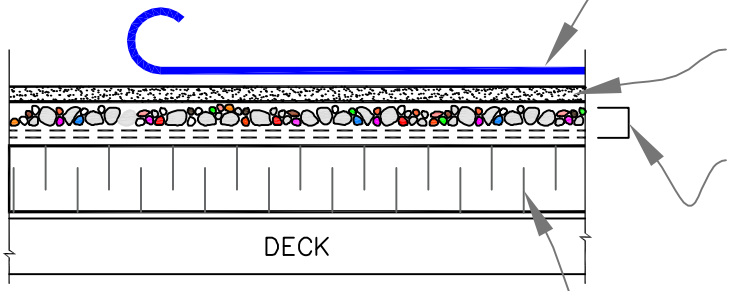
NOTE:

1. EXISTING ROOF MEMBRANE MAY BE USED AS AN AIR BARRIER. IT WILL REQUIRE THOROUGH INSPECTION FOR BREACHES, DAMAGES, AND AIR TIGHTNESS OF EXISTING FLASHING. SEAL ALL DEFICIENT CONDITIONS TO ACHIEVE AN AIRTIGHT AIR BARRIER.

ROOF ASSEMBLY WITH NEW INSULATION



See sheets V-0.1 to V-0.7 & Specs for additional information



ROOF MEMBRANE, NO ADHESIVES OR MECHANICAL FASTENING REQUIRED EXCEPT AT BASE FLASHING

APPROVED COVER BOARD

EXISTING ROOF (TO REMAIN).
- ASPHALT B.U.R SMOOTH OR
- ASPHALT B.U.R PEA GRAVELED OR
- MODIFIED BITUMEN SMOOTH OR
- MODIFIED BITUMEN GRANULAR

EXISTING ROOF INSULATION

NOTES:

1. EXISTING ROOF MEMBRANE MAY BE USED AS AN AIR BARRIER. IT WILL REQUIRE THOROUGH INSPECTION FOR BREACHES, DAMAGES, BLISTERS, WRINKLES AND AIR TIGHTNESS OF EXISTING FLASHING. SEAL ALL DEFICIENT CONDITIONS TO ACHIEVE AN AIRTIGHT AIR BARRIER.
2. FOR NEW ASSEMBLY OVER COAL TAR PITCHED ROOF, CONTACT VERSICO.
3. LOOSE GRAVEL OR GRANULES MUST BE REMOVED AND THE SURFACE SHALL BE LEVELED.

See sheets V–0.1 to V–0.7 & Specs for additional information

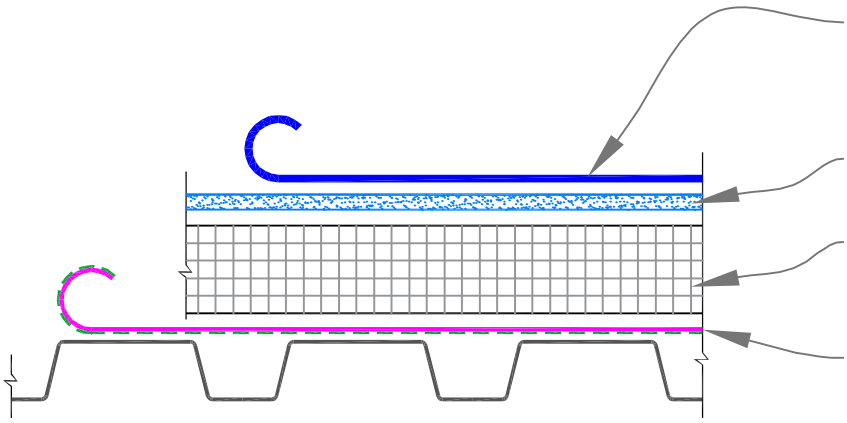
ROOF ASSEMBLY OVER EXISTING ASPHALTIC ROOF

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

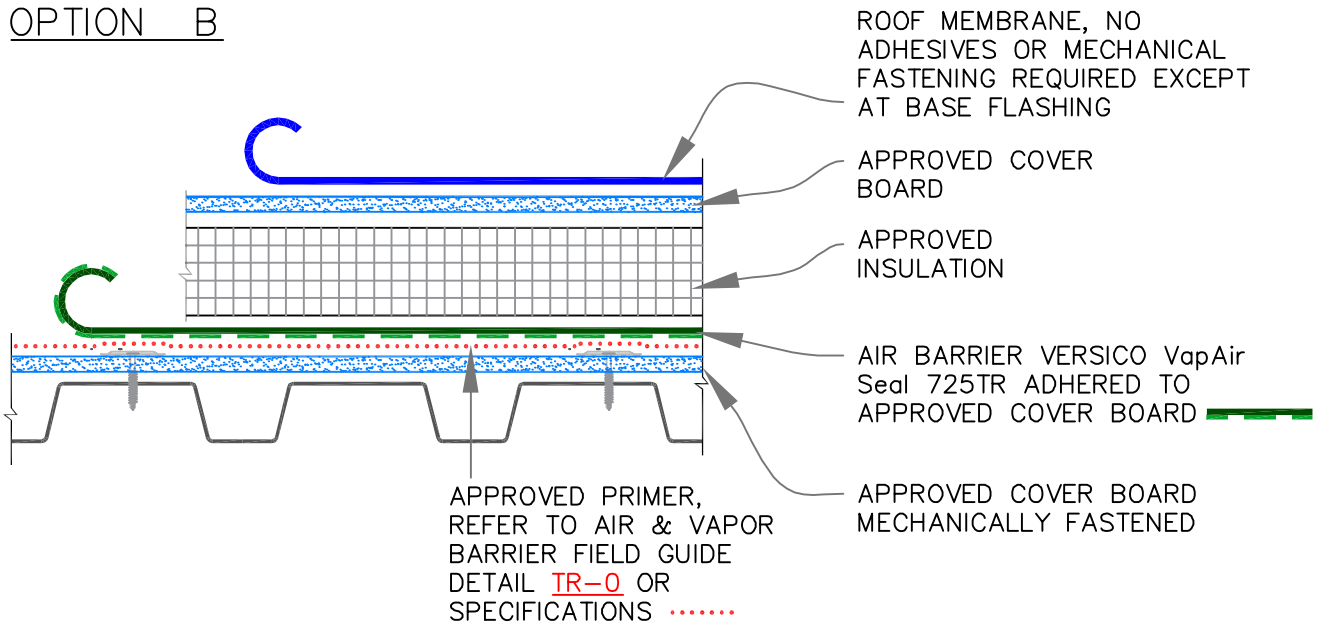
VENT SECURED ROOFING SYSTEM

V–0.2

OPTION A



OPTION B



See sheets V-0.1 to V-0.7 & Specs for additional information

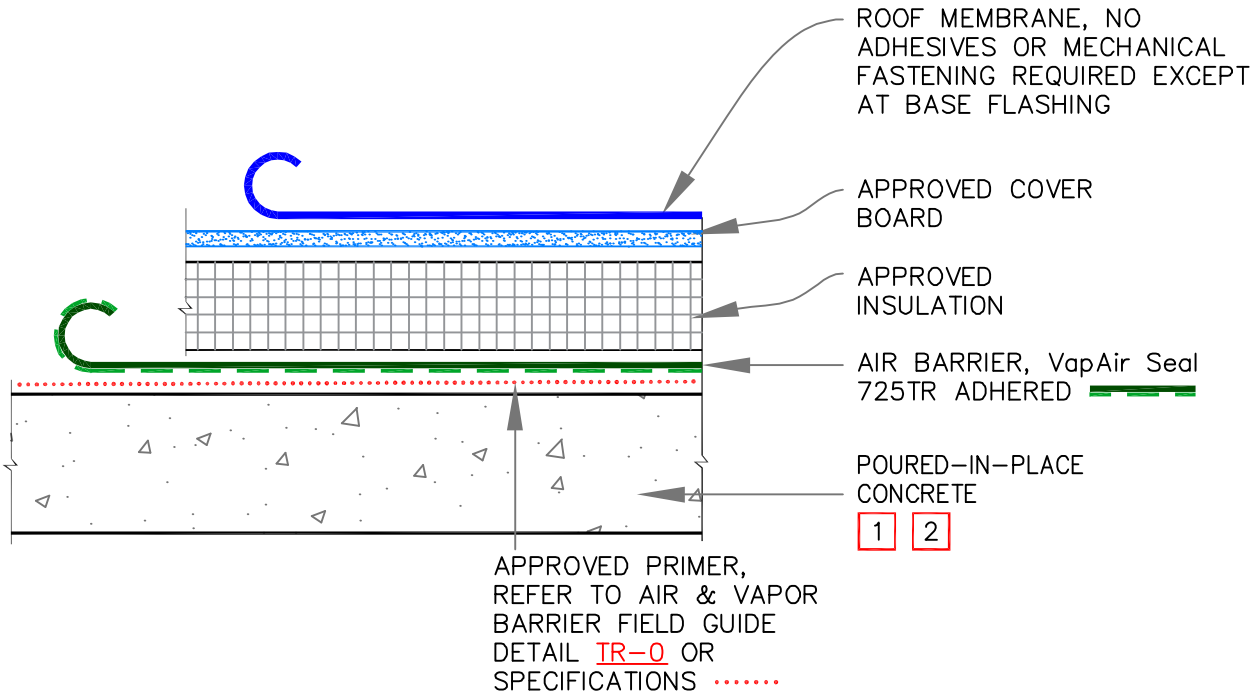
VERSICO ROOFING SYSTEMS

ROOF ASSEMBLY – OVER STEEL DECK

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-0.3



NOTES:

1. THE SUBSTRATE MAY NOT REQUIRE AN ADDITIONAL LAYER OF AIR BARRIER. TO ENSURE THAT A CONTINUOUS AIR-SEAL IS PROVIDED, THE SUBSTRATE MUST BE INSPECTED FOR BREACHES FOR AIR INFILTRATION AT CRACKS, JOINTS, PENETRATIONS, ROOF EDGES, PARAPET WALLS, AND SIMILAR CONDITIONS.

See sheets V-0.1 to V-0.7 & Specs for additional information

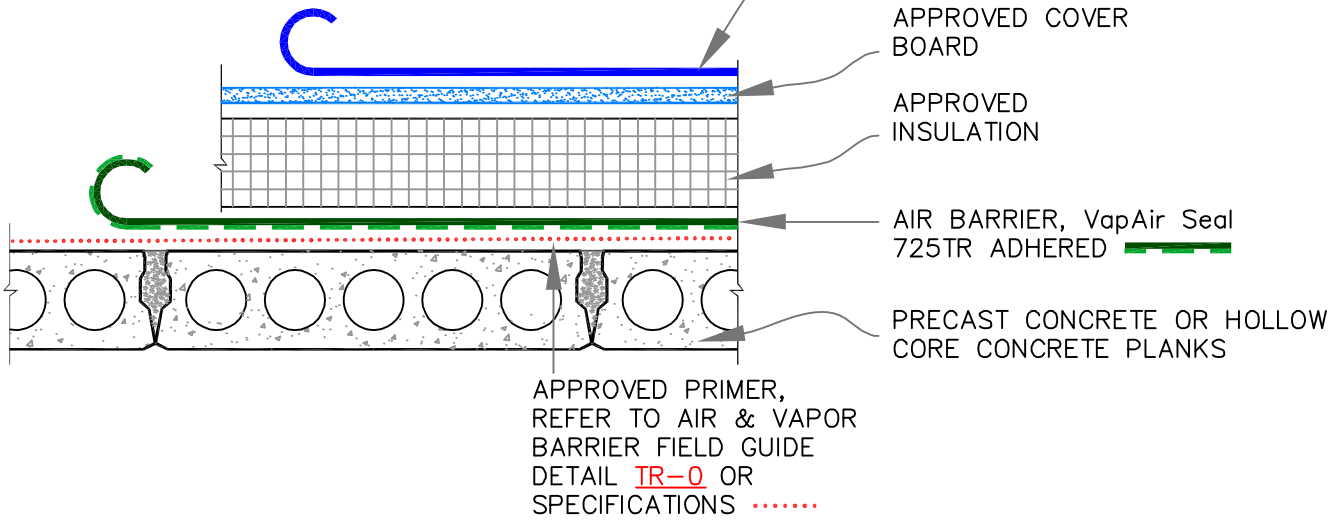
ROOF ASSEMBLY OVER POURED-IN-PLACE CONCRETE DECK

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

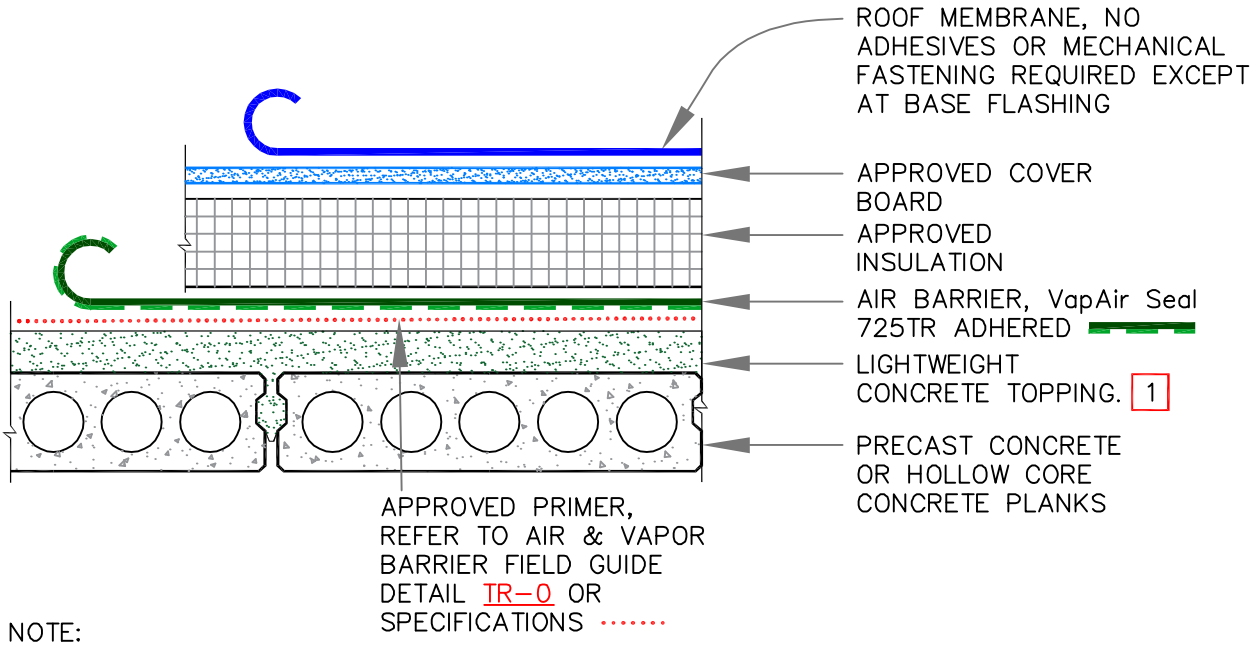
VENT SECURED ROOFING SYSTEM

V-0.4

HOLLOW CORE CONCRETE PLANKS



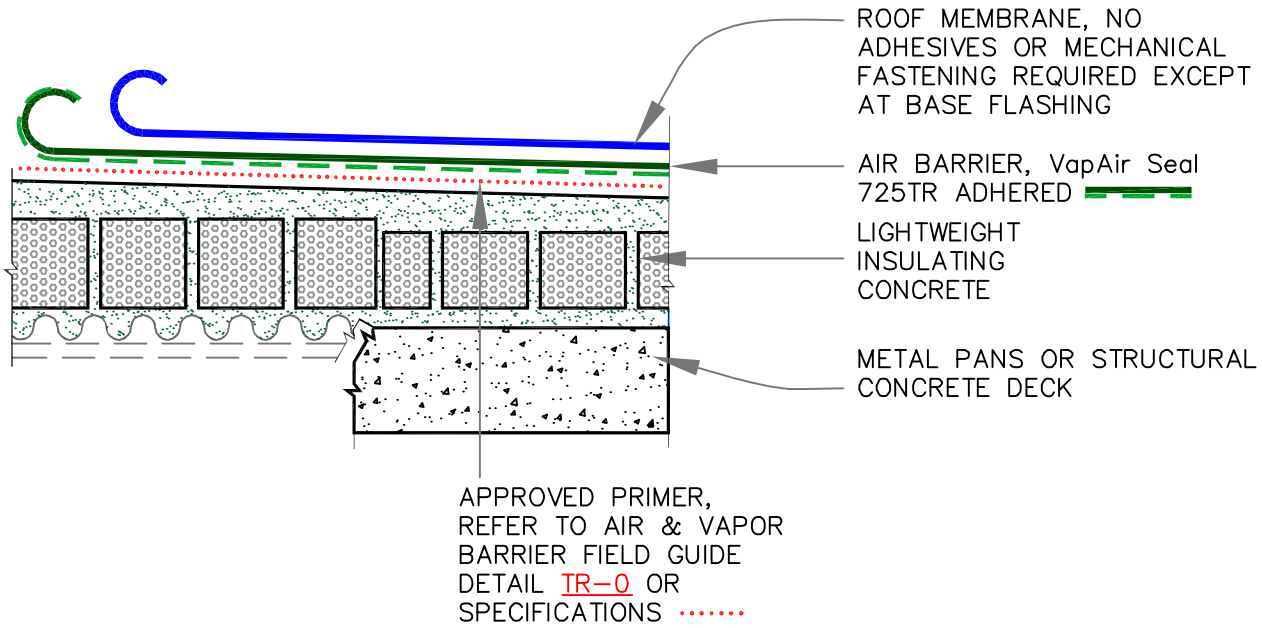
HOLLOW CORE CONCRETE PLANKS WITH TOPPING



NOTE:

1. THE SUBSTRATE MAY NOT REQUIRE AN ADDITIONAL LAYER OF AIR BARRIER WHEN CONCRETE TOPPING EXISTS. TO ENSURE THAT A CONTINUOUS AIR-SEAL IS PROVIDED, THE SUBSTRATE MUST BE INSPECTED FOR BREACHES FOR AIR INFILTRATION AT CRACKS, JOINTS, PENETRATIONS, ROOF EDGES, PARAPET WALLS, AND SIMILAR CONDITIONS & PROPER REPAIRS MUST BE PERFORMED.

See sheets V-0.1 to V-0.7 & Specs for additional information



NOTE:

1. THE SUBSTRATE MAY NOT REQUIRE AN ADDITIONAL LAYER OF AIR BARRIER WHEN CONCRETE TOPPING EXISTS. TO ENSURE THAT CONCRETE SUBSTRATE PROVIDES A CONTINUOUS AIR-SEAL, THE SUBSTRATE MUST BE INSPECTED FOR AIR INFILTRATION. INSPECT FOR BREACHES CRACKS, JOINTS, PENETRATIONS, ROOF EDGES, PARAPET WALLS JUNCTIONS, AND SIMILAR CONDITIONS. PROPER REPAIRS MUST BE PERFORMED TO CREATE AN AIR BARRIER.

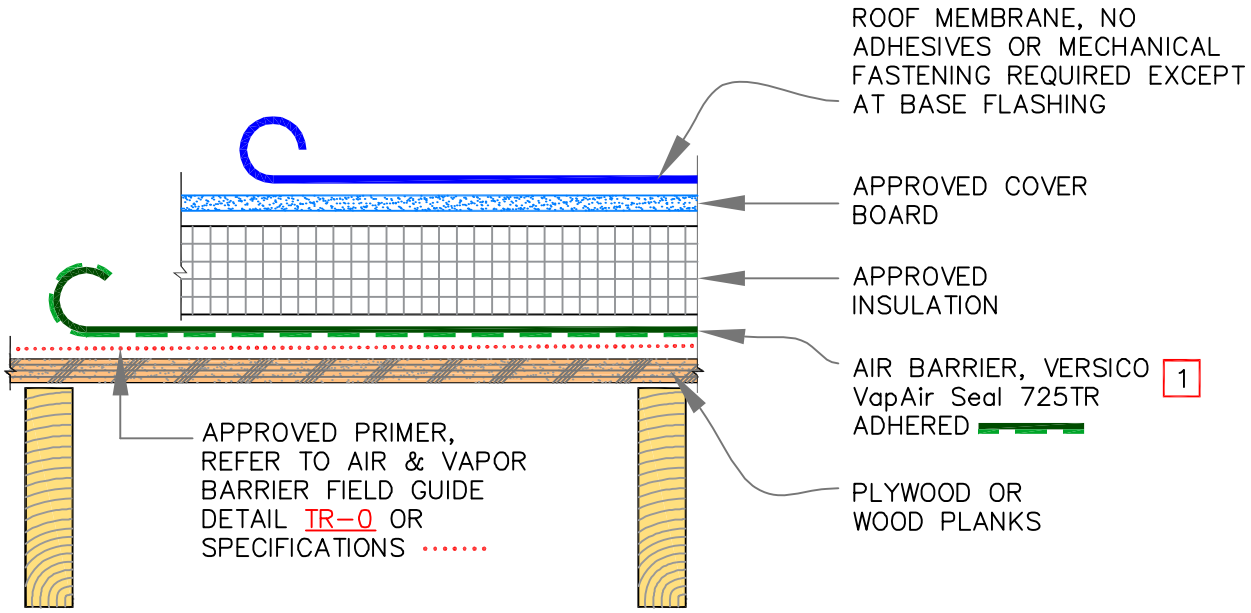
See sheets V-0.1 to V-0.7 & Specs for additional information

ROOF ASSEMBLY OVER LIGHTWEIGHT CONCRETE DECK

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-0.6



NOTES:

1. TO AVOID POTENTIAL DAMAGE TO AIR AND VAPOR BARRIER, PROTRUDING NAILS/FASTENERS SHALL BE REMOVED AND REPLACED WITH HEAVY GAUGE THREADED FASTENERS.

2. AS AN OPTION, THE AIR AND VAPOR BARRIER MAY BE ADHERED TO MECHANICALLY FASTENED SECUROCK OR DensDeck PRIME COVER BOARD.

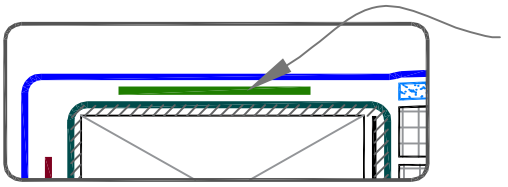
See sheets V–0.1 to V–0.7 & Specs for additional information

ROOF ASSEMBLY OVER WOOD DECK

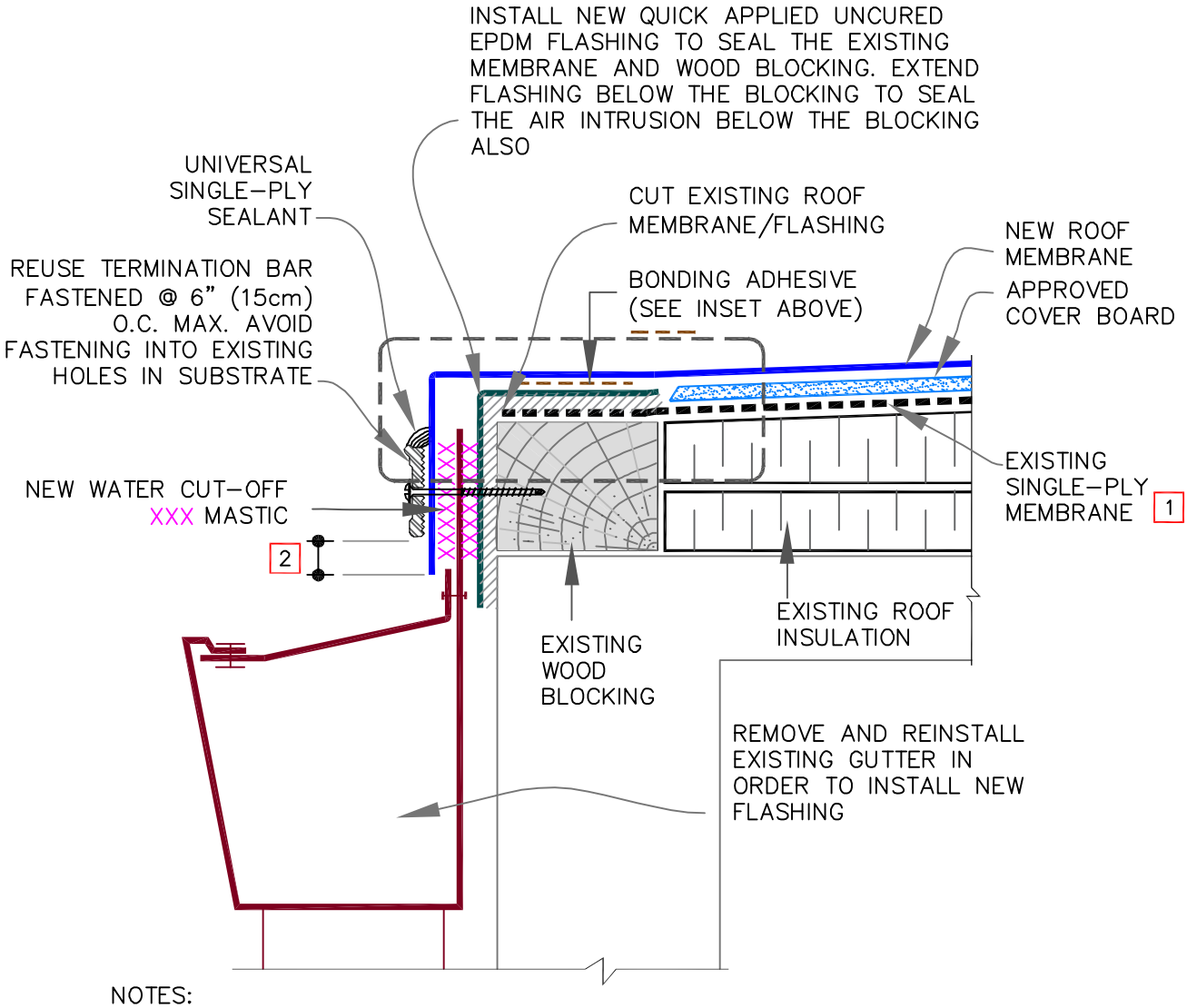
NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–0.7



IN LIEU OF BONDING ADHESIVE, 3" (7.5cm) WIDE QA SEAM TAPE MAY BE USED WITH PRIMER TO SEAL BOTH THE MEMBRANES



NOTES:

1. EXISTING ROOF MEMBRANE MAY BE USED AS AN AIR BARRIER. IT WILL REQUIRE THOROUGH INSPECTION FOR BREACHES, DAMAGES, AND AIR TIGHTNESS OF EXISTING FLASHING. SEAL ALL DEFICIENT CONDITIONS TO ACHIEVE AN AIRTIGHT AIR BARRIER.

2. ALLOW MEMBRANE SHEET TO EXTEND 1/2" (1.5cm) MINIMUM BELOW THE METAL TERMINATION BAR.

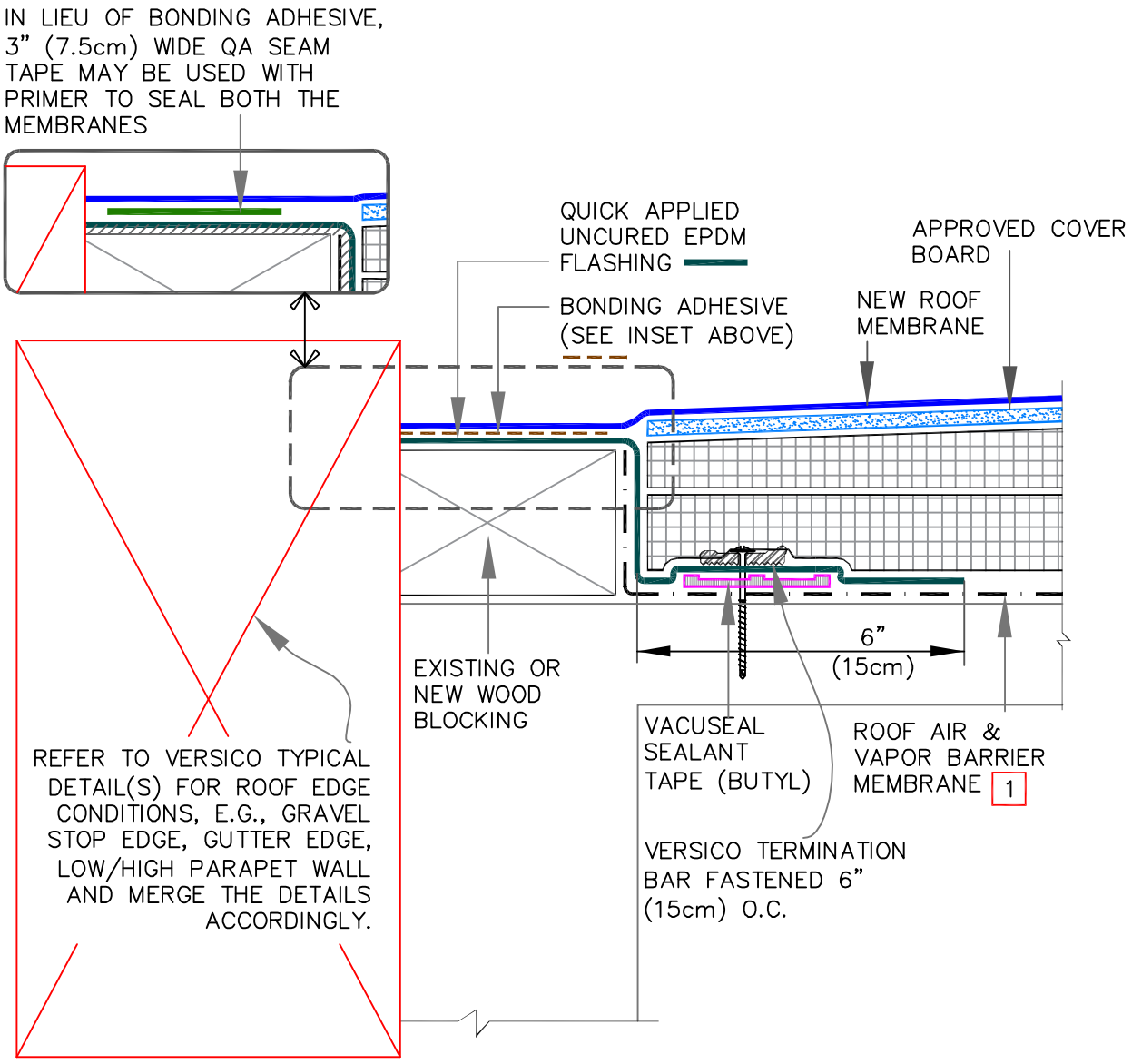
See sheets V-0.1 to V-0.7 & Specs for additional information

ROOF EDGE: ROOF RECOVER

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-1.1



NOTES:

1. USE VapAir Seal 725TR AIR AND VAPOR BARRIER ON CONCRETE DECKS.
2. IN CASE OF METAL DECK, COORDINATE WITH VERSICO.

See sheets V–0.1 to V–0.7 & Specs for additional information

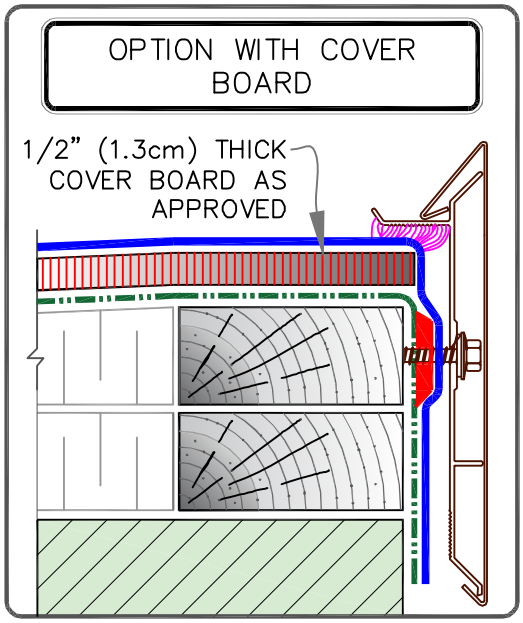
ROOF EDGE: TEAR–OFF & REROOFING

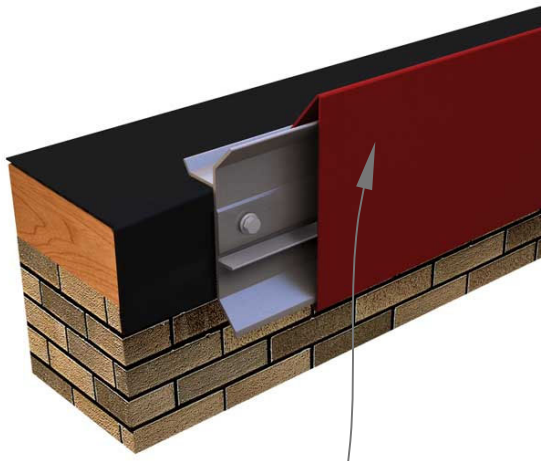
NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

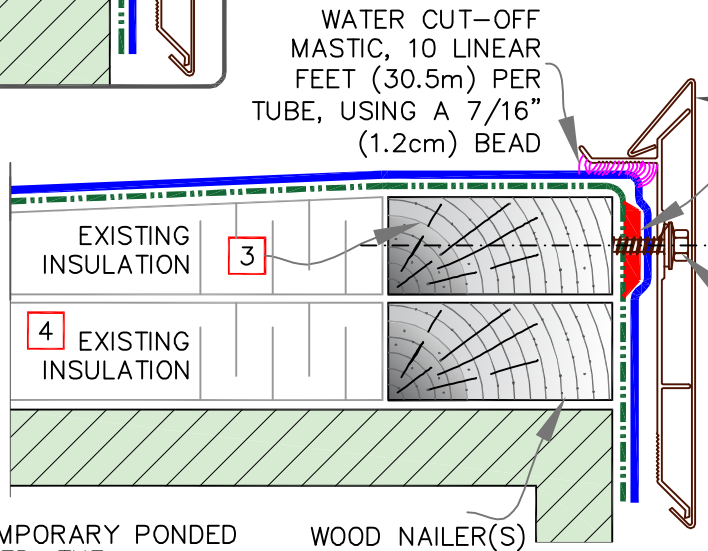
VENT SECURED ROOFING SYSTEM

V–1.2

OPTION WITH COVER BOARD

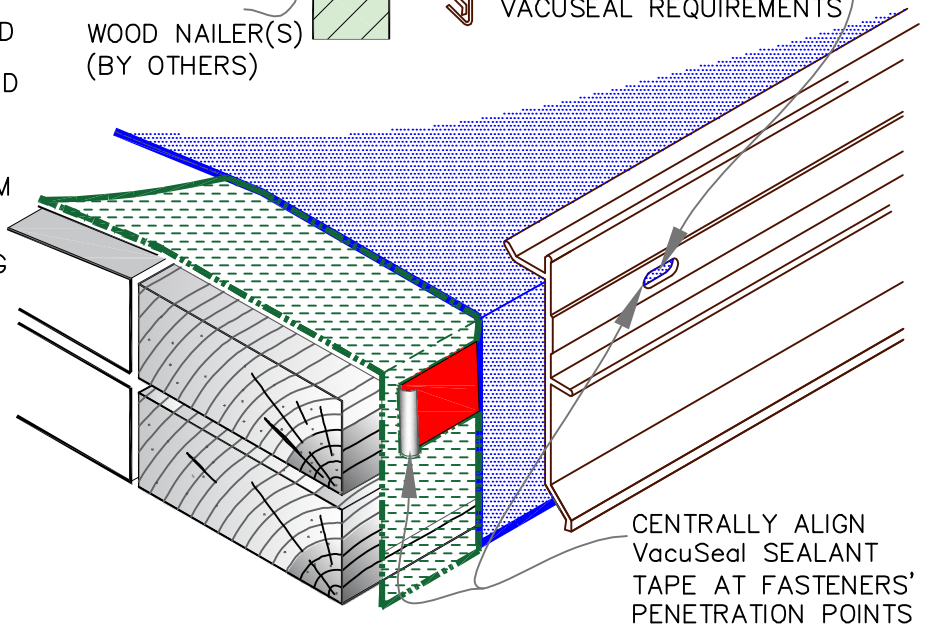






NOTES:

1. IF INCIDENTAL/TEMPORARY PONDED WATER IS EXPECTED, THE SecurEdge MUST BE ELEVATED AND SCUPPERS PROVIDED FOR DRAINAGE.
2. ENSURE ROOF SLOPES AWAY FROM VERSITRIM.
3. ENSURE, EXISTING WOOD BLOCKING IS PROPERLY SECURED. FIELD VERIFY AND REINFORCE/REPLACE AS NEEDED.
4. FIELD VERIFY DRY CONDITIONS OF EXISTING INSULATION WITH DELMHURST MOISTURE METER FOR DRY CONDITIONS.



	NEW ROOF MEMBRANE (EPDM, TPO OR PVC)
	EXISTING ROOF MEMBRANE OR APPROVED AIR BARRIER

See sheets V-0.1 to V-0.7 & Specs for additional information

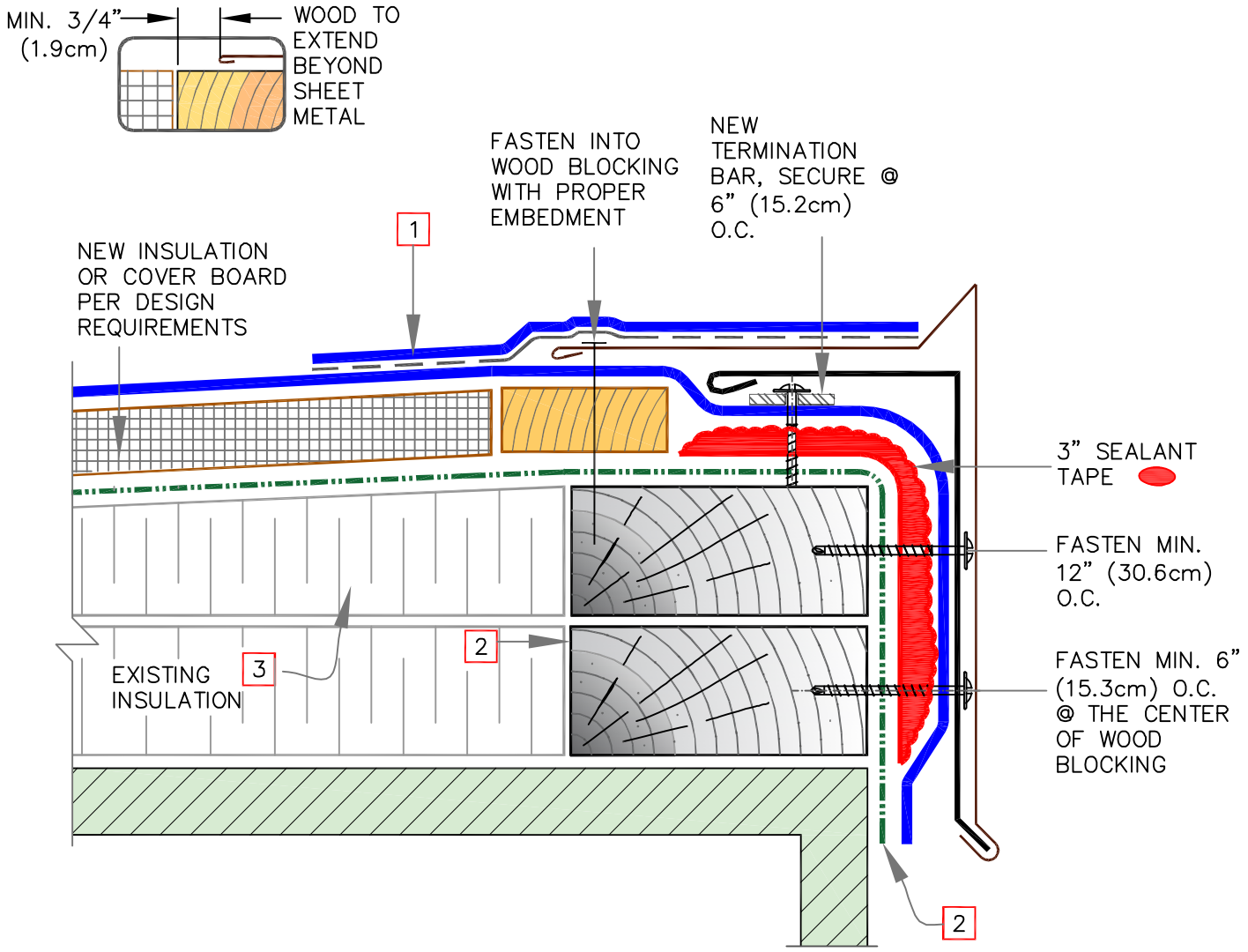
MAXIMUM WARRANTY: 20 YEARS

VERSITRIM 2000

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-1D



NOTES:

1. ROOF FLASHINGS ARE SUBJECT TO THE TYPE OF ROOF MEMBRANE ASSEMBLY. REFER TO VERSICO TYPICAL DETAILS FOR EACH MEMBRANE TYPE.

2. ROOF EDGES:

   2.1. ENSURE EXISTING WOOD BLOCKING IS PROPERLY SECURED. FIELD VERIFY AND REINFORCE OR REPLACE AS NEEDED.

   2.2. AFTER REMOVAL OF EXISTING EDGE METAL & IT'S NAILS, INSPECT FOR BREACHES IN THE MEMBRANE, IT'S SEAMS AND SEAL THEM ACCORDINGLY TO CREATE AN AIR BARRIER.

3. FIELD VERIFY DRY CONDITIONS OF EXISTING INSULATION WITH DELMHURST MOISTURE METER FOR DRY CONDITIONS.

	NEW ROOF MEMBRANE (EPDM, TPO OR PVC)
	EXISTING ROOF MEMBRANE OR APPROVED AIR BARRIER

See sheets V–0.1 to V–0.7 & Specs for additional information

MAXIMUM WARRANTY: 20 YEARS

VERSICO ROOFING SYSTEMS

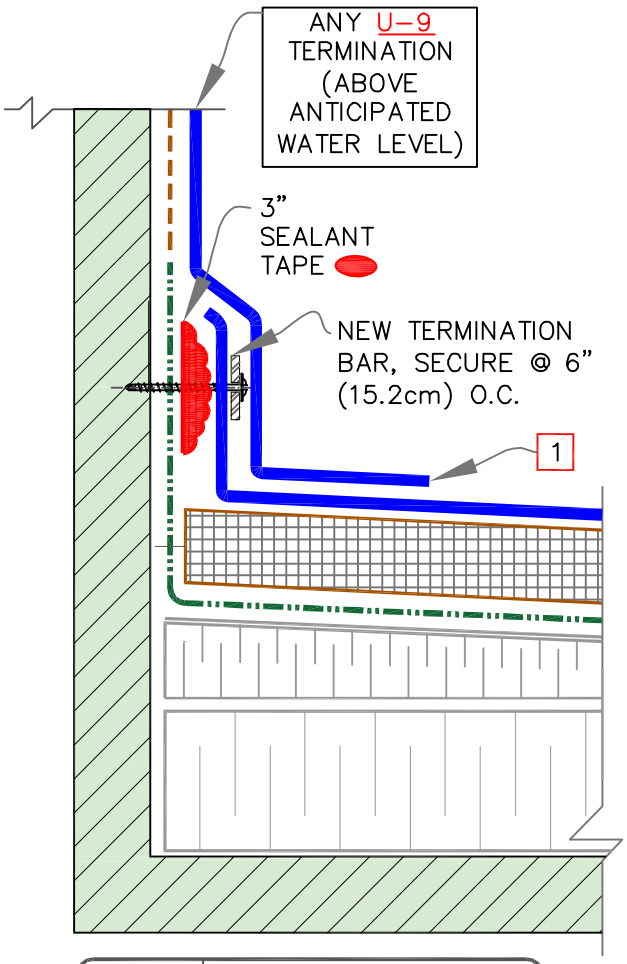
GRAVEL STOP EDGE

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

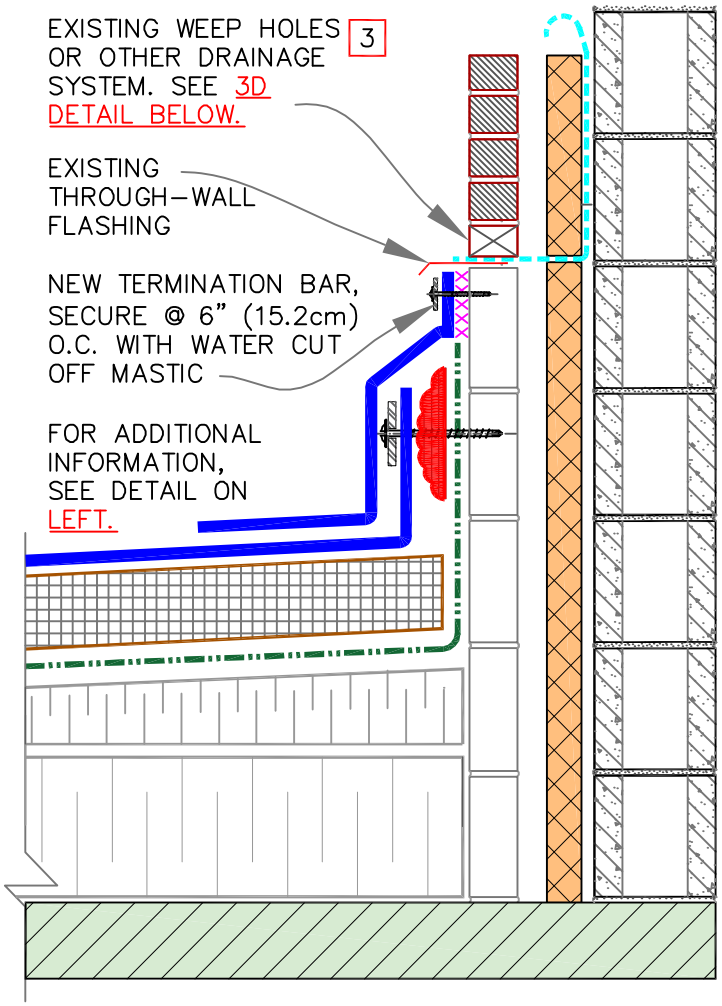
VENT SECURED ROOFING SYSTEM

V–1E

WALL WITHOUT DRAINAGE SYSTEM

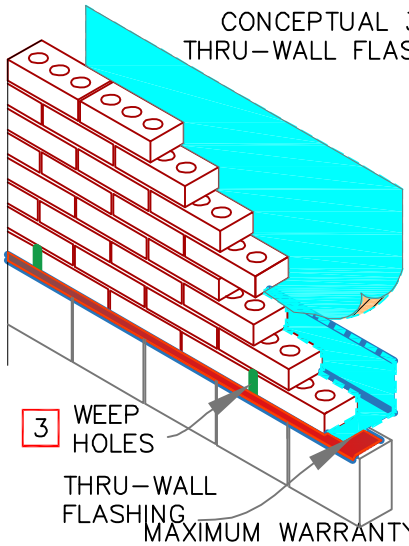


WALL WITH DRAINAGE SYSTEM



	NEW ROOF MEMBRANE (EPDM, TPO OR PVC)
	EXISTING ROOF MEMBRANE OR APPROVED AIR BARRIER

CONCEPTUAL 3D THRU-WALL FLASHING



NOTES:

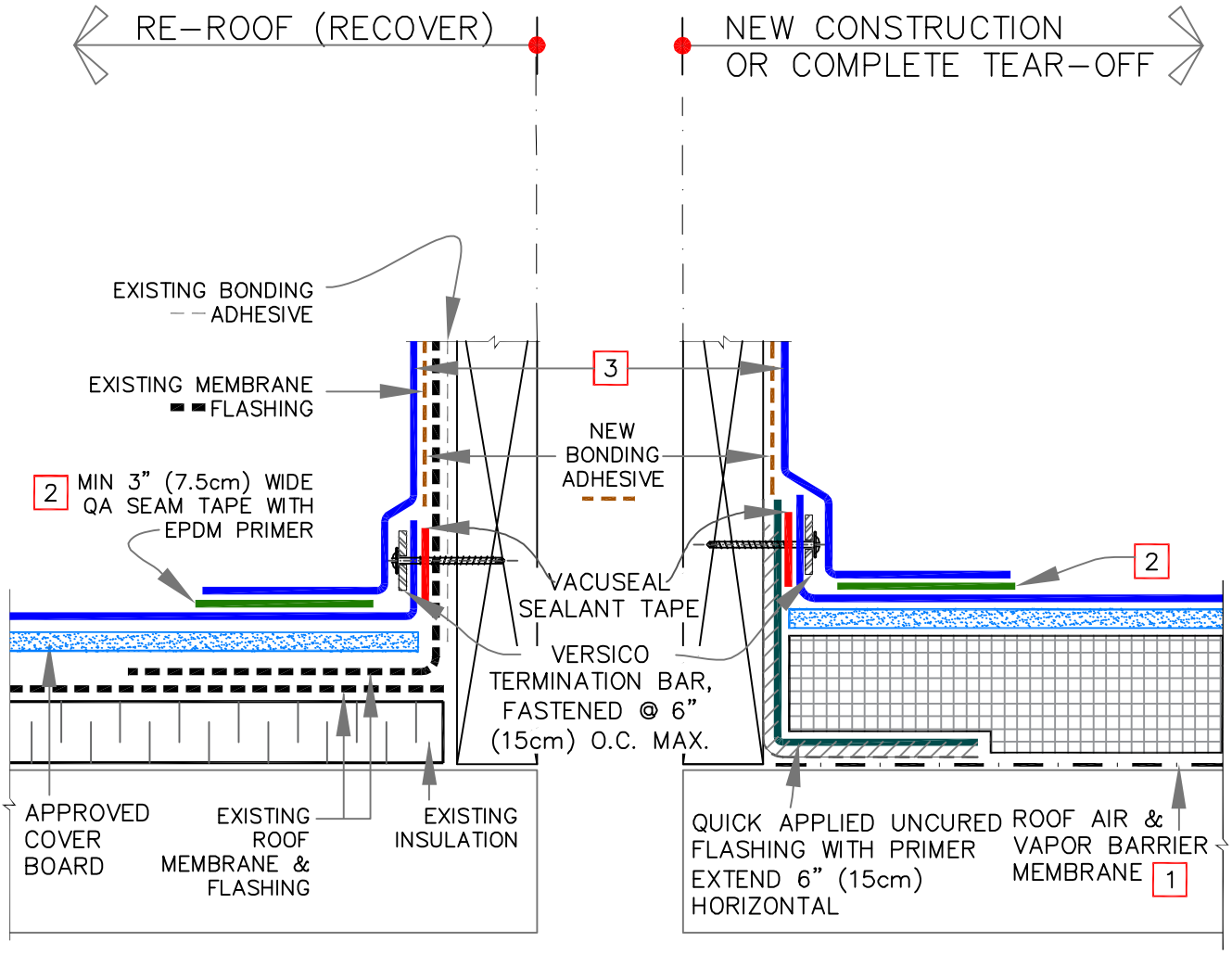
1. ROOF FLASHINGS ARE SUBJECT TO THE TYPE OF ROOF MEMBRANE ASSEMBLY. REFER TO CARLISLE TYPICAL DETAILS FOR EACH MEMBRANE TYPE.
2. FIELD VERIFY THE DRY CONDITIONS OF EXISTING INSULATION WITH DELMHURST MOISTURE METER FOR DRY CONDITIONS.
3. IT IS CRITICAL THAT WEEP HOLES OR ANY OTHER WALL DRAINAGE SYSTEM IS NOT COVERED WITH NEW FLASHING. STOP THE FLASHING BELOW THE THROUGH-WALL FLASHING. CONTACT CARLISLE FOR REVIEW.

See sheets V-0.1 to V-0.7 & Specs for additional information

MAXIMUM WARRANTY: 20 YEARS

ROOF TO WALL FLASHING

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VERSICO VapAir Seal MD. USE VERSICO VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.

2. FOR ADDITIONAL INFORMATION, REFER TO VERSICO'S THERMOSET DETAIL VGC–5.1 FOR EPDM AND THERMOPLASTIC DETAIL TPC–5.1 FOR TPO/PVC.

3. SELF–ADHERING EPDM CURB WRAP MAY BE SUBSTITUTED AS FLASHING ON EPDM ROOFS.

See sheets V–0.1 to V–0.7 & Specs for additional information

CURB BASE FLASHING – NEW CONSTRUCTION AND RE–ROOF (RECOVER)

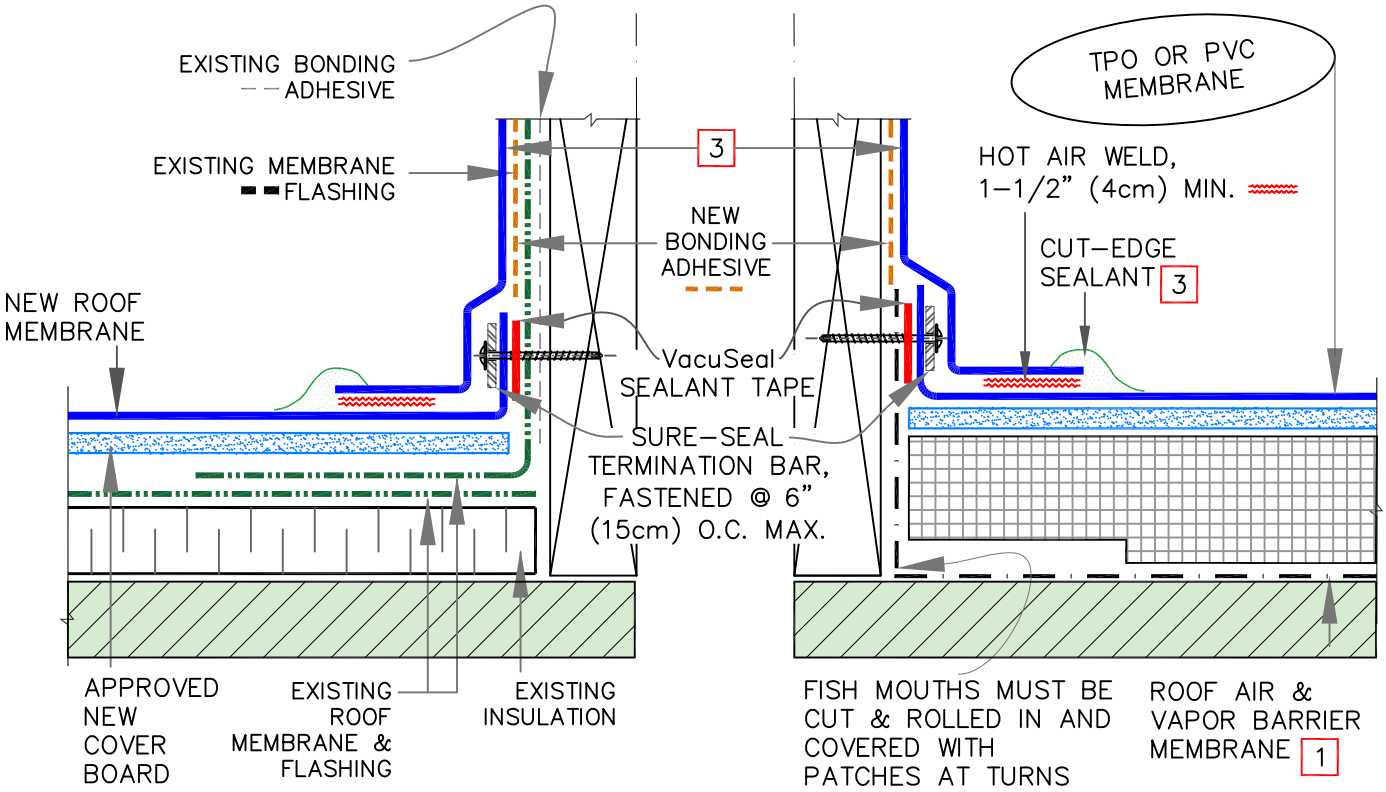
NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–5.1

RECOVER EXISTING ROOF OR RE-ROOF THE EXISTING ROOF, AFTER COMPLETE TEAR-OFF
(DRAWING DEPICTS RECOVER)

NEW CONSTRUCTION OR RE-ROOF THE EXISTING ROOF, AFTER COMPLETE TEAR-OFF
(DRAWING DEPICTS NEW ROOF)



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VapAir Seal MD. USE VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.
2. FOR ADDITIONAL INFORMATION, REFER TO VERSICO THERMOPLASTIC DETAIL TPC-5.1 FOR TPO/PVC.
3. CUT EDGE SEALANT IS NOT REQUIRED ON PVC MEMBRANES.

See sheets V-0.1 to V-0.7 & Specs for additional information

MAXIMUM WARRANTY: 20 YEARS

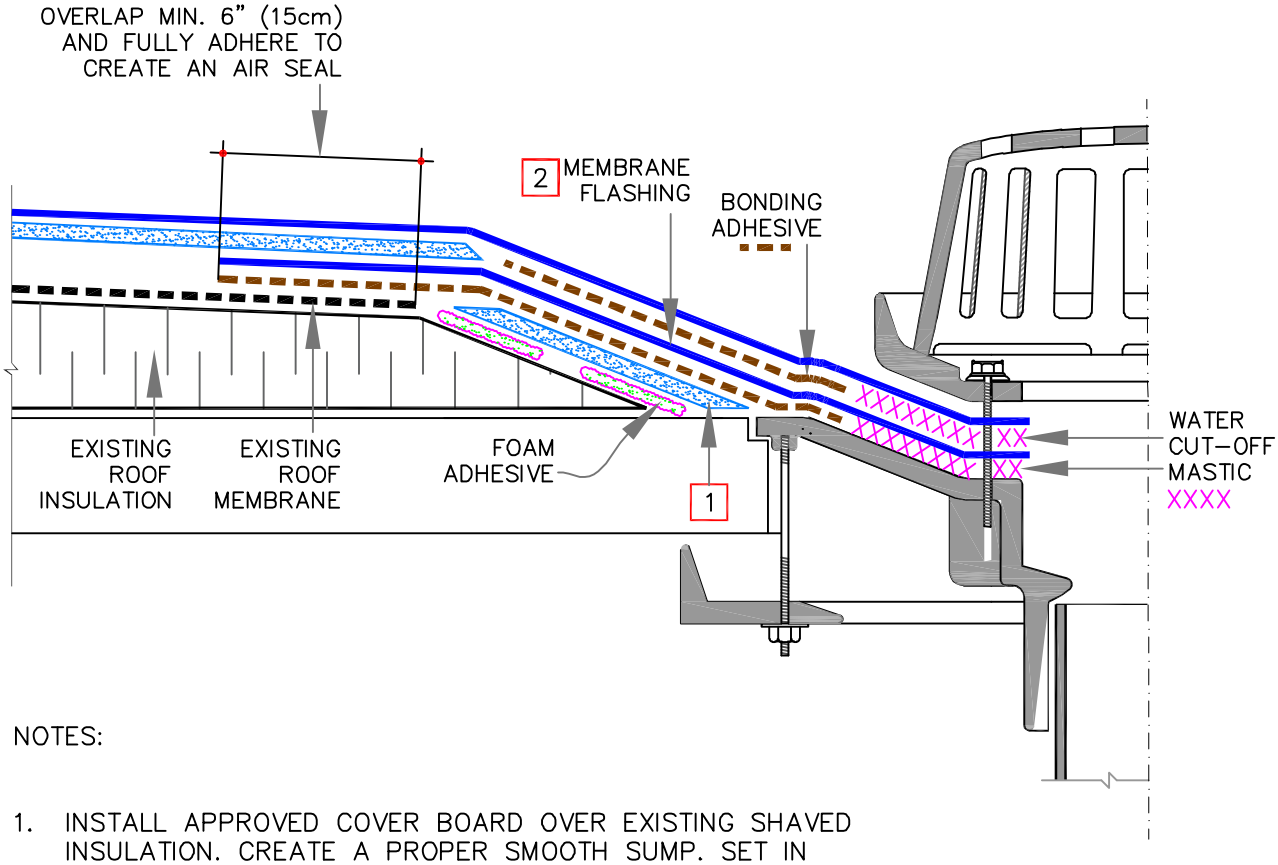
VERSICO ROOFING SYSTEMS

CURB BASE FLASHING – NEW CONSTRUCTION AND RE-ROOF (RECOVER)

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-5.2



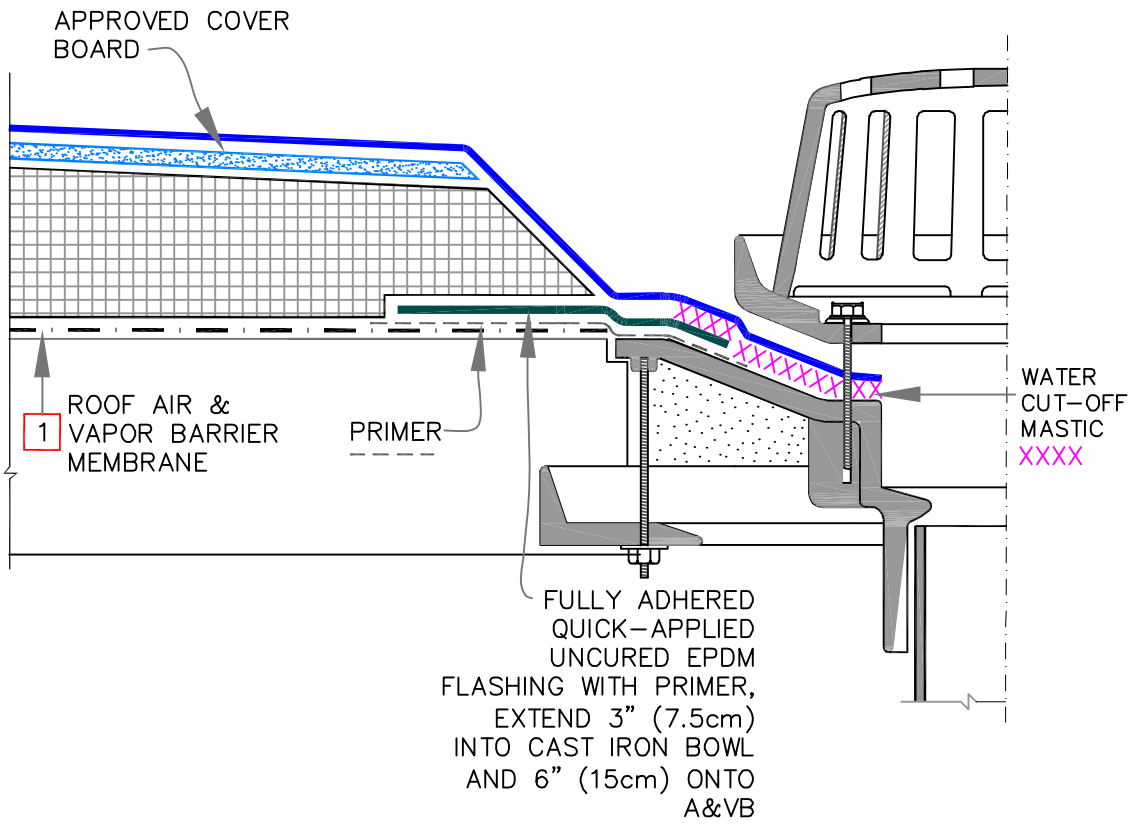
NOTES:

1. INSTALL APPROVED COVER BOARD OVER EXISTING SHAVED INSULATION. CREATE A PROPER SMOOTH SUMP. SET IN FOAM ADHESIVE.

2. FULLY ADHERE MEMBRANE FLASHING TO ACHIEVE AIRTIGHT CONDITION BETWEEN DRAIN AND EXISTING ROOF MEMBRANE. WHERE, THERE IS EXISTING ROOF VAPOR BARRIER, CUT IT BACK, IN ORDER TO PROPERLY AIR SEAL.

3. FOR ADDITIONAL INFORMATION, REFER TO VERSICO'S THERMOSET DETAIL VGC-6 FOR EPDM AND THERMOPLASTIC DETAIL TPC-6 FOR TPO/PVC.

See sheets V-0.1 to V-0.7 & Specs for additional information



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VERSICO VapAir Seal MD. USE VERSICO VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.

2. FOR ADDITIONAL INFORMATION, REFER TO VERSICO'S THERMOSET DETAIL VGC–6 FOR EPDM AND THERMOPLASTIC DETAIL TPC–6 FOR TPO/PVC.

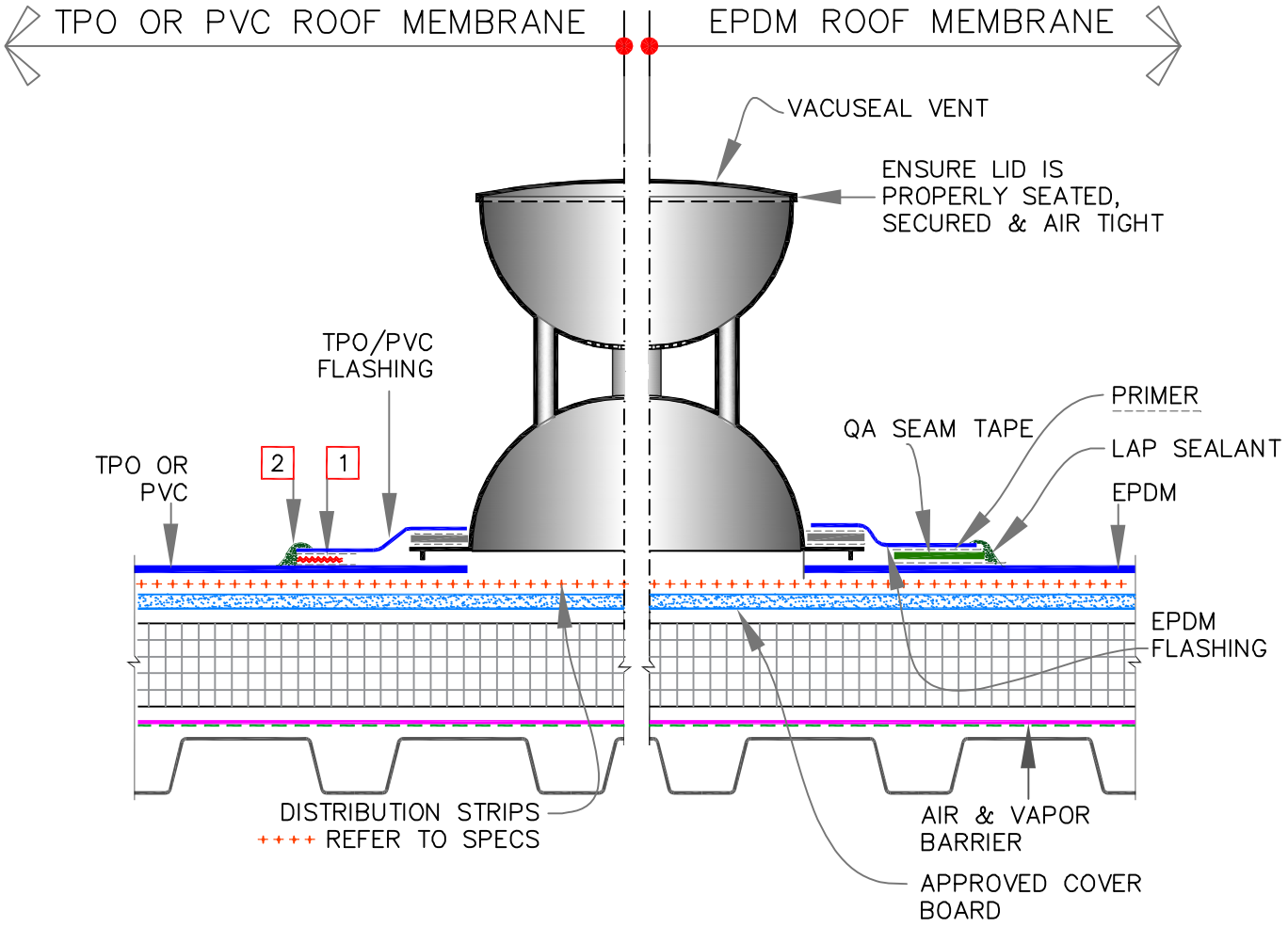
See sheets V–0.1 to V–0.7 & Specs for additional information

ROOF DRAIN: NEW CONSTRUCTION

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

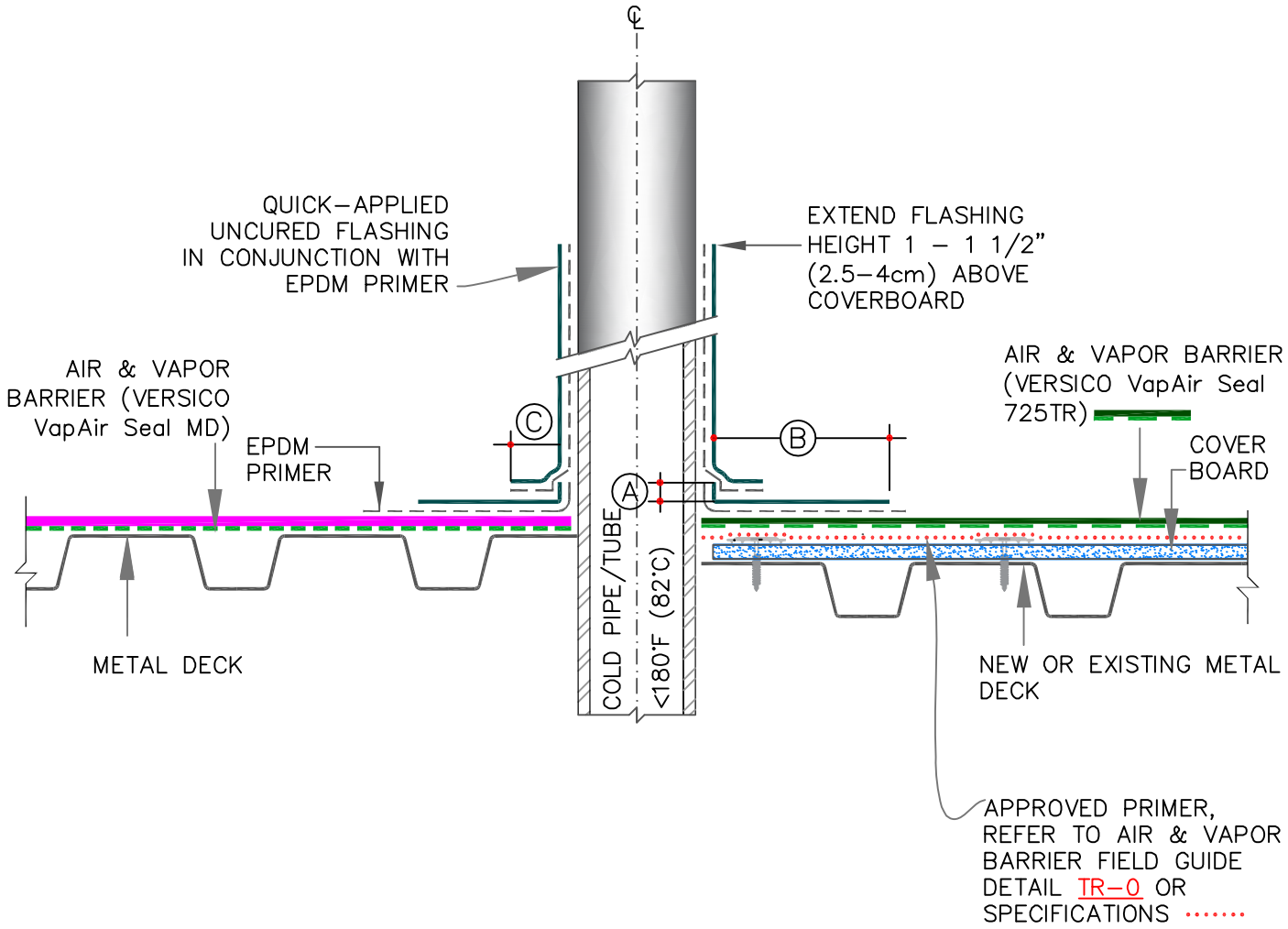
V–6.2



NOTES:

1. HOT AIR WELD, MIN. 1–1/2" (4cm).
2. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT–EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.

See sheets V–0.1 to V–0.7 & Specs for additional information



NOTE:

1. FOR ADDITIONAL INFORMATION, REFER TO VERSICO THERMOSET DETAIL VGC–8.2.

DIMENSIONS		cm	
Ⓐ	1/2"	1.5	MIN.
Ⓑ	5.5"	14	MIN.
Ⓒ	1"	2.5	MIN.

See sheets V–0.1 to V–0.7 & Specs for additional information

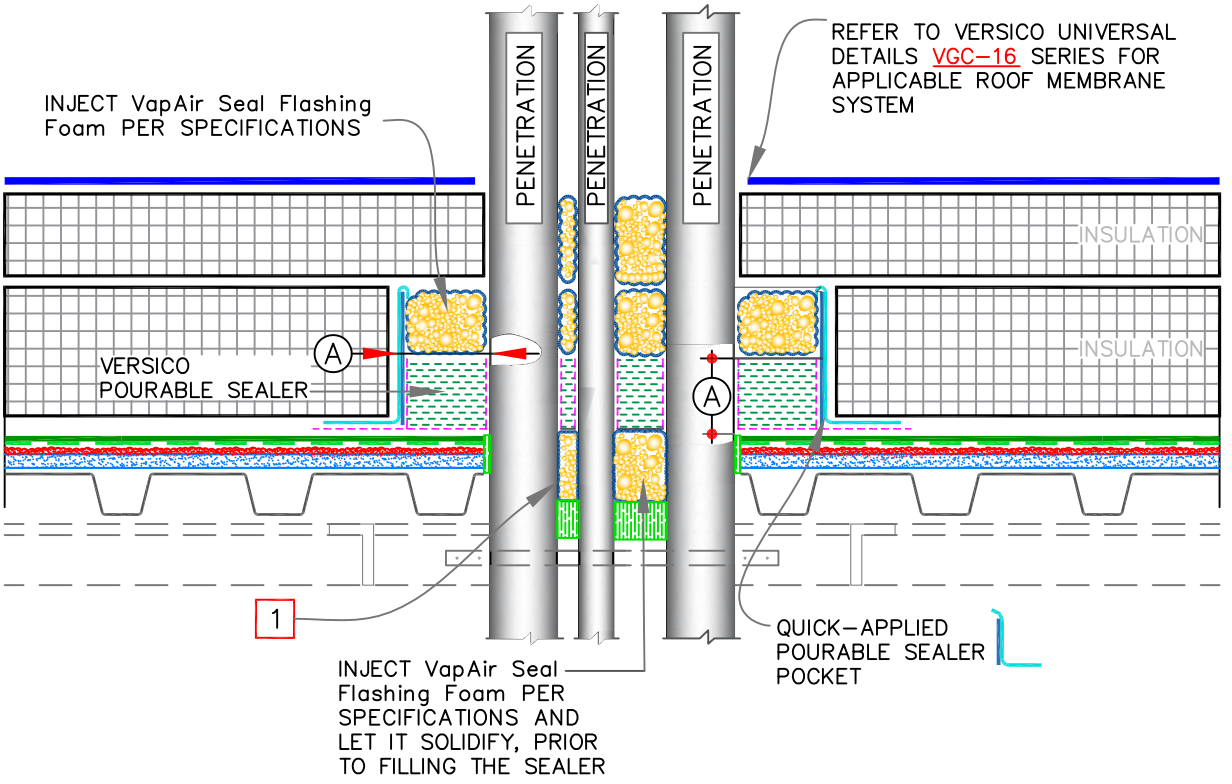
VERSICO ROOFING SYSTEMS

PIPE/STRUCTURAL STEEL TUBE THROUGH METAL DECK OPTION A

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–8.1



DIMENSIONS		cm	
A	1/2"	1.5	TO
	1"	2.5	

NOTES:

1. THE MAXIMUM ALLOWABLE SURFACE TEMPERATURE OF THE PENETRATION SHALL NOT EXCEED 180° F (82° C).
2. PENETRATIONS, AIR & VAPOR BARRIER, FLASHING AND METAL (INSIDE POCKET) MUST BE PRIMED WITH EPDM PRIMER PRIOR TO APPLYING POURABLE SEALER. DO NOT PRIME THE BLUE PLASTIC SUPPORT STRIP.
3. POURABLE SEALER MUST CONTACT PRIMED QUICK-APPLIED UNCURED EPDM FLASHING AND AIR & VAPOR BARRIER.
4. PIPE CLUSTERS MUST HAVE MINIMUM 1" (2.5cm) CLEARANCE BETWEEN PENETRATIONS.

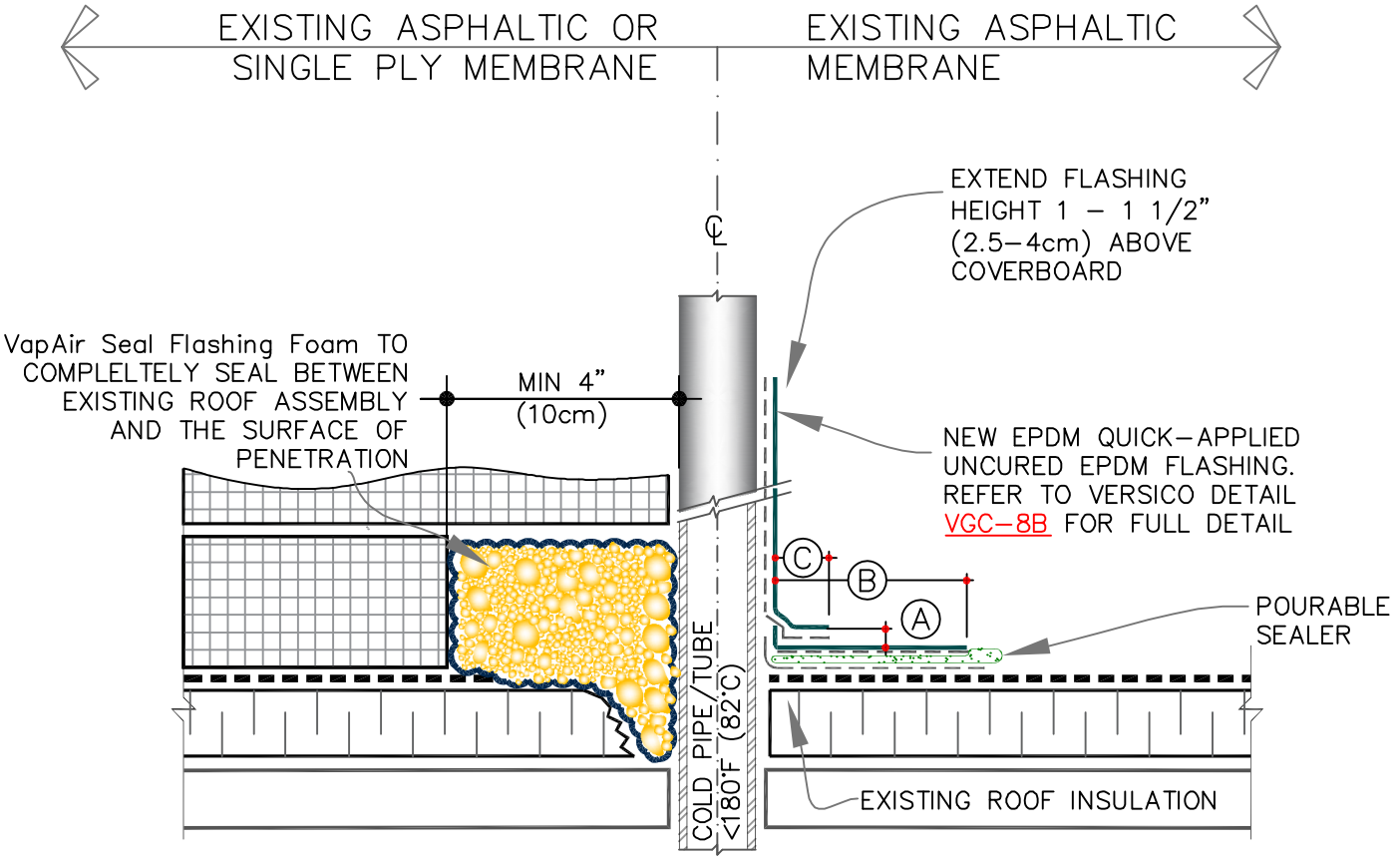
See sheets V-0.1 to V-0.7 & Specs for additional information

MULTIPLE PENETRATIONS THROUGH STEEL DECK – NEW CONSTRUCTION

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-8.2



DIMENSIONS		cm	
A	1/2"	1.5	MIN.
B	5.5"	14	MIN.
C	1"	2.5	MIN.

See sheets V–0.1 to V–0.7 & Specs for additional information

VERSICO ROOFING SYSTEMS

SINGLE PENETRATION THROUGH EXISTING ROOF ASSEMBLY

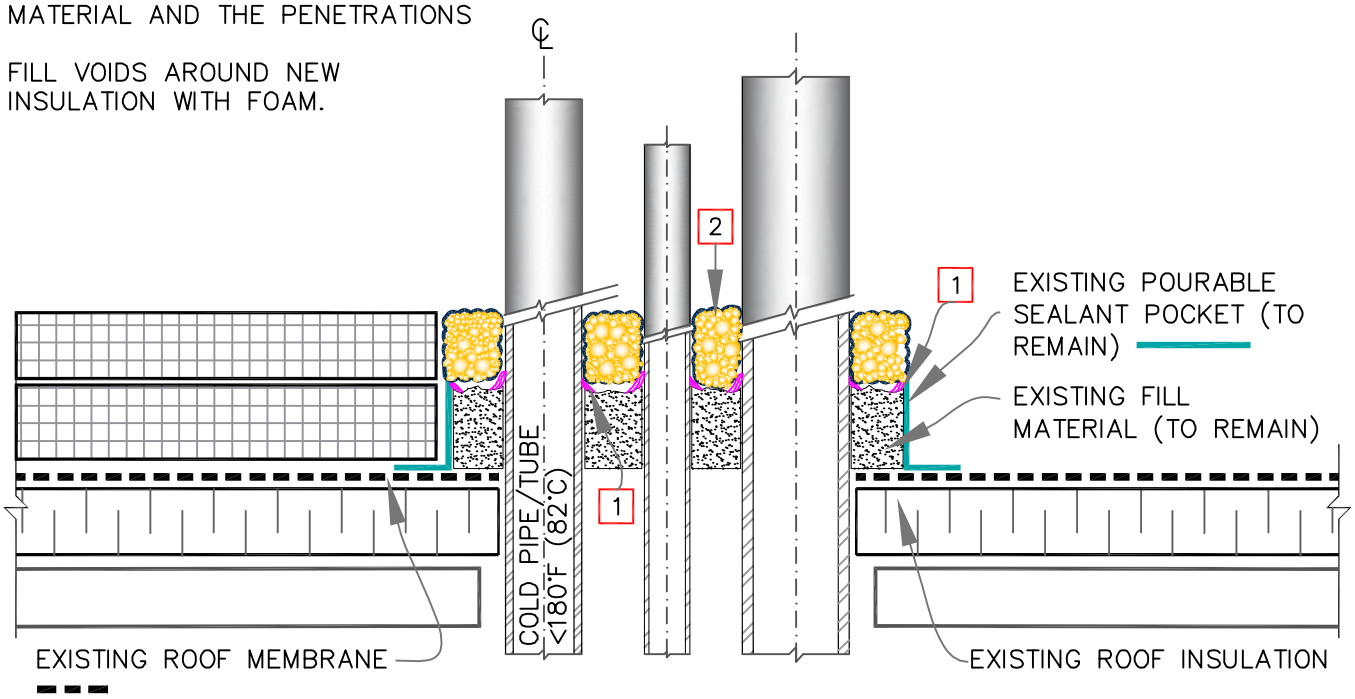
NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–8.3

NOTES:

1. APPLY NEW SEALANT AT ALL CRACKED AND BREACHED AREAS OF POURABLE SEALERS. ENSURE A PROPER BOND BETWEEN EXISTING MATERIAL AND THE PENETRATIONS
2. FILL VOIDS AROUND NEW INSULATION WITH FOAM.



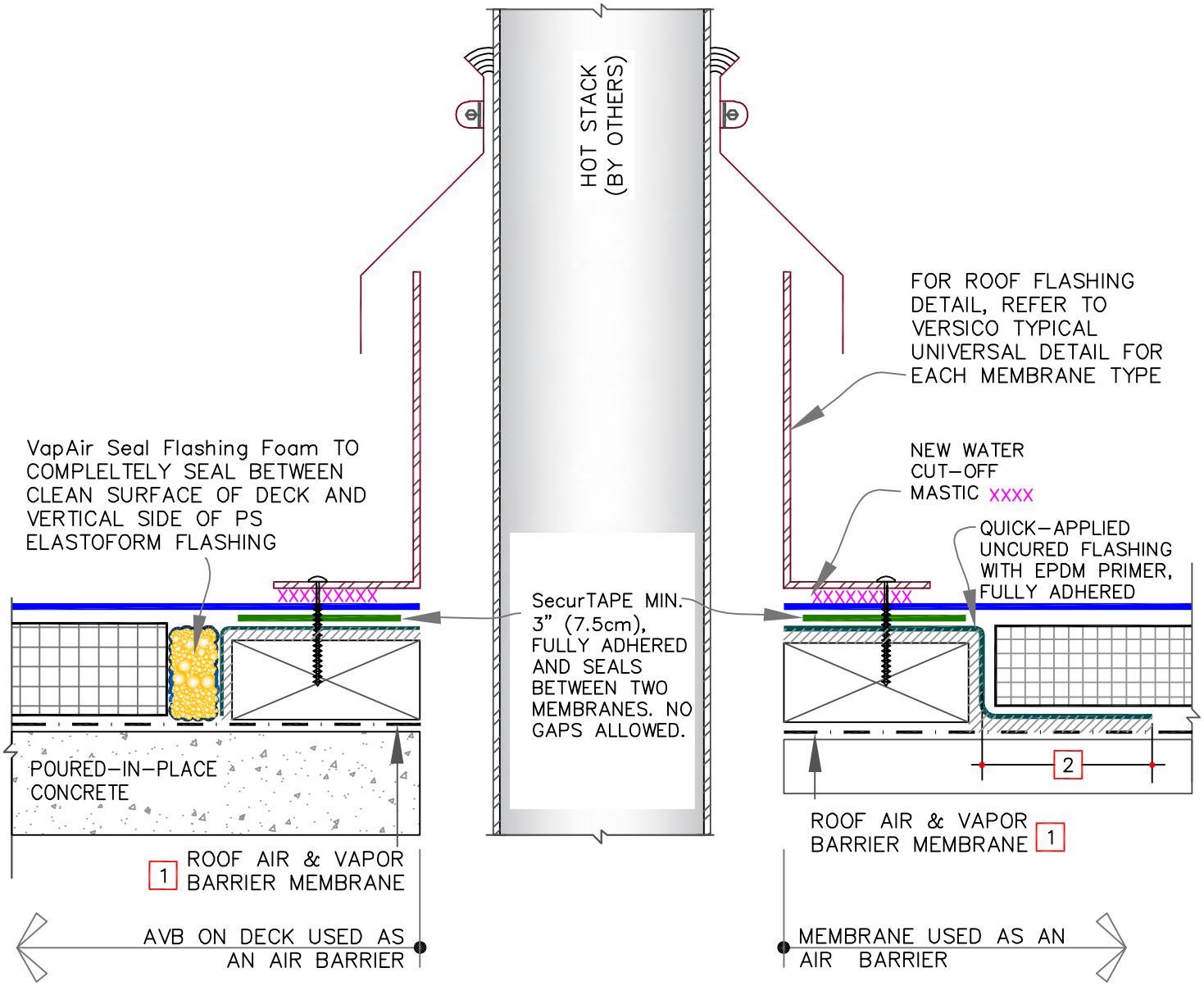
See sheets V–0.1 to V–0.7 & Specs for additional information

CLUSTER OF PENETRATIONS THROUGH EXISTING ROOF ASSEMBLY

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–8.4

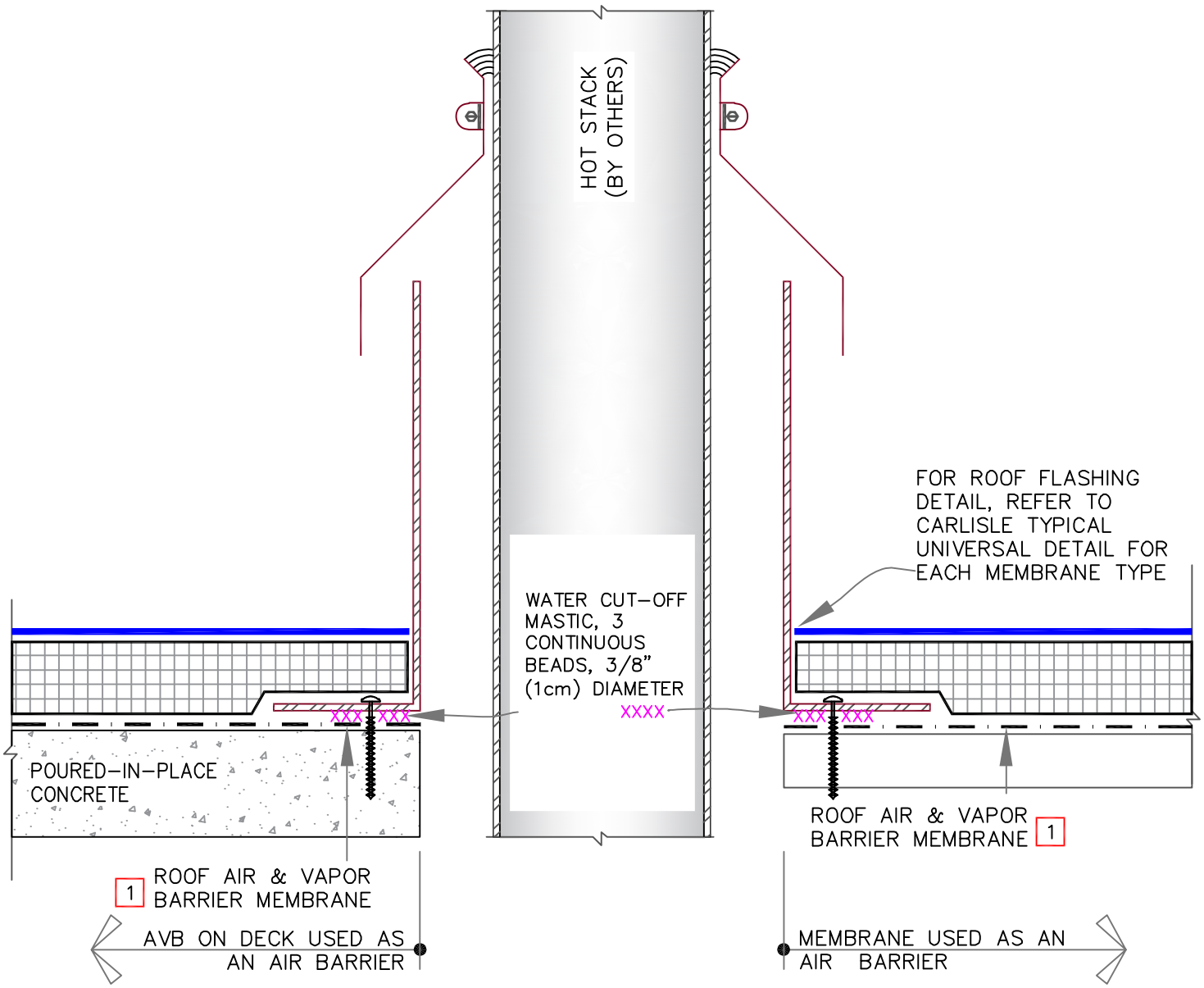


NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VapAir Seal MD. USE VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.

2. OVERLAP MIN. 6" (15cm) AND FULLY ADHERE TO CREATE AN AIR SEAL.

See sheets V-0.1 to V-0.7 & Specs for additional information



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VapAir Seal MD. USE VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.

See sheets V-0.1 to V-0.7 & Specs for additional information

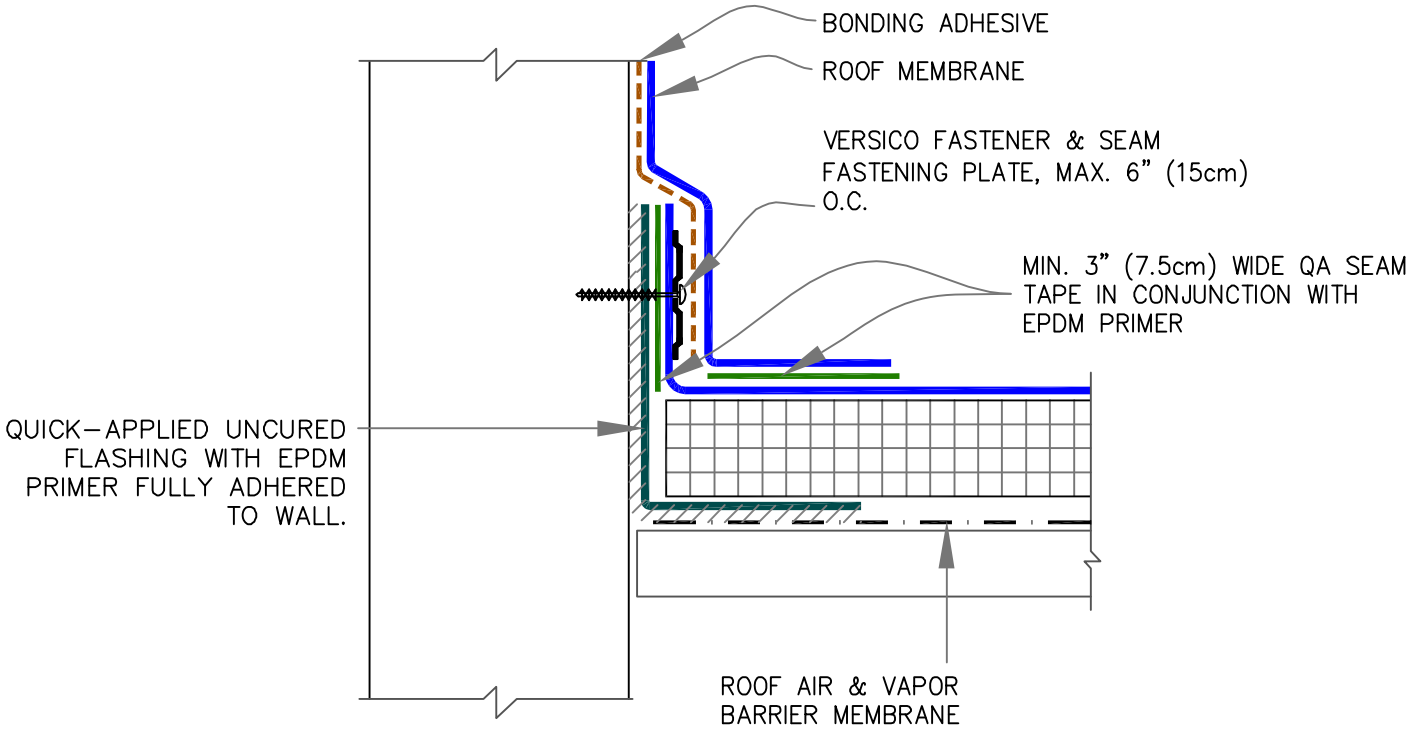
VERSICO ROOFING SYSTEMS

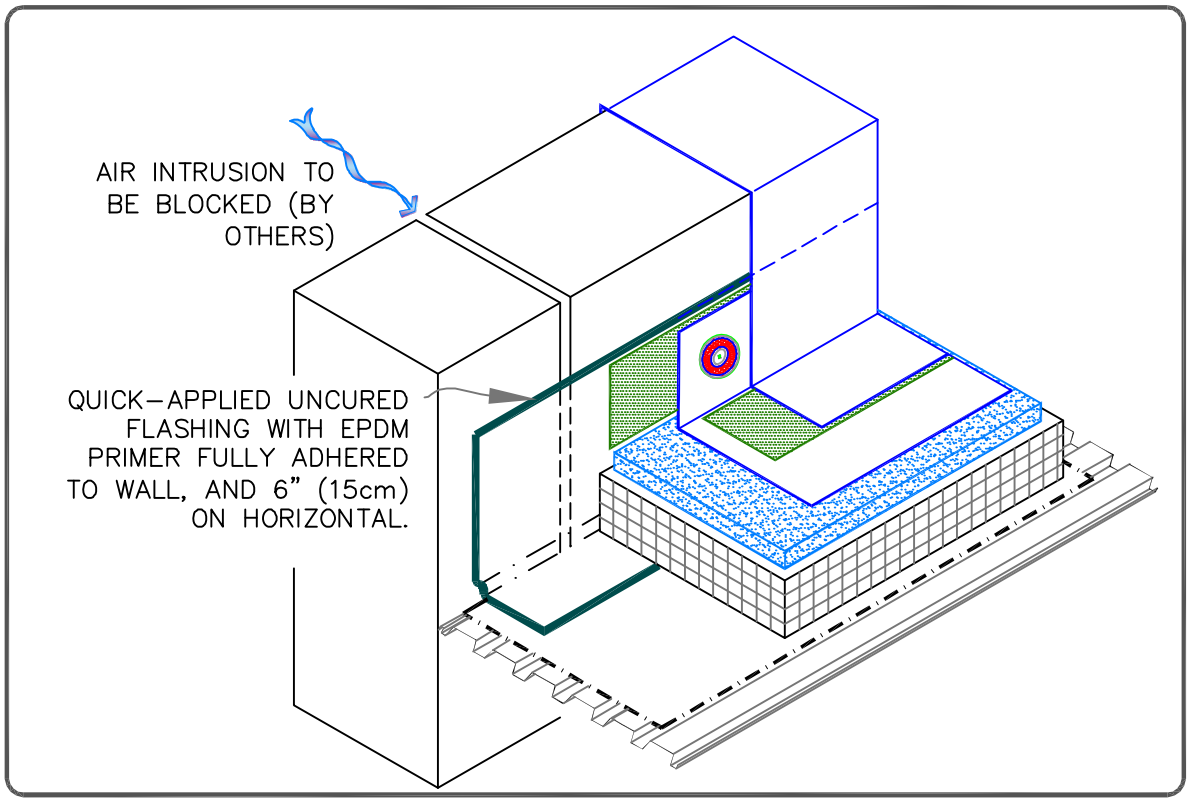
HOT STACK AIR FLASHING – OPTION B

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-8.5B





See sheets V–0.1 to V–0.7 & Specs for additional information

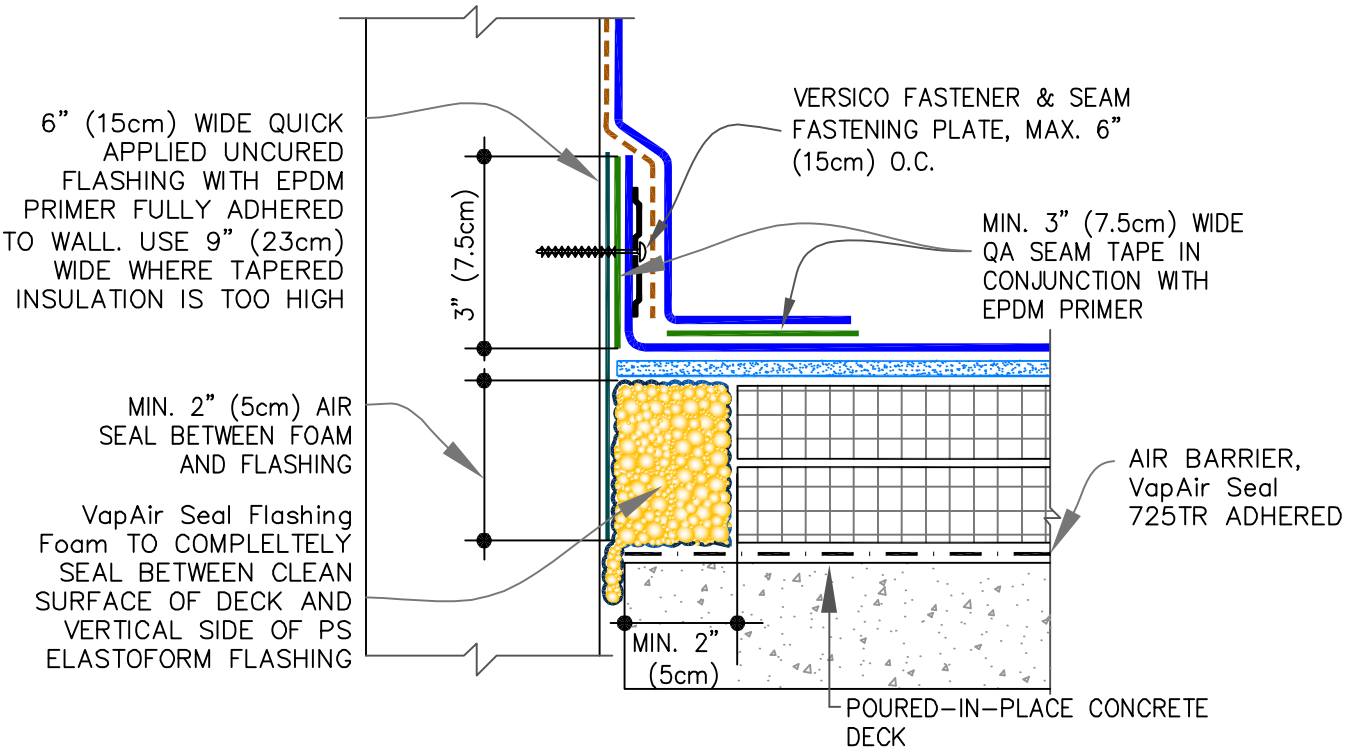
VERSICO ROOFING SYSTEMS

PARAPET WITH MEMBRANE AIR BARRIER

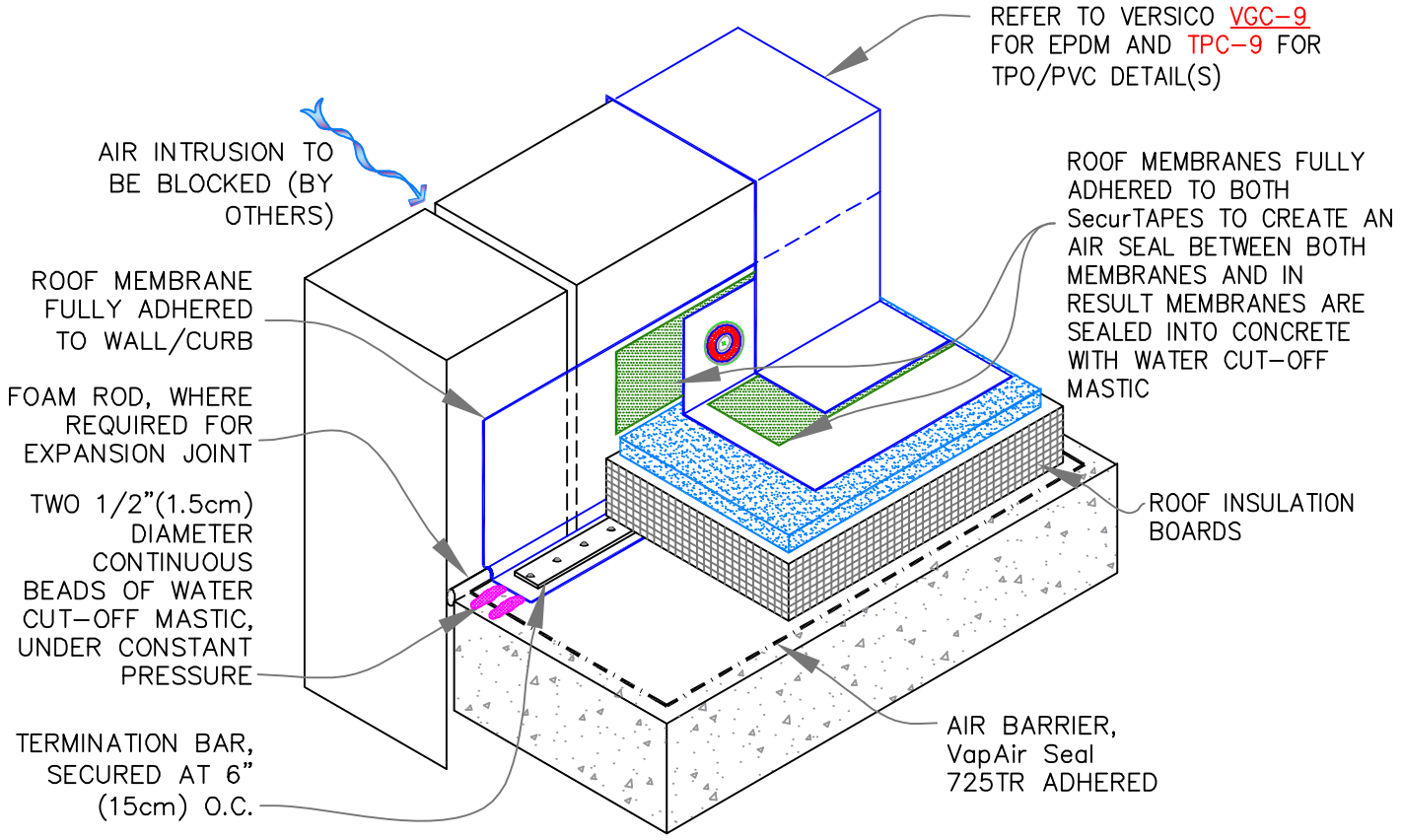
NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V–12.1



A OPTION: AIR SEALING WITH FOAM



B OPTION: AIR SEALING WITH MEMBRANE FLASHING

See sheets V-0.1 to V-0.7 & Specs for additional information

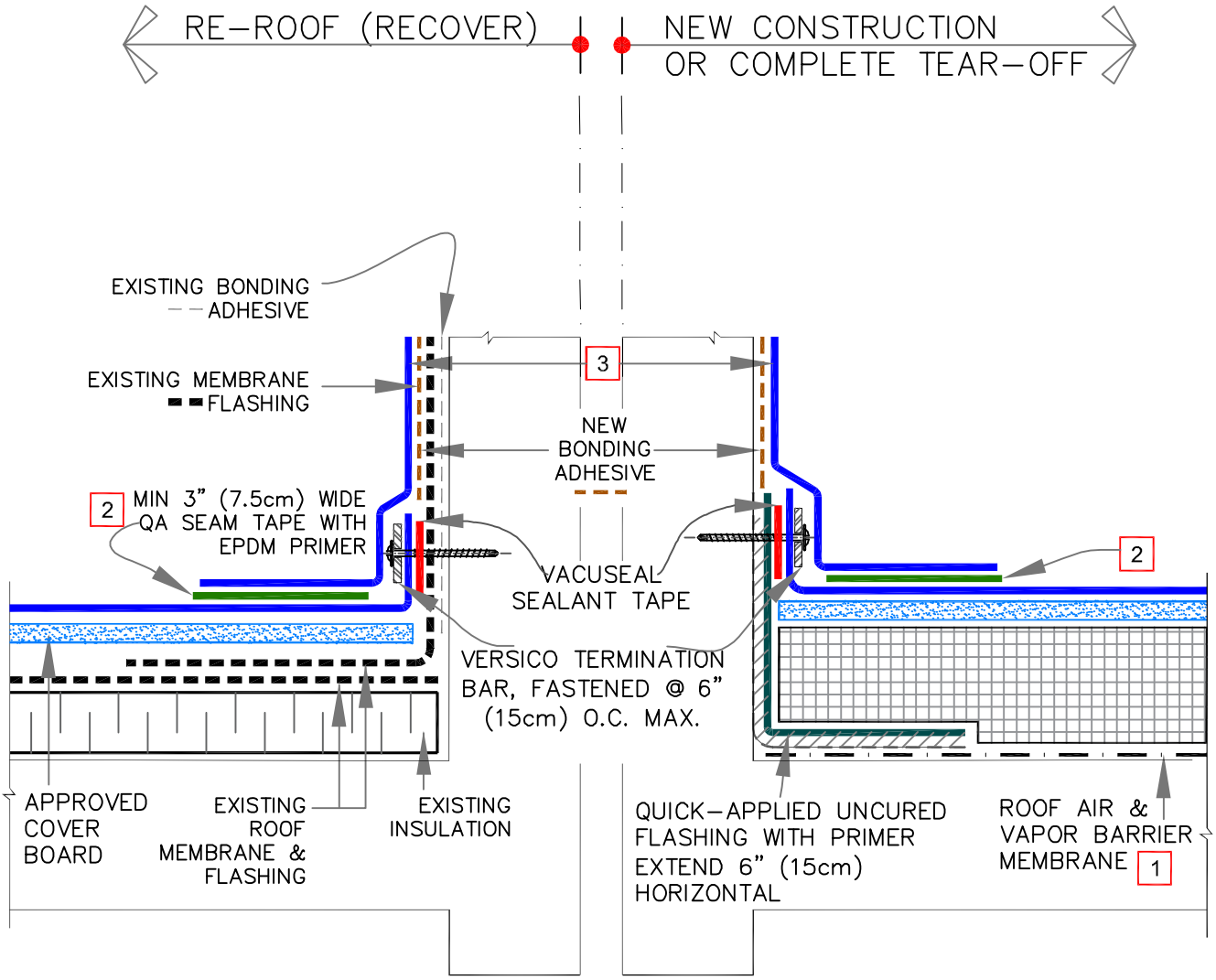
VERSICO ROOFING SYSTEMS

PARAPET / CURB: CONCRETE/LIGHTWEIGHT CONCRETE USED AS AN AIR BARRIER

NEW MEMBRANE
EXISTING MEMBRANE
INSULATION
0 SEE NOTE(S)

VENT SECURED ROOFING SYSTEM

V-12.2



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VERSICO VapAir Seal MD. USE VERSICO VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.

2. FOR ADDITIONAL INFORMATION, REFER TO VERSICO'S THERMOSET DETAIL VGC–5.1 FOR EPDM AND THERMOPLASTIC DETAIL TPC–5.1 FOR TPO/PVC.

3. SELF–ADHERING EPDM CURB WRAP MAY BE SUBSTITUTED AS FLASHING ON EPDM ROOFS.

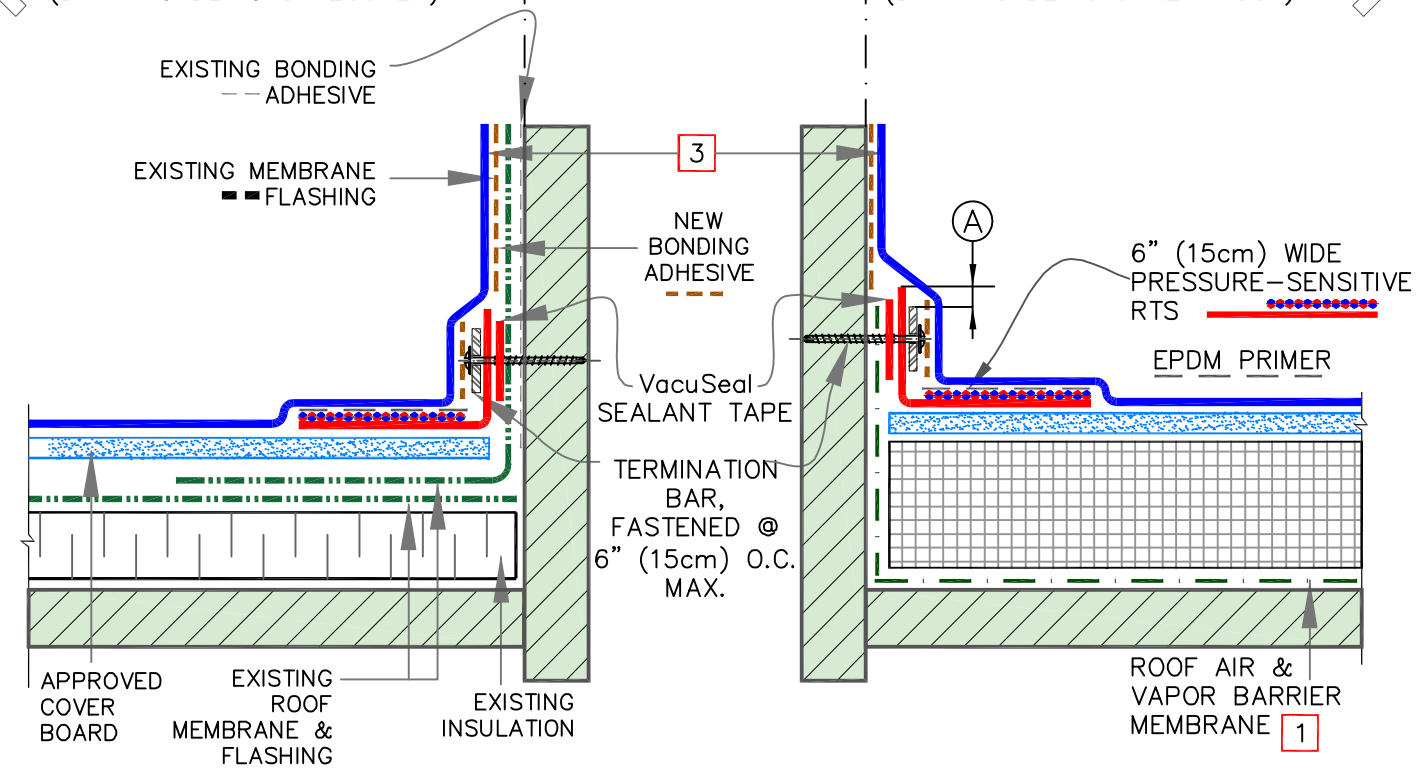
See sheets V–0.1 to V–0.7 & Specs for additional information

RECOVER EXISTING ROOF OR RE-ROOF THE EXISTING ROOF, AFTER COMPLETE TEAR-OFF

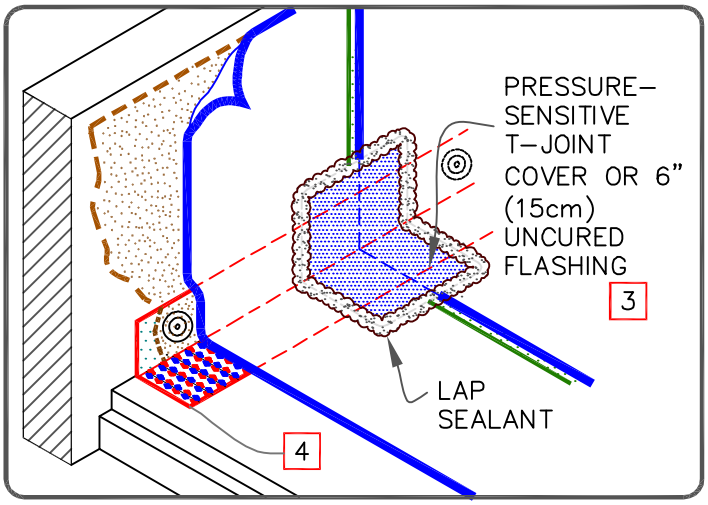
(DRAWING DEPICTS RECOVER)

NEW CONSTRUCTION OR RE-ROOF THE EXISTING ROOF, AFTER COMPLETE TEAR-OFF

(DRAWING DEPICTS NEW ROOF)



DIMENSION		cm
A	1/8"–1"	0.5–2.5



NOTES:

1. ON STEEL DECKS DIRECTLY ADHERE VapAir Seal MD. USE VapAir Seal 725TR ON CONCRETE & WOOD DECKS OR DECKS WITH APPROVED COVER BOARDS.
2. FOR ADDITIONAL INFORMATION, REFER TO VERSICO'S THERMOSET DETAIL VGC–5.1 FOR EPDM AND THERMOPLASTIC DETAIL TPC–5.1 FOR TPO/PVC.
3. SELF–ADHERING EPDM CURB WRAP MAY BE SUBSTITUED AS FLASHING ON EPDM ROOFS.

See sheets V–0.1 to V–0.7 & Specs for additional information