Henry®
A CARLISLE COMPANY

Henry® CM100

Cold Fluid Applied High Building Roofing and Waterproofing

Submittal Packet

Building Confidence®

Effective 07/20/2023 US

Supersedes all previous versions

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Henry® CM100

TECHNICAL DATA SHEET

Henry® CM100

Fast Curing, Elastomeric Cold Fluid Waterproofing/Roofing Membrane

Physical property	Typical value	Test method
Color	Brown	-
Solvent Content	0%	-
Solids Content	97%	-
Min. Application Temp	37 °F (3 °C)	-
Low Temperature Flexibility @ -13 °F(10 °C)	Pass	ASTM D4388
Service Temperature	-40 °F to 200 °F	-
Flash Point (open cup)	>450 °F (230 °C)	-
Maximum VOC	< 40 grams/liter	-
Elongation	575%	ASTM D412
Recovery	95%	ASTM D412
Shore A Hardness	Min 60	ASTM C661
Adhesion in Peel after Water Immersion	Pass	ASTM C836
Water Vapor Permeance Procedure A (Dry Cup) Procedure B (Inverted Wet Cup)	 0.05 perms (3.09 ng/Pa m^2 sec) 0.36 perms (20.6 ng/Pa m_2 sec)	ASTM E96
Hydrostatic Pressure Resistance	>0.69 MPa (100 psi)	ASTM D5385
Low Temperature Crack Bridging	Pass	ASTM C836
Flammability Wet	Non-Flammable	-

Description

Henry® CM100 is a fast curing, one component elastomeric, solvent free, moisture cure waterproofing compound designed to provide a cold technology alternative to hot applied rubberized membrane systems or replace conventional hot mop felt ply and/or pre-formed sheeting systems. It is applied in a high build two ply system or single ply application which cures through reaction with atmospheric moisture to provide a heavy-duty “seamless” rubber-like, impervious membrane.

Features and benefits

- Solvent Free
- Can be applied to green concrete 24 hours after forms are removed
- Fast curing cold applied membrane
- Very low odor
- Seamless rubberized asphalt membrane
- Excellent adhesion to most construction surfaces such as concrete, stone, wood, cement and metal
- Safe for use in confined spaces or “hard to get at” applications

Usage

Henry CM100 may be used as a waterproofing and roofing membrane on horizontal or vertical surfaces. This cold-applied technology is an ideal alternative to hot rubberized membrane applications for podium decks, plaza decks, balconies, tunnels, foundation walls, planters, green roofs and protected membrane assemblies.

Application

Refer to **Henry CM100** Guide Specifications and details for detailed application information. For ease of application, condition material to room temperature prior to application. All surfaces to be coated must be above 32 °F (0 °C). Apply material with a trowel, roller or long-handle squeegee. Squeegee applications are preferred for horizontal decks.

Henry CM100 can be applied in two types of systems. **High Build Reinforced Systems** are used for critical below grade waterproofing or roofing such as plaza decks, podiums, roof terraces, green roofs, or IRMA roof applications. **Single Coat Systems** are used for general waterproofing such as foundation walls and planter boxes.

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Revision Date: 4/20/2021

Coverage:

26 ft^2/US Gal (0.64 m^2/L) at 60 mils
13 ft^2/US Gal (0.32 m^2/L) at 120 mils

High Build Reinforced Systems: Fabric reinforced systems consist of two applications of **Henry CM100** reinforced with **Henry Polyfab Polyester Fabric.** Use **Henry Pumadeq 31MV** or **Henry 990-25** membrane where flashing sheets are required.

-**Horizontal application:** Pour **Henry CM100** on surface to be covered and spread to an even thickness using a rubber squeegee or rollers. Apply first application at minimum thickness of 60 mils (1.5 mm); embed polyester fabric immediately overlapping a minimum of 6mm (1/2") ensuring full contact. Let first coat set and then apply second coat at a minimum of 60 mils (1.5mm) thickness. Acceptable protection courses include **Henry G100s/s, 990-31, GR08** or a semi-rigid asphalt board.

-**Vertical application:** Spread **Henry CM100** to an even thickness using a trowel or roller. Apply first application at minimum thickness of 60 mils (1.5mm); embed polyester fabric or flashing sheet ensuring full contact. Bond overlaps of flashing sheet with **Henry CM100**. Let first coat set and then apply second coat at a minimum of 60 mils (1.5mm) thickness. Install protection course or drain board, when required, after **Henry CM100** fully cures.

Single Coat Systems: Single coat systems consist of one application of **Henry CM100.** Use **Henry 990-25** membrane where flashing sheets are required.

-**Horizontal application**: Pour **Henry CM100** on surface to be covered and spread to an even thickness using rubber squeegees or rollers. Apply at a minimum thickness of 120 mils and allow 24 hours to fully cure.

-**Vertical application**: Spread to an even thickness using a trowel or roller. Apply at a minimum thickness of 60 mils (1.5mm).

Note: For best results, the following should be considered when installing Henry CM100 in certain weather conditions:

Cold Weather/Low Humidity:
Spray apply a light mist of water over the surface of wet **Henry CM100** after installation to accelerate the curing process.

Hot Weather / High Humidity:
Schedule application time as temperatures are falling to minimize occurrence of blisters from substrate vapor drive. Alternatively, install **Henry CM100** in multiple coats of reduced mil thickness allowing each coat to cure before applying additional coats. A small test application is suggested prior to large-scale installation when applying **Henry CM100** in direct sunlight at temperatures above 80 °F.

Protection

Henry CM100 must be allowed to cure 24 hours prior to application of protection course. Henry CM100 should be adequately protected from construction activities and installation of overburden. Acceptable protection courses include **Henry G100s/s, 990-31, GR08**, appropriate Henry Drain Board or a semi-rigid asphalt board. Work only off boards or sheets previously placed. Contact Henry Technical Services if hot mix paving will be installed over the **Henry CM100 system.**

Shelf Life

6 months in unopened containers when stored in dry conditions.

Precautions

DO NOT THIN. Do not heat container or store at temperatures greater than 100 °F (38 °C). When transporting this product, make sure the pail is secured and the lid is tight to prevent spills.

Clean Up

Use mineral spirits for general clean-up before product cures. Use waterless hand cleaner to remove from skin.

Caution

WARNING. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Prevention: Wash thoroughly after handling. Avoid breathing mists and sprays. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs; Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

See safety data sheet for further details regarding the safe use of this product.
KEEP OUT OF REACH OF CHILDREN.

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Disposal

Dispose of contents/containers in accordance with local/regional/national/international guidelines.

Product size/packaging

5 gal pail

Storage

Store in a well-ventilated place. Store locked up.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

TECHNICAL DATA SHEET

Polyester Fabric

Reinforcement Sheet

Physical Properties

-Grab Tensile Strength (ASTM 5034)	MD: 25 lbs/in CD: 13 lbs/in	-Mullen Burst	17 psi
-Trapezoid Tear (ASTM D1117)	MD: 3.0 lbs CD: 6.0 lbs	-Thickness	8 mils
- Grab Elongation (ASTM D5035)	MD: 31% CD: 33%		

Description

Polyester Fabric is an unsaturated spun bonded polyester mat.

Features

-Will not absorb moisture or rot.
-Resists damage from soil acids and alkalis.
-Porosity allows good interply bond between layers of membrane.
-Exhibits good strength and tear resistance.

Uses

Polyester Fabric is used as reinforcement with both hot and cold applied waterproofing membranes. The mat provides tensile strength and control of thickness. When **Polyester Fabric** is used with hot applied rubberized asphalt as reinforcement, it reduces pin holing over concrete decks.

Limitations

Polyester Fabric should not be stored exposed to the elements. Store rolls on end.

Packaging

Polyester Fabric is packaged in rolls 600 ft. in length by 36" and 12" in width. Weight per roll is 12.5 lbs. for 36" wide rolls and 4.2 lbs. for 12" wide rolls.

Application

Unroll **Polyester Fabric** into waterproofing membrane immediately after application of the membrane. Overlap fabric no more than 1/4" ensuring waterproofing membrane is applied between the overlapping plies so that no dry mat-to-mat overlap exists. Ensure that mat lies flat without wrinkles by brooming if necessary. Gap between layers of fabric are acceptable if they are 1/4" or less.

Limited Warranty

We, the manufacturer, warranty only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. DISCLAIMER OF WARRANTIES: The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise. <>

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Henry Company is the parent company of Bakor Inc. Monsey Bakor is now Henry Company

TECHNICAL DATA SHEET

Pumadeq™ Flex 31MV

Cold Fluid-Applied, PUMA, Reinforced, Flashing Membrane

Physical Property	Typical Value	Test Method
Appearance	White	-
Application Temperature (Ambient)	20 ºF to 90 ºF (-6 ºC to 32 ºC), can be lower	-
Abrasion Resistance	64mg	ASTM C501-84 (2009) - C17 wheel, 1000 grams, 1000 cycles
Hardness	35, Shore D	ASTM C2240-05 (as per C836M-10)
Solids Content by Volume	100%	ASTM D1644-2001 Method A
Adhesion	> 425 psi, substrate failure	ASTM C1583/ ASTM C1583M-04
Tensile Strength	1680 psi	ASTM D638-08
Elongation	283%	ASTM D638-08
VOC Content (maximum)	0 g/l	ASTM C1250-05

Description

Henry® Pumadeq™ Flex 31MV (medium viscosity) is an elastic, viscous, waterproofing membrane based on polyurethane methyl methacrylate (PUMA) technology. Pumadeq technology combines the speed of PMMA technology in its application, with the elasticity of polyurethane technology. PUMA technology exhibits much greater elongation and flexibility than PMMA technology. **Pumadeq Flex 31MV** can be applied to vertical and horizontal surfaces as a flashing membrane.

Features

- Cures within 1 hour, including temperatures below 40 °F (4 °C)
- Abrasion, Puncture, and UV Resistant
- Superior Elasticity vs PMMA technology
- Solvent-Free
- No VOC's

Usage

Pumadeq Flex 31MV forms a waterproofing flashing membrane in the **Henry® Pumadeq System**. **Pumadeq System** applications:

- Protected Membrane Roofing
- IRMA
- Plaza Decks
- Green Roofs
- Split Slabs
- Parking Decks
- Balconies and Walkways
- Water Retention

Application

Site conditions: Provide odor control, including air fans and exhausts.
Seal air intakes ,with activated carbon filters, nearby windows and doors.
Ensure a constant supply of "fresh air", required to remove monomers (heavier than air) from the resin surface and allow for cure.

Surface preparation: All surfaces should be prepared as per the approved **Pumadeq System** specification.
The surface temperature must be at least 5 °F (-15 °C) above the dew point and rising. Use a surface dew point meter.
Air and surface temperatures must be between 20 °F (-7 °C) and 90 °F (32 °C).
For temperatures below 40 °F (4 °C) consult Henry Product Support: 800-486-1278

Any surface or previous application of the **Pumadeq membrane** must be free of dust and contaminants that would impair adhesion

of **Pumadeq Flex 31MV**. If the surface is contaminated or overcoat times between Pumadeq resins exceed 48 hours, wipe with **Pumadeq Cleaning Fluid** and clean cloths. After **Pumadeq Cleaning Fluid** evaporates (15 minutes), apply **Pumadeq Flex 31MV** within 1 hour or re-apply **Pumadeq Cleaning Fluid**.

If there are any doubts about the suitability of a substrate, further advice should be sought from Henry® Product Support and a small trial area applied and tested appropriately.

Product mixing: Prior to using **Pumadeq Flex 31MV**, it must be thoroughly mixed, using an electric, slow speed (300-400rpm), high torque drill with a clean, spiral, mixing paddle (Jiffy type, sized according to material amount mixed), to achieve a uniform distribution of the catalyst and paraffin contained in the product.

Only catalyze the amount of material that can be applied within the estimated pot life (10-15 minutes). Be aware that temperature conditions vary in areas of project and at different times of day. Adjust catalyst accordingly.
It is recommended to start by catalyzing 1 gallon of **Pumadeq Flex 31MV** to determine pot life.

1) Pre-mix **Pumadeq Flex 31MV** for minimum 1 minute
2) Then mix resin together with **Henry® Pumadeq Catalyst**, for 1 minute minimum
   A 1 volume oz. scoop is provided with each pail of catalyst
3) **Pumadeq Catalyst volume is noted below and is determined by the average of three temperatures: Pumadeq Flex 31MV temperature,** ambient temperature, and substrate temperature.
   At temperatures below 40 °F (4 °C), consult Henry® Product Support: 800-486-1278.
   40 °F (4 °C)→ add 10 volume oz. per gallon
   50 °F (10 °C)→ add 8 volume oz. per gallon
   60 °F (16 °C)→ add 6 volume oz. per gallon
   70 °F (21 °C)→ add 4 volume oz. per gallon
   80 °F (27 °C)→ add 3 volume oz. per gallon
   90 °F (32 °C)→ add 2 volume oz. per gallon

Do not mix new material with old, uncured material as this can significantly reduce work times. Use new pails frequently.

Pot life: 10-15 minutes if **Pumadeq Catalyst** mix volumes followed. The working time of all **Pumadeq System** materials will be influenced by the amount of **Pumadeq Catalyst** added, the length of time they are mixed, how quickly they are removed from the mixing pail, and the substrate and ambient temperatures. Apply onto substrate and spread to prolong working time.

Product application: For best results, use small batch sizes (start with 1 gallon). After mixing thoroughly, apply onto surface, as soon as possible. **Pumadeq Flex 31MV** is applied evenly by medium nap (1/2") roller and brush.

Do not install **Pumadeq Flex 31MV** beyond cured primer.
Extend **Pumadeq Flex 31MV** one (1) inch (2.5 cm) beyond anticipated area of fabric reinforcement.
Roll or brush fabric for proper adhesion and removal of voids, folds, and wrinkles.
Lap adjoining fabric edges a minimum of three (3) inches (7.5 cm).
Ensure voids at edges of **Henry® Pumadeq Fleece** are filled with **Pumadeq Flex 31MV.**

Application rate: Install one (1) layer of **Pumadeq Flex 31MV** at 30 sq.ft./gal.
Back coat N-Fleece with Pumadeq™ Flex 31MV before applying on vertical surfaces.
Apply second layer of **Pumadeq Flex 31MV** at 50 sq.ft./gal.
Total rate for two coats = 20 sq.ft./gal.
Allow for saturation of rollers and brushes.

Rates will change depending on surface profile (>CSP 3-4).

Thickness: Wet and dry film thickness (WFT- DFT): 80 mils

Re-coat and traffic times: Minimum 1 hour. If the surface is contaminated or overcoat times exceed 48 hours, clean with a clean cloth and **Henry® Pumadeq Cleaning Fluid**. Allow **Pumadeq Cleaning Fluid** to evaporate before over coating.
The new coating must be applied after 15 minutes minimum, 1 hour maximum of **Pumadeq Cleaning Fluid** application or it will have to be re-applied. MEK or Acetone can also be used, following the same procedures.

Product restrictions and limitations: If under catalyzed or mixing not thorough, the resin will not cure (remain sticky and smell). It must be completely removed by scrapping and wiping with **Pumadeq Cleaning Fluid.**

NOTE: Before using **Pumadeq Flex 31MV**, please refer to Safety Data Sheet (SDS). Ensure the same safe working methods are followed for all persons in the work area. Wear suitable protective clothing, butyl rubber or nitrile gloves, and safety goggles with side shields during mixing and application.

When **Pumadeq Flex 31MV** is applied in enclosed areas without natural ventilation, forced ventilation must be arranged.
Avoid strong concentration of vapor as well as direct contact with skin or eyes.
If concentration exceeds recommended limits in SDS, a NIOSH approved respirator (OSHA 29 CFR 1910.134) is required.
Pumadeq Flex 31MV has a low flashpoint; keep away from all sources of ignition and do not smoke.
Uncured polymers, resins and catalyst powder may be toxic . They may cause allergic reactions or hypersensitivity reactions.
Contact with skin – wash immediately with soap and water
Contact with eyes – rinse immediately with lots of water and seek medical attention

Coverage

Application rates should be adjusted to meet each project's specified requirements. Coverage rates are theoretical and do not take into account material loss due to project conditions and working methods.

- For Henry® System Warranty and Gold Seal Warranty requirements, refer to the appropriate approved Henry® specification for application and coverage rate requirements.

Clean-up

Clean-up of tools and equipment may be accomplished by using **Pumadeq Cleaning Fluid**, Acetone, or MEK. Read and follow all Health and Safety instructions on SDS. Wash body with soap and water. Ensure all materials are mixed and cured before disposal, in accordance with federal, state, and local regulations. Dispose of all packaging in accordance with federal, state, and local regulations.

Packaging

2.5 gallons, in metal pail
5 gallons, in metal pail

Colors

White
Gray

Shelf Life/ Storage

One year in unopened containers stored between 50 °F (10 °C) and 75° F (24 °C) under dry, ventilated conditions and out of direct sunlight. Storing the material at a higher temperature may reduce its shelf life. Keep in an upright position and do not over stack.

TECHNICAL DATA SHEET

990-25

Elastomeric Flashing Sheet Unreinforced

Physical Properties

-Colour	Black	-Tear Resistance (ASTM D624)	26 kN/m (150 lbf/in.)
-Specific Gravity	1.42	-Ozone Resistance (ASTM D1149)	No degradation
-Tensile Strength (ASTM D412) Original	210 kN/m (1200 lbf/in.)	-Water Vapour Transmission (ASTM E96)	per 1.2 mm (0.047 in.) 0.6 ng/Pa.m².s (0.01 perms)
After 7 days @ 116 C (240°F)	140 kN/m (800 lbf/in.)	-Shore Hardness (ASTM D2240)	70 ± 4 pts.
-Elongation (ASTM D412) Original	500%		
After 7 days @ 116°C (240°F)	400%		

Description

990-25 Elastomeric Flashing Sheet is a flexible flashing membrane composed of combination of butyl and EPDM polymers. Compatible with asphalt roofing and waterproofing materials.

Features

- Adheres to roofing and waterproofing asphalts
- Flexible; easy to use
- Elongates to take joint movement
- Strong; high tensile and tear strength
- Excellent exposure capability

Uses

Used in expansion joints and flashing details for hot rubberized asphalt, resaturants and can be used with hot built-up roofing asphalt.

Limitations

Do not expose to petroleum solvents or solvent based roofing products not recommended by **Henry Canada**.

Application

Set **990-25 Elastomeric Flashing Sheet** into hot applied membrane. **790-11**, **SEBS 890-12** and standard roofing asphalts are acceptable hot applied systems. For cold process systems use **880-11**. Adhesion is enhanced when **990-25** is cleaned with solvents. Alternatively, prime **990-25** using **Bakor 910-01** or **930-18** to improve adhesion. Allow primer to dry.

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REV: 02/09/09

TECHNICAL DATA SHEET

Henry® 925 BES Sealant

Building Envelope Systems® Sealant

Physical Property	Typical Value	Test Method
Color	Black, Gray, White	-
Application Temperature (see Limitations)	10 ºF to 110 ºF (0 ºC to 43 ºC)	-
Service Temperature, cured	-40 ºF to 180 ºF (-40 ºC to 82 ºC)	-
Durometer Hardness	25 ±5 Shore A	ASTM D2240
Density	13 lbs/gal	-
Elongation, max	450-550%	ASTM D412
Dry Time	Initial Set: 60-90 min at 77 ºF (25 ºC) Set Through: 24 hours	-
Tensile Strength	150-200 psi	ASTM D412
Modulus	40-50% psi	-
VOC Content, max	5 g/L	EPA Method 24

Approvals and Certifications

- Meets ASTM C719 ± 35%
- Meets Fed Spec TT-S-00230C, Type II, Class A
- Meets ASTM C920 Type S, Grade NS, Class 35
- Granted SWR Institute Certificate of Validation

Description

Henry® 925 BES Sealant is a premium, moisture cure sealant for construction joints subject to dynamic joint movement. This one-part, low odor, moisture cure product provides excellent weathering resistance, flexibility, very low VOC, through use of a silyl-terminated polyether (STPE) polymer. Upon curing, it is paintable with latex based paints. This product is fully compatible with Henry® air barrier, flashing, roofing and waterproofing systems.

Usage

- Building envelope sealant for self-adhered air barriers
- External joint sealant for Henry® air barrier, waterproofing and roofing systems
- Alternative to silicone and moisture cure urethanes in above-grade construction applications
- Construction joints up to 1” (25 mm) width, subject to dynamic joint movement of ± 35%

Application

Surface Prep: Joints must be sound, smooth, uniform and free from defects and foreign materials. Joints must also be clean, dry, free of frost and all contaminants, such as curing compounds, sealers, or coatings. Sealant adhesion should be tested on each different substrate prior to use by applying a bead allowing to cure thoroughly. To test adhesive strength, pull one end of the bead.

Apply: Cut nozzle to desired bead size; puncture inner seal. Apply at a 45° angle while pushing sealant ahead of nozzle. The width of the joint should be a minimum of 4 times the anticipated movement. In joints up to ½” (13 mm) wide, the depth of the sealant should be equal to the width, but not less than ¼” (6 mm). In joints wider than ½” (13 mm), the depth should be maintained at ½” (13 mm). Maximum joint width for installation is 1” (25 mm). In vertical and horizontal joints, tooling is necessary to aid contact with the substrate and eliminate air bubbles.

Limitations: **Henry 925 BES Sealant** may be installed when substrate and air temperatures are as low as 10 °F. Application in temperatures between 10°F and 32°F may proceed only if the substrate is free of frost or ice. The product should not be applied in the rain or on wet surfaces; damp surfaces are acceptable.

If frost or ice is present on the substrate, it must be warmed to a temperature above 32 °F using hot air gun, heater, etc. to melt the frozen moisture. When installed in temperatures below 32 °F, an extended curing time is expected.

Prior to cold weather installation, **Henry 925 BES Sealant** should be stored at room temperatures above 35 °F for a minimum of 24 hours, to improve application and tooling.

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Clean-up

Clean hands and equipment with biodegradable terpene solvent such as citrus-based hand cleaner.

Packaging

10.3 oz cartridge
20 oz sausage
2 gallon bucket

Storage

Henry 925 BES Sealant has a shelf life of 12 months from date of manufacture when stored in original unopened container at or below
80 °F (27 °C). Containers should always be kept sealed when not in use.

TECHNICAL DATA SHEET

HE974

Protection Fabric – GR08

Typical Physical Properties

-Apparent Opening Size (AOS)	80 US Sieve (ASTM D4751)	-Trapezoid Tear	85 lbs. (ASTM D4533)
-Grab Tensile	205 lbs. (ASTM D4632)	-UV Resistance	70% @ 500 hrs. (ASTM D4355)
-Permittivity	1.35 sec^{-1} (ASTM D4491)	-Water Flow Rate	90 gpm/ft² (ASTM D4491)
-CBR Puncture	535 lbs. (ASTM D6241)	-Weight (Typical)	8.0 oz/yd² (ASTM D5261)
-Grab Elongation	50% (ASTM D4632)		

Packaging

4 ft. x 300 ft. roll

Description

HE974 Protection Fabric – GR08 is a non-woven geotextile fabric made up of polypropylene fibers. It is non-biodegradable and resistant to most soil chemicals, acids and alkali with a pH range of 3 to 12.

Used as a protection course and/or separation sheet in a **Henry CM100** waterproofing system.

Features

- Non-biodegradable
- Resistant to most soil chemicals, acids and alkali
- Good tear resistance
- High permeability separation sheet

Precautions

If **HE974 Protection Fabric – GR08** is loose laid over **Henry CM100** or insulation, temporary ballasting is recommended prior to the installation of subsequent permanent covering materials.

Limited Warranty

Many factors beyond our control affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate. We, the manufacturer, warrant only that we will replace, at no charge, any product proved to have a material defect in original manufacturing within 12 months of purchase, provided the product has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF CONDITIONS/WARRANTIES AND LIMITATION OF LIABILITY:** THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER CONDITIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS, ANY DELAYS CAUSED BY REPLACEMENT, OR OTHERWISE BEYOND PRODUCT REPLACEMENT. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN ALL UNOPENED CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND WITHIN 30-DAYS OF PURCHASE. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY, FROM ANYONE, FOR ANYTHING RELATING TO THE PRODUCT. To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied conditions or warranties is limited to the duration of Henry's express warranty.

REVISION: 06/19/17

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STATEMENT OF RESPONSIBILITY

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

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www.henry.com

TECHNICAL DATA SHEET

G100s/s

Base Sheet/Protection Sheet

Physical Properties

-Thickness	0.080 inches (2.0 mm) ± 10%
-Tensile Strength @ 0ºF	
Machine Direction	135 lbf/inch
Cross Machine Direction	117 lbf/inch
-Elongation @ 0ºF	
Machine Direction	4%
Cross Machine Direction	4%
-Tensile Tear	
Machine Direction	80 lbf/inch
Cross Machine Direction	75 lbf/inch
-Low Temperature Flexibility	
Machine Direction	0ºF
Cross Machine Direction	0ºF
-Dimensional Stability	
Machine Stability	<0.1%
Cross Machine Stability	<0.1%
-Top Surface	Sanded
-Bottom Surface	Sanded

-Thickness	2.0 mm (80 mils)
-Roll Length	49.2'
-Roll Width	39 3/8"
-Gross Coverage	161.4 ft²
-Net Coverage	147.8 ft²

Manufactured and Tested in accordance with ASTM D5147: Standard Test Method for Sampling and Testing of Modified Bitumen Roofing Membranes and/or Manufactured to meet ASTM D6163, Type I, Grade S.

Uses

Henry *modified***PLUS**® **G100s/s Base Sheet** is designed for use as the base or first ply in a high performance two-ply modified bitumen flashings, or as the protection/separator sheet in **Henry** green roof or protected membrane systems.

Features

-Designed for application in new construction, re-roofing and retrofit roofing.
-SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability.
-Glass reinforcement provides stability and durability.
-Bonds well to hot or cold rubberized asphalts.
-Easy to handle rolls.

Limitations

Non-resistant to oils and solvents. Refer to manufacturer for specific chemical resistance. Not designed for permanent exposure. Install *modified***PLUS**® granule surfaced cap sheet over base sheet for permanent exposure.

Storage

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 120°F.

Henry Company 909 N. Sepulveda, Ste 650, El Segundo CA 90245-2754
Technical Services- Phone (800) 486-1278 – Email: techservices@henry.com
www.henry.com

Surface Preparation

Refer to *790-11 or Green Roof Guide Specifications* for acceptable substrates.

Protection/Separation Sheet: Place **Henry** *modified***PLUS**® **G100s/s** sheet while **790-11** hot applied rubberized asphalt is still warm. Begin at lowest point or drain. Overlap sheet a minimum 2" on side and 3" on end laps, and broom into place.

Limited Warranty

We, the manufacturer, warranty only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. DISCLAIMER OF WARRANTIES: The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.
<>

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TECHNICAL DATA SHEET

990-31

Polypropylene Protection Board

Physical Properties

-Colour	Black	-Tensile Strength	
-Thickness	2 mm	Yield Point	32 kg/cm^2
-Sheet Size	914 mm x 1220 mm	Point of Failure	242 kg/cm^2
-Weight	0.45 kg/m2	Elongation	167%
-Operating Temp	110°C maximum	-Compression Strength (Flat Crush ASTM D695)	0.54 kg/cm^2
		-Impact Strength	
		At 28C	9.5 kg/cm
		At 0C	8.9 kg/cm
		At Minus 20°C	6.8 kg/cm

Description

Bakor 990-31 Protection Board is a continuously extruded flexible twin wall board made of polypropylene copolymer. **990-31 Protection Board** provides protection for all types of waterproofing membranes.

Features

- Easy to handle
- Lightweight provides maximum labor savings
- No special tools required
- Can be cut easily or folded
- Compatible with either hot or cold applied waterproofing membranes

Uses

Protection of waterproofing membranes against possible damage during backfilling on a wide variety of applications such as foundation walls, roof decks, terraces, planters, promenades, etc. Its lightweight feature makes **990-31** ideal to use on vertical applications.

Application

Bakor 990-31 Protection Board is laid directly on the waterproofing membrane as soon as the membrane has set. **990-31 Protection Board** must be adhered with **230-21 Rigid Insulation Adhesive** unless the board is placed directly in contact with warm and tacky **790-11 Hot Applied Rubberized Asphalt**.

Limitations

Not recommended for use where asphalt paving traffic surfaces will be installed directly over protection board or for permanent exposure.

< >

Henry Company Canada, 15 Wallsend Drive, Scarborough, ON M1E 3X6
Tel: 800-486-1278 **Email:** techservices@henry.com

www.bakor.com

REV: 02/09/09

SAFETY DATA SHEET

Issue Date 16-Jun-2015 **Revision Date** 16-Jun-2015 **Version** 1

1. IDENTIFICATION

Product identifier
Product Name CM-100

Other means of identification
Product Code HE78060
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Sealant.
Uses advised against No information available

Details of the supplier of the safety data sheet
Manufacturer Address
HENRY COMPANY
999 N. Sepulveda Blvd., Suite 800
El Segundo, CA 90245-2716
Company Contact: Technical Services
Telephone Number: 800-486-1278
Web Site: www.henry.com www.ca.henry.com

Emergency telephone number
Emergency Telephone CHEMTREC: 800-424-9300
CHEMTREC: 703-527-3887
CANUTEC: 613-966-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapors)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration toxicity	Not classified

Label elements

Emergency Overview

Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Appearance viscous **Physical state** liquid **Odor** Slight

Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Wash hands thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
IARC has classified occupational exposure to straight-run bitumen and their emissions during road paving as a carcinogen (category 2B - possibly carcinogenic to humans).

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%	Trade Secret
Calcium Carbonate	1317-65-3	30 - 60	*
Silyl-terminated Polyether	Proprietary	10 - 30	*
Petroleum Asphalt	8052-42-4	10 - 30	*
Synthetic Polymer Blend	Proprietary	7 - 13	*
Silica, Amorphous	112926-00-8	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Petroleum Asphalt 8052-42-4	TWA: 0.5 mg/m³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m³ fume 15 min
Silica, Amorphous 112926-00-8	-	(vacated) TWA: 6 mg/m³ TWA: 20 mppcf : (80)/(% SiO2) mg/m³ TWA	-

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid
Appearance viscous
Color black
Odor Slight
Odor threshold No information available

Property	Values	Remarks • Method
pH	6-11	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 100 °C / 212 °F	
Flash point	> 100 °C / > 212 °F	
Evaporation rate	0	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	0 kPa at 25C	
Vapor density	No information available	
Relative density	1.30-1.35	
Water solubility	insoluble	

Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	>50,000 cSt @ 25C
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to avoid
Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.
Incompatible materials
Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO2). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation May cause irritation.

Eye contact Severely irritating to eyes.

Skin contact Irritating to skin.

Ingestion No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum Asphalt	-	Group 2B	-	X

8052-42-4				
Silica, Amorphous 112926-00-8	-	Group 3	-	-

Reproductive toxicity No information available.
STOT - single exposure Target Organs. Respiratory system.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

ATEmix (oral) 8,000.00 mg/kg
ATEmix (dermal) 8,000.00 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-dust/mist) 20.00 mg/kg
ATEmix (inhalation-vapor) 99,999.00 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability
No information available.

Bioaccumulation
Bioaccumulative potential.

Chemical Name	Partition coefficient
Petroleum Asphalt 8052-42-4	6

Other adverse effects No information available
Ozone Not applicable

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product contains chemicals known to the state of California to cause cancer.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health hazards** 1	**Flammability** 1	**Instability** 0	**Physical and Chemical Properties** -
HMIS	**Health hazards** 1	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

Issue Date 16-Jun-2015

Revision Date 16-Jun-2015

Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

CM-100
by Henry Company

CLASSIFICATION: 07 27 26.00

PRODUCT DESCRIPTION: CM-100 IS A FAST CURING, ONE COMPONENT ELASTOMERIC, SOLVENT FREE, MOISTURE CURE WATERPROOFING COMPOUND DESIGNED TO PROVIDE A SEAMLESS WATERPROOFING MEMBRANE OR A COLD ALTERNATIVE TO HOT APPLIED RUBBERIZED MEMBRANE SYSTEMS IT IS APPLIED IN A HIGH BUILD TWO-PLY SYSTEM OR SINGLE PLY APPLICATION, WHICH CURES THROUGH REACTION WITH AIRBORNE MOISTURE TO PROVIDE A HEAVY DUTY "SEAMLESS" RUBBER-LIKE, IMPERVIOUS MEMBRANE.

Health Product Declaration v2.0

created via: HPDC Online Builder

Section 1: Summary

CONTENT INVENTORY

Threshold per material
- (●) 100 ppm
- ( ) 1,000 ppm
- ( ) Per GHS SDS
- ( ) Per OSHA MSDS
- ( ) Other

Residuals and impurities considered in 1 of 1 materials
- (●) see Section 2: Material Notes
- (●) see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized..... Are the Percent Weight and Role provided for all substances?	(●) Yes	( ) No
Screened..... Are all substances screened using Priority Hazard Lists with results disclosed?	(●) Yes	( ) No
Identified..... Are all substances disclosed by Name (Specific or Generic) and Identifier?	(●) Yes	( ) No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | **SUBSTANCE** | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE

CM100 [LIMESTONE; CALCIUM CARBONATE LT-UNK SILYL-TERMINATED POLYETHER UNK ASPHALT LT-1 | CAN NAPHTHA (PETROLEUM), LIGHT STEAM-CRACKED, DEBENZENIZED, POLYMERS, HYDROGENATED LT-UNK SILICA GEL LT-UNK *QUARTZ* LT-1 | CAN *SULFUR* LT-UNK | SKI]

Number of Greenscreen BM-4/BM3 contents..... 0

Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1

Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 Regulatory (g/l):

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

(●) Self-Published*	VERIFIER:	SCREENING DATE: January 22, 2017	EXPIRY DATE*: January 22, 2020
( ) Third Party Verified	VERIFICATION #:	RELEASE DATE: January 22, 2017	* or within 3 months of significant change in product contents

See HPDC website for details

Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

CM100 **%: 100.0000 - 100.0000** **HPD URL:**

Inventory Threshold: 100 ppm

Residuals Considered: Yes

Material Notes:

LIMESTONE; CALCIUM CARBONATE ID: 1317-65-3

%: 30.0000 - 40.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Filler/film strengthener

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

SILYL-TERMINATED POLYETHER ID: 205265-06-1

%: 20.0000 - 25.0000	GS: UNK	RC: None	NANO: NO	ROLE: Polymer

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ASPHALT ID: 8052-42-4

%: 15.0000 - 20.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Waterproofing

HAZARDS:		AGENCY(IES) WITH WARNINGS:
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: IARC classifies asphalt as a carcinogen when used in road paving applications. This product is not used in this application.

NAPHTHA (PETROLEUM), LIGHT STEAM-CRACKED, DEBENZENIZED, POLYMERS, HYDROGENATED ID: 68132-00-3

%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Adhesion

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

SILICA GEL ID: 112926-00-8

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Thixotrope

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

QUARTZ ID: 14808-60-7

%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1: Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES:

SULFUR ID: 7704-34-9

%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: NO	ROLE: Impurity/Residual

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin

SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

Section 5: General Notes

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

ADDRESS: 999 N. Sepulveda Blvd.
Suite 800
El Segundo, CA 90245
USA

WEBSITE: www.henry.com

CONTACT NAME: Whitney Randall

TITLE: Director, Regulatory Compliance Systems

PHONE: 484-557-1247

EMAIL: wrandall@henry.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspeci ed (insu cient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
UNK Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other

Nano Composed of nanoscale particles or nanotechnology

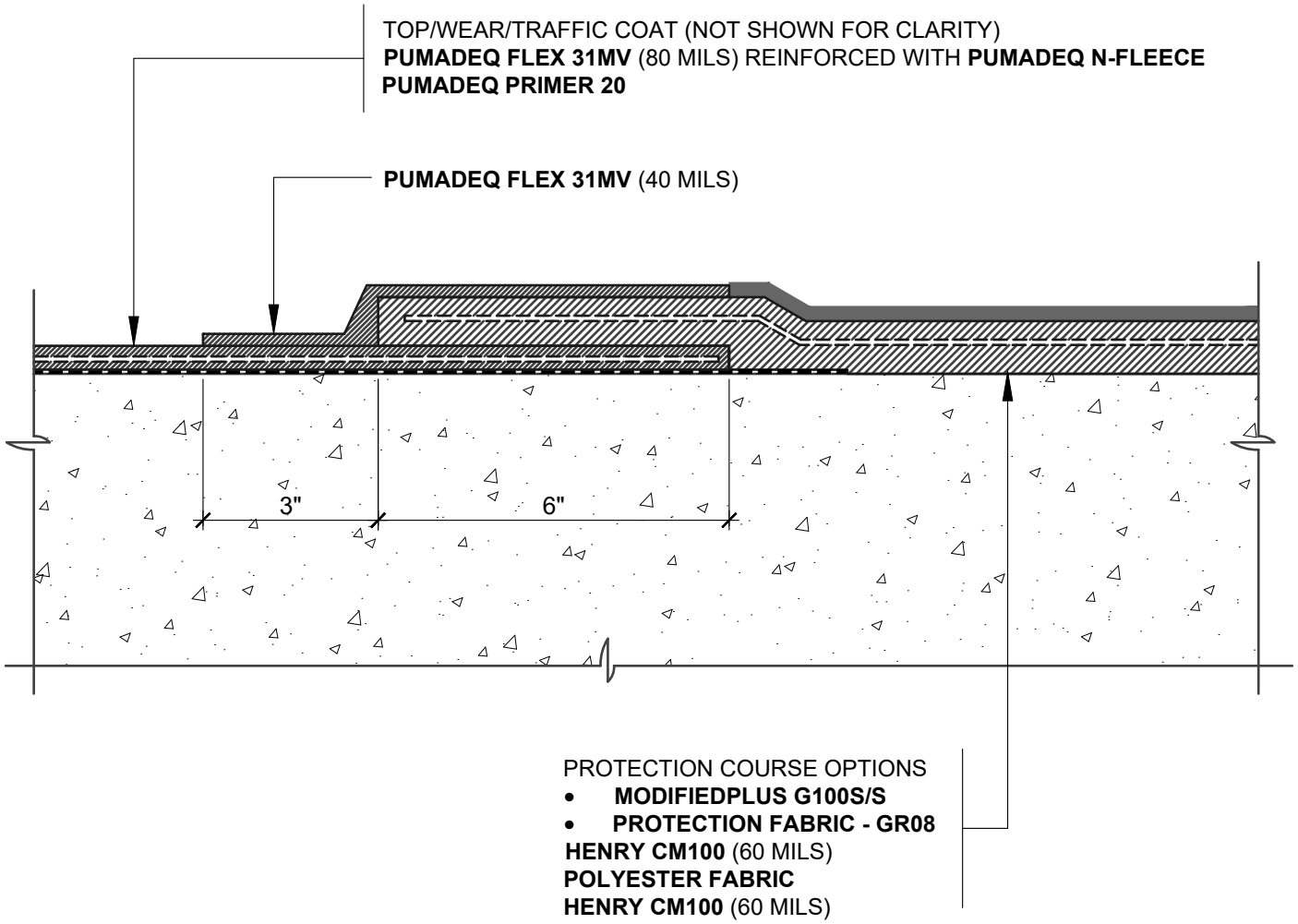
Declaration Level

Self-declared Manufacturer's self-declaration (First Party)
Independent Lab Manufacturer's self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.



NOTES:

1. DETAIL SHOWS **HENRY CM100** REINFORCED COLD FLUID-APPLIED WATERPROOFING ASSEMBLY TRANSITION WITH HENRY **PUMADEQ SYSTEM** FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
2. TRANSITION DETAIL IS SUITABLE FOR BOTH REINFORCED AND UNREINFORCED **PUMADEQ SYSTEM** FIELD MEMBRANE APPLICATIONS. TOP, WEAR, AND TRAFFIC COATING NOT SHOWN FOR CLARITY. REFER TO **PUMADEQ SYSTEM** DETAILS FOR FURTHER CLARITY.
3. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
4. HENRY OFFERS PAVERS, RIGID INSULATION, AND/OR PREFABRICATED DRAINAGE COMPOSITES AS A SINGLE SOURCE WARRANTY OPTION PER PROJECT SPECIFIC REQUIREMENTS. CONTACT HENRY FOR SYSTEM CONFIGURATIONS AND WARRANTY OPTIONS.
5. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.

Henry®
999 N. Pacific Coast Highway, Suite 800
El Segundo, CA 90245
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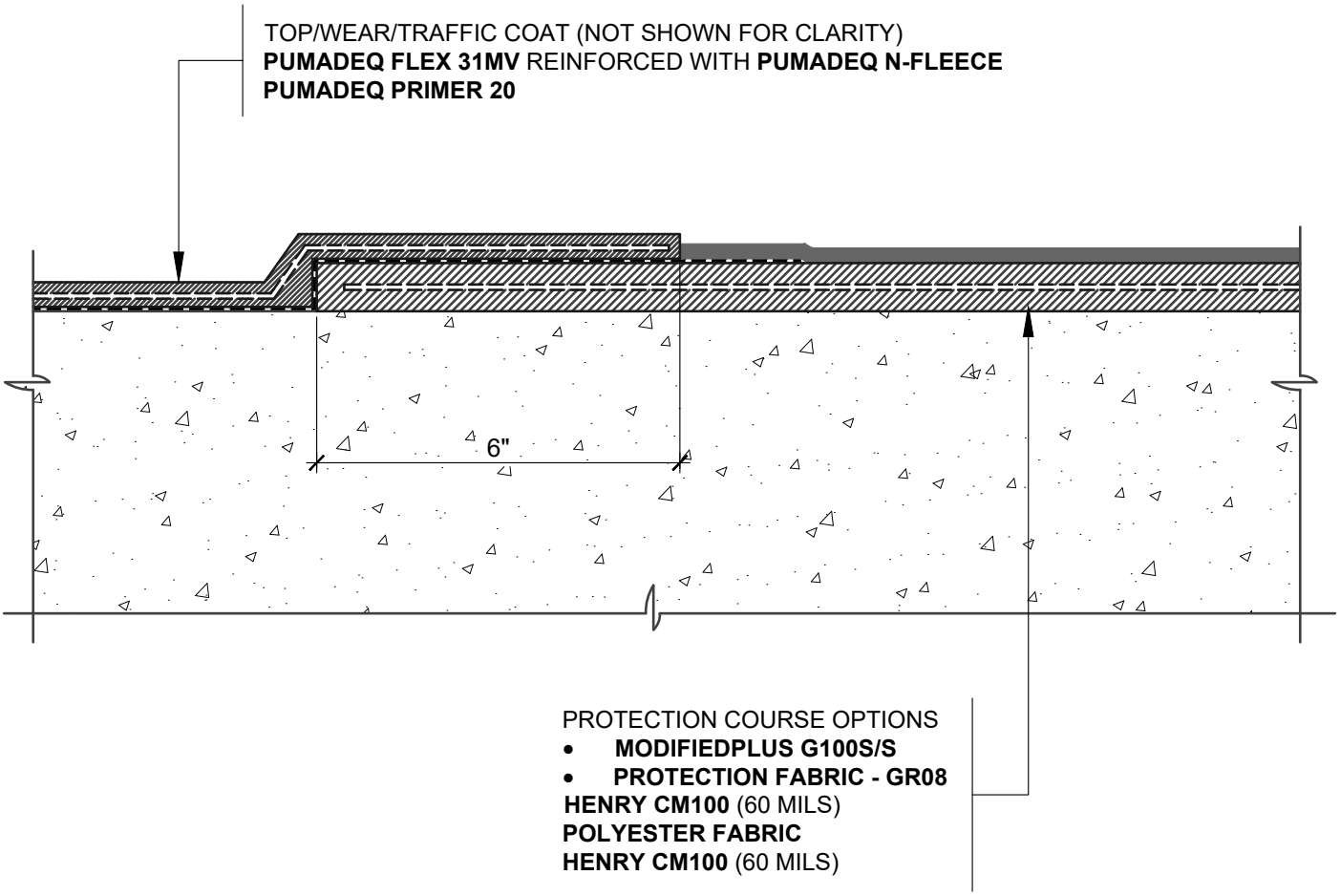
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

TIE-IN DETAIL

DISSIMILAR MATERIAL TRANSITIONS
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3A1



NOTES:

1. DETAIL SHOWS **HENRY CM100** REINFORCED COLD FLUID-APPLIED WATERPROOFING ASSEMBLY TRANSITION WITH HENRY **PUMADEQ SYSTEM** FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
2. TRANSITION DETAIL IS SUITABLE FOR BOTH REINFORCED AND UNREINFORCED **PUMADEQ SYSTEM** FIELD MEMBRANE APPLICATIONS. TOP, WEAR, AND TRAFFIC COATING NOT SHOWN FOR CLARITY. REFER TO **PUMADEQ SYSTEM** DETAILS FOR FURTHER CLARITY.
3. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
4. HENRY OFFERS PAVERS, RIGID INSULATION, AND/OR PREFABRICATED DRAINAGE COMPOSITES AS A SINGLE SOURCE WARRANTY OPTION PER PROJECT SPECIFIC REQUIREMENTS. CONTACT HENRY FOR SYSTEM CONFIGURATIONS AND WARRANTY OPTIONS.
5. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.

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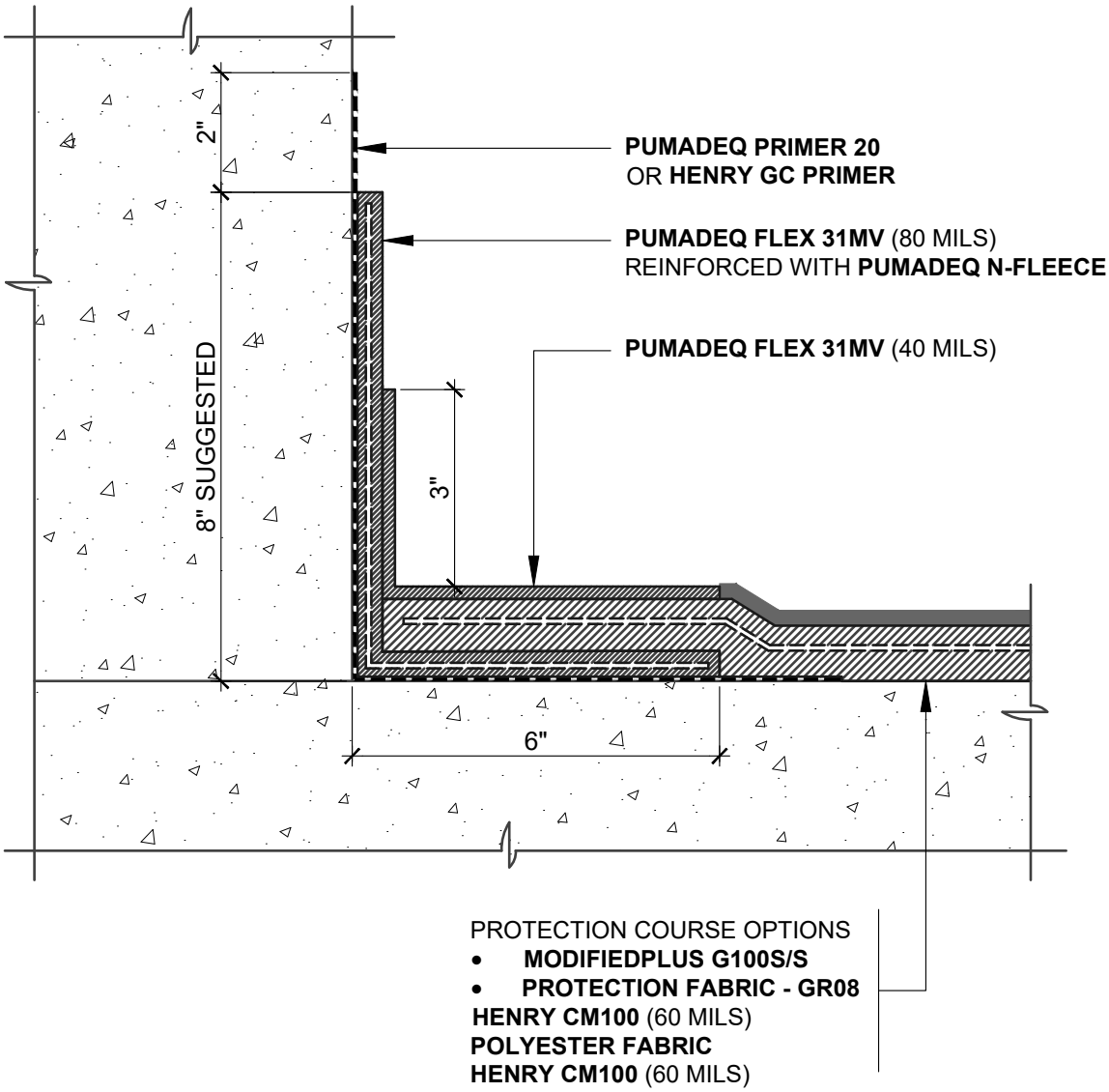
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

TIE-IN DETAIL

DISSIMILAR MATERIAL TRANSITIONS
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3A2



NOTES:

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2. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
3. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
4. HENRY OFFERS PAVERS, RIGID INSULATION, AND/OR PREFABRICATED DRAINAGE COMPOSITES AS A SINGLE SOURCE WARRANTY OPTION PER PROJECT SPECIFIC REQUIREMENTS. CONTACT HENRY FOR SYSTEM CONFIGURATIONS AND WARRANTY OPTIONS.
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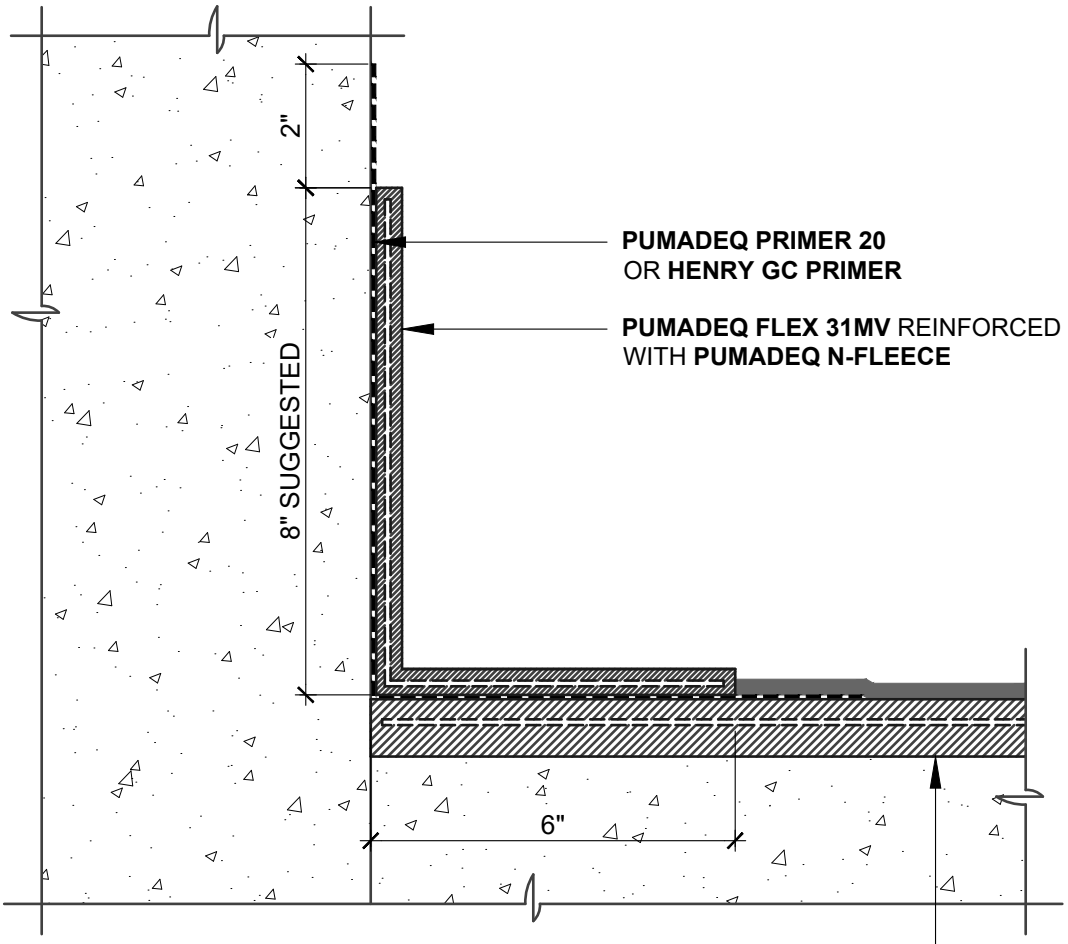
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT UPTURN
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3C1



NOTES:

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3. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
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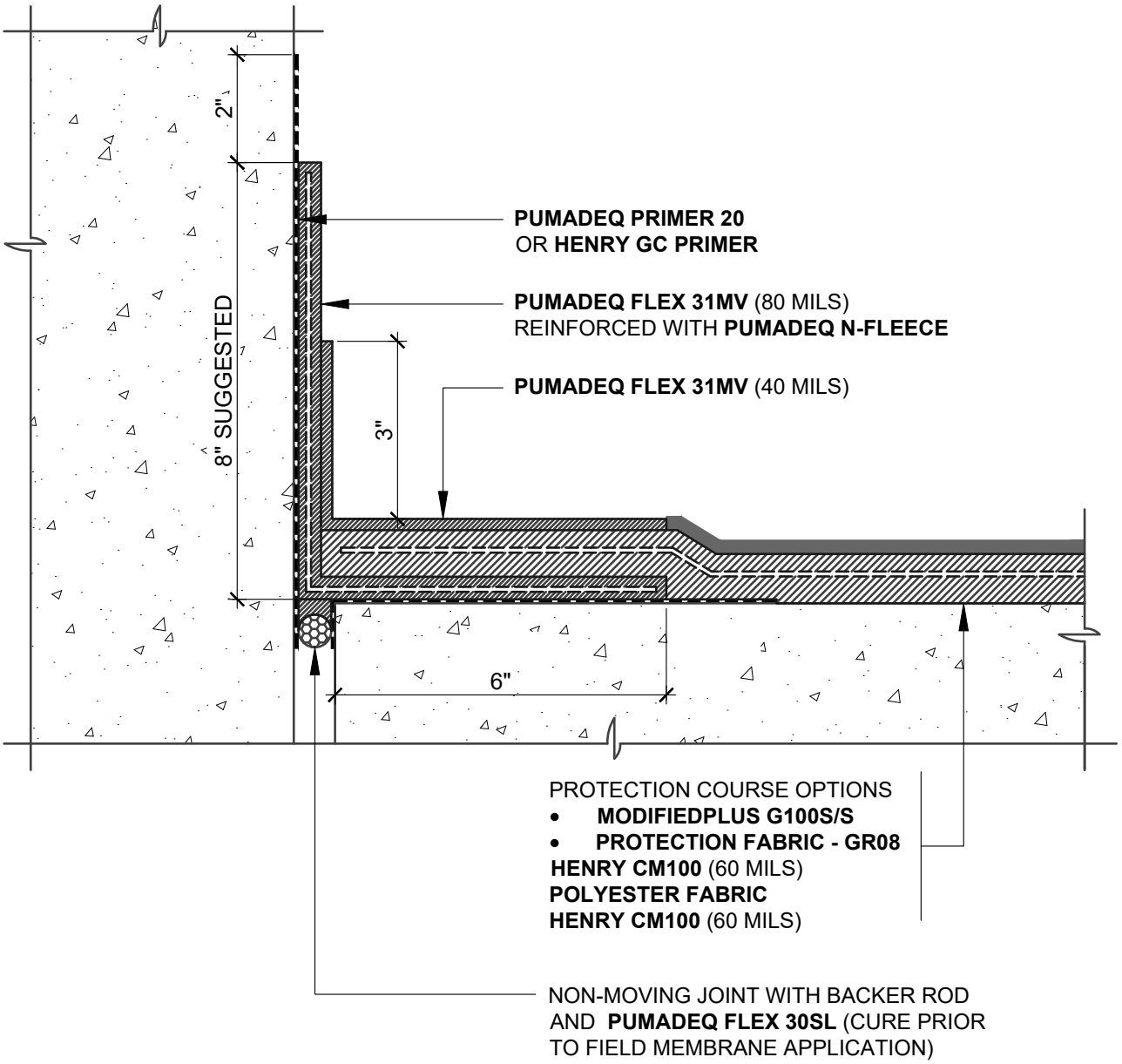
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT UPTURN
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3C2



NOTES:

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3. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
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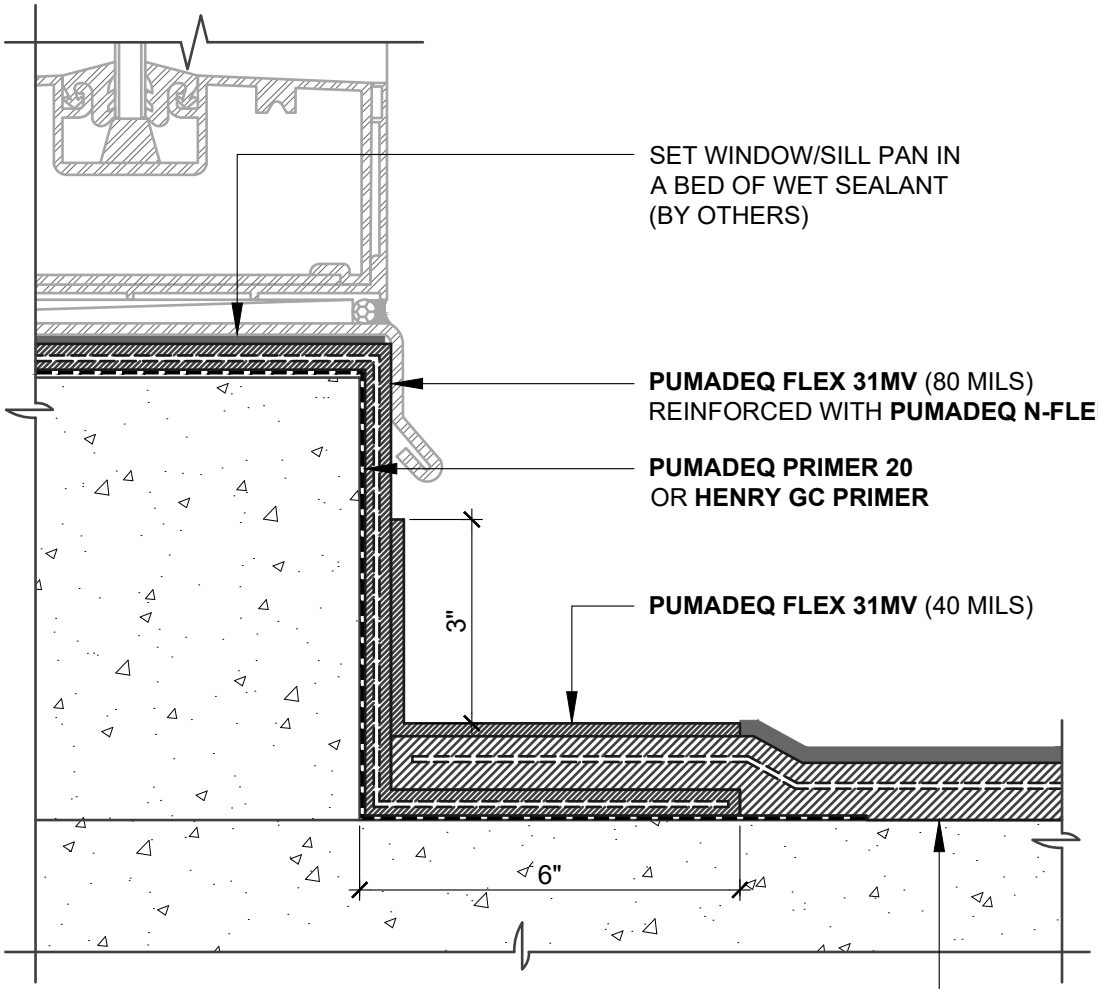
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

NON-MOVING JOINT

CORNER FLASHING AT UPTURN
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3C3



NOTES:

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3. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
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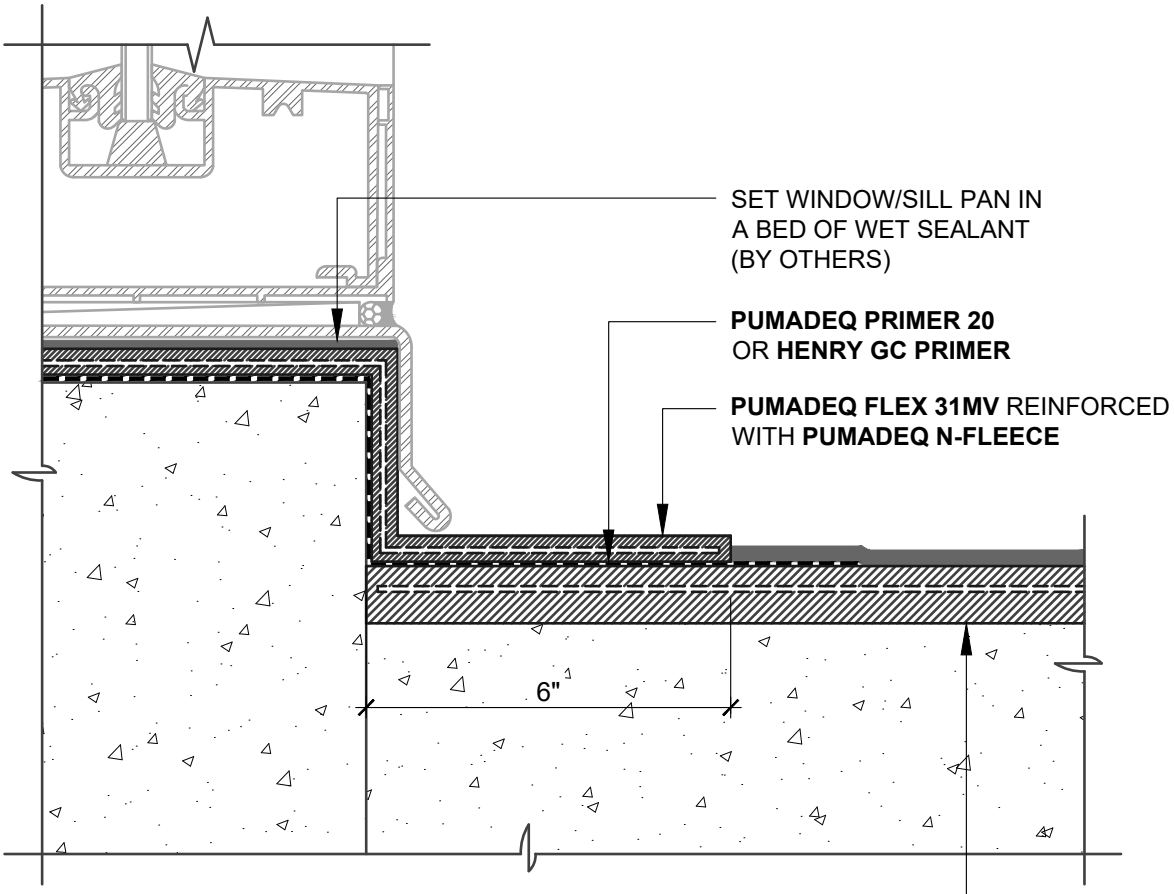
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT WINDOW SILL CURB
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3C4



NOTES:

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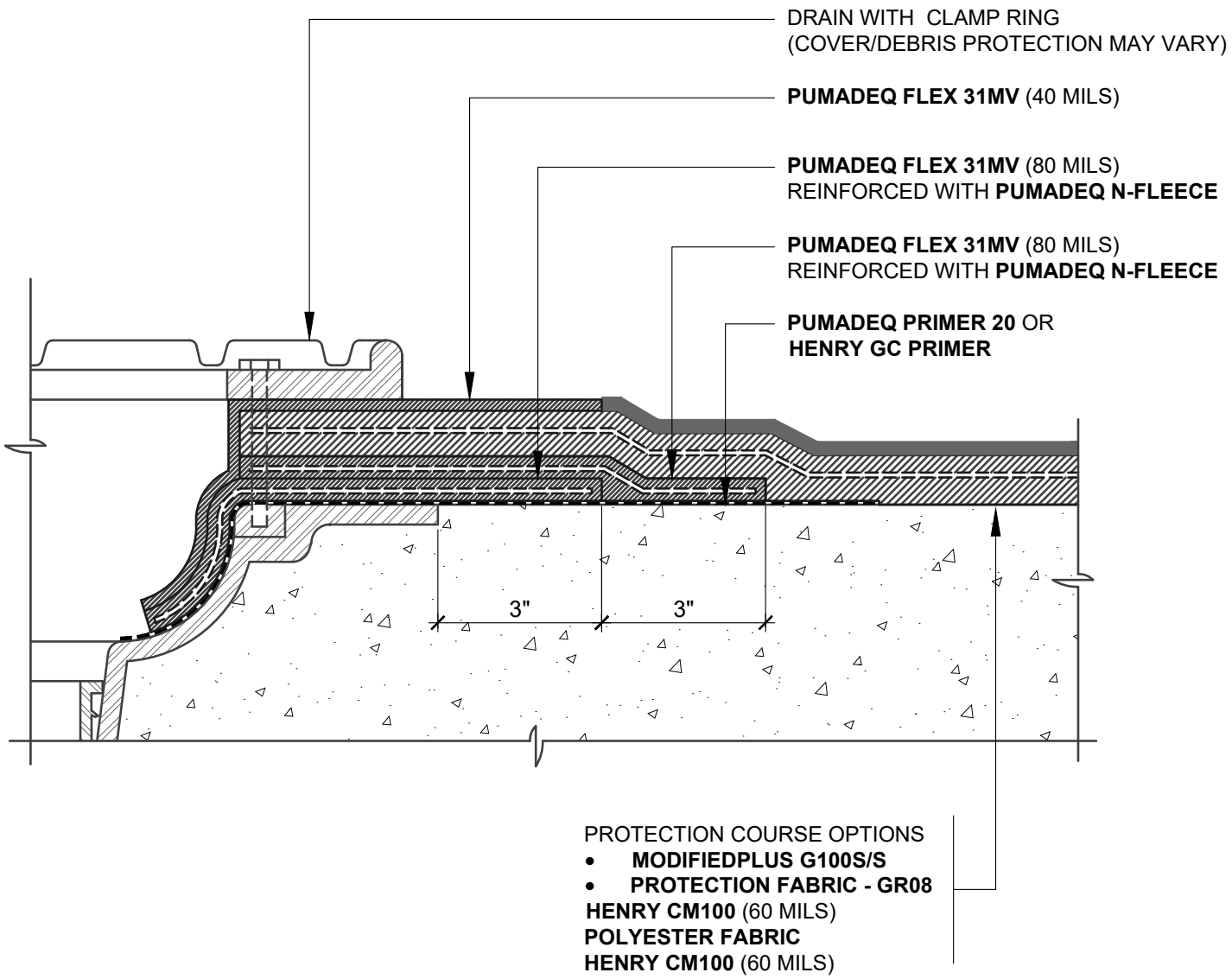
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT WINDOW SILL CURB
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3C5



NOTES:

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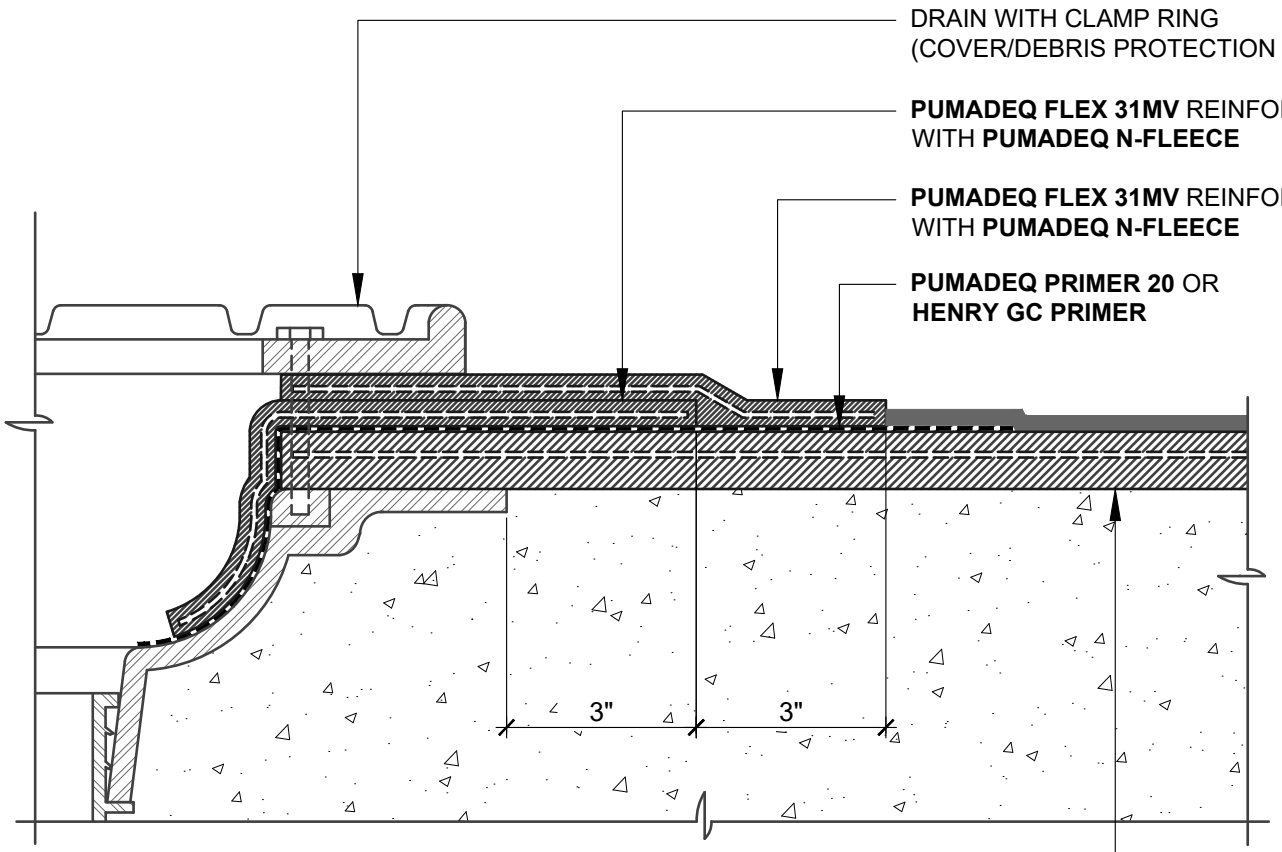
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

DRAIN -CLAMPING RING

FLASHING AT DRAIN WITH CLAMPING RING
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3D1



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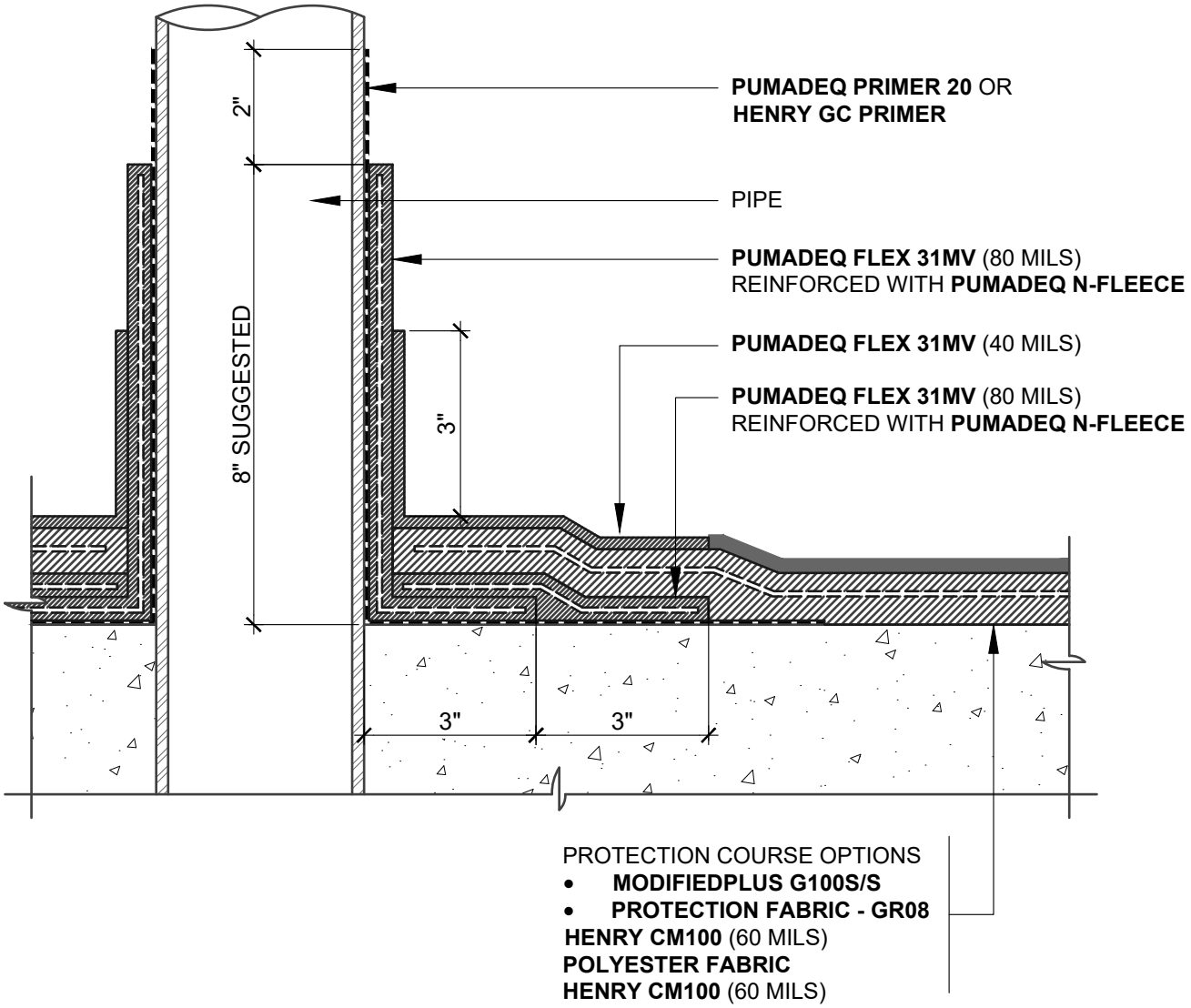
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

DRAIN -CLAMPING RING

FLASHING AT DRAIN WITH CLAMPING RING
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3D2



NOTES:

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2. FORM A COOL SLEEVE AROUND PIPES HOTTER THAN 150 °F.
3. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
4. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
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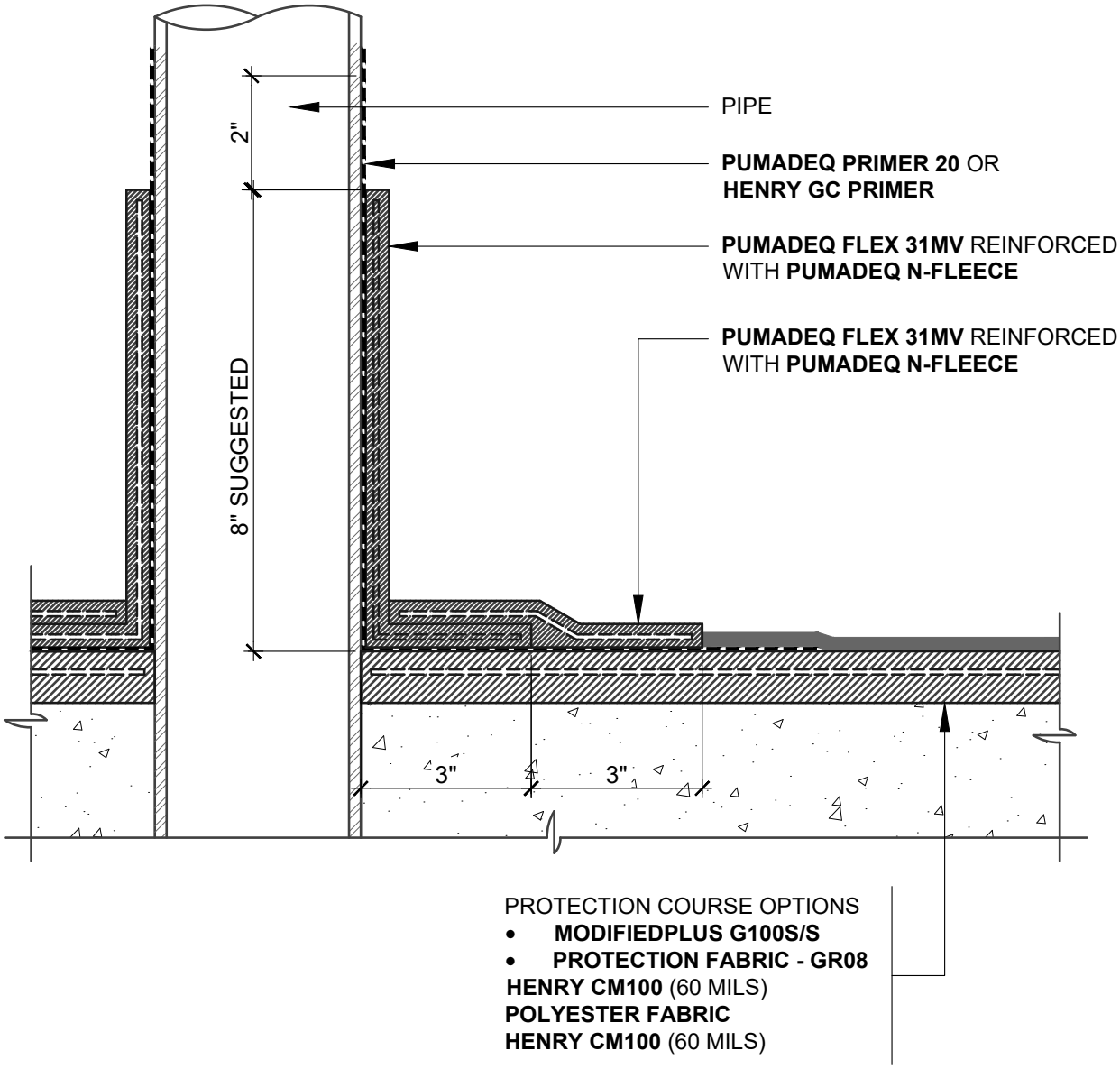
HENRY CM100 AND PUMADEQ SYSTEM TIE IN

PIPE PENETRATION

FLASHING ON A HORIZONTAL SUBSTRATE
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 08-26-2019

CM100-TID-3P1



NOTES:

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HENRY CM100 AND PUMADEQ SYSTEM TIE IN

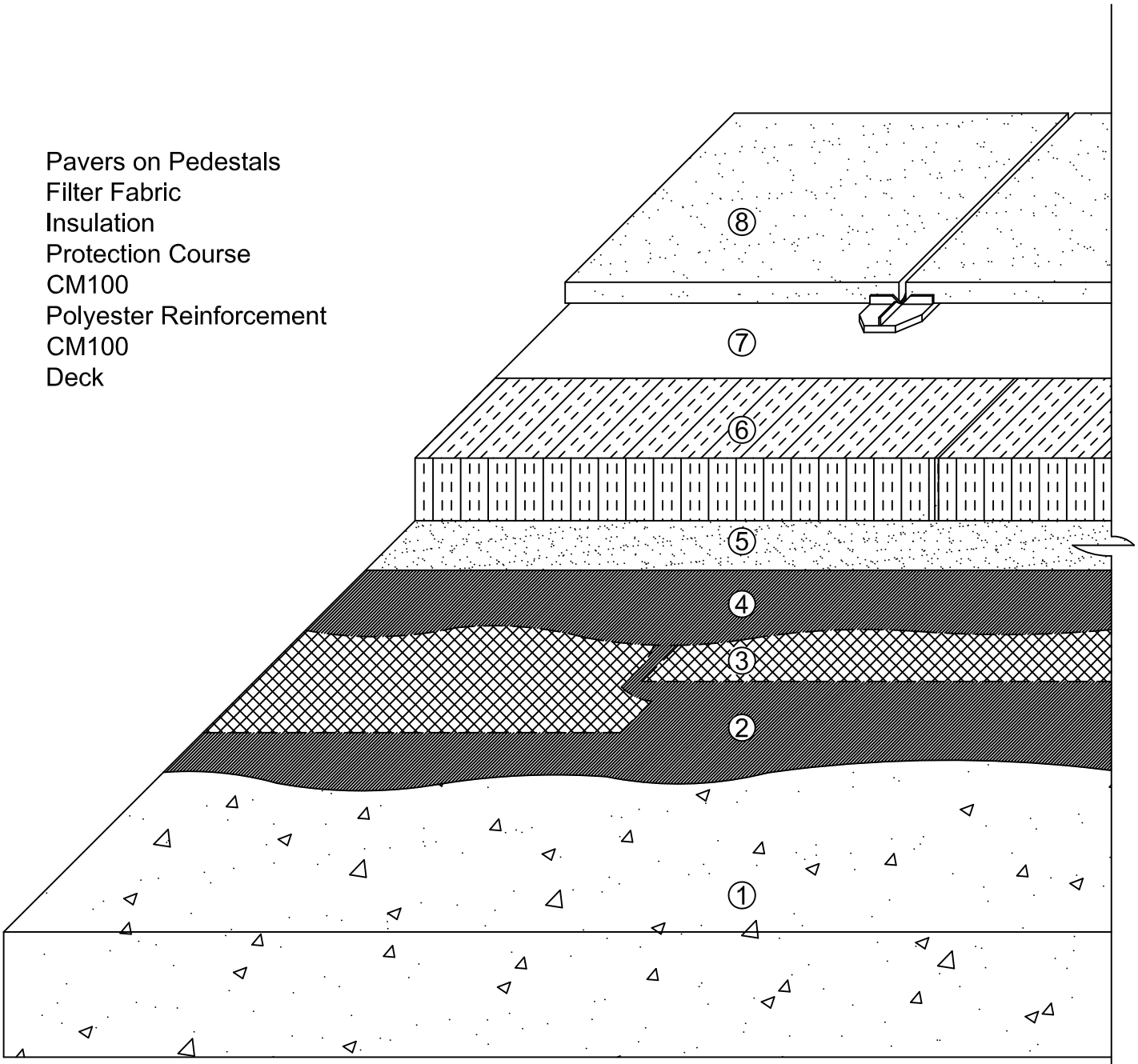
PIPE PENETRATION

FLASHING ON A HORIZONTAL SUBSTRATE
HENRY CM100 AND PUMADEQ SYSTEM

SCALE: N.T.S. | 07-08-2019

CM100-TID-3P2

8. Pavers on Pedestals
7. Filter Fabric
6. Insulation
5. Protection Course
4. CM100
3. Polyester Reinforcement
2. CM100
1. Deck

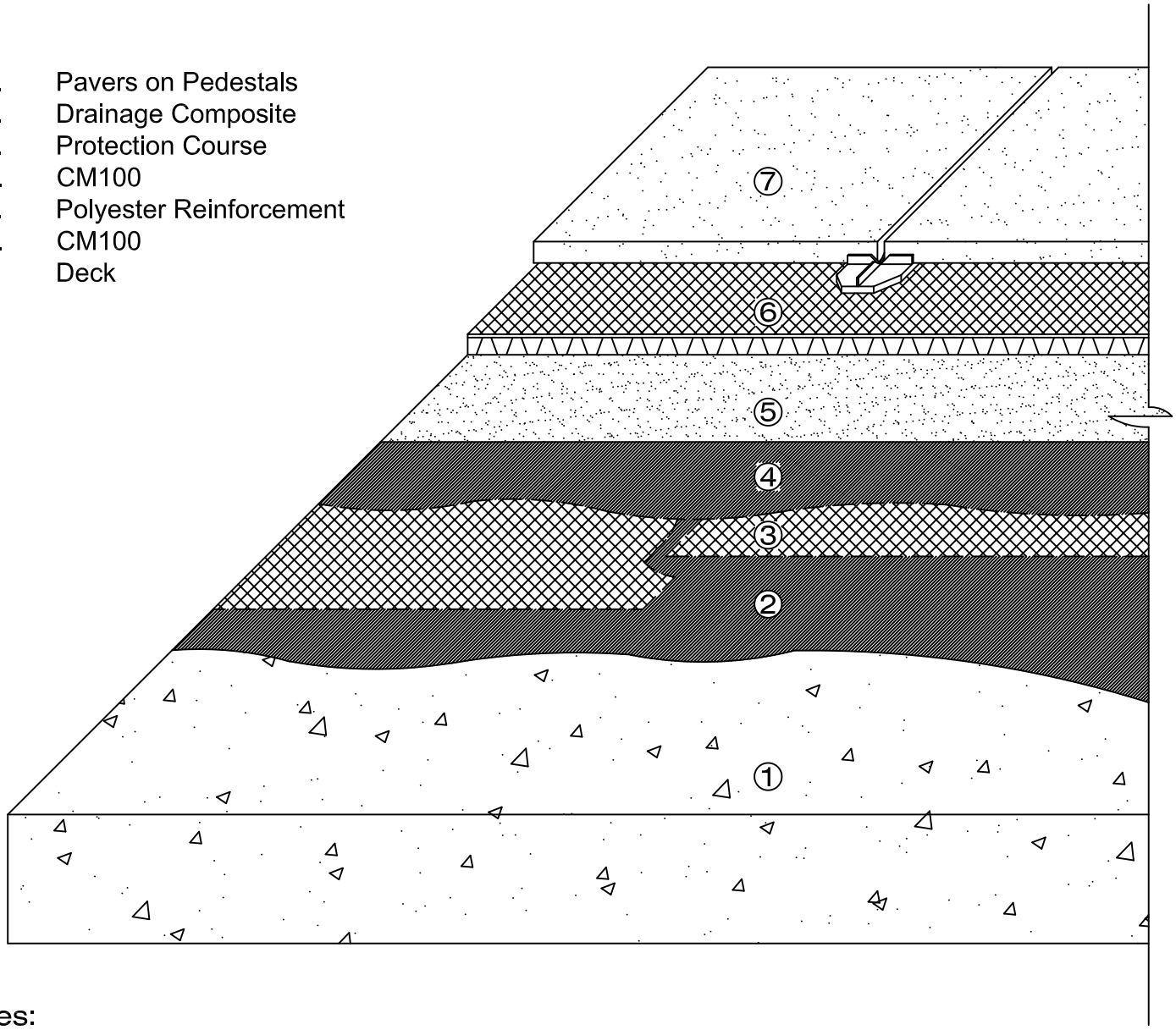


Notes:

1. Detail showing CM100, a two ply reinforced, cold-applied, fast curing waterproofing membrane system incorporating insulation and pavers.

Henry COMPANY®	CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
	INSULATED PLAZA DECK W/ PAVERS	05-05-09
SYSTEM DETAIL		CM-HB01

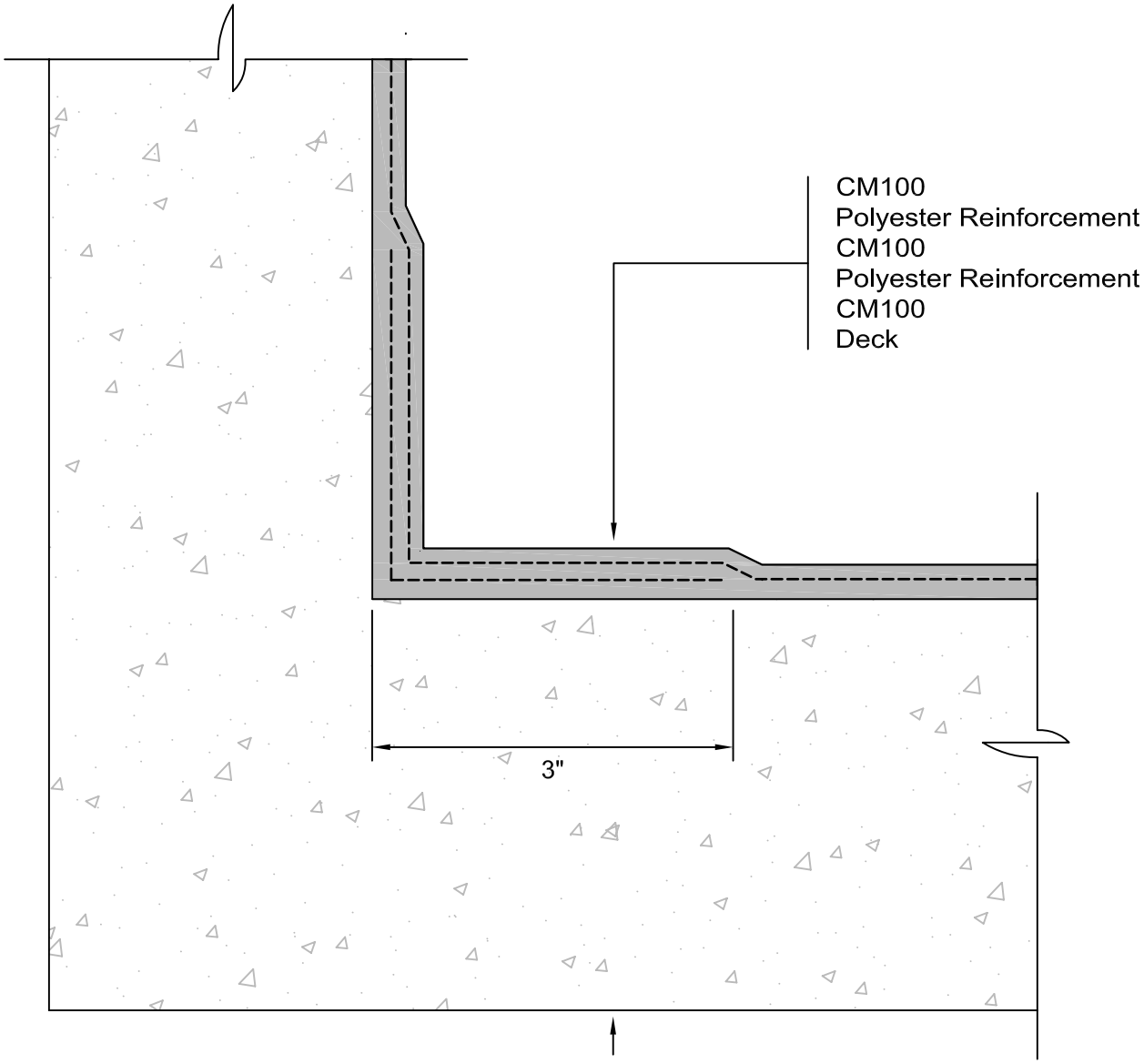
7. Pavers on Pedestals
6. Drainage Composite
7. Protection Course
4. CM100
3. Polyester Reinforcement
2. CM100
1. Deck



Notes:

1. Detail showing CM100 , a two ply reinforced, cold-applied, fast curing waterproofing membrane system incorporating a drain board and pavers.

Henry COMPANY®	CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
	UNINSULATED PLAZA DECK W/ PAVERS	05-05-09
	SYSTEM DETAIL	CM-HB02



Note:

1. Treat non-moving joints with an additional ply of polyester reinforcement set into wet CM100 membrane.
2. Extend polyester reinforcement minimum 3 inches over vertical and horizontal surfaces.
3. Protection course required over completed membrane application.

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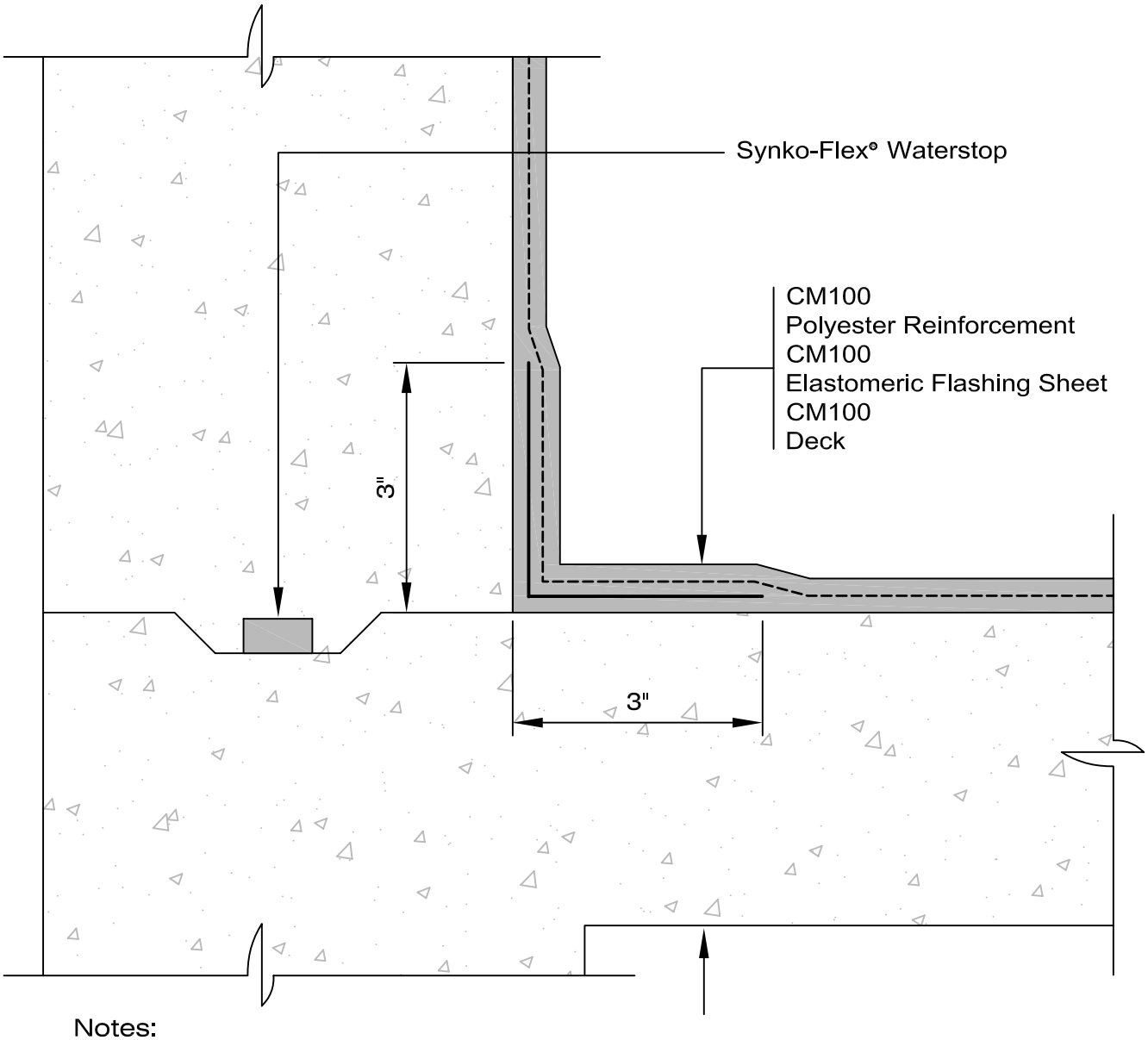
CM100 WATERPROOFING - HIGH BUILD SYSTEM		SCALE: N.T.S.
CONCRETE DECK		05-05-09
CURB DETAIL		CM-HB03



Notes:

1. Set elastomeric flashing sheet in a bed of wet CM100 and allow to cure.
2. Coat elastomeric flashing sheet with CM100 and set polyester reinforcement into wet CM100 and allow to cure.
3. Coat polyester reinforcement with CM100 and install protection course (not shown).
4. Allow CM100 membrane to fully cure prior to placement of additional coats.
5. Extend polyester reinforcement minimum 3 inches over vertical and horizontal surfaces.
6. Protection course required over completed membrane application.

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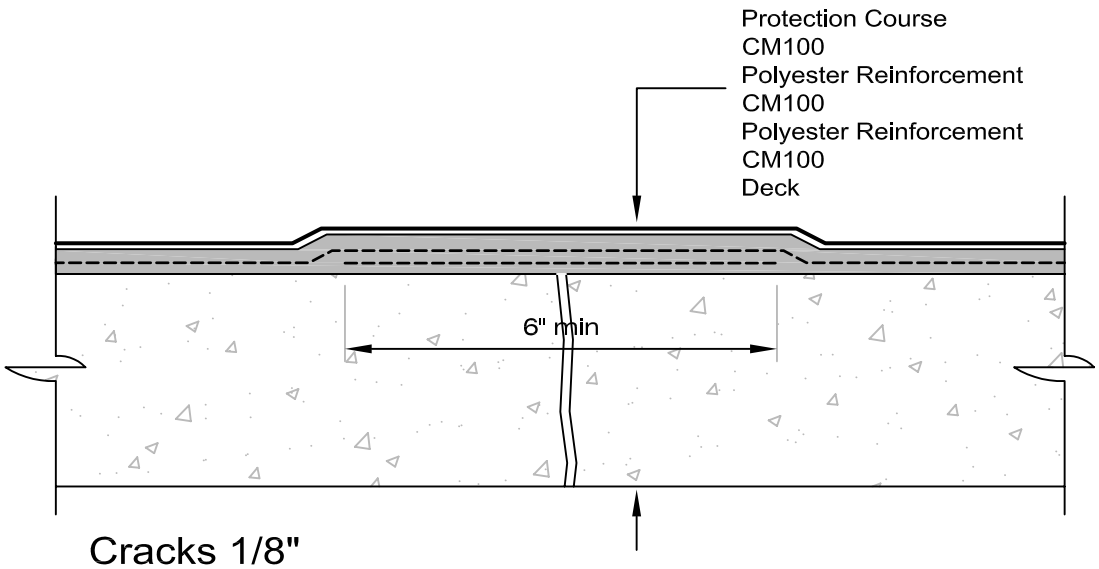
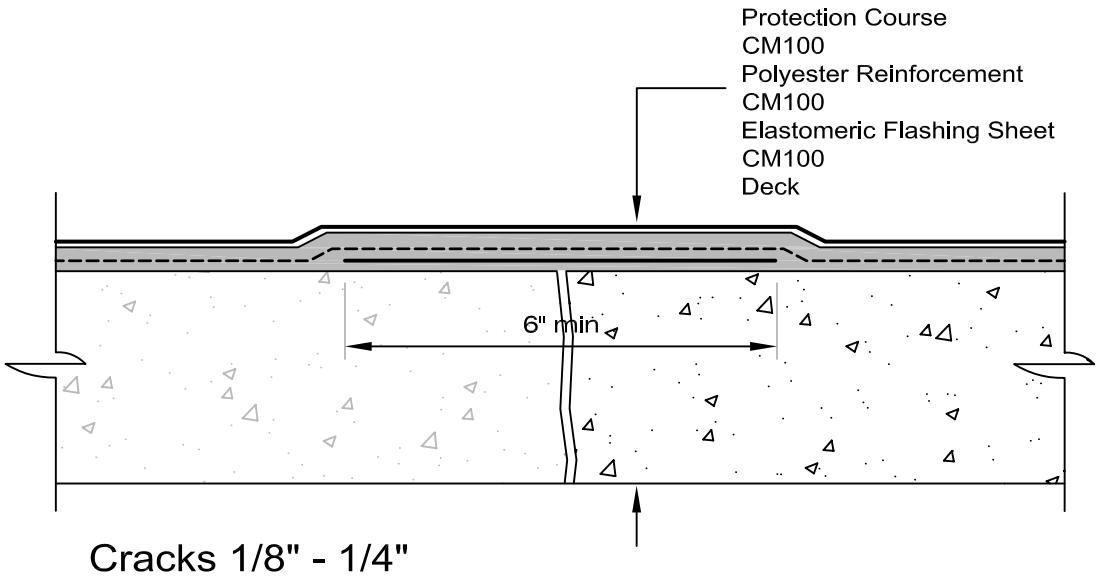
CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
CONCRETE DECK	05-05-09
CONSTRUCTION JOINT DETAIL	CM-HB04



Cracks 1/8"



Cracks 1/8" - 1/4"

Note:

1. Set elastomeric flashing sheet in a bed of wet CM100 and allow to cure.
2. Coat elastomeric flashing sheet with CM100 and set polyester reinforcement into wet CM100 and allow to cure.
3. Coat polyester reinforcement with CM100 and install protection course.
4. Allow CM100 membrane to fully cure prior to placement of additional coats.
5. Extend polyester reinforcement minimum 3 inches beyond crack

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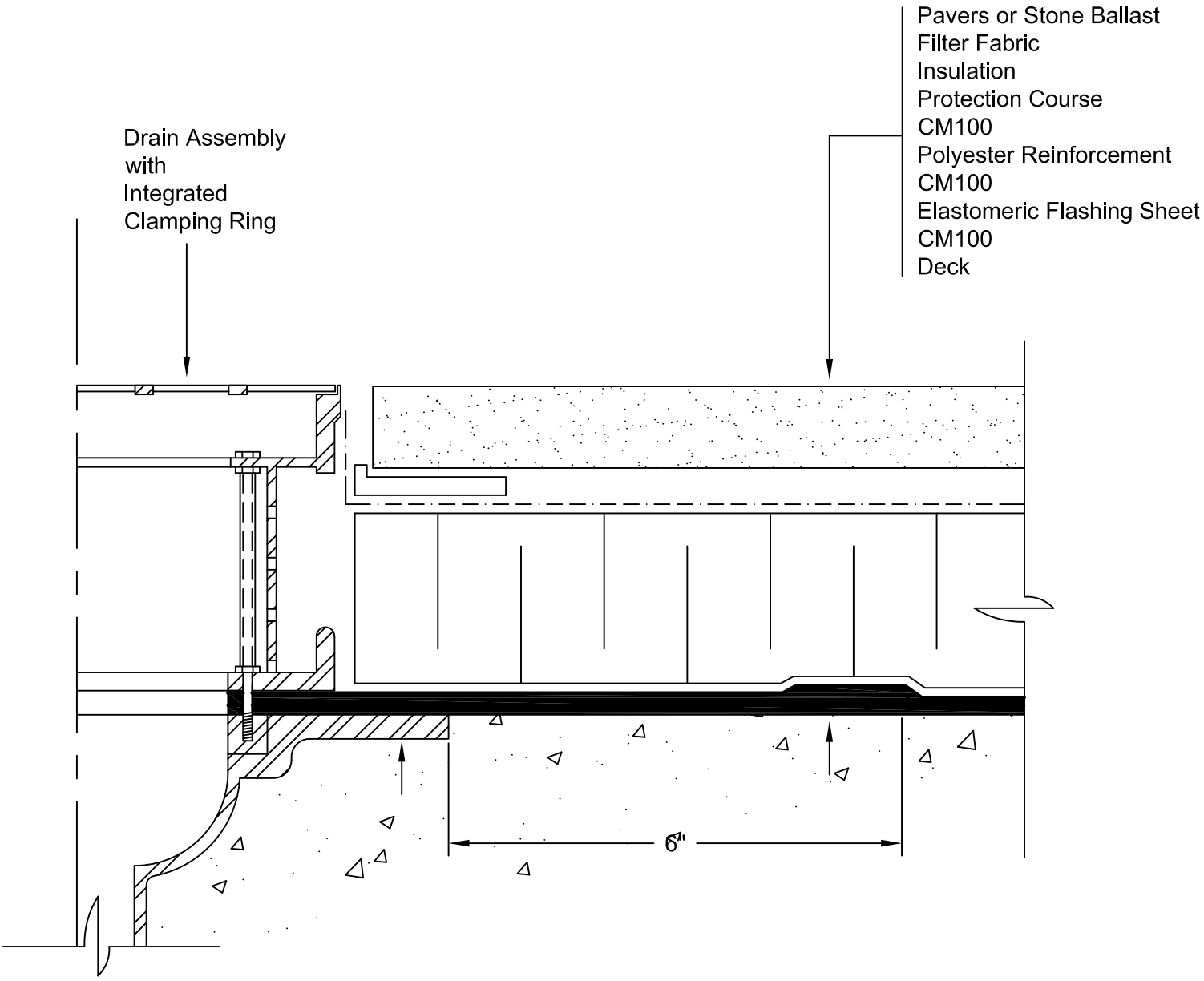
CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
CONCRETE DECK	05-05-09
CRACK TREATMENT	CM-HB05

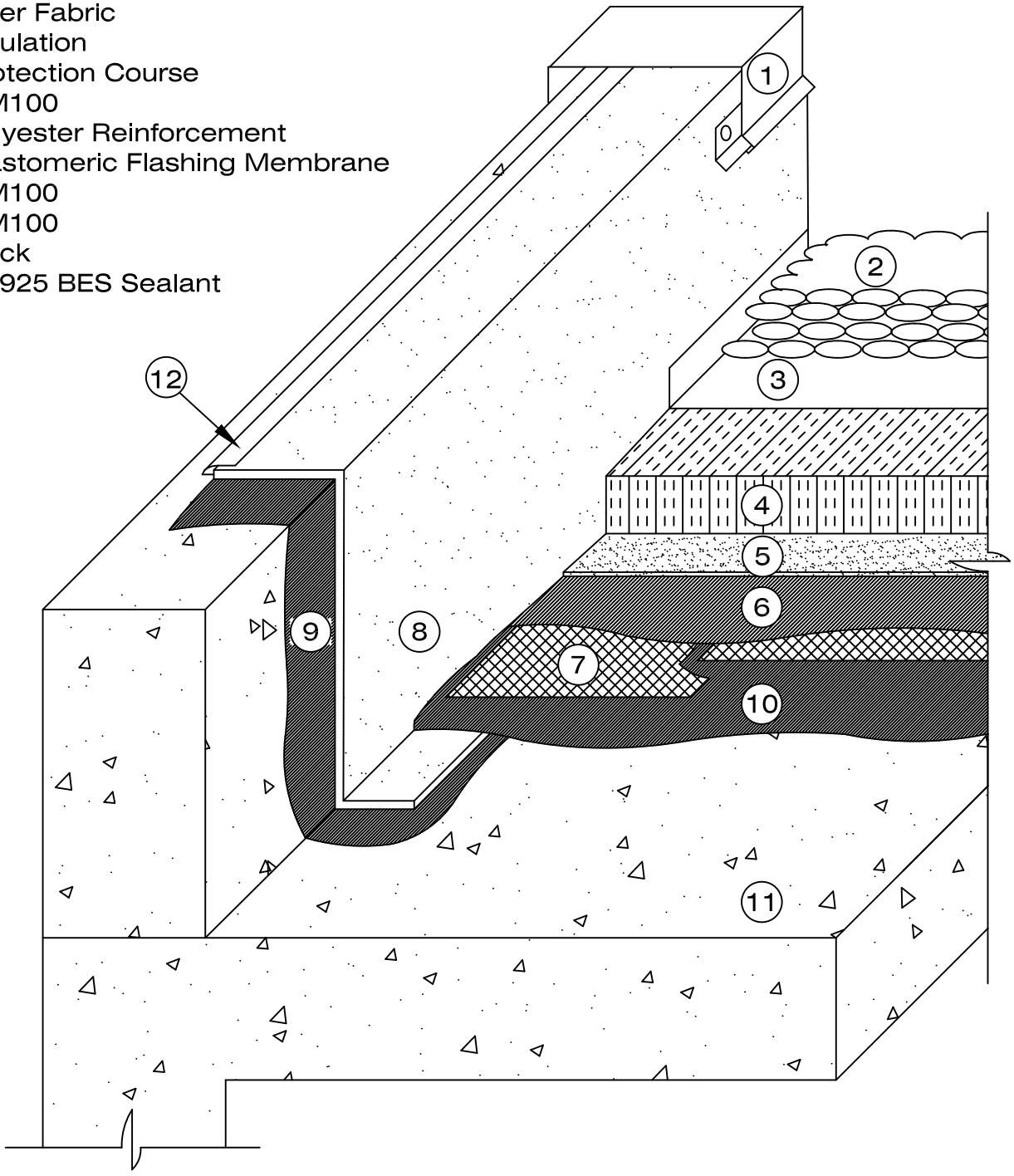


Notes:
1. The elastomeric flashing sheet is set in a bed of CM100 and extends 6 inches beyond the drain flange prior to the application of polyester reinforement.

Henry COMPANY®

CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
TYPICAL PLAZA DECK ASSEMBLY	05-05-09
DRAIN DETAIL	CM-HB06

1. Metal Cap Flashing
2. Pavers or stone ballast
3. Filter Fabric
4. Insulation
5. Protection Course
6. CM100
7. Polyester Reinforcement
8. Elastomeric Flashing Membrane
9. CM100
10. CM100
11. Deck
12. HE925 BES Sealant



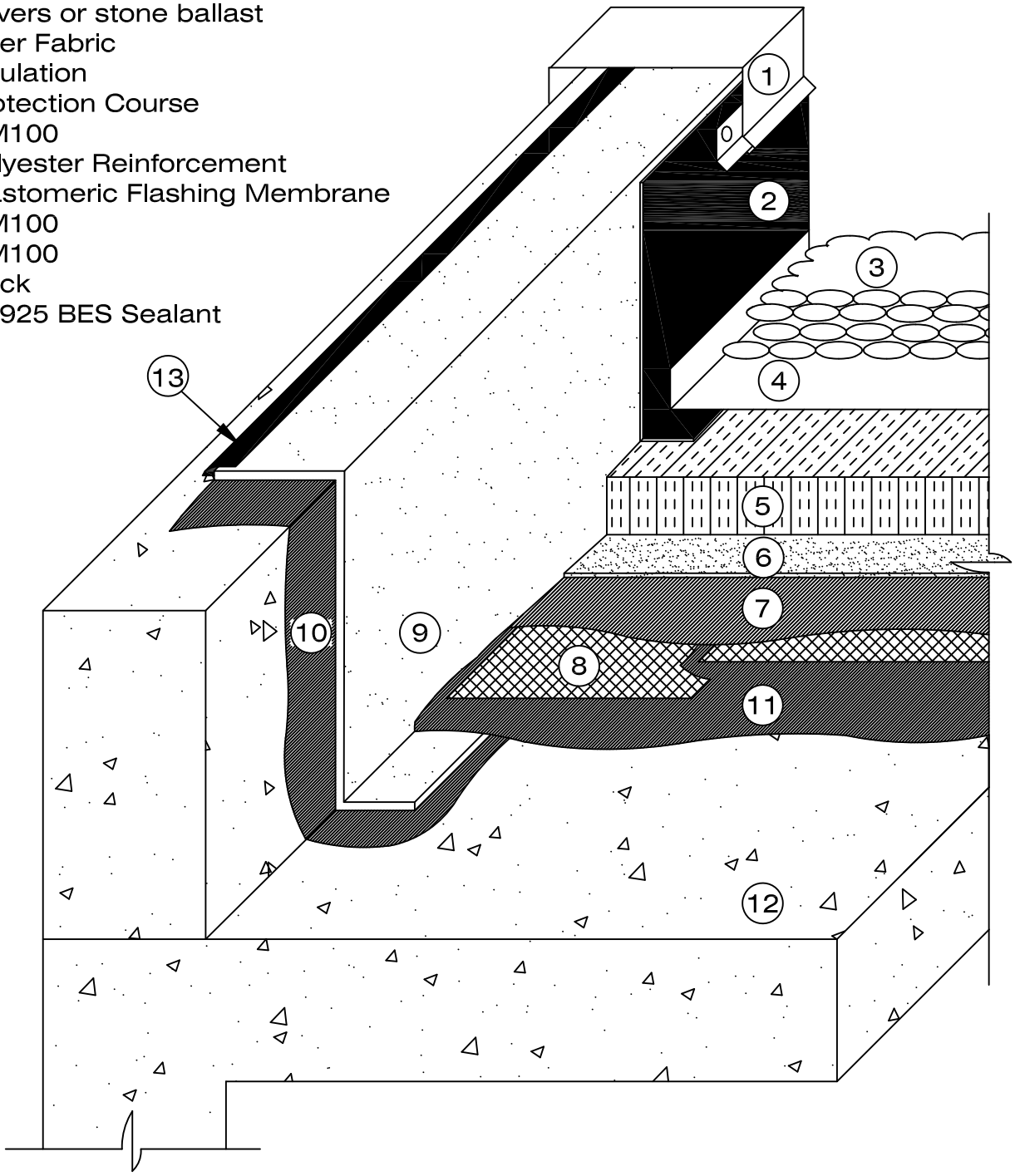
Notes:

1. System detail flashing membrane is exposed elastomeric flashing sheet.
2. The polyester reinforcement overlaps approximately $\frac{1}{4}$". A coat of CM100 must be applied at the laps as shown.

Henry COMPANY®

CM100 MEMBRANE - HIGH BUILD SYSTEM	SCALE: N.T.S.
EXPOSED ELASTOMERIC FLASHING MEMBRANE	05-05-09
CONCRETE CURB DETAIL	CM-HB07

1. Metal Cap Flashing
2. Metal Flashing
3. Pavers or stone ballast
4. Filter Fabric
5. Insulation
6. Protection Course
7. CM100
8. Polyester Reinforcement
9. Elastomeric Flashing Membrane
10. CM100
11. CM100
12. Deck
13. HE925 BES Sealant

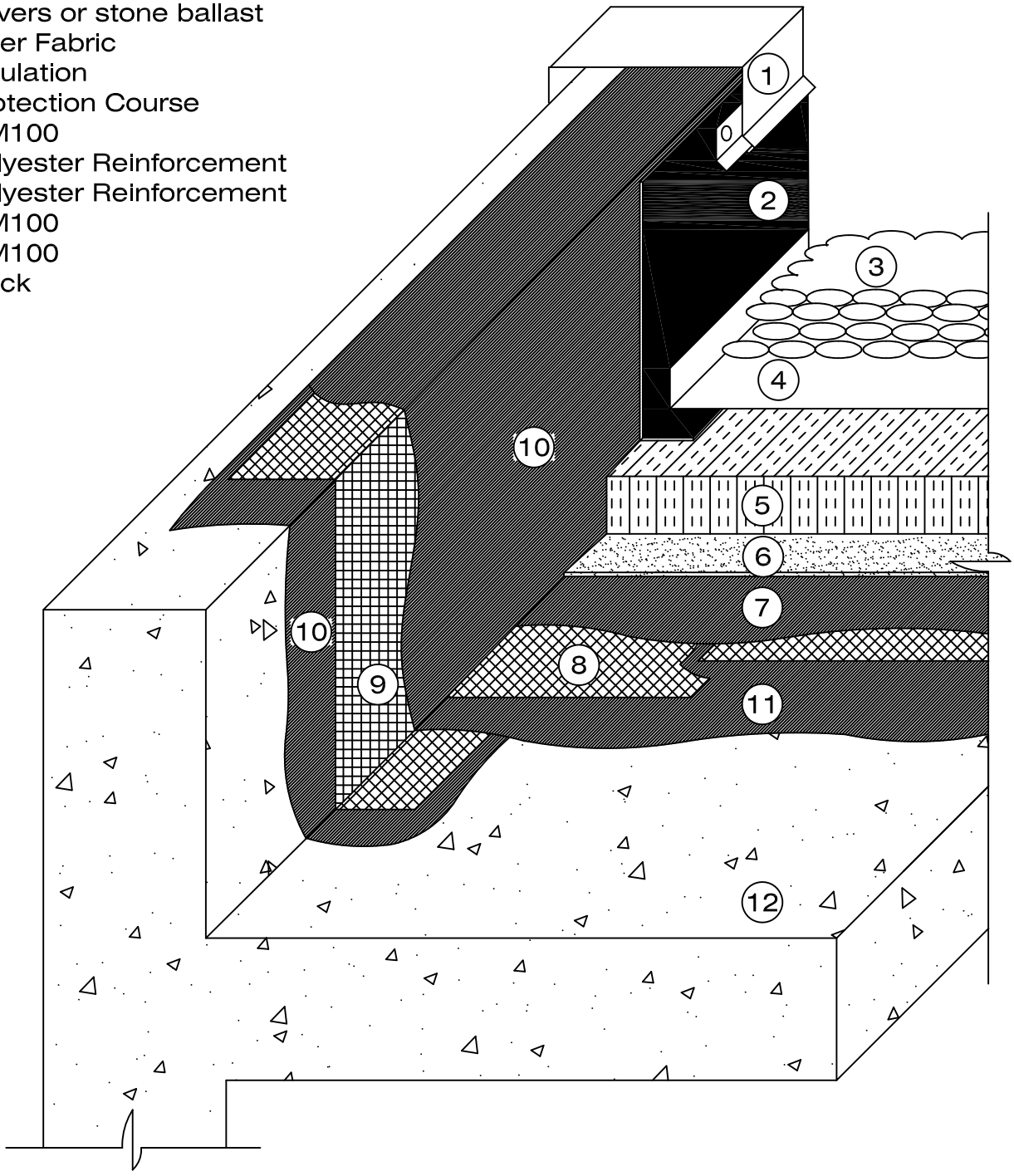


Notes:

1. System detail flashing membrane is elastomeric flashing sheet.
2. The Polyfab reinforcement overlaps approximately $\frac{1}{4}$". A coat of CM100 must be applied at the laps as shown.

Henry COMPANY®	CM100 MEMBRANE - HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED ELASTOMERIC FLASHING MEMBRANE	05-05-09
	CONCRETE CURB DETAIL	CM-HB08

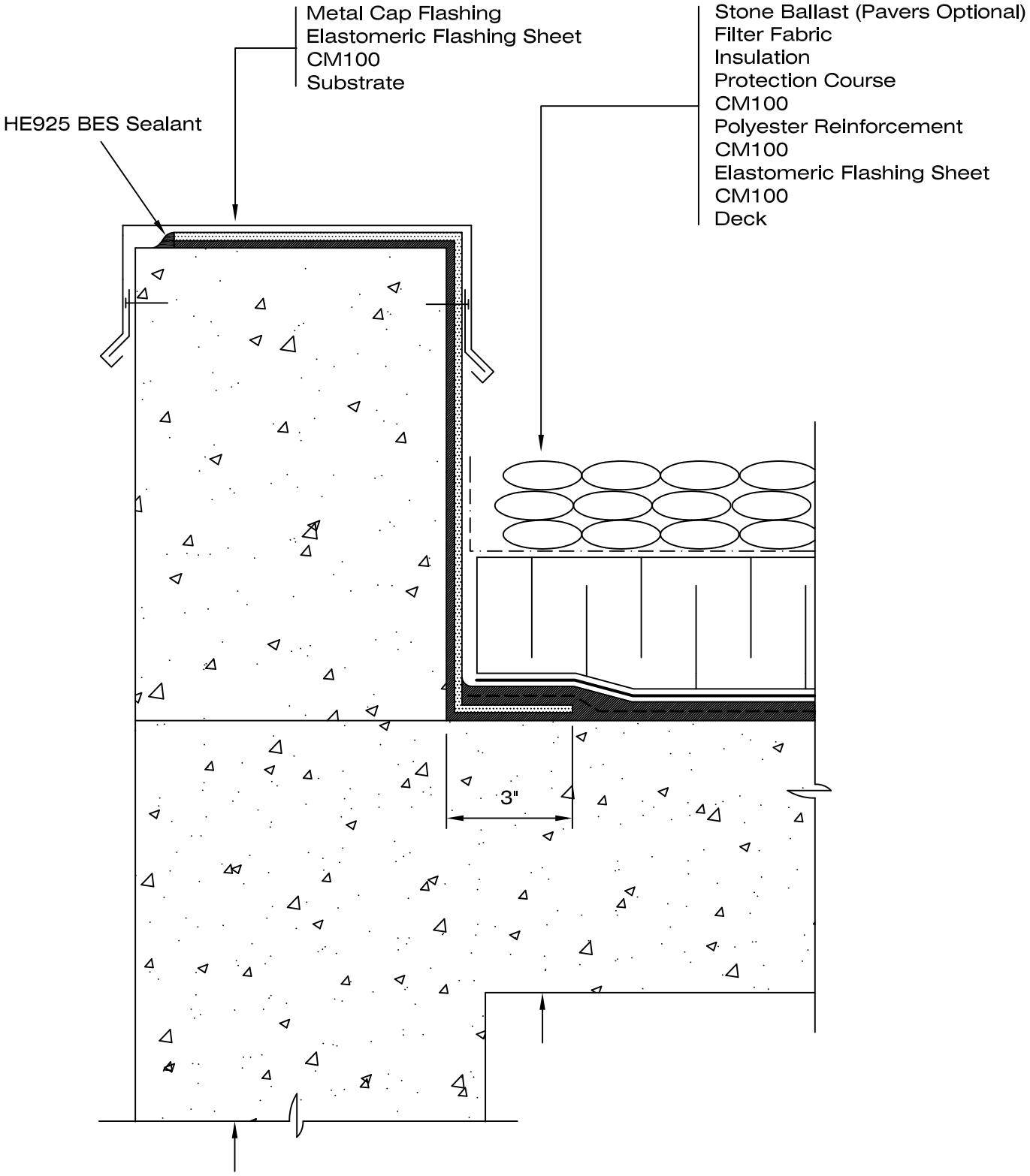
1. Metal Cap Flashing
2. Metal Flashing
3. Pavers or stone ballast
4. Filter Fabric
5. Insulation
6. Protection Course
7. CM100
8. Polyester Reinforcement
9. Polyester Reinforcement
10. CM100
11. CM100
12. Deck



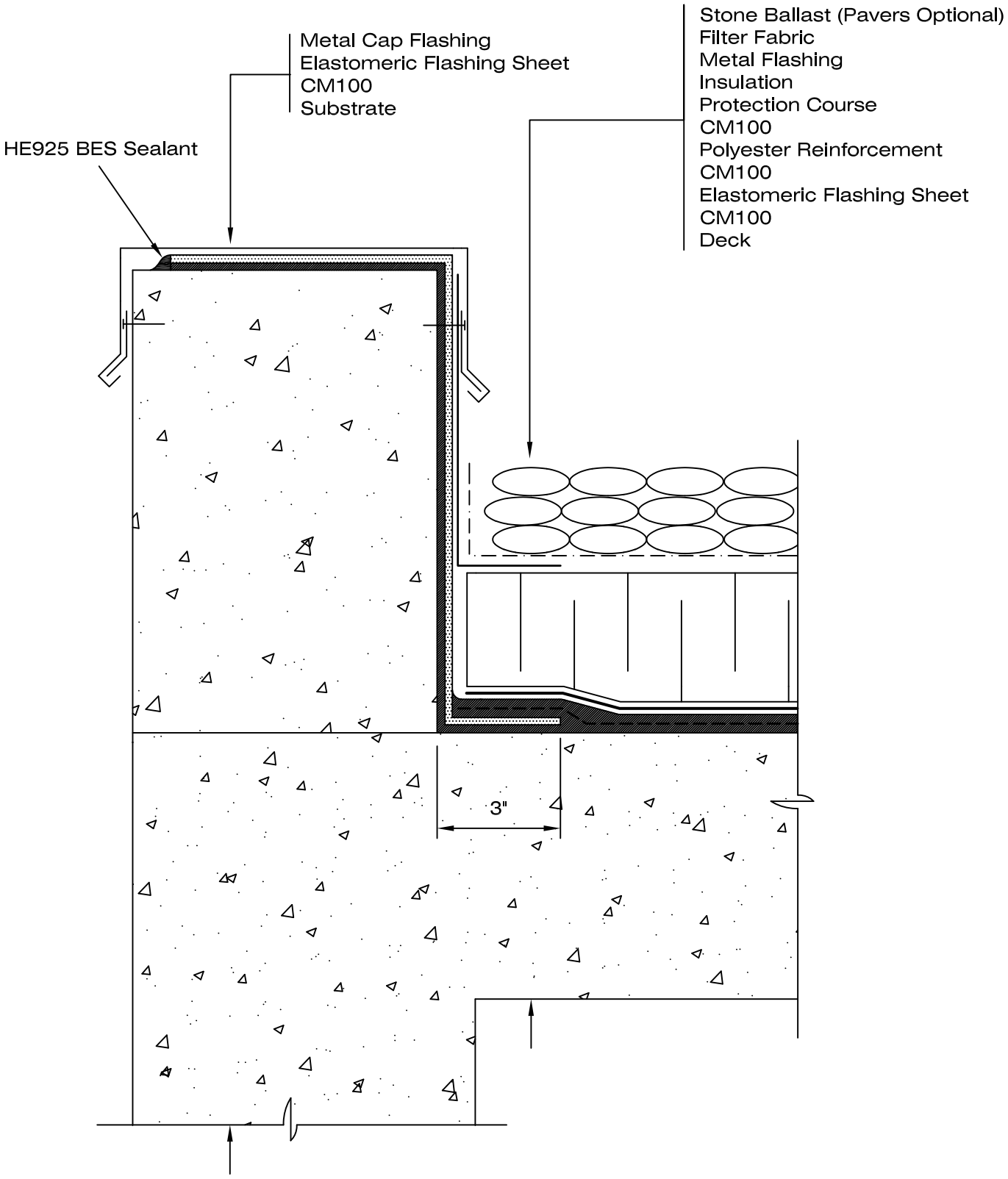
Notes:

1. System detail flashing membrane is concealed 2 ply polyester reinforced CM100.
2. The polyester reinforcement overlaps approximately $\frac{1}{4}$". A coat of CM100 must be applied at the laps as shown.

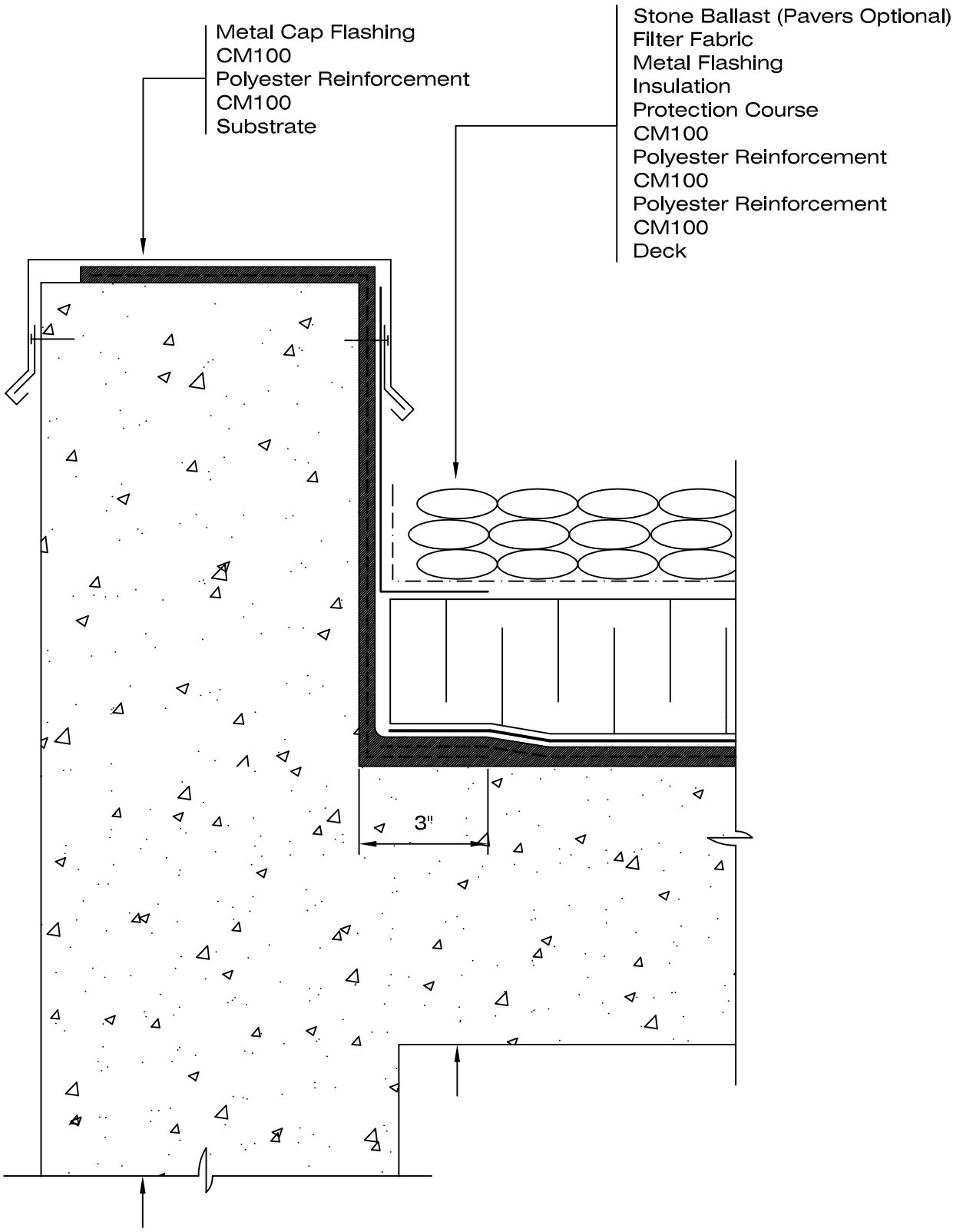
Henry COMPANY®	CM100 MEMBRANE - HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED POLYESTER REINFORCED FLASHING	05-05-09
	CONCRETE CURB DETAIL	CM-HB09



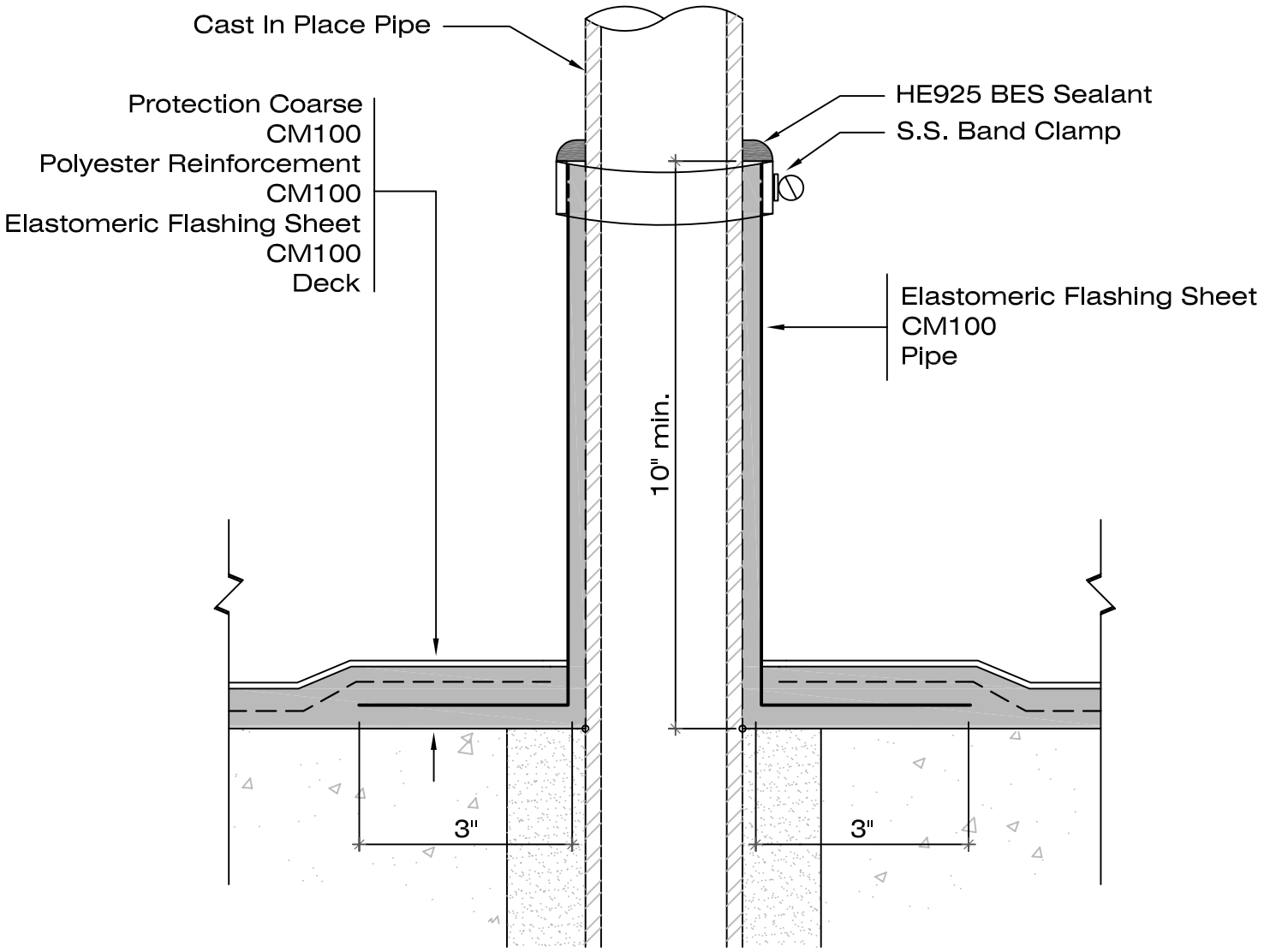
Henry COMPANY®	CM100 MEMBRANE-HIGH BUILD SYSTEM	SCALE: N.T.S.
	EXPOSED ELASTOMERIC FLASHING MEMBRANE	05-05-09
	CONCRETE CURB DETAIL	CM-HB11



Henry COMPANY®	CM100 MEMBRANE-HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED ELASTOMERIC FLASHING MEMBRANE	05-05-09
	CONCRETE CURB DETAIL	CM-HB12



Henry COMPANY®	CM100 MEMBRANE-HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED POLYESTER REINFORCED FLASHING	05-05-09
	CONCRETE CURB DETAIL	CM-HB13



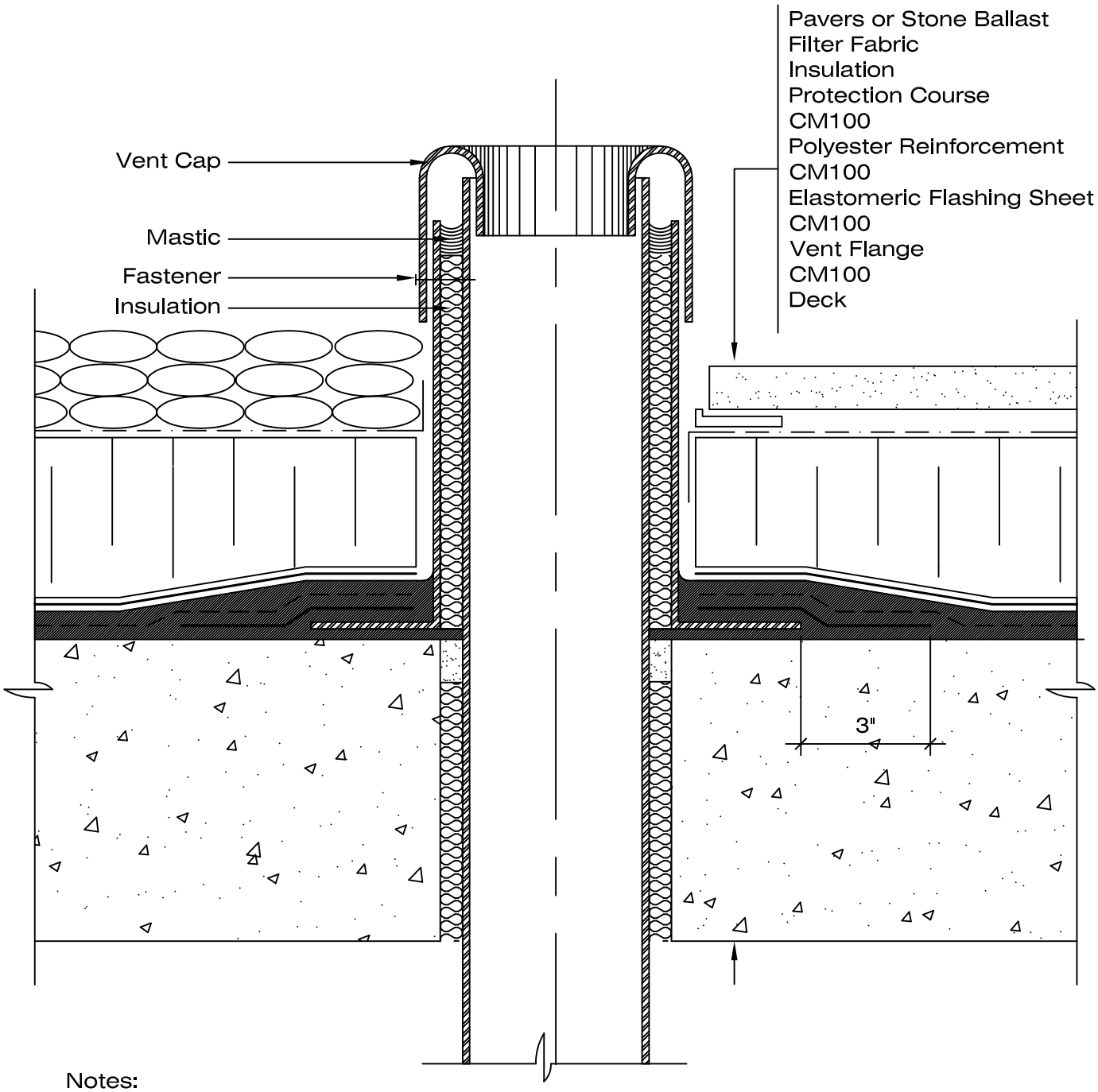
1. Follow appropriate codes for minimum vent height above roof deck.
2. Set elastomeric flashing sheet in a bed of wet CM100. Allow CM100 to cure.
3. Coat horizontal portion of elastomeric flashing sheet with CM100 and set polyester reinforcement into wet CM100 and allow to cure.
4. Coat polyester reinforcement with CM100 and install protection course.
5. Install stainless steel band clamp and seal with HE925 BES Sealant.

Henry COMPANY®
www.henry.com

CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
CAST-IN-PLACE	07-07-09

PIPE PENETRATION DETAIL

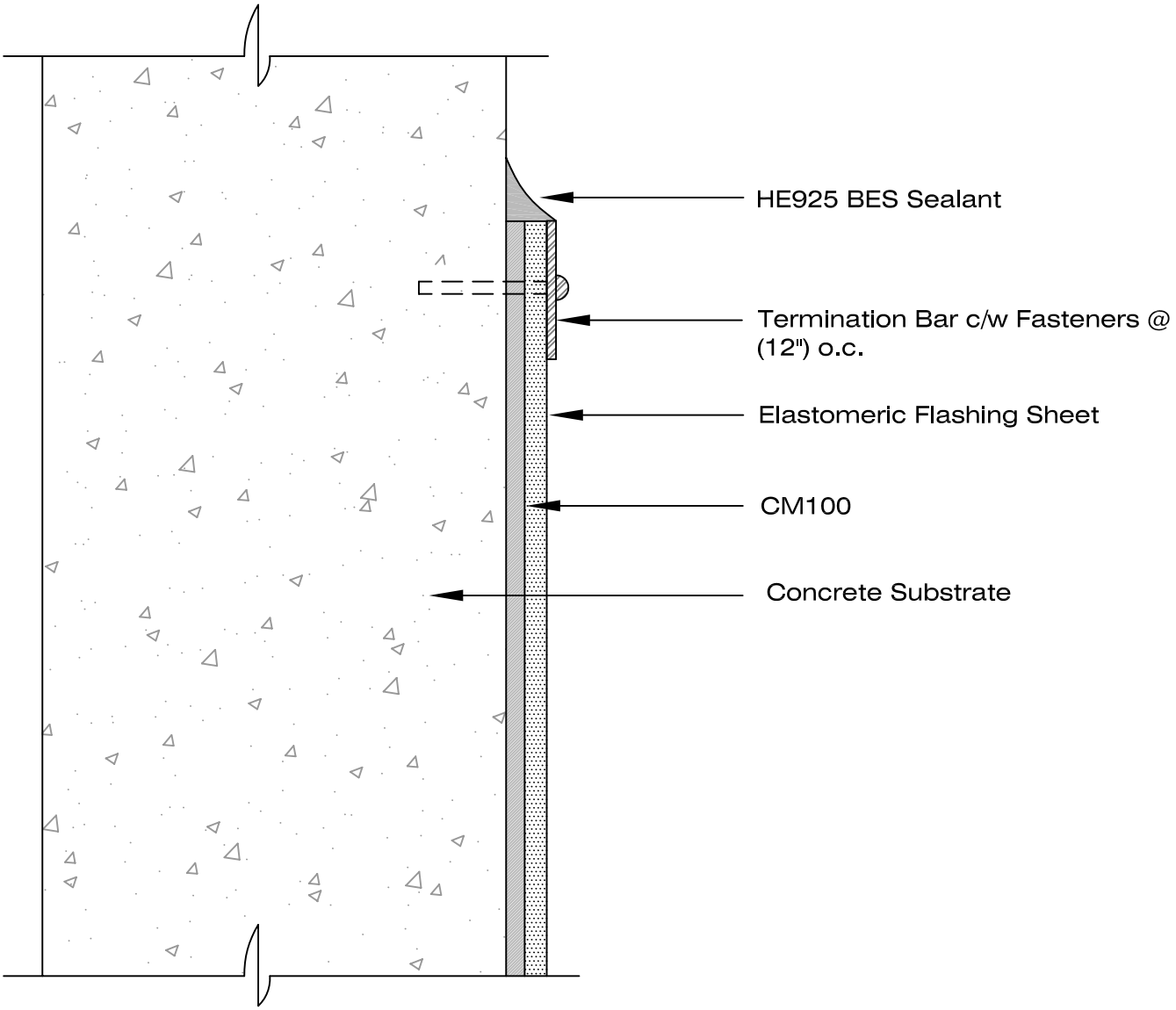
CM-HB14



Notes:

1. Follow appropriate codes for minimum vent height above roof deck.
2. Set vent flange in a bed of wet CM100 and allow to cure
3. Set elastomeric flashing sheet in a bed of wet CM100. Keep the elastomeric flashing sheet $\frac{1}{2}$" back from the vent stack and carry the CM100 membrane up the stack to ensure a complete seal. Allow CM100 to cure.
4. Coat elastomeric flashing sheet with CM100 and set polyester reinforcement inot wet CM100 and allow to cure.
5. Coat polyester reinforcement with CM100 and install protection course

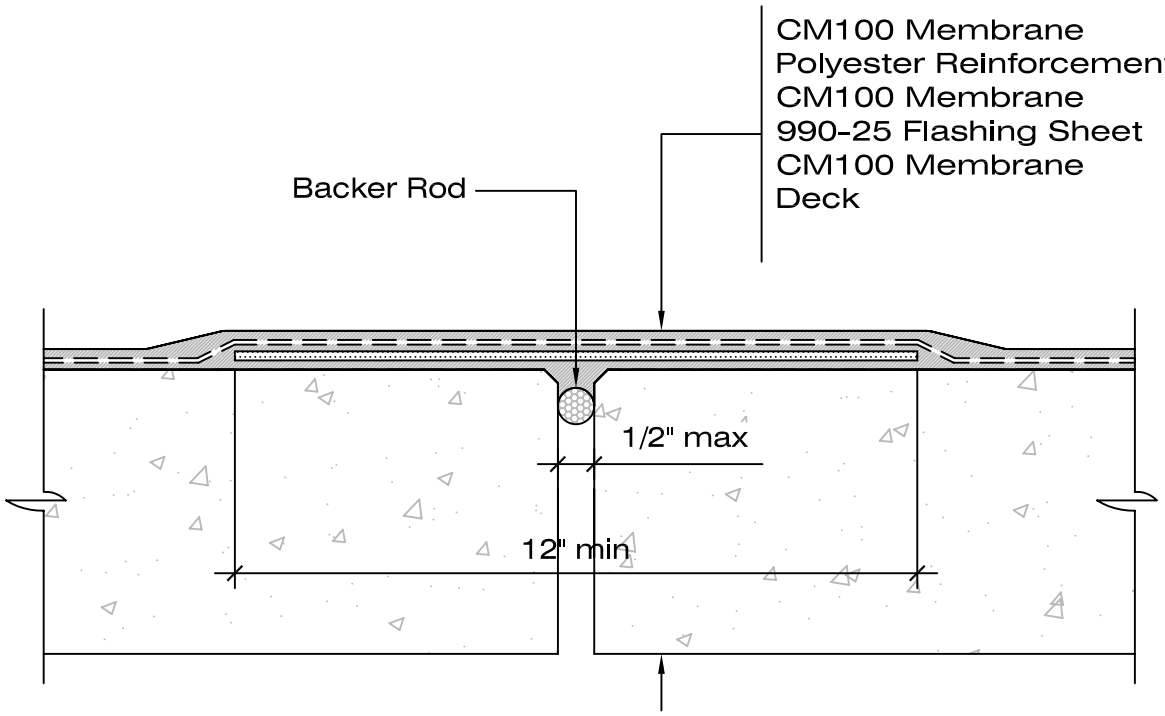
Henry COMPANY®	CM100 WATERPROOFING-HIGH BUILD SYSTEM	SCALE: N.T.S.
	NOT CAST-IN-PLACE	05-05-09
	VENT PROJECTION DETAIL	CM-HB15



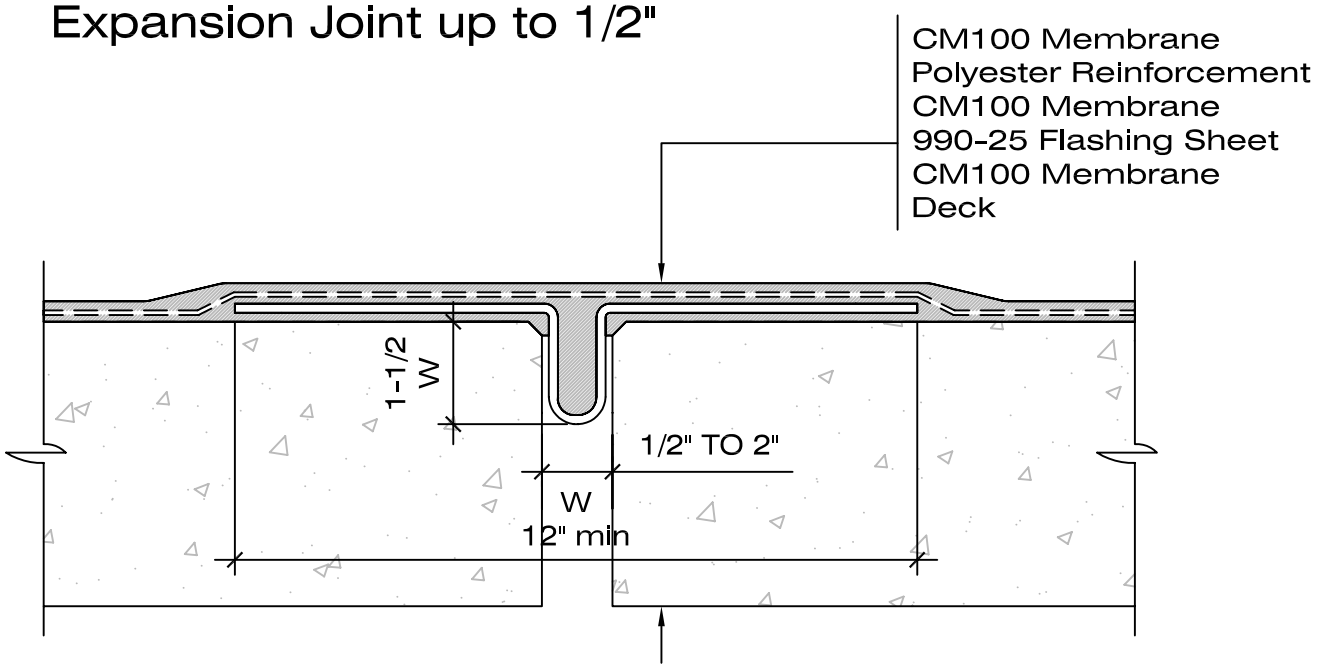
Notes:

1. Counter flashing, reglet and termination bar details are acceptable.
2. A termination bar must be used on all deck-to-wall expansion joint details.

Henry COMPANY® www.henry.com	CM100 WATERPROOFING	SCALE: N.T.S.
	CONCRETE SUBSTRATE	05-05-09
	TERMINATION BAR DETAIL	CM-HB16



Expansion Joint up to 1/2"



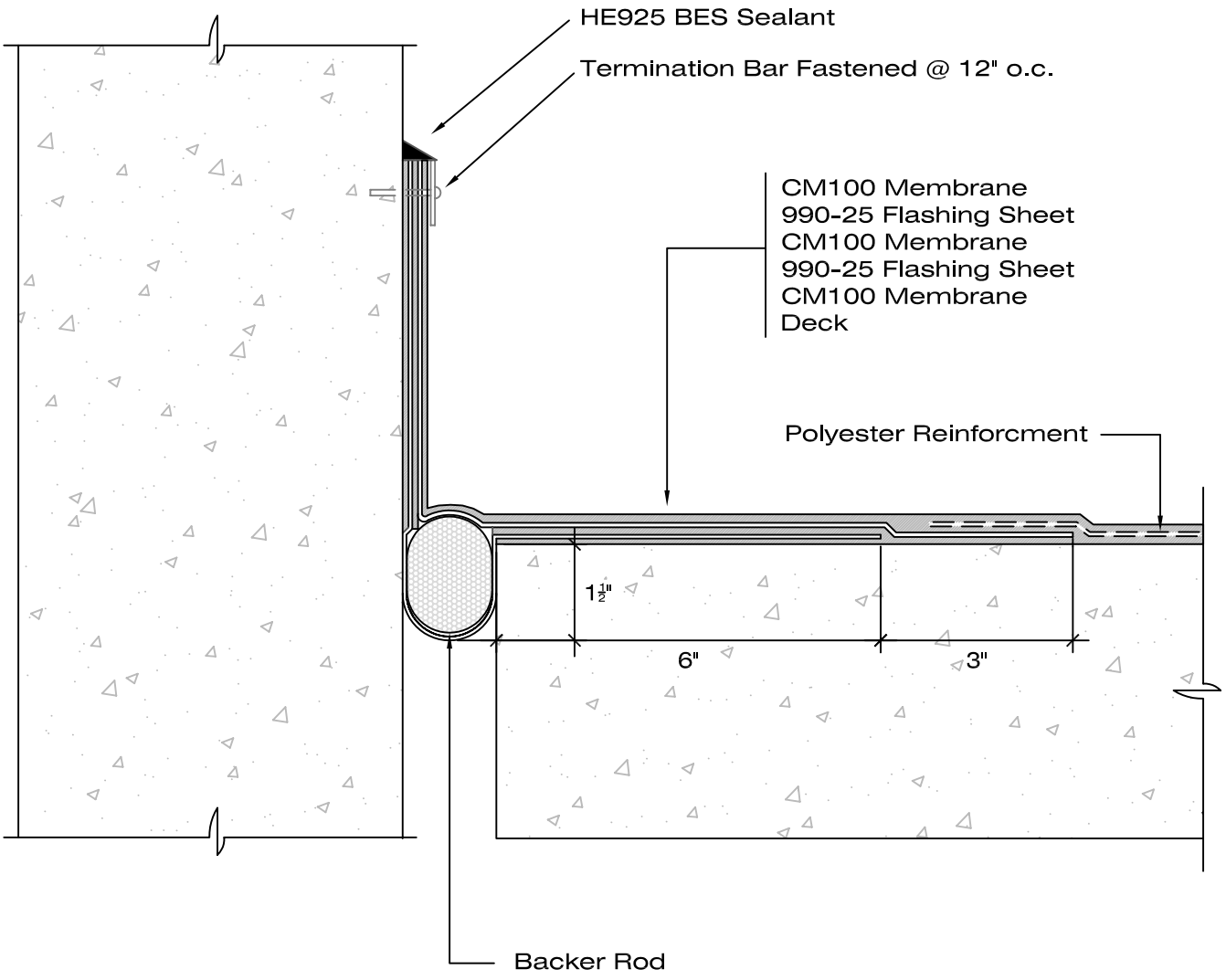
Expansion Joint 1/2" to 2"

Notes:

1. Where excessive movement or vibration is expected, the designer should consider using a termination bar, mechanically fastened through the flashing sheet 12" o.c. on both sides of the joint.
2. Protection Layer not shown for clarity.

Henry COMPANY
www.henry.com

CM100 WATERPROOFING - HIGH BUILD SYSTEM	SCALE: N.T.S.
DECK / DECK	08-13-10
EXPANSION JOINT DETAILS	CM-HB20



Expansion Joint Up To 2"

Notes:

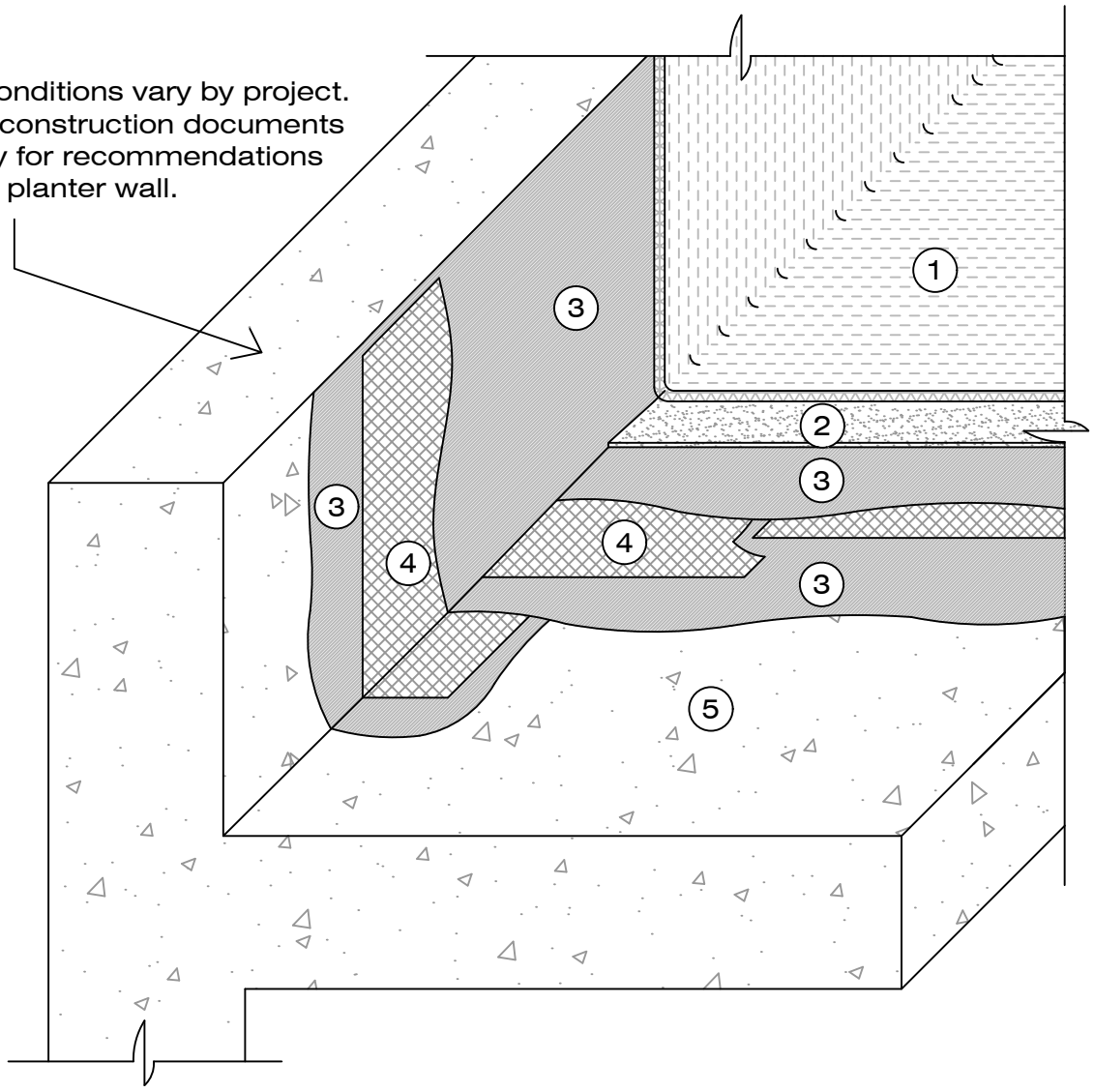
1. GR08 protection course is required but not shown for clarity.
2. Refer to Henry CM100 Guide Specification and Technical Data Sheet for applicaiton requirements.

Henry COMPANY®
www.henry.com

CM100 WATERPROOFING-HIGH BUILD SYSTEM	SCALE: N.T.S.
CONCRETE DECK	10-15-10
WALL EXPANSION JOINT DETAIL	CM-HB21

1. Henry Drain Board
2. GR08 Protection Course
3. CM100
4. Polyfab Reinforcing Fabric
5. Structural Concrete Deck

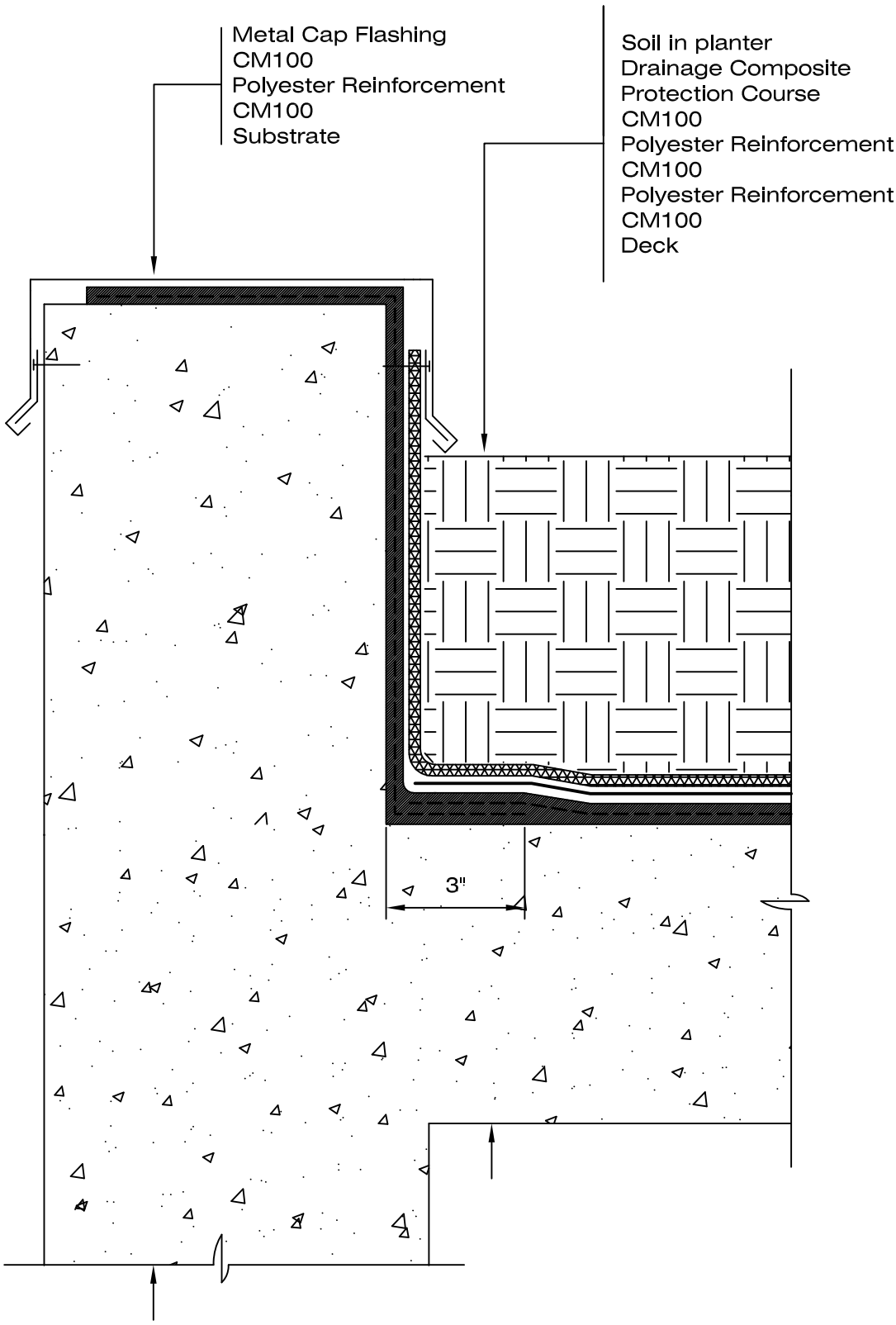
Top of planter conditions vary by project. Refer to project construction documents or contact Henry for recommendations regarding top of planter wall.



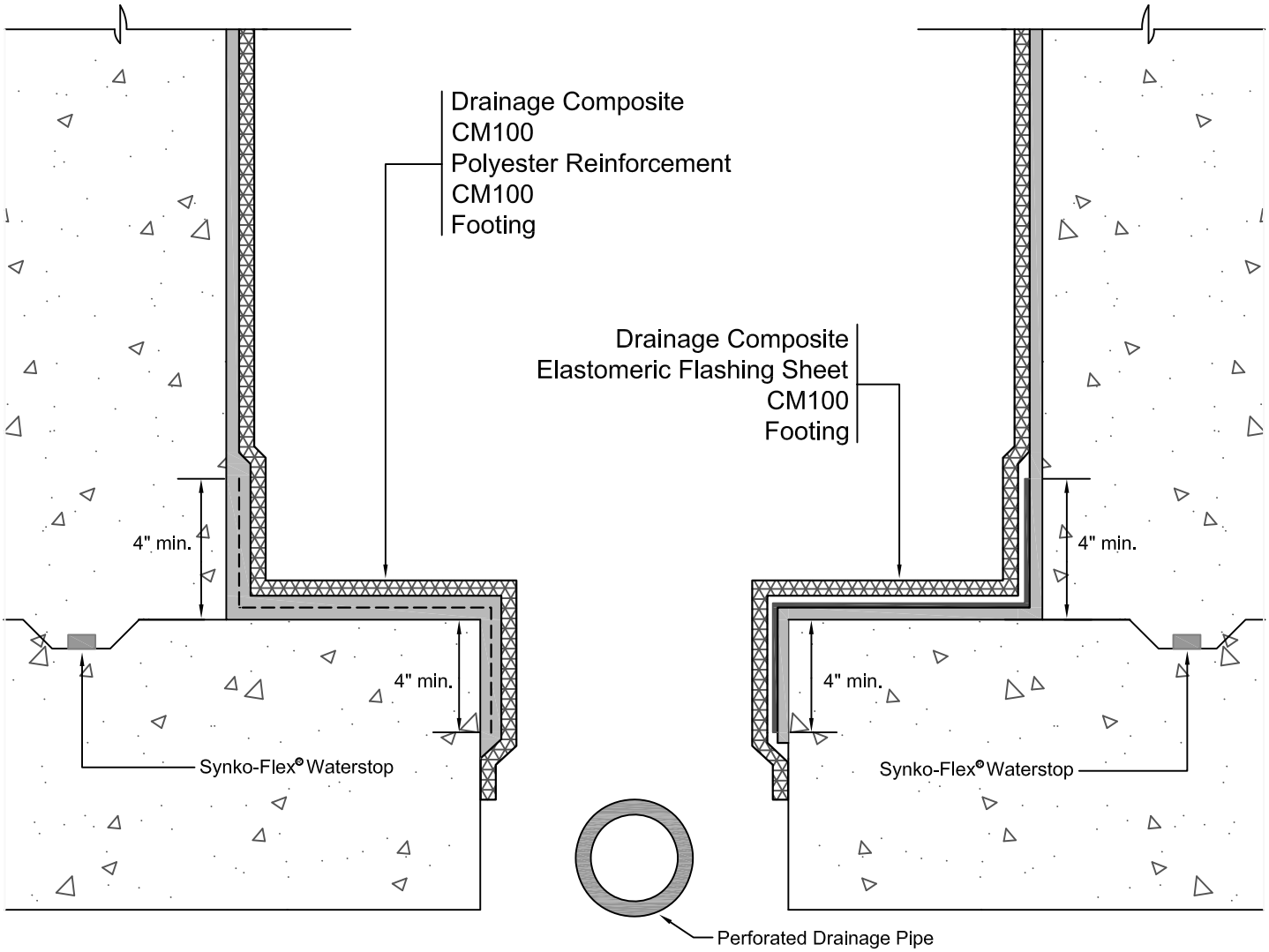
Notes:

1. System detail depicts 2 ply polyester reinforced CM100 membrane.
2. The polyester reinforcement overlaps approximately $\frac{1}{4}$". A coat of CM100 must be applied at the laps as shown.
3. Refer to Henry CM100 Guide Specification and Technical Data Sheets at www.henry.com for additional information.

Henry COMPANY®	CM100 MEMBRANE - HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED POLYESTER REINFORCED FLASHING	05-05-11
	PLANTER DETAIL	CM-HB22



Henry COMPANY®	CM100 MEMBRANE-HIGH BUILD SYSTEM	SCALE: N.T.S.
	CONCEALED POLYESTER REINFORCED FLASHING	05-21-11
	PLANTER DETAIL	CM-HB23



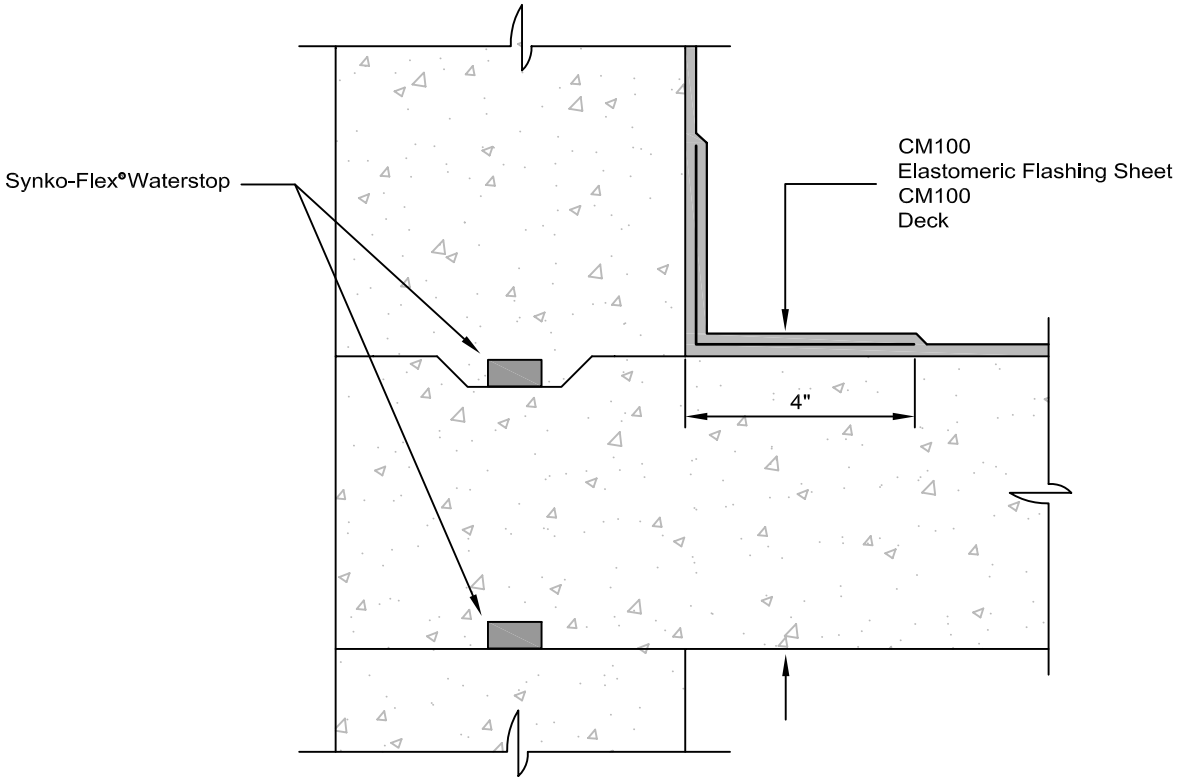
Polyester Fabric Joint Treatment

Elastomeric Flashing Joint Treatment

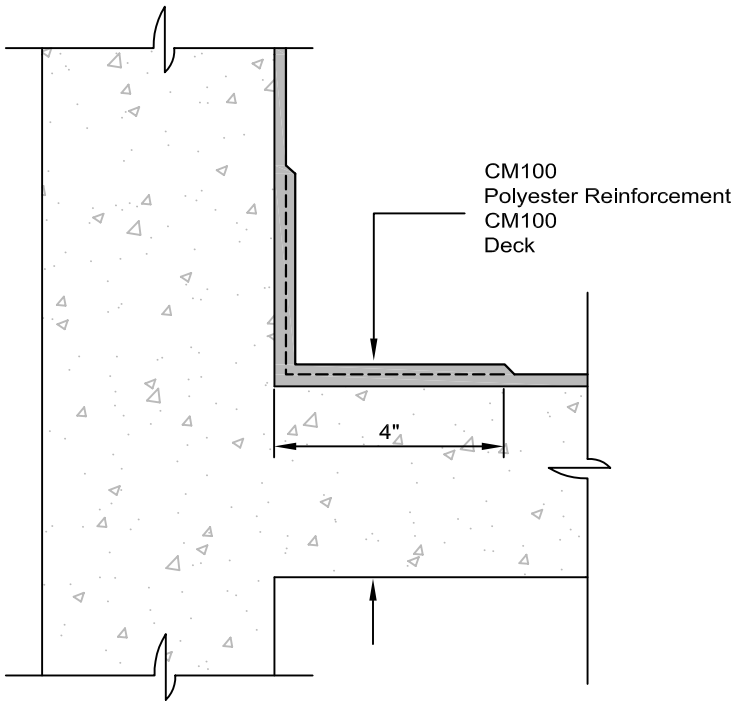
Notes

1. Polyester reinforcement or elastomeric flashing sheet to extend min. 4" beyond change of plane
2. Set polyester reinforcement or elastomeric flashing sheet in a bed of wet CM100 and allow to cure.
3. Coat polyester reinforcement with CM100 and allow to cure.

Henry COMPANY®	CM100 WATERPROOFING - SINGLE COAT SYSTEM	SCALE: N.T.S.
	TYPICAL DETAIL	05-05-09
	FOUNDATION WALL	CM-SC01



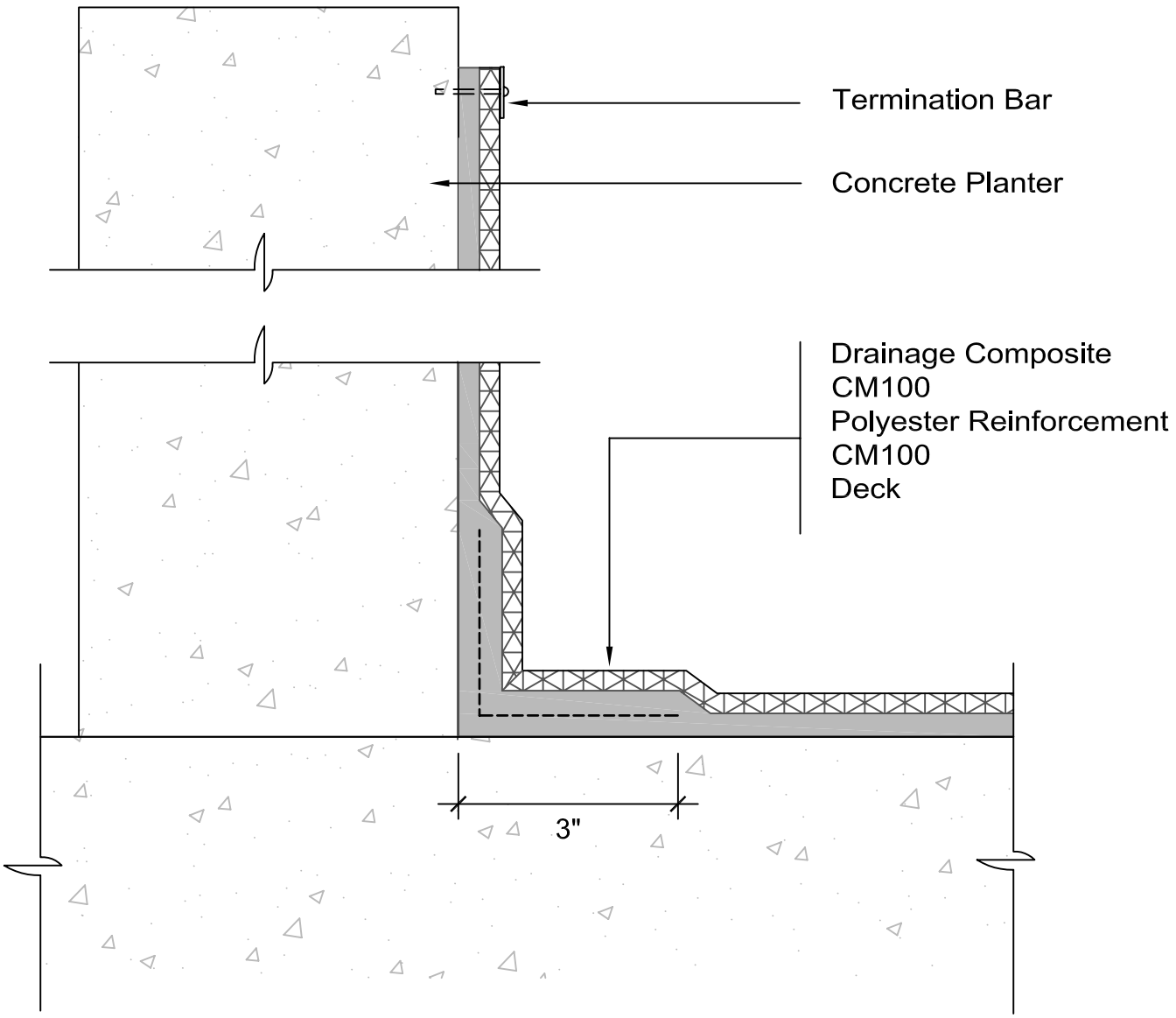
Non-Monolithic Deck to Wall Junction



Monolithic deck to Wall Junction

Henry COMPANY®
www.henry.com

CM100 WATERPROOFING- SINGLE COAT SYSTEM	SCALE: N.T.S.
CONCRETE DECK	05-05-09
CONSTRUCTION JT. DETAILS	CM-SC02



Note:

1. Polyester reinforcement to extend min. 3" over vertical and horizontal surface at change of plane.
2. Set polyester reinforcement into a bed of wet CM100 and allow to cure.
3. Apply CM100 onto polyester reinforcement and onto intended areas of planter.
4. Allow CM100 to cure.
5. Protection course or drainage composite required over completed membrane application.

Henry® COMPANY www.henry.com	CM100 WATERPROOFING - SINGLE COAT SYSTEM	SCALE: N.T.S.
	CONCRETE DECK	08-04-09
	PLANTER DETAIL	CM-SC03

Warranty #: SAMPLE
Issued:
Expiration:

HENRY COMPANY (“HENRY”)
5 YEAR EXTENDED MATERIAL WARRANTY
CM100® FAST CURING, ELASTOMERIC FLUID WATERPROOFING MEMBRANE (“PRODUCT”)

Building Name:
Building Location:
Building OWNER: (“OWNER”)
Date Product(s) Installation Completed:
Contractor:
Square Footage:

What This Limited Warranty Covers:

Commencing with the date of completion of installation of the Product(s) and continuing for the duration of this Warranty, if manufacturing defects in the Product(s) cause the Product(s) to not perform in conformance with the Product(s) label or tech data sheet, as published on www.henry.com at time of warranty issuance, or for its intended application, then HENRY at its sole option will, subject to the following section (What This Warranty Does Not Cover), either (1) refund OWNER’s original purchase price for the Product(s) prorated by the unused portion of the warranty term; or (2) provide the amount of Product(s) necessary to make repairs. Under option (1), during the first year after installation of the Product(s), HENRY will refund OWNER’s purchase price for the Product(s), exclusive of installation cost and minus any proration and costs previously incurred by HENRY for the replacement of Product(s) under this Warranty. After the first year, the purchase price to be refunded will be prorated by the remaining number of years of the Warranty term, minus any cost previously incurred by HENRY for the replacement of Product(s) under this Warranty.

Decisions as to the extent of repair or replacement required will be made solely by HENRY. The opinion of HENRY with respect to this matter shall be final. The remedy under this Warranty is available only for that portion of the Product(s) exhibiting defects at the time of the warranty claim. The replacement Product(s) as well as any remaining original Product(s) will be warranted only for the original warranty period. This limited warranty applies only to Product(s) used for an application specified by HENRY for the Product(s) and applied in strict accordance with HENRY published specifications, as published on www.henry.com in effect at the time of application. IF PRODUCT(S) IS USED FOR OTHER THAN A HENRY SPECIFIED APPLICATION, MISUSED OR ABUSED, IT IS SOLD AS IS AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

What This Warranty Does Not Cover:

This Warranty warrants that the Product(s) will be free from manufacturing defects which affect the ability of the Product(s) to perform in conformance with the Product(s) label or tech data sheet for its intended application during the Warranty Period; it is not a warranty that the Product(s) will never leak or age or to undertake responsibilities, liabilities or obligations other than those specifically identified in the preceding section.

The Contractor who installs the Product(s) is not a representative, agent or employee of HENRY. HENRY therefore is not bound by any representations made by the Contractor and does not warrant or guarantee the Contractor’s workmanship.

HENRY is not responsible or liable for: (a) personal injury or property damage of any kind, even if arising from a breach of this Warranty, (b) damage to the building, or to other components of the building or its contents, including mold, mildew or interruption or complete disruption in the use of the building, (c) expenses associated with installation, removal, excavation, or replacement of other materials, building assemblies, mechanical equipment or scaffolding in connection with accessing, testing, repairing, removal, or replacement of the Product(s), (d) change in color or other aesthetic diminution, and (e) damage to the Product(s) attributable to one or more of the following conditions:

1. Acts of God and natural calamities (including, but without limitation, lightning, Beaufort Scale 10 or higher winds, hurricane, tornado, hail, earthquake, flood, or other violent storm or casualty), impact of objects or damage to the Product(s) due to settlement, distortion, failure or cracking of the roof, deck, walls or foundation of the building, or for any splitting, cracking, blistering, delamination or separation of the Product(s) due to defect and/or failure of underlying materials not supplied by HENRY or for damage by foot traffic.
2. Civil insurrection, war, riot, terrorism, intentional destruction or vandalism.
3. Exposure to ionized radiation, contamination by radioactivity from any nuclear source, or bird droppings, chemical, or vermin attack on the Product(s).
4. Failure to timely report leaks or to repair leaks not covered by this Warranty.
5. Leaks caused by water entering from building components adjacent to the Product(s) or moisture migration either through or around other building components such as mechanical equipment, walls, copings, pitch pans and details which do not conform with HENRY details.
6. Installations on or through the Product(s) unless done in a manner prescribed and accepted by HENRY.
7. Repairs or alterations to the Product(s) that are not authorized first in writing by HENRY.
8. Inadequate drainage use within water retention tanks or exposure to constant immersion.
9. Normal wear and tear.

Obtaining Warranty Service:

If the Product(s) fails to perform in conformance with the Product(s) label or tech data sheet for its intended application, notify HENRY by email at warranty@henry.com, within 48 hours or within the next business day after discovery of any defect in the Product(s). The OWNER must give written notice to HENRY no later than thirty (30) days after a defect is discovered or should by reasonable diligence have been discovered. Claims under this Warranty will require proof of purchase by the OWNER. HENRY is not responsible for any claims without such proof of purchase. A purchase receipt or other proof of date of original purchase is required before warranty service is provided. Should the alleged failure or the remedy sought by the OWNER lie outside the scope of this Warranty, OWNER agrees to promptly reimburse HENRY for the cost of any investigation requested by OWNER, including remedy costs, plus a HENRY administrative fee of $250.00.

Time for Remedy:

HENRY shall have forty-five (45) days after receipt of written notification of a Product(s) defect to initiate either of the remedies contained in this Warranty unless prevented by acts of God or events beyond HENRY’s reasonable control.

Limitations and Exclusions:

TO THE EXTENT PERMITTED BY APPLICABLE LAW, HENRY DISCLAIMS ANY OTHER WARRANTY EXPRESS OR IMPLIED, THAN THAT PROVIDED FOR HEREIN. THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, GUARANTEES, CONDITIONS AND REPRESENTATIONS, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITIONS OR WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE HENRY PRODUCT(S). SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE

ABOVE LIMITATION MAY NOT APPLY TO YOU. HENRY DOES NOT AUTHORIZE ANY PERSON INCLUDING ITS REPRESENTATIVES, TO MAKE ANY REPRESENTATION OR TO OFFER ANY WARRANTY, CONDITION OR GUARANTY IN RESPECT OF THE PRODUCT(S) OTHER THAN THIS WARRANTY. THIS MATERIAL WARRANTY CANNOT BE MODIFIED EXCEPT IN WRITING SIGNED BY HENRY'S WARRANTY MANAGER. THIS LIMITED WARRANTY SHALL BE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST HENRY AND UNDER NO CIRCUMSTANCES SHALL HENRY BE LIABLE FOR AN AMOUNT GREATER THAN THE ACTUAL PURCHASE PRICE OF THE UNIT OR FOR ANY CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF USE, OR DAMAGE TO THE BUILDING OR ITS CONTENTS OR THE WATERPROOFING DECK. INCIDENTAL, CONSEQUENTIAL AND EXEMPLARY DAMAGES SHALL NOT BE RECOVERABLE EVEN IF THE REMEDIES OR THE ACTIONS PROVIDED FOR IN THIS WARRANTY FAIL OF THEIR ESSENTIAL PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. HENRY SHALL NOT BE LIABLE FOR ANY DAMAGES WHICH ARE BASED UPON NEGLIGENCE, GROSS NEGLIGENCE, BREACH OF WARRANTY, BREACH OF CONTRACT, STRICT LIABILITY OR ANY OTHER LEGAL THEORY OF LIABILITY OTHER THAN THE EXCLUSIVE LIABILITY SET FORTH IN THIS WARRANTY.

Conditions of Warranty:

HENRY's continuing liability under this Warranty is conditioned upon the following:

a) The Product(s) was stored, handled, applied and maintained in accordance with HENRY's instructions, recommendations and specifications in effect at the time of application;
b) The Product(s) and all components thereof have been sold by HENRY except where authorized by HENRY;
c) HENRY and the Contractor have been paid in full for the Product(s);
d) The Product(s) has not been altered, modified or repaired without prior written approval of HENRY;
e) The OWNER has notified HENRY in writing of any failure of the Product(s) covered by this Warranty within thirty (30) days following such failure;
f) There has been no misuse, abuse or negligence with respect to the Product(s) on the part of the OWNER, facility or mechanical tradesmen.

Transfer:

This Warranty is assignable conditioned upon prior written approval by HENRY. Such approval is subject to the terms, conditions and fees contained in HENRY's application for transfer of warranty.

Waiver:

HENRY's failure at any time to enforce or rely upon any of the terms or conditions stated herein shall not be construed to be a waiver of its rights hereunder.

OWNER's Agreement:

HENRY would not agree to assume the obligations contained in this Warranty in the absence of any of the limitations and exclusions contained herein. Therefore, (1) OWNER's agreement to each and every term of this Warranty is an essential condition precedent to HENRY's obligations hereunder; (2) in the absence of such agreement by the OWNER the Product(s) is sold AS IS AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; (3) failure of any condition precedent herein shall discharge HENRY from all further obligation under this Warranty, and the disclaimer herein of any other warranties, conditions and representations shall survive; and (4) by accepting or asserting any rights hereunder, OWNER irrevocably agrees to indemnify and hold harmless HENRY, its affiliates, successors, assigns, directors, officers, employees and agents (each an "Indemnified Party") from and against all claims, expenses (including attorney's fees and expenses), losses, liabilities and damages in any way related to or arising from matters described in the section of this Warranty entitled "What This Warranty Does Not Cover," and all amounts paid in defense of the foregoing which may be imposed upon, incurred by or asserted against an Indemnified Party by any person, firm or entity.

Except as otherwise expressly provided above, this Warranty shall be governed by and construed in accordance with the laws of the State of Texas without regard to conflict of law rules.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR COUNTRY TO COUNTRY, IF OUTSIDE OF THE UNITED STATES.

HENRY COMPANY

By: _____ Date: _____
Name:

NOTE: SAMPLE WARRANTIES ARE PROVIDED CONDITIONALLY AND SHOULD NOT BE CONSTRUED OR INTERPRETED AS A REPRESENTATION OR PROMISE THAT HENRY WILL IN FACT PROVIDE SUCH A WARRANTY FOR A SPECIFIC PROJECT. HENRY WARRANTIES ARE NOT VALID OR BINDING UNLESS AND UNTIL ALL OF HENRY'S REQUIREMENTS FOR WARRANTY ISSUANCE ARE MET AND A PROJECT-SPECIFIC WARRANTY IS ISSUED. HENRY RESERVES THE RIGHT TO MODIFY THE TERMS OF ITS SAMPLE WARRANTIES FOR ANY REASON, AT ANYTIME, WITH OR WITHOUT NOTICE. FOR MORE INFORMATION ABOUT HENRY'S REQUIREMENTS, PLEASE CONTACT THE HENRY WARRANTY DEPARTMENT AT WARRANTY@HENRY.COM.

Product Certification

Henry® CM100 Cold-Applied, Liquid Waterproofing Membrane

CM100 membrane is a high solids, fast curing, single component, solvent free, moisture cure compound manufactured and intended for use as waterproofing and roofing membrane on horizontal, vertical and below-grade surfaces.

CM100 is chemically compatible with the following commonly used Henry accessory products:

- Polyfab Reinforcing Fabric
- Noeflash Elastomeric Membrane
- 990-25 Elastomeric Membrane
- Pumadeq Liquid Membrane
- 925 BES Sealant
- GR08 Protection Course
- G100ss Protection Course*
- Henry Drain Board

*Must allow CM100 to cure prior to installation of G100ss

CM100 membrane is suitable for application to cast-in-place and precast concrete, CMU, glass faced exterior gypsum board, cement board, plywood, metal, and rigid PVC. Should CM100 be required to interface with products by others, submit a product data sheet and msds to Henry Company for evaluation and/or comment.

Henry Company has no objection to installation of CM100 membrane to non-sloped horizontal substrates and all slopes including vertical.

CM100 membrane has a maximum VOC content of <40 grams/Liter and complies with VOC regulations of all jurisdictions.

Each batch of CM100 is evaluated for compliance with the physical properties published on the Henry CM100 Technical Data Sheet. Additional information regarding CM100 is available at www.henry.com or upon request from Henry Product Support at 800-486-1278.

Henry® Company
999 N. Pacific Coast Highway, Suite 800
El Segundo, CA 90245
800-486-1278 | www.henry.com

LEED INFORMATION

PRODUCT: **CM100**

MR - CREDIT 4.x– RECYCLED CONTENT
RECYCLED CONTENT (POST-CONSUMER): **0**%

RECYCLED CONTENT (POST-INDUSTRIAL): **0**%

MR - CREDIT 5.x– REGIONAL MATERIALS
EXTRACTION SITE: **Raw materials are sourced to Henry from various North American sources and extraction site of raw materials may vary without notice. As a result, the extraction site of materials used to manufacture this product is undetermined.**

MANUFACTURING SITE: **Kimberton PA 19442**

MR- CREDIT 6 AND 7 – RAPIDLY RENEWABLE MATERIALS AND CERTIFIED WOOD
This product does not contain rapidly renewable materials or certified wood.

* IEQ– CREDIT 4.1 – ADHESIVES AND SEALANTS
VOC Content: < 40 g/L

IEQ– CREDIT 4.2 – PAINTS AND COATINGS
Product not applicable to this credit.