

790-11

Hot Applied Rubberized Asphalt Waterproofing/Roofing Membrane

Physical Properties: Complies with CAN/CGSB-37.50.

-Color	Black	-Water Vapor	3 mm (125 mils) film
-Solids Content	100%	Permeance (ASTM E96)	
-Rate of Application	Average 185 mils (4.5 mm)	Procedure E	1.0ng/Pa.m².s
	Minimum 125 mils (3 mm)		(0.016 perms)
	per single layer	-Chemical Resistance	Resists water, calcium
	215 mils (5 mm) total fabric		chloride, salt, mild acid and
	reinf. system		alkaline solutions. Non-
-Coverage	Approx. 0.73 lbs./ft2at .125"		resistant to oil, grease or
-Application temp.	No limit		solvents.
-Min. Service temp.	- 49°F	-Toughness	16.0J
-Heating Temp	356°F to 392°F	-Ratio of Toughness to	
-Setting Time	Immediate on cooling	Peak Load	0.050
-Low Temperature	No cracking	-Crack Bridging	pass
Flexibility and	No loss of adhesion	Capability	No cracking
Adhesion @ Minus 13°F	No delamination		No splitting
-Flow - 1/8"		-Heat Stability	No loss of adhesion
Film, 75 deg. angle, 5 hours	No flow	5h @ 390°F	Meets Flow, Penetration
@ 140°F		-Viscosity @ 390°F	Low Temp. Flex
-Penetration (cone)		-Fire Rating	4S
(ASTM D5329)			Classified by Underwriters
(0.10 mm)			Laboratories Inc.® for use in
@ 77°F	66		Class A Ballasted Systems.
@ 122ºF	155	-Recycled Content - per	•
-Water Absorption	+0.10 g	ISO 14021 and LEED	11% Post-consumer
-Flash Point (open cup)	555°F (291°C)	definitions	37% Pre-consumer
-Maximum V.O.C.	0 grams/liter	-Specific Gravity	1.23 +/- 0.03
	-		1.20 17 0.00

Description

790-11 is a hot applied, rubberized asphalt formulated to provide a monolithic fully bonded roofing and waterproofing membrane. It is hot poured in a single or fabric reinforced application. **790-11** is composed of a specially selected blend of refined asphalts, synthetic rubber and mineral stabilizers. It is modified with additives to promote adhesion and improve low temperature flexibility.

Features

- -Seamless application provides monolithic waterproofing.
- -Bridges non-working cracks up to 1/16" in width.
- -Full adhesion to deck restricts lateral water movement.
- -100% solids provides immediate cure on cooling.

Packaging

790-11 is packaged in standard 50 lbs poly lined boxes. Poly is designed to dissolve in melter. 35 lb boxes and metal drums (approximately 500 lbs) are regionally available on made-to-order basis.

Uses

Used as a waterproofing and roofing membrane on horizontal and vertical surfaces. Ideal for highway bridge decks, underground parking, ramps, podium decks, railway bridge decks, parking decks, plaza decks, tunnels, planters, reflective polls and protected roof membrane assemblies.

Limitations

Must be protected by appropriate overlay. Not intended for use as a permanently exposed surface, although it will tolerate foot and incidental, light, rubber-wheeled traffic when set. Contact **Henry** when using in direct contact with coal-tar pitch derivatives or products containing coal-tar pitch. Do not heat above 419°F. Do not melt in direct fired, single-wall kettles.

Preparation

Refer to Henry Waterproofing and Protected Membrane Roofing Guide Specification for detailed application information.

Acceptable substrates are cast-in-place and precast concrete, gypsum board and plywood. Joints, cracks and expansion joints must be treated as per detailed Guide Specifications. Lightweight concrete is not an acceptable substrate. Concrete toppings and cast-in-place concrete on vented metal pan decks require fabric-reinforced systems. Contact **Henry** for detailed specification.

Surfaces to be treated should be reasonably smooth. Concrete should have wood float or broom finish and be cured a minimum of 14 days. Steel float finishes are too smooth. Rough surfaces tend to promote air entrapment in the compound during application, which might result in pin holing through the waterproofing membrane. Such surfaces also require use of more material. Fabric reinforced systems overcome pin holing. Before application of hot rubberized asphalt, the substrate shall be clean and dry, free from surface water, ice, snow or frost, dust, dirt, oil, grease, curing compounds or any other foreign matter detrimental to the adhesion of the hot rubberized asphalt.

Apply **930-18 Primer** at 200-300 ft²/gal or **Henry 910-01 Primer** at 500ft²/gal according to local VOC regulations and project requirements, avoiding an excessive or over-spraying application. Thinning of primer not permitted by VOC regulations. Puddling of the primer is not permitted. The primer shall be dry before applying the hot rubberized asphalt. Gypsum board and plywood do not require a primer. Apply **Flashing Sheet** to all areas specified such as parapets, expansion joints, drains etc. following published guide specifications.

Application

Melt **790-11** in oil-jacketed kettle and bring to a temperature of 356°F to 392°F. Pour melted material on surface to be covered and spread to an average thickness of 185 mils and a minimum thickness of 125 mils using rubber squeegees. Fabric reinforced systems consist of two applications of **790-11** reinforced with **Polyester Fabric**. Apply first application at minimum thickness of 90 mils; embed fabric immediately overlapping a maximum of 1/4" ensuring full contact. Apply second application at a minimum of 125 mils thickness.

Protection

Both horizontal and vertical areas must be protected. **Henry modplus G100s/s** is used on horizontal surfaces. Asphaltic type protection boards must be used where asphalt paving will be installed directly over the protection layer.

Clean Up

Use waterless hand cleaner on skin. Citrus based cleaners on metal and other construction surfaces.

Caution

HOT ASPHALT AFTER MELTING! Contact with hot asphalt or applicator will cause burns. Avoid contact with all parts of body. Wear protective clothing at all times. **USE ONLY WITH ADEQUATE VENTILATION!** Avoid breathing fumes. Asphalt fumes are an irritant, and may contain traces of hydrogen sulfide. Fumes may cause irritation to eyes, nose, throat, respiratory tract, and skin. If you experience eye watering, headaches or dizziness, leave area or increase fresh air or wear respirator (NIOSH/MSHA TC 23C or equal).

KEEP OUT OF REACH OF CHILDREN.

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. <>



TECHNICAL DATA SHEET HE93018 - POLYMER MODIFIED ADHESIVE

Last Rev Date: 08/10/2010



Physical Properties

Application Temperature
May be applied at low temperatures
Color
Green
Drying Time @ 50% R.H. 68°F
Initial Set - 1 hr., Set through - 4 hrs.

Flammability Wet - flammable, Dry - burns
Maximum VOC 450 g/l
Service Temp -40°F to 176°F

Solids By Weight 30%
Weight Per Gallon 7.60 - 8.0 lbs.

Description

HE93018 - POLYMER MODIFIED ADHESIVE is a solvent based, synthetic rubber adhesive designed for use with thermofused SBS modified bitumen membranes and hot applied rubberized asphalt membranes. NOT TO BE SOLD IN SOUTHERN CALIFORNIA.

Usage

Used as an adhesive for thermofusible sheet membranes and hot applied rubberized asphalt membranes when applied to concrete, masonry, wood and metal surfaces.

Features:

- · Quick setting
- Polymer base provides adhesion of membranes
- Suitable for application at normal and low temperatures
- · Easily applied by brush, roller or light duty spray equipment

Coverage

200-300 sq. ft./gal. depending on porosity and texture of surface

Surface Preparation

Surfaces must be sound, well secured, dry and free from frost, dust, dirt, grease, oil or other contaminants.

Application

Do not thin. Apply by brush, roller or spray - avoiding overspray. Allow adhesive to dry prior to applying membrane.

Precautions

Solvent in product attacks polystyrene insulation. Avoid use where solvent odors may taint food or other susceptible products. Use in well ventilated areas. When transporting this product, be sure the container is secured and the lid is tight. Do not allow container to tumble as this may loosen the lid and allow leakage to occur.

Cleanup

Equipment can be cleaned with biodegradable terpene solvent or mineral spirits. Use care in handling solvents. Clean hands with a waterless hand cleaner.

Caution

CAUTION! FLAMMABLE LIQUID AND VAPOR! VAPOR HARMFUL! HARMFUL OR FATAL IF SWALLOWED. DO NOT THIN. Contains toluene. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights; turn off all stoves, heaters, electric motors, and other sources of ignition during use and until all vapors are gone. Do not heat container or store at

temperatures greater than 120°F. CLOSE AIR INTAKES until solvents dissipate. Contains volatile solvents that might contaminate potable water. Close container after each use. DANGER! HARMFUL OR FATAL IF SWALLOWED! If swallowed, do not induce vomiting. CALL PHYSICIAN IMMEDIATELY! May be harmful if absorbed through skin. Use protective measures to avoid contact with eyes and skin. In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION. USE ONLY WITH ADEQUATE VENTILATION. Avoid breathing of vapor. If you experience eye watering, headaches or dizziness, leave area or increase fresh air or wear respirator (NIOSH/MSHA TC 23C or equal). Repeated and prolonged occupational exposure to solvents can result in permanent brain and nervous system damage. Dispose of container and unused contents in accordance with Local, State and Federal regulations.

KEEP OUT OF REACH OF CHILDREN!

FOR EXTERIOR USE ONLY.

KEEP FROM FREEZING!

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

EMPLOYERS should obtain a copy of the Material Data Safety Sheet (MSDS) from your supplier or directly from the toll free number or website below.

Product Sizes

4.5 G/17L w/SPOUT (47 lb)

Limited Warranty

We, the manufacturer, warrant 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 AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.



SAFETY DATA SHEET

Issue Date 09-Jun-2015 Revision Date 09-Jun-2015 Version 1

1. IDENTIFICATION

Product identifier

Product Name 790-11 HOT RUBBERIZED ASPHALT

Other means of identification

Product Code BH79011C Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Waterproofing Membrane 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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Label elements

Emergency Overview

Warning

Hazard statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Appearance Black Physical state Solid Odor Sulfurous

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection 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 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 Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician 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)

Contact with product at elevated temperatures can result in thermal burns

Other Information

Respirable silica (quartz) is classified as carcinogenic by: IARC (Group 1 - human carcinogen); NTP (known carcinogen); and ACGIH (Group 2A - suspected human carcinogen). This product is in a form that makes exposure to respirable silica unlikely when it is applied as directed. IARC has classified occupational exposure to straight-run bitumen and their emissions during road paving as a carcinogen (category 2B - possibly carcinogenic to humans). Contact with hot product may cause thermal burns – consult SDS for additional first aid measures. Fumes from hot material can be unpleasant and may produce nausea, headaches and irritation of the upper respiratory tract. Substance may give off hydrogen sulfide (H2S) when heated which may collect in enclosed spaces. Exposure to H2S may result in respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat, and chest, confusion and unconsciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>

Chemical Name	CAS No.	Weight-%	Trade Secret
Asphalt, Petroleum (Residues)	64741-56-6	30 - 60	*
Calcium Carbonate	1317-65-3	30 - 60	*
Sulfur	7704-34-9	1 - 5	*
Silica, quartz	14808-60-7	0.1 - 1	*

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

4. FIRST AID MEASURES

Description of first aid measures

Eve contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Removal of solidified molten material from skin requires medical assistance. In case of burns,

immediately cool affected skin for as long as possible with cold water. For severe burns,

immediate medical attention is required.

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

CO2, dry chemical, dry sand, alcohol-resistant foam.

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 Wear protective gloves/protective clothing and eye/face protection. Ensure adequate

ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water.

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.

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/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust	
		(vacated) TWA: 5 mg/m³ respirable fraction	
Silica, quartz 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	(vacated) TWA: 0.1 mg/m³ respirable dust : (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust

Appropriate engineering controls

Engineering Controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear protective gloves and protective clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

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 Solid

Appearance Odor No information available Sulfurous

black Odor threshold No information available Color

Remarks • Method **Property** <u>Values</u>

pН No information available Melting point / freezing point No information available

BH79011C - 790-11 HOT RUBBERIZED ASPHALT

Cleveland Open Cup

Revision Date 09-Jun-2015

Boiling point / boiling rangeNo information available

Flash point

No information available

> 291 °C / > 556 °F

Evaporation rate

Flammability (solid, gas)

No information available
No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information availableVapor densityNo information available

Relative density 1.23 +/- 0.03 Water solubility Insoluble in water Solubility in other solvents No information available **Partition coefficient** No information available >290 °C / >550 °F **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** Not an explosive Oxidizing properties Not applicable

Other Information

Softening point
Molecular weight
VOC Content (%)
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.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2). Hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation May cause irritation of respiratory tract.

Eye contact Irritating to eyes.

Skin contact Irritating to skin. Causes burns.

Ingestion No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt, Petroleum (Residues) 64741-56-6	= 4320 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Sulfur 7704-34-9	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h
Silica, quartz 14808-60-7	= 500 mg/kg (Rat)	-	-

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 This product contains one or more substances which are classified by IARC as carcinogenic

to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic

to humans (Group 2B).

	()			
Chemical Name	ACGIH	IARC	NTP	OSHA
Asphalt, Petroleum (Residues) 64741-56-6	-	Group 2B	-	X
Silica, quartz 14808-60-7	A2	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

Oral LD50 9225 mg/kg **Dermal LD50** 4498 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

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

Not regulated MEX

ICAO (air) Not regulated

Not regulated IATA

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

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

Legend:

AICS

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Complies

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

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** Nο

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 the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Silica, quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Sulfur 7704-34-9	X	X	X
Silica, quartz 14808-60-7	Х	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

Health hazards 2 Instability 0 **Physical and Chemical** NFPA Flammability 1 Properties -

HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

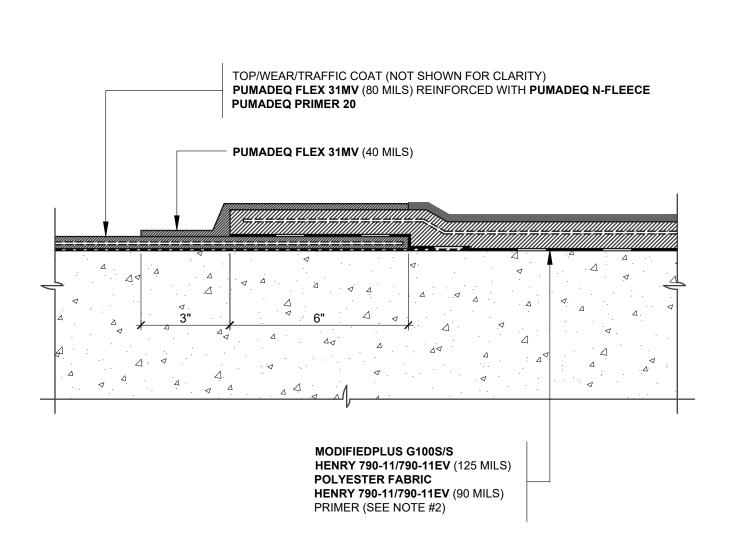
Issue Date 09-Jun-2015 **Revision Date** 09-Jun-2015 **Revision Note**

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



- 1. DETAIL SHOWS **HENRY 790-11/790-11EV** HOT RUBBERIZED ASPHALT WATERPROOFING ASSEMBLY TRANSITION WITH HENRY **PUMADEQ SYSTEM**. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- RECOMMENDED HENRY ADHESIVE/PRIMER FOR HENRY 790-11/790-11EV INCLUDE: HENRY 910-01 ASPHALT PRIMER
 OR HENRY 930-18 POLYMER MODIFIED ADHESIVE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET TO
 CONFIRM VOC COMPLIANCE.
- 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.
- 4. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- 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.
- REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



TIE-IN DETAIL

DISSIMILAR MATERIAL TRANSITIONS HENRY 790-11/790-11EV AND PUMADEQ SYSTEM

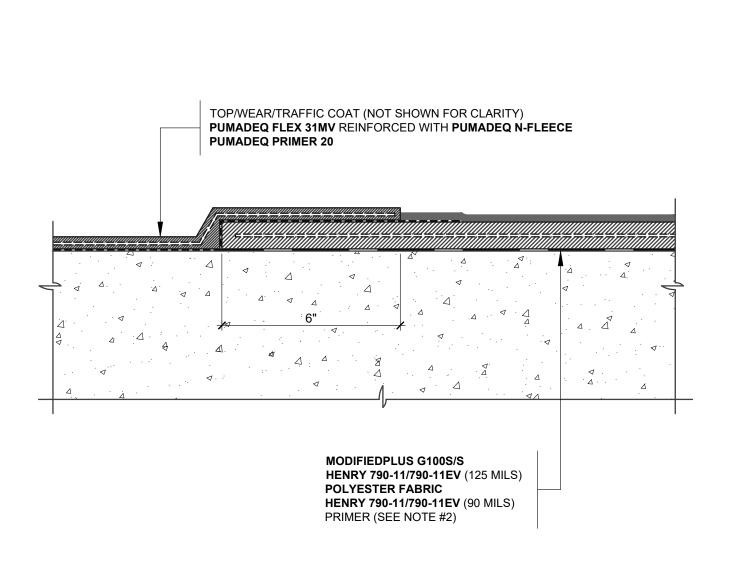
MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

SCALE: N.T.S.

07-08-2019

790-11-TID-3A1



- 1. DETAIL SHOWS **HENRY 790-11/790-11EV** HOT RUBBERIZED ASPHALT WATERPROOFING ASSEMBLY TRANSITION WITH HENRY **PUMADEQ SYSTEM**. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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 OR HENRY 930-18 POLYMER MODIFIED ADHESIVE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET TO
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- TRANSITION DETAIL IS SUITABLE FOR BOTH REINFORCED AND UNREINFORCED PUMADEQ SYSTEM FIELD
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 SYSTEM DETAILS FOR FURTHER CLARITY.
- 4. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- 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.
- REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



TIE-IN DETAIL

DISSIMILAR MATERIAL TRANSITIONS
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM

MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR

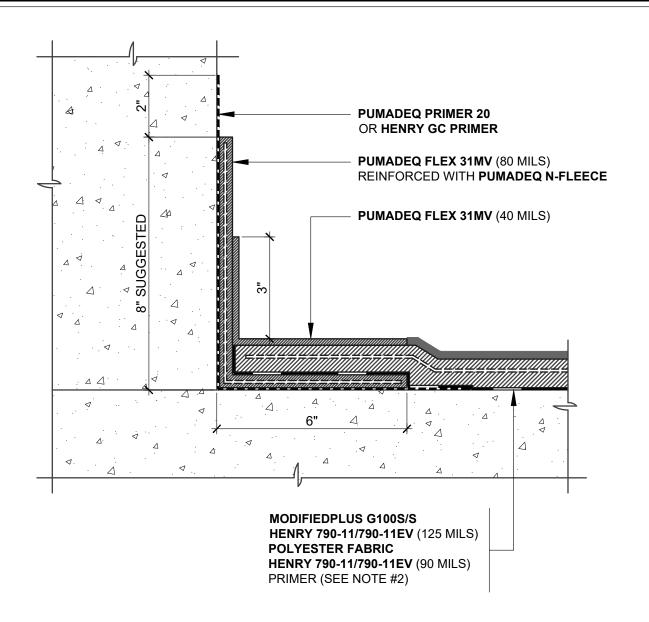
DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

SCALE: N.T.S.

07-08-2019

790-11-TID-3A2



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- RECOMMENDED HENRY ADHESIVE/PRIMER FOR HENRY 790-11/790-11EV INCLUDE: HENRY 910-01 ASPHALT PRIMER 2. OR HENRY 930-18 POLYMER MODIFIED ADHESIVE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET TO CONFIRM VOC COMPLIANCE.
- PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND PUMADEQ SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH PUMADEQ FLEX 31MV.
- 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.
- 6. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

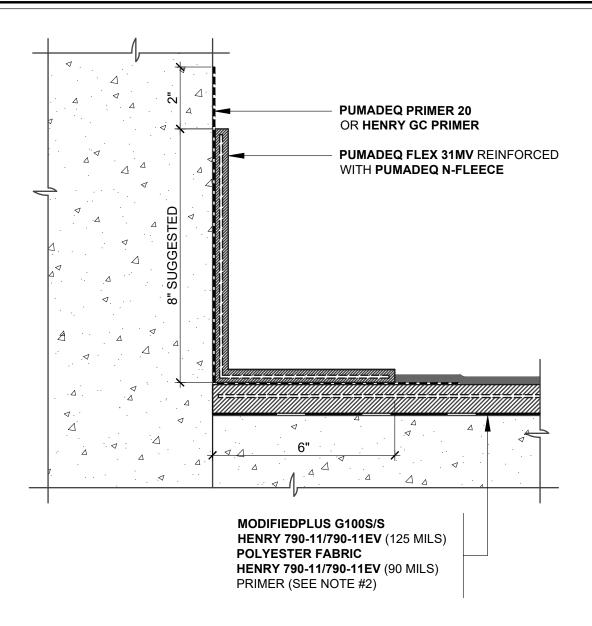
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CURB FLASHING

CORNER FLASHING AT UPTURN HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3C1



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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- 3. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
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HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

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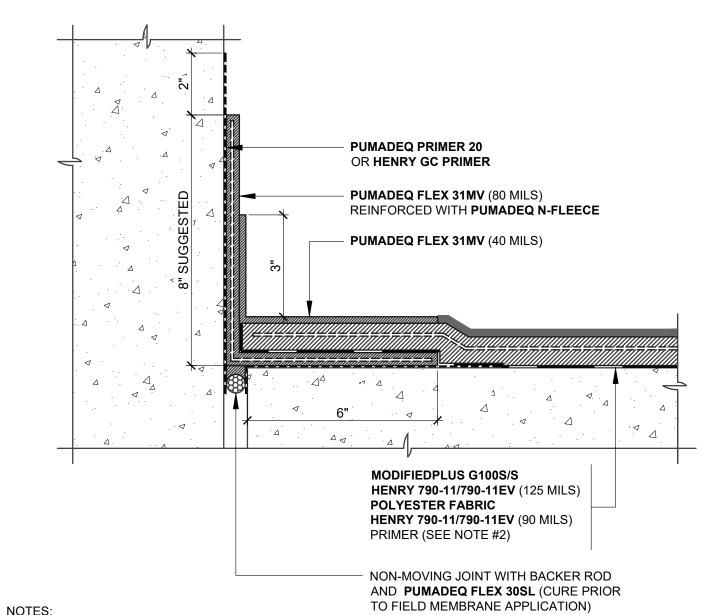
HENRI 790-11/790-11EV AND FOMADEQ 3131EM HE IN

CURB FLASHING

CORNER FLASHING AT UPTURN HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3C2



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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- 6. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



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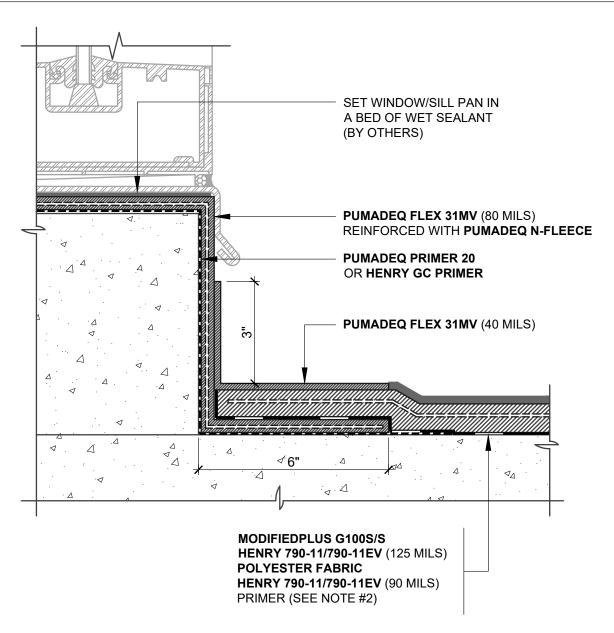
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

NON-MOVING JOINT

CORNER FLASHING AT UPTURN HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3C3



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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- 6. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



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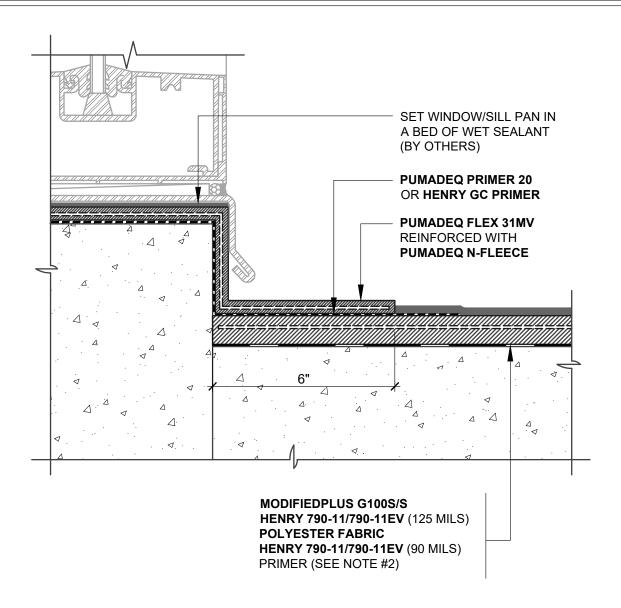
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT WINDOW SILL CURB HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3C4



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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- 4. BACK COAT FLEECE ON VERTICAL SUBSTRATE WITH **PUMADEQ FLEX 31MV**.
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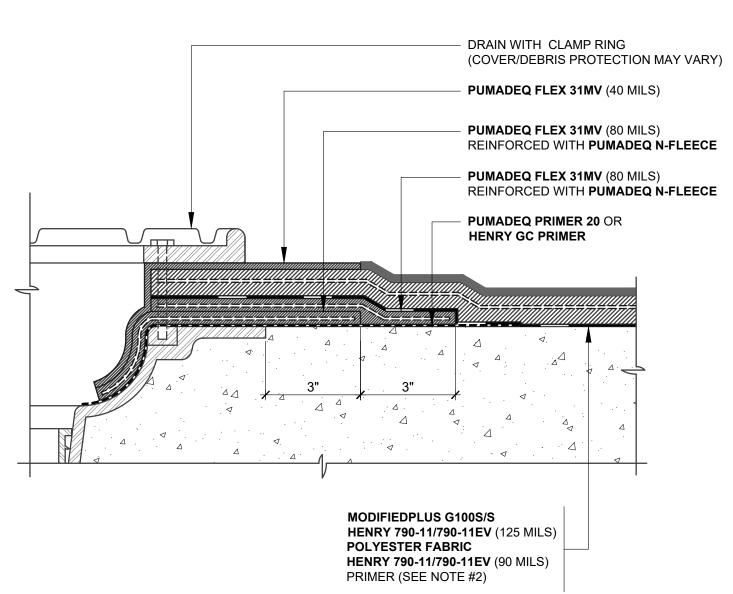
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

CURB FLASHING

CORNER FLASHING AT WINDOW SILL CURB HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3C5



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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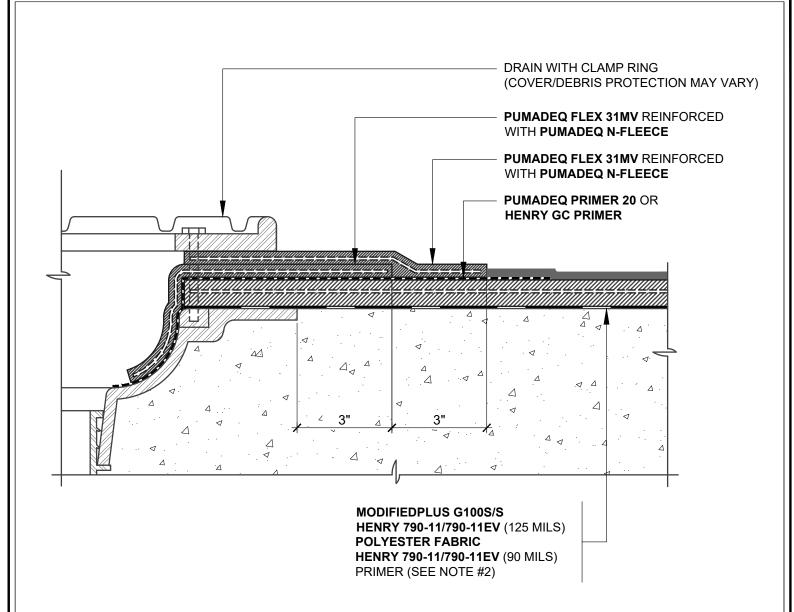
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

DRAIN -CLAMPING RING

FLASHING AT DRAIN WITH CLAMPING RING HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3D1



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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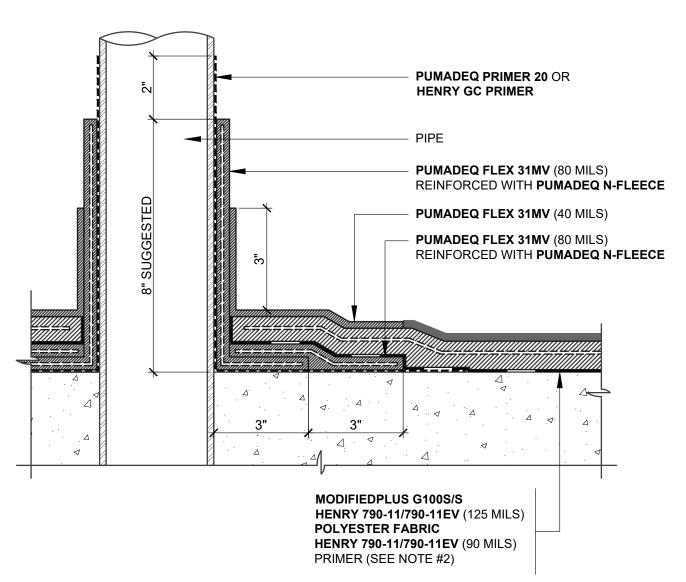
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

DRAIN -CLAMPING RING

FLASHING AT DRAIN WITH CLAMPING RING HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

07-08-2019

790-11-TID-3D2



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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 OR HENRY 930-18 POLYMER MODIFIED ADHESIVE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET TO
 CONFIRM VOC COMPLIANCE.
- 3. FORM A COOL SLEEVE AROUND PIPES HOTTER THAN 150 °F.
- 4. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
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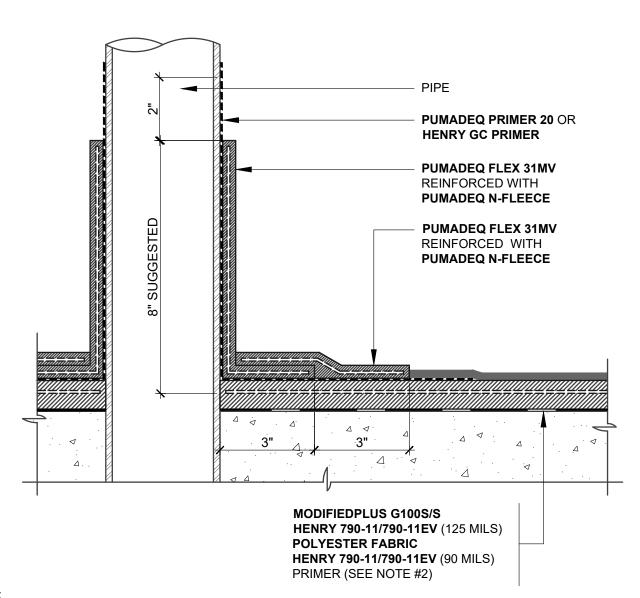
HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

PIPE PENETRATION

FLASHING ON A HORIZONTAL SUBSTRATE HENRY 790-11/790-11EV AND PUMADEQ SYSTEM SCALE: N.T.S.

08-26-2019

790-11-TID-3P1



- DETAIL SHOWS HENRY 790-11/790-11EV FIELD MEMBRANE WITH HENRY PUMADEQ SYSTEM FLASHING. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
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 OR HENRY 930-18 POLYMER MODIFIED ADHESIVE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET TO
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- FORM A COOL SLEEVE AROUND PIPES HOTTER THAN 150 °F.
- 4. PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND **PUMADEQ** SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
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HENRY 790-11/790-11EV AND PUMADEQ SYSTEM TIE IN

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HENRI 790-11/790-11EV AND FOMADEQ 3131EM HE IN

PIPE PENETRATION

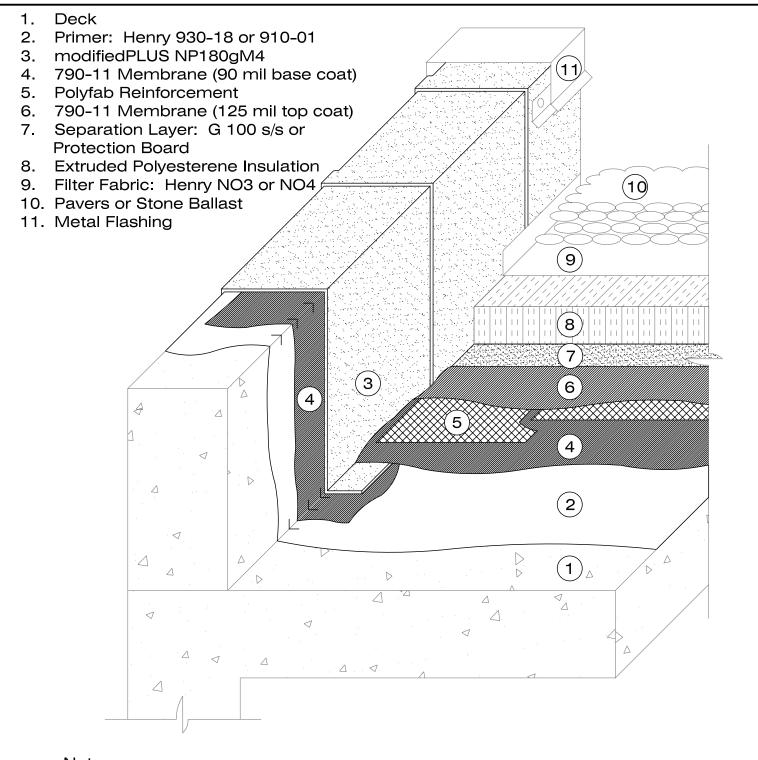
FLASHING ON A HORIZONTAL SUBSTRATE HENRY 790-11/790-11EV AND PUMADEQ SYSTEM

700 44 TID 0D0

07-08-2019

SCALE: N.T.S.

790-11-TID-3P2



- 1. System detail showing modifiedPLUS NP180gM4 modified bitumen sheet as the flashing membrane. The NP180gM4 is embedded in a 3mm (125mil) coat of 790-11 hot applied rubberized asphalt.
- 2. The modifiedPLUS NP180gM4 membrane has a ceramic granule surface whick is designed to be an exposed finished surface.



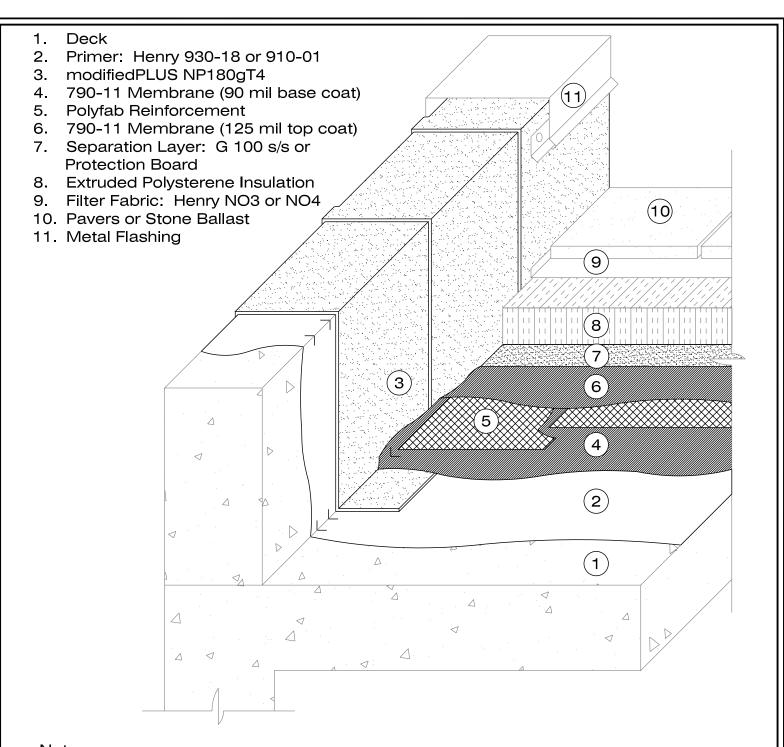
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

SBS FLASHING SYSTEM DETAIL



- System detail showing modifiedPLUS NP180gT4 modified bitumen sheet as the flashing membrane. The NP180gT4 is thermofused to the substrate prior to apllication of the 790-11 hot applied rubberized asphalt.
- 2. Drainage layers are optional on all 790-11 details and should be positioned abobe the insulation layer.
- The modifiedPLUS NP180gT4 membrane has a ceramic granule surface whick is designed to be an exposed finished surface.



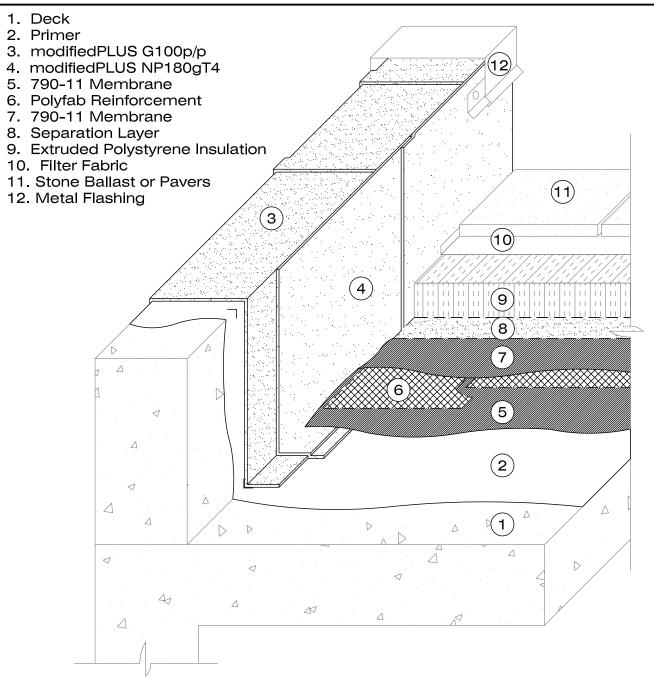
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

THERMOFUSED SBS SYS. DETAIL



- 1. System detail showing modifiedPLUS G100 p/p and a modifiedPLUS NP180gT4 cap sheet, as a two ply thermofused SBS modified bitumen membrane system.
- 2. The two SBS modified bitumen membranes are typically thermofused in place prior to applying the 790-11 membrane system.
- 3. The primers for the 790-11 and the modifiedPLUS membranes are the same. Use wither 930-18, a polymer modified primer, or 910-01, an asphalt pentrating primer.
- 4. Alternately, for wood parapet use modifiedPLUS NP180 Tack Sheet, a self-adhered base sheet, in place of the modifiedPLUS G100 p/p. Use 900-34 primer for the modifiedPLUS NP180 Tack Sheet.



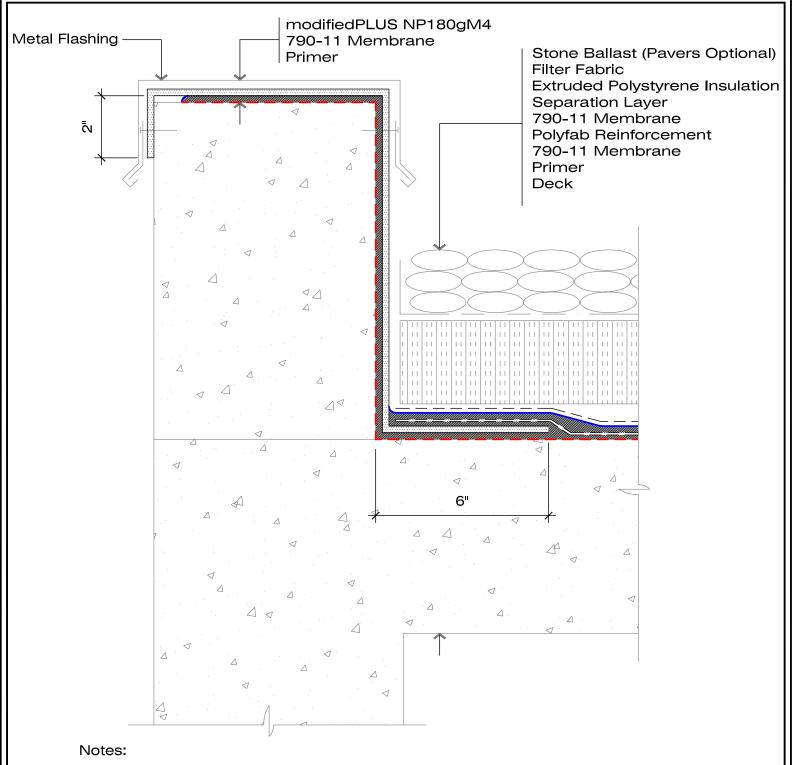
790-11 MEMBRANE P.M.R.ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

2-P THERMOFUSED SBS SYS. DETAIL



- 1. The modifiedPLUS membrane cap sheet must be mechanically fastened @ 8" o.c. along the outside area. Fasten on inside as required for metal flashing system.
- 2. Set granules in the modifiedPLUS NP180gM4 membrane using a heated trowel to improve the adhesion of the 790-11 membrane.
- 3. The modifiedPLUS NP180gM4 membrane has a ceramic granule surface which is designed to be an exposed finished surface.



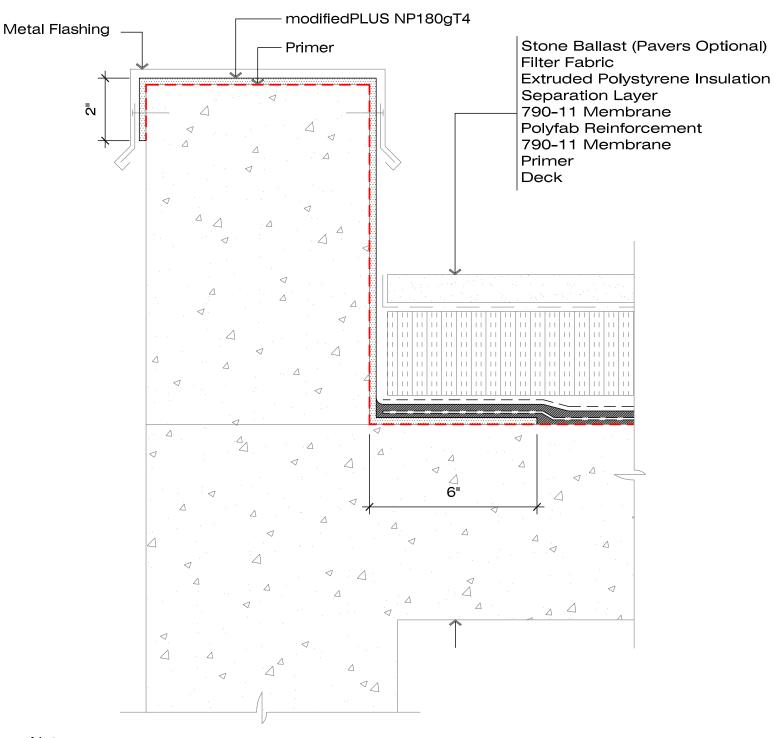
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

SBS FLASHING DETAIL



- 1. The modifiedPLUS NP180gT4 flashing membrane is thermofused to the primed substrate and can be left exposed.
- 2. The modifiedPLUS membrane must be mechanically fastened @ 8" o.c. along the outside face. Fasten on inside as required for metal flashing system.
- 3. Set granules in the modifiedPLUS NP180gT4 membrane using a heated trowel to improve adhesion of the 790-11 membrane.



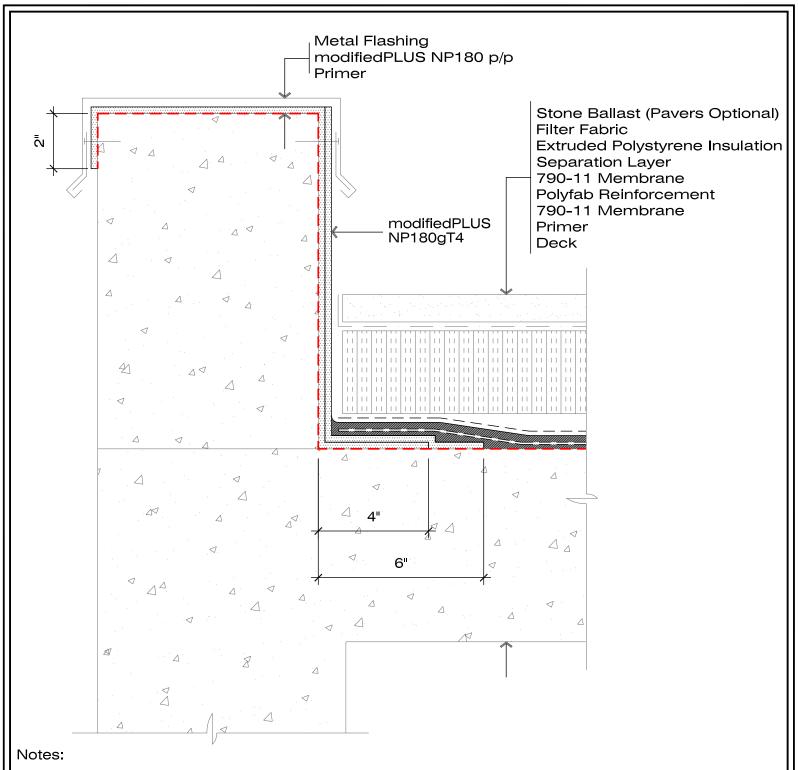
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

THERMOFUSED FLASHING DETAIL



- 1. The modifiedPLUS flashing membranes are thermofused to the primed substrate. The granulated cap sheet can be left exposed.
- 2. Alternatively, use modifiedPLUS NP180 Tack Sheet, a self-adhered base sheet flashing, and thermofuse the granulated cap sheet flashing over.
- 3. Prime with 930-18 or 910-01 when using thermofusible membrane. For self-adhered modifiedPLUS NP180 Tack Sheet use 930-18 primer.



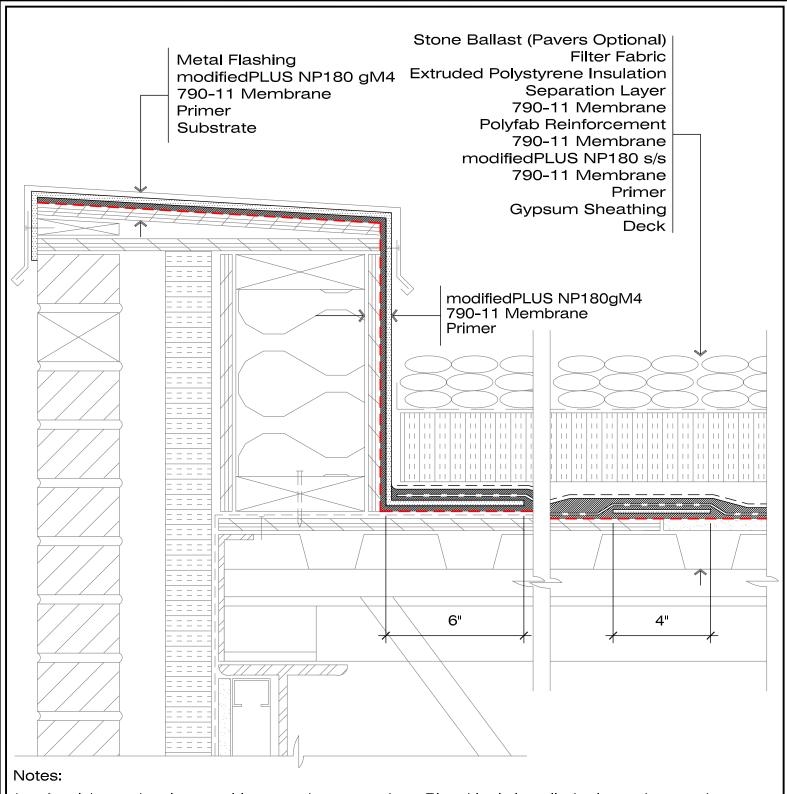
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - PARAPET

FIT TO PAPER

2-P THERMOFUSED FLASHING DETAIL



- An air/vapor barrier transition membrane, such as Blueskin, is installed prior to the wood parapet. This ties the 790-11 system into the wall air/vapor barrier to maintain contunuity.
- Alternatively, the joints in the gypsum board roof deck may also be treated with 4" BlueskinSA or Neoflash w/ adhesive, prior to applying the 790-11 membrane system.



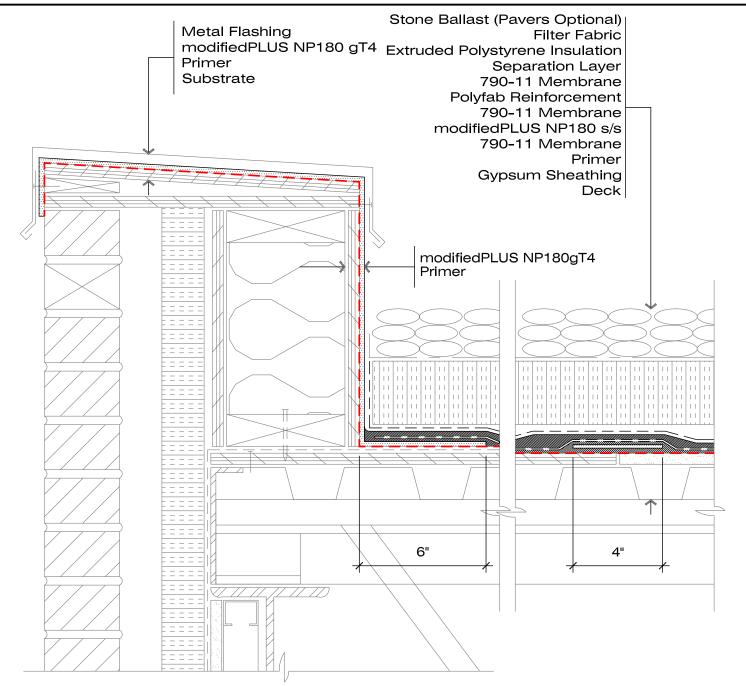
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

STEEL DECK / PLYWOOD PARAPET

FIT TO PAPER

SBS FLASHING DETAIL



- 1. The modifiedPLUS NP180gT4 flashing membrane is thermofused to the primed substrate and can be left exposed.
- 2. An air/vapor barrier transition membrane, such as Blueskin, is installed prior to building the wood parapet. This ties the 790-11 system into the wall air/vapor barrier to maintain continuity.
- 3. The modifiedPLUS membrane must be mechanically fastened at 8" o.c. along the outside face.
- 4. Set granules in the modifiedPLUS NP180gT4 membrane using a heated trowel to improve adhesion of the 790-11 membrane.
- 5. Alternatively, the joints in the gypsum board roof deck may also be treated with 4" Blueskin SA or Neoflash w/ adhesive, prior to applying the 790-11 membrane system.



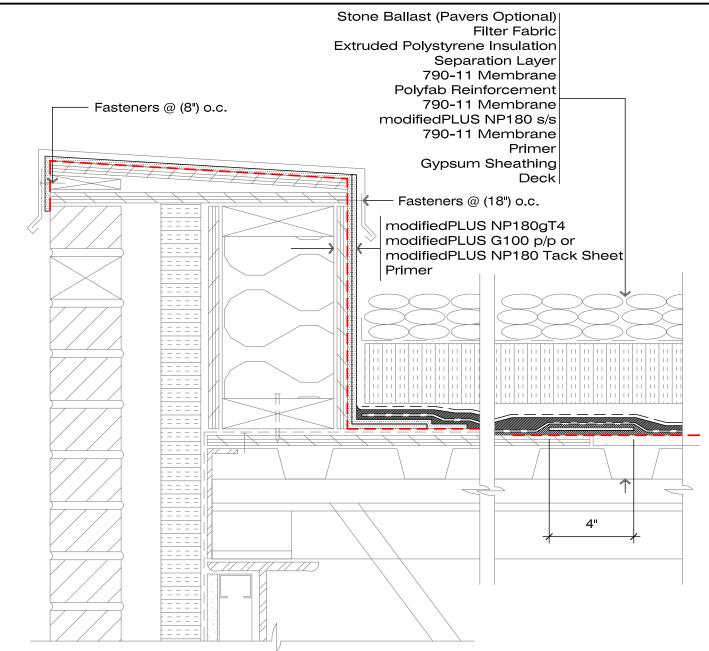
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

STEEL DECK / PLYWOOD PARAPET

FIT TO PAPER

THERMOFUSED FLASHING DETAIL



- System detail showing modifiedPLUS G100 p/p base sheet and a modifiedPLUS NP180gT4 cap sheet, a two ply thermofused SBS modified bitumen flashing membrane system.
- 2. The two SBS modified bitumen membranes are typically thermofused in place prior to applying the 7900-11 membrane system.
- 3. The primers for the 790-11 and modifiedPLUS membranes are the same. Use with either 930-18, a polymer modified primer, or 910-01, an asphalt penetrating primer.
- 4. Alternatively, for wood parapets, use modifiedPLUS NP180 Tack Sheet, a self-adhered base sheet, in place of the modifiedPLUS G100 p/p. Use 930-18 primer for the modifiedPLUS NP180 Tack Sheet.
- 5. The joint between the plywood roof deck and the gypsum board roof deck may be reinforced with a 6" strip of modifiedPLUS NP180 s/s set in hot rubber. Alternatively, the joints in the gypsum board roof deck may also be treated with 4" Blueskin SA or Neoflash w/ adhesive, prior to applying the 790-11 membrane system.



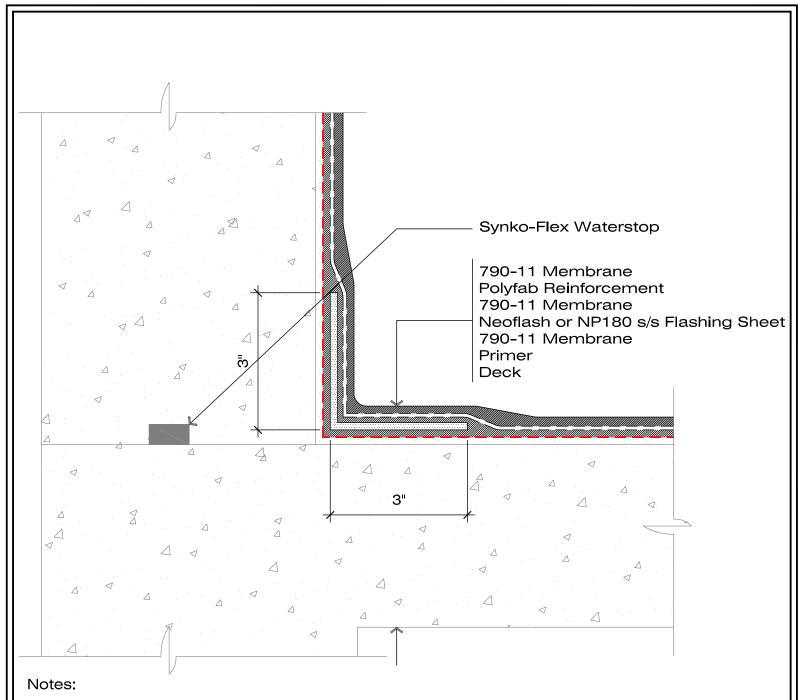
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

STEEL DECK - PLYWOOD PARAPET

FIT TO PAPER

2-P THERMOFUSED FLASHING DETAIL



- The flashing sheet must be either modifiedPLUS NP180 s/s or Neoflash Flashing Sheet.
- 2. The flashing sheet is set in a 125 mils bed of 790-11 prior to installing the membrane inthe field.
- 3. The first coat of 790-11 should be applied to a thickness of 90 mils min. prior to the application of the Polyester Fabric. the second coat is applied to a thickness of 125 mils min.

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COMPANY	

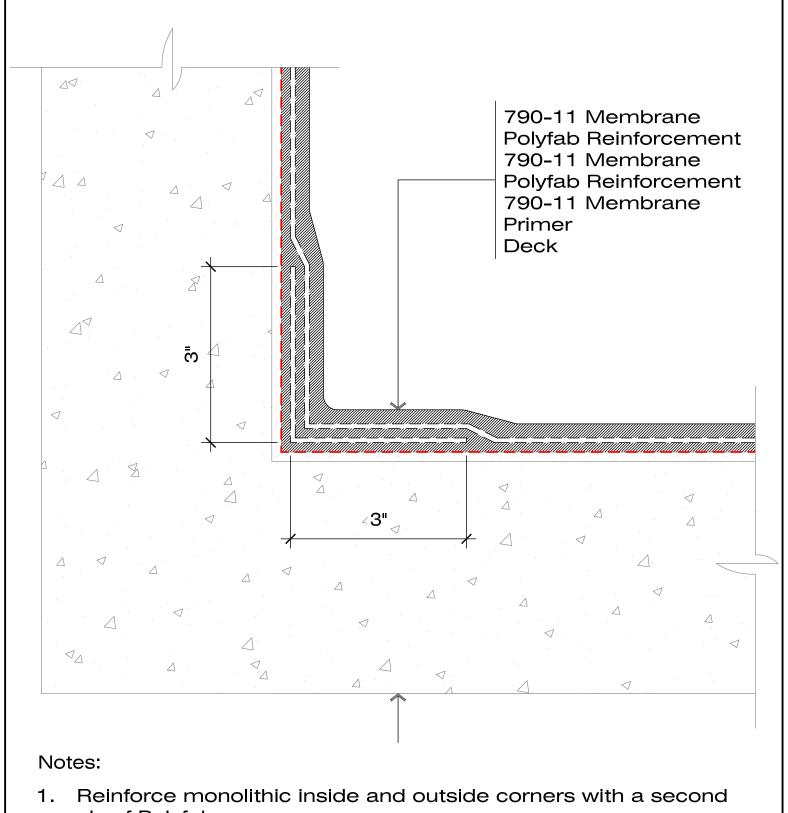
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

CONCRETE DECK - TRANSITION

FIT TO PAPER

CONSTRUCTION JOINT DETAIL



 Reinforce monolithic inside and outside corners with a second ply of Polyfab.



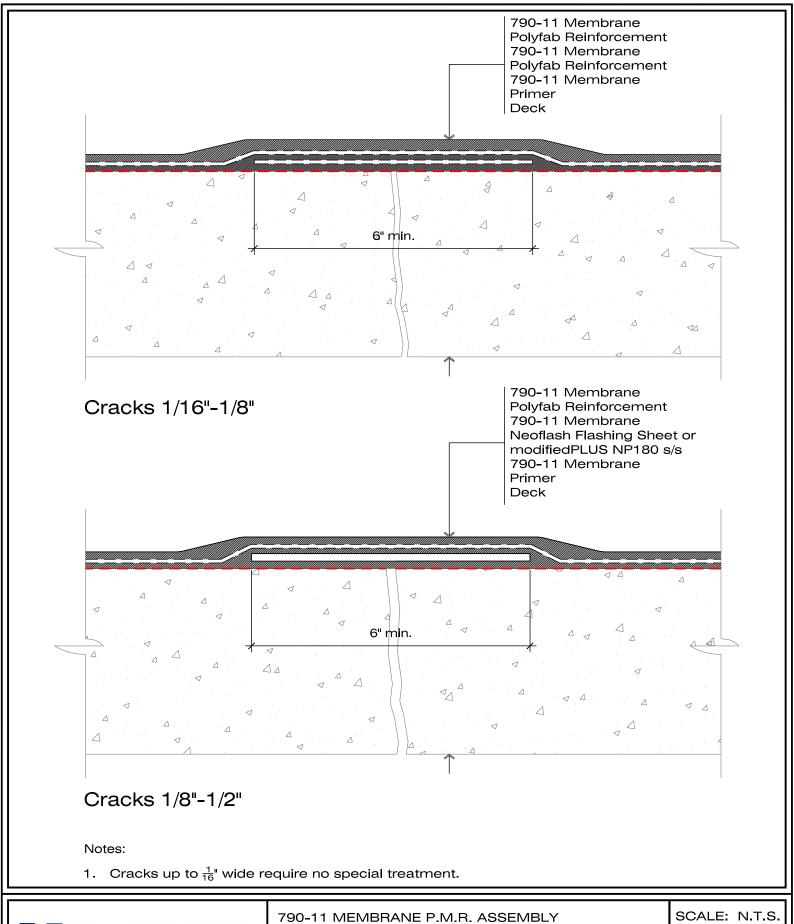
790-11 MEMBRANE P.M.R. ASSEMBLY

SCALE: N.T.S.

FIT TO PAPER

CONCRETE WALL - TRANSITION - PLAN VIEW

INSIDE CORNER DETAIL

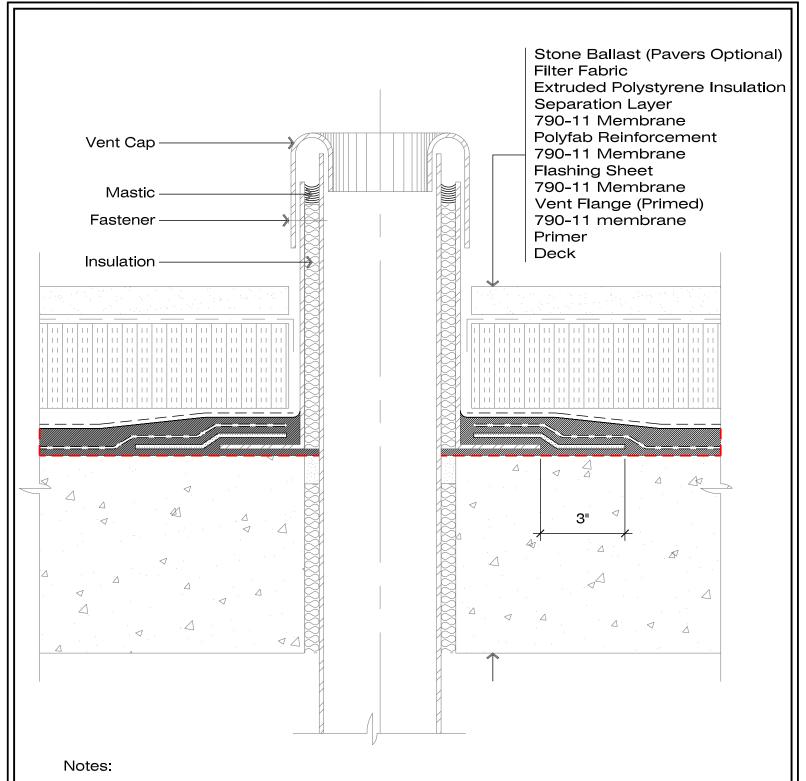




CONCRETE DECK - TRANSITION

FIT TO PAPER

CRACK TREATMENT



- 1. The flashing sheet can be either Neoflash or modifiedPLUS NP180 s/s.
- 2. Follow appropriate codes for minimum vent height above roof deck.
- 3. Keep the flashing sheet $\frac{1}{2}$ back from the vent stack and carry the 790-11 membrane up to the stack to ensure a complete seal.



790-11 MEMBRANE P.M.R. ASSEMBLY

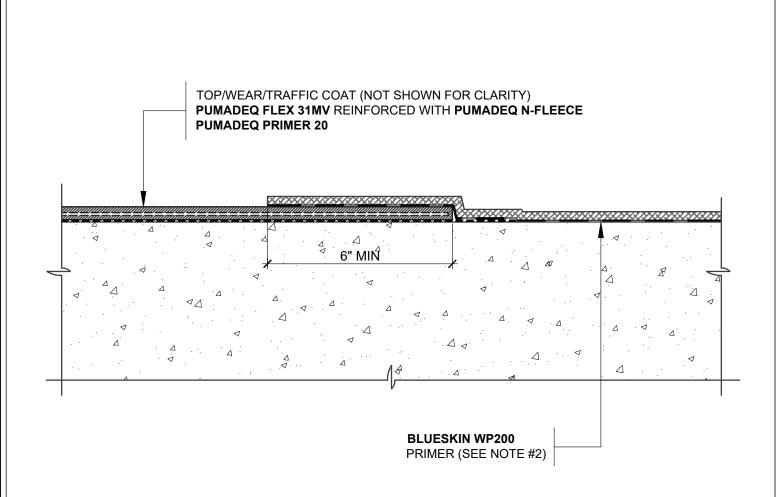
SCALE: N.T.S.

CONCRETE DECK - TRANSITION

FIT TO PAPER

VENT/PROJECTION DETAIL

HR-H120



- 1. DETAIL SHOWS HENRY **BLUESKIN WP200** SELF-ADHERED WATERPROOFING TRANSITION WITH HENRY **PUMADEQ SYSTEM**. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- REFER TO THE BLUESKIN WP200 TECHNICAL DATA SHEET FOR PRIMER RECOMMENDATIONS.
- 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.
- PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND PUMADEQ SYSTEM APPLICATION IN ACCORDANCE WITH HENRY PUMADEQ SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- 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.
- 6. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

PUMADEQ SYSTEM TIE-IN TO BLUESKIN WP200

TIE-IN DETAIL

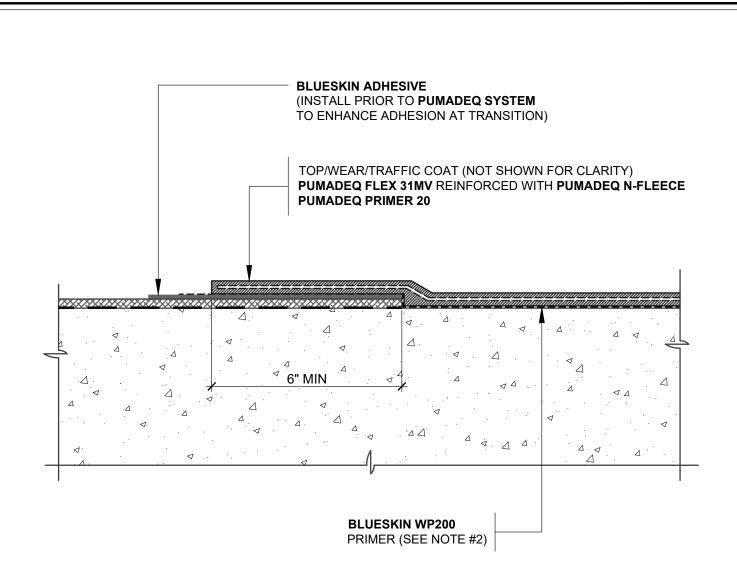
DISSIMILAR MATERIAL TRANSITIONS PUMADEQ SYSTEM AND BLUESKIN WP200

SCALE: N.T.S.

07-08-2019

PMDQ-TID-A3A

999 N. Pacific Coast Highway, Suite 800 El Segundo, CA 90245 800-486-1278 • www.henry.com



- DETAIL SHOWS HENRY BLUESKIN WP200 SELF-ADHERED WATERPROOFING TRANSITION WITH HENRY PUMADEQ SYSTEM, SUBSTRATE SHOWN IS FOR REFERENCE ONLY, REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- REFER TO THE BLUESKIN WP200 TECHNICAL DATA SHEET FOR PRIMER RECOMMENDATIONS. 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.
- PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND PUMADEQ SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- 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.
- REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES. 6.



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MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

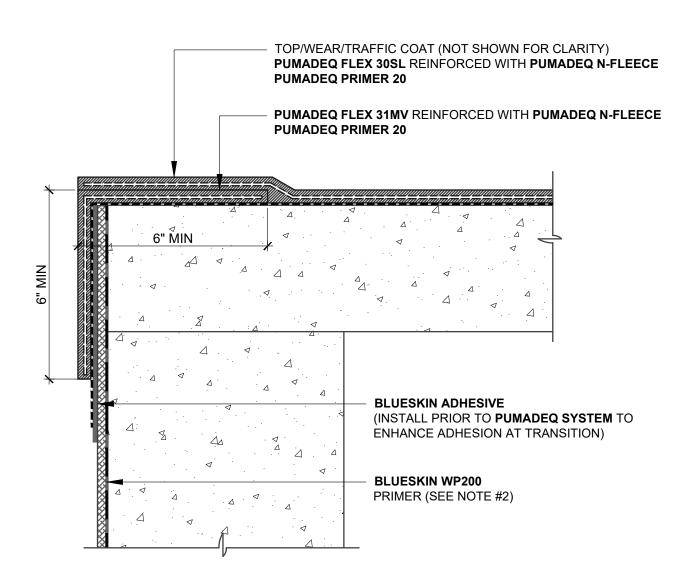
PUMADEQ SYSTEM TIE-IN TO BLUESKIN WP200

TIE-IN DETAIL

DISSIMILAR MATERIAL TRANSITIONS PUMADEQ SYSTEM AND BLUESKIN WP200 SCALE: N.T.S.

07-08-2019

PMDQ-TID-A3B



- DETAIL SHOWS HENRY BLUESKIN WP200 SELF-ADHERED WATERPROOFING TRANSITION WITH HENRY PUMADEQ SYSTEM. SUBSTRATE SHOWN IS FOR REFERENCE ONLY. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- REFER TO THE BLUESKIN WP200 TECHNICAL DATA SHEET FOR PRIMER RECOMMENDATIONS. 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.
- PREPARE AND PRIME VERTICAL SUBSTRATES A MINIMUM 2" BEYOND PUMADEQ SYSTEM APPLICATION IN ACCORDANCE WITH HENRY **PUMADEQ** SYSTEM SUBSTRATE PREPARATION GUIDELINES.
- 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.
- 6. REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



PUMADEQ SYSTEM TIE-IN TO BLUESKIN WP200

MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

TIE-IN DETAIL

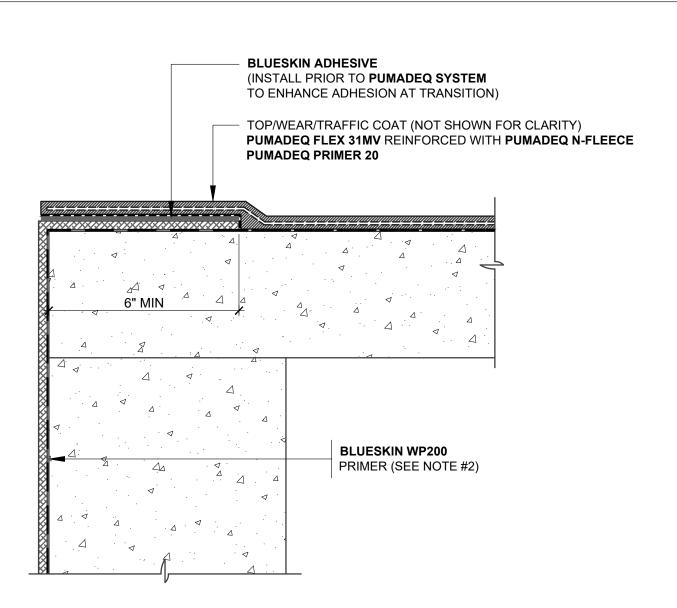
PUMADEQ SYSTEM AND BLUESKIN WP200 CORNER FLASHING AT DOWNTURN

SCALE: N.T.S.

PMDQ-TID-A3C

07-08-2019

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- DETAIL SHOWS HENRY BLUESKIN WP200 SELF-ADHERED WATERPROOFING TRANSITION WITH HENRY PUMADEQ SYSTEM, SUBSTRATE SHOWN IS FOR REFERENCE ONLY, REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR AUTHORIZED SUBSTRATES.
- REFER TO THE BLUESKIN WP200 TECHNICAL DATA SHEET FOR PRIMER RECOMMENDATIONS. 2.
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- REFER TO PRODUCT SPECIFIC GUIDE SPECIFICATION FOR RECOMMENDED INSTALLATION PROCEDURES.



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PUMADEQ SYSTEM TIE-IN TO BLUESKIN WP200

MANUFACTURER GUIDE DETAILS ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION.

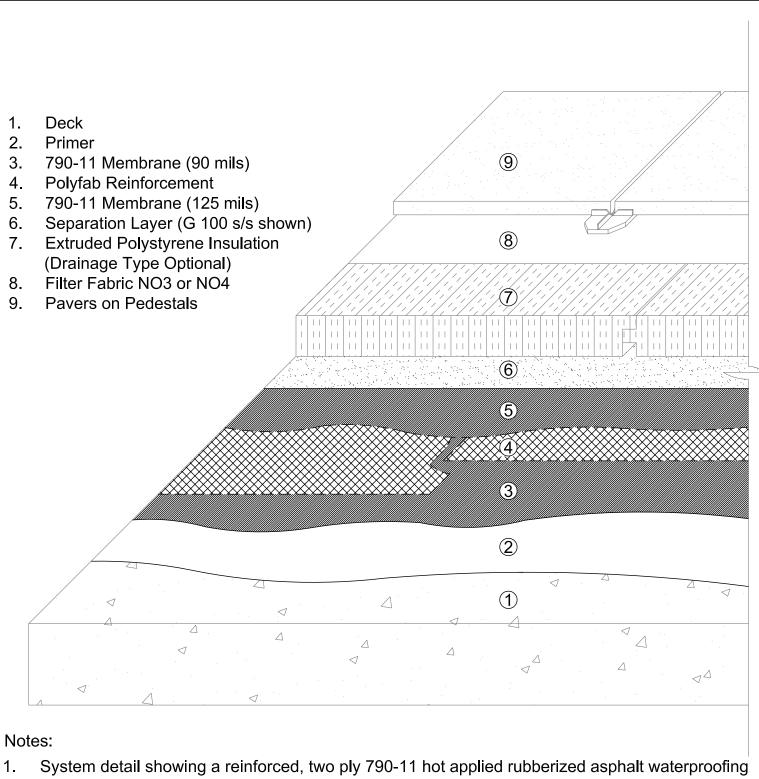
TIE-IN DETAIL

PUMADEQ SYSTEM AND BLUESKIN WP200 CORNER FLASHING AT DOWNTURN

07-08-2019

SCALE: N.T.S.

PMDQ-TID-A3E



- system incorporating a drainage type polystyrene insulation board (optional) and pavers.
- There are two types of primers for 790-11; 910-01, an asphalt penetrating primer and 930-18, a 2. polymer modified primer. Superior membrane to deck adhesion is provided when 930-18 primer is used.

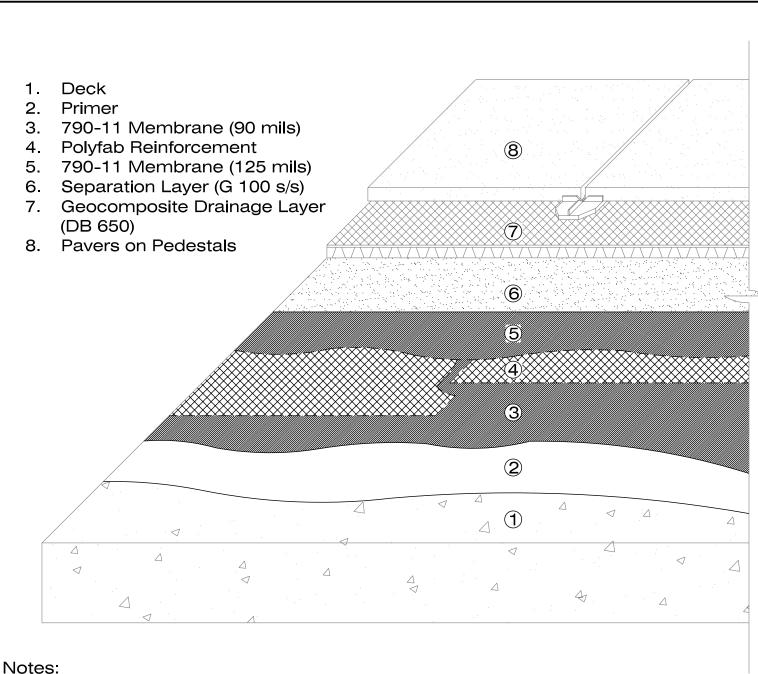


790-11	WATERPROOFING	
INICILII	TED DI AZA DECK WA	

SCALE: N.T.S.

FIT TO PAPER

SYSTEM DETAIL

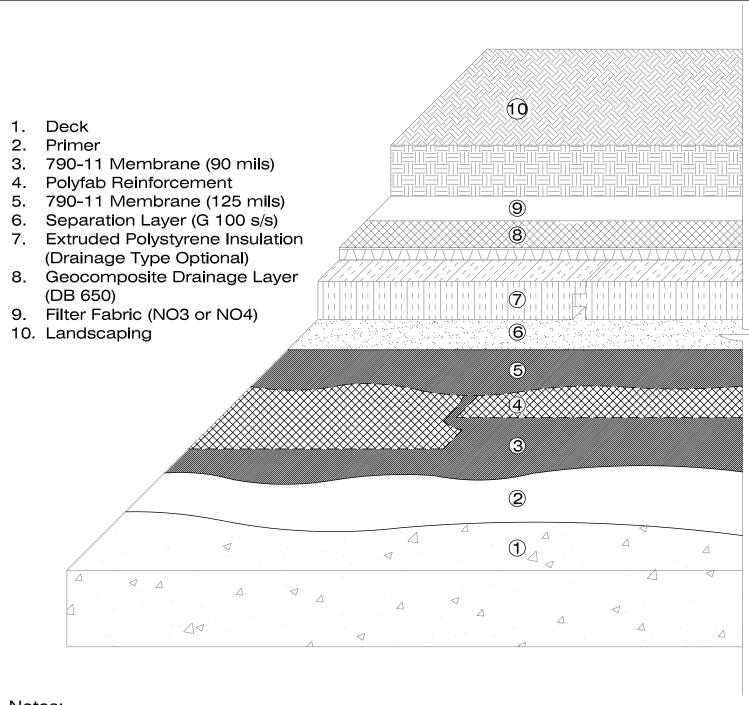


- System detail showing a reinforced, two ply 790-11 hot applied rubberized asphalt waterproofing system incorporating a prefabricated drainage geocomposite and paver system.
- 2. There are two types of primers for 790-11; 910-01, an asphalt penetrating primer and 930-18, a polymer modified primer. Superior membrane to deck adhesion is provided when 930-18 primer is used.
- 3. A separation layer is recommend when using prefabricated geocomposite drainage systems.



SCALE: N.T.S. 790-11 WATERPROOFING FIT TO PAPER UNINSULATED PLAZA DECK W/ PAVERS

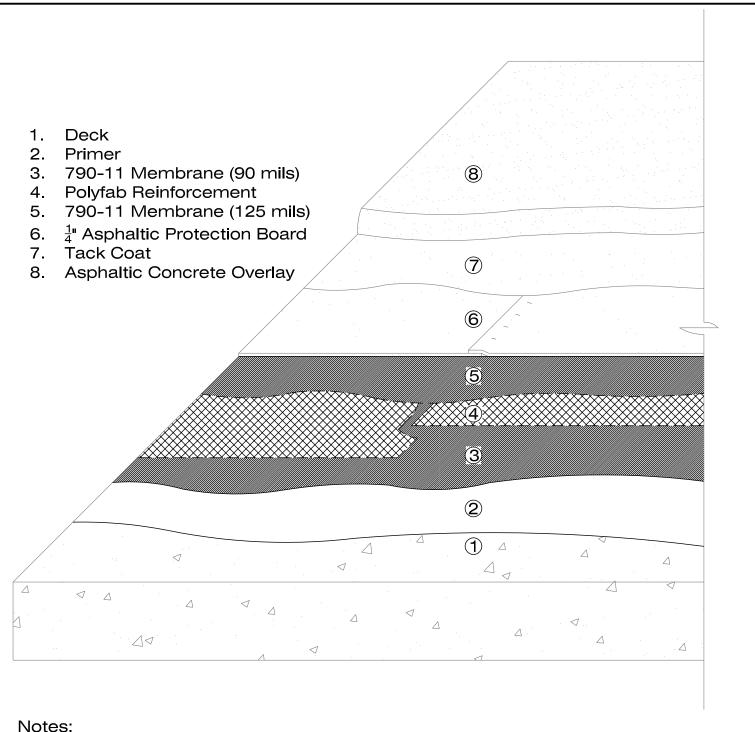
SYSTEM DETAIL



Notes:

- System detail showing a reinforced, two ply 790-11 hot applied rubberized asphalt waterproofing system covered by a landscaping layer. For landscaping systems with aggressive root structures, consult Henry Company for additional requirements.
- 2. There are two types of primers for 790-11; 910-01, an asphalt penetrating primer and 930-18, a polymer modified primer. Superior membrane to deck adhesion is provided when 930-18 primer is used.
- 3. The separation layer may be a modifiedPLUS SBS modified bitumen membrane, such as G 100 s/s, NP180 s/s or asphaltic protection board.

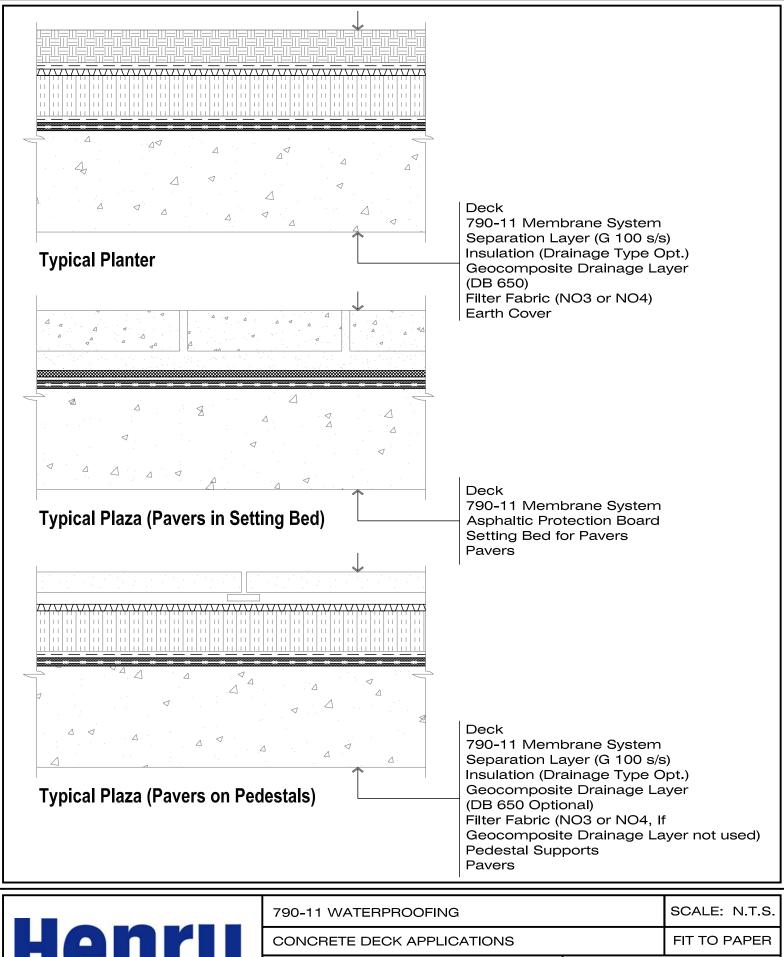




- System detail showing a reinforced, two ply 790-11 hot applied rubberized asphalt waterproofing system with a protection board and asphaltic concrete overlay.
- 2. This system is typical of parking garage deck applications. Asphaltic Protection Board is set over the membrane prior to installing the asphaltic concrete overlay.
- 3. There are two types of primers for 790-11; 910-01, an asphalt penetrating primer and 930-18, a polymer modified primer. Superior membrane to deck adhesion is provided when 930-18 primer is used.

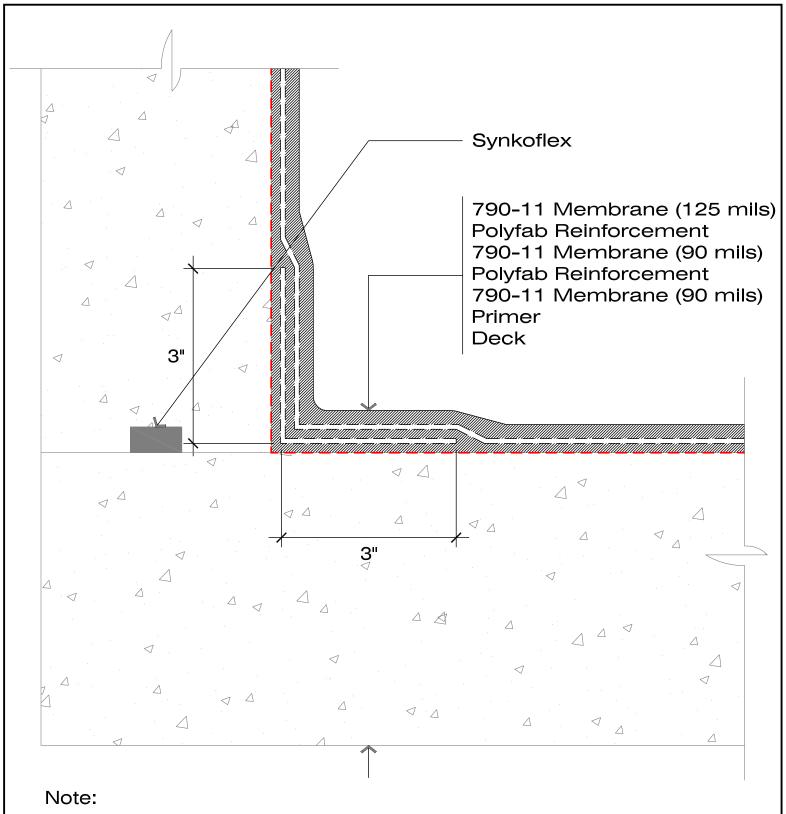


SYSTEM DETAIL	WP-	-H104
790-11 WATERPROOFING ASPHALTIC OVERLAY		SCALE: N.T.S.

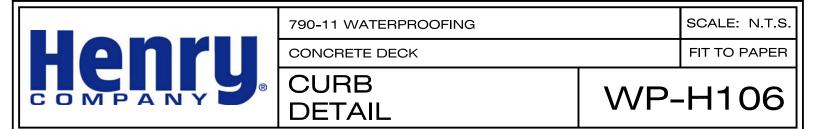


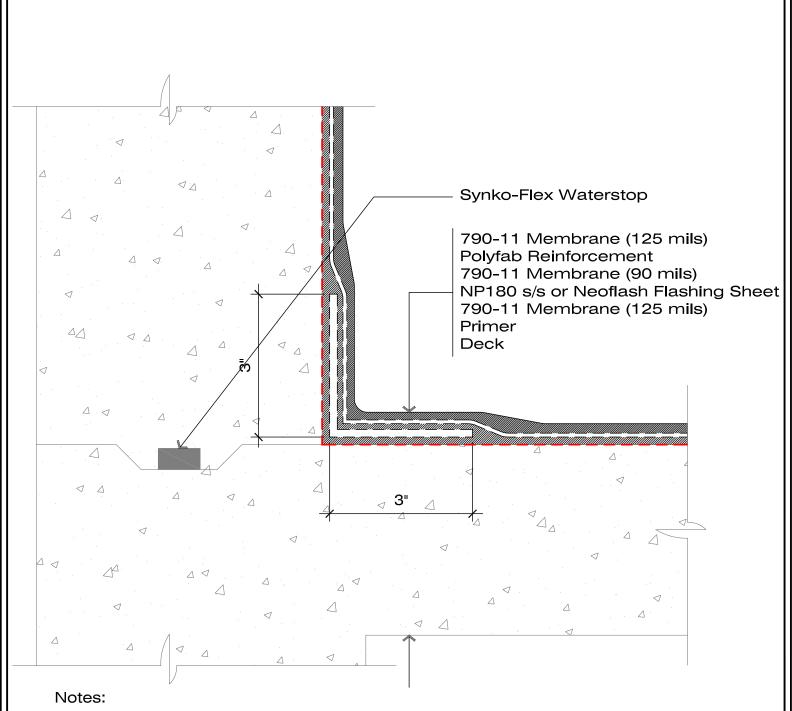


TYPICAL ASSEMBLIES



1. Reinforce non-moving joints with a second ply of Polyfab.





- 1. The flashing sheet is set in a 125 mils bed of 790-11, prior to installing the membrane in the field.
- 2. The first coat of 790-11 should be applied to a thickness of 90 mils min., prior to the application of the Polyester Fabric. The second coat is applied to a thickness of 125 mils min., for a total thickness of 215 mils.

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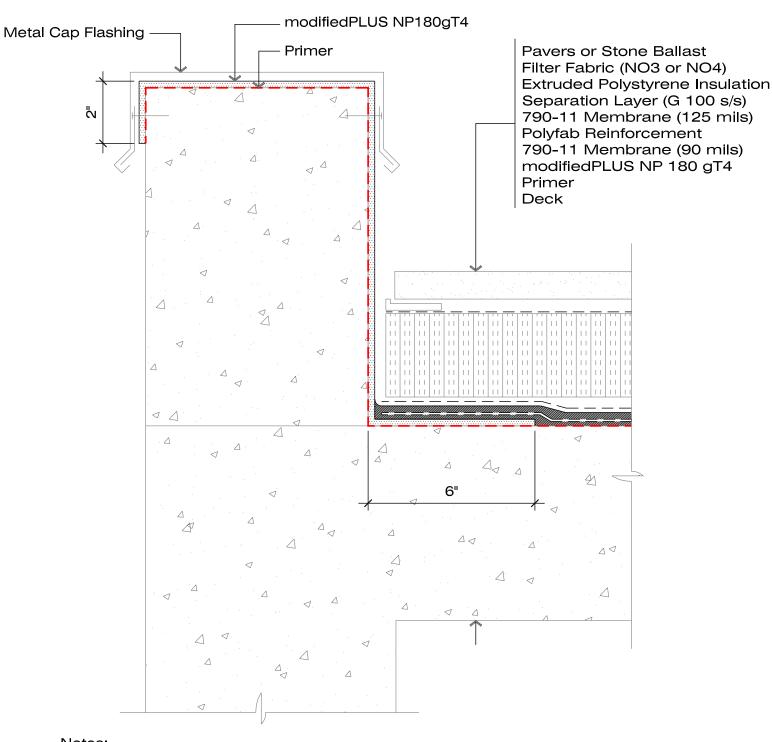
790-11 WATERPROOFING

SCALE: N.T.S.

CONCRETE DECK

FIT TO PAPER

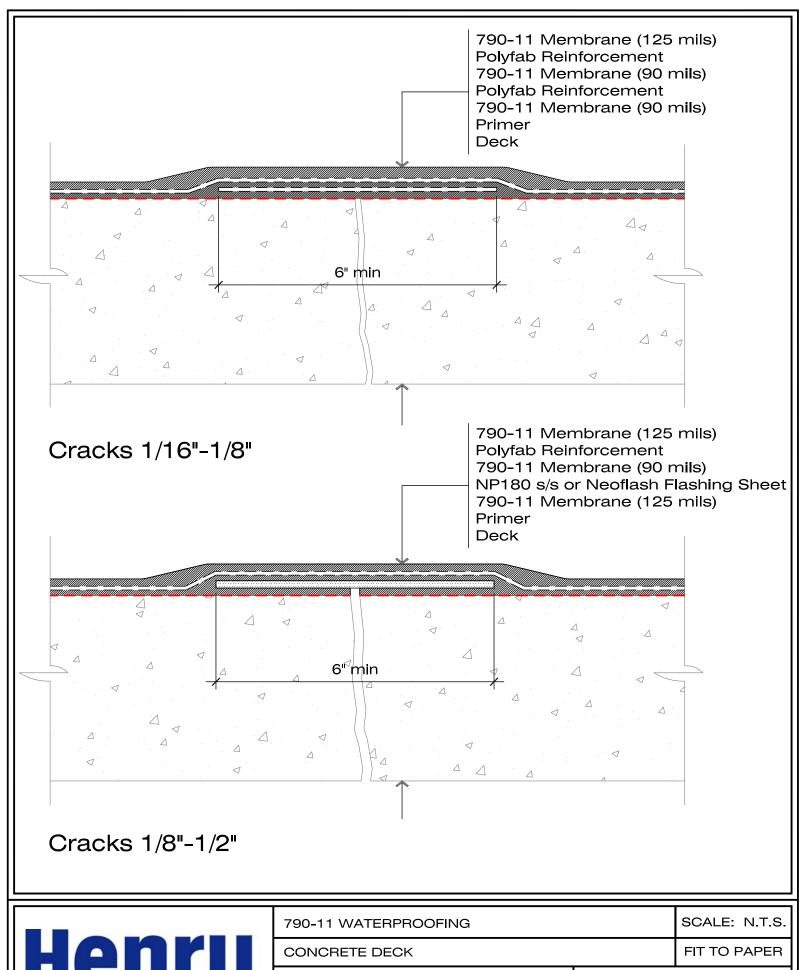
CONSTRUCTION JOINT DETAIL



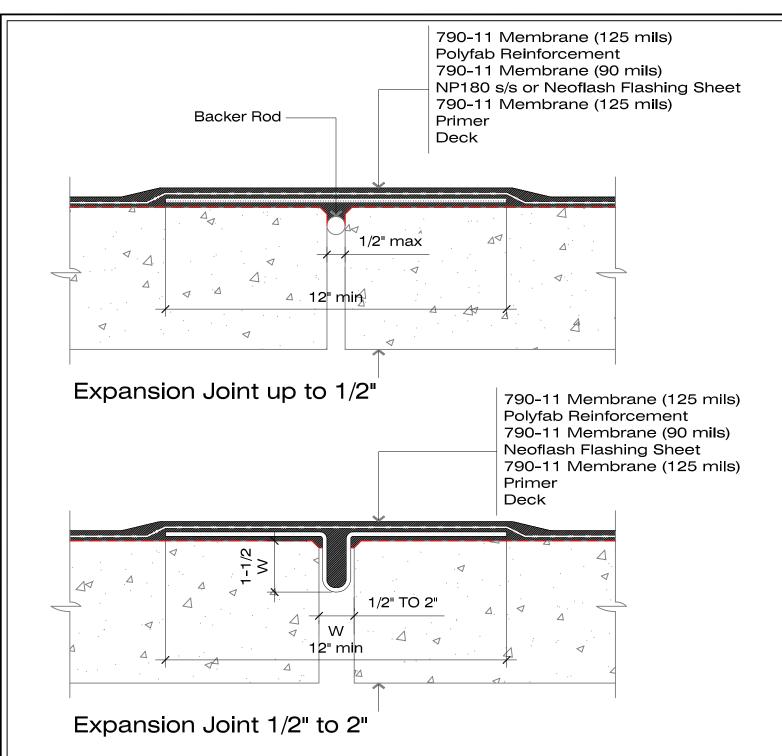
Notes:

- The modifiedPLUS NP180gT4 flashing membrane is thermofused to the primed substrate and can be left exposed.
- The modifiedPLUS membrane must be mechanically fastenened @ 8" o.c. along the outside face.
- Set granules in the modifiedPLUS NP180gT4 membrane using a heated trowel to improve adhesion of the 790-11 membrane.





CRACK WP-H109 TREATMENT



Notes:

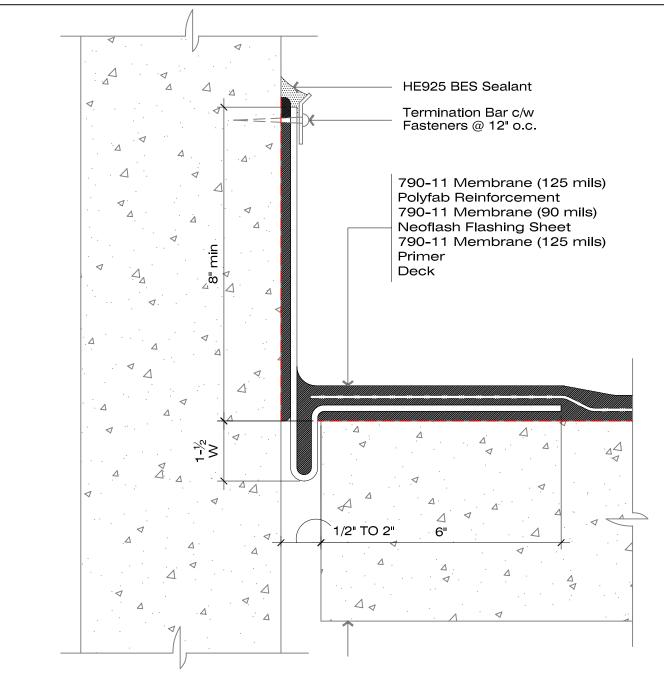
- 1. Where excessive movement or vibration is expected, the designer should consider using a termination bar, mechanically fastened through the flashing sheet 12" o.c. on both sides of the joint.
- 2. Protection Layer not shown for clarity.



WP-H110

SCALE: N.T.S.

06-03-09



Notes

- 1. The flashing membrane is looped down into the joint to a depth of 1.5 times the width of the joint.
- The minimum requirement for the termination bar is that it be 1" wide, made of aluminum or galvanized metal, and be pre-drilled on a maximum spacing of 12".
- 3. 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.
- 4. Protection Layer not shown for clarity.



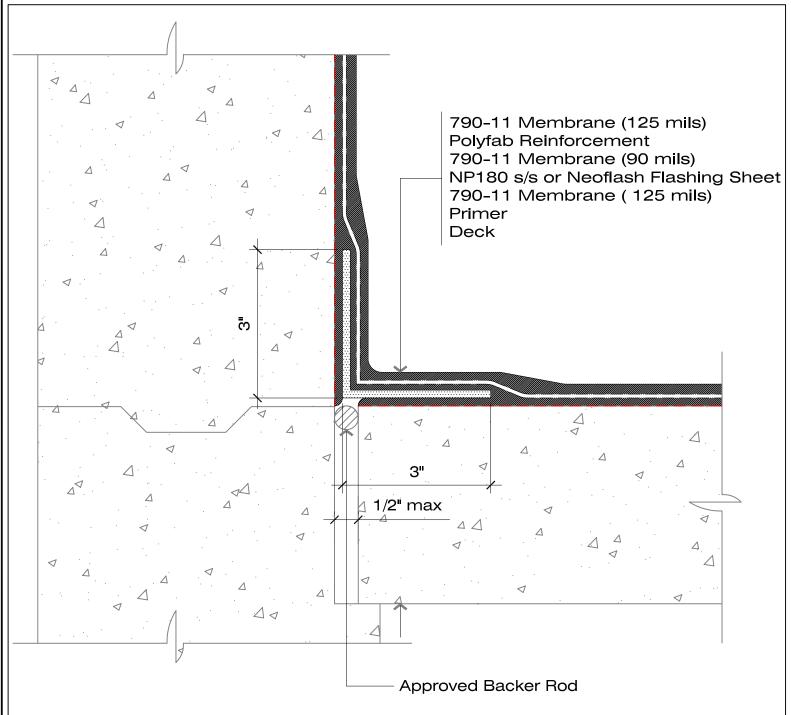
790-11 WATERPROOFING

SCALE: N.T.S.

JOINTS 1/2" TO 2"

06-03-09

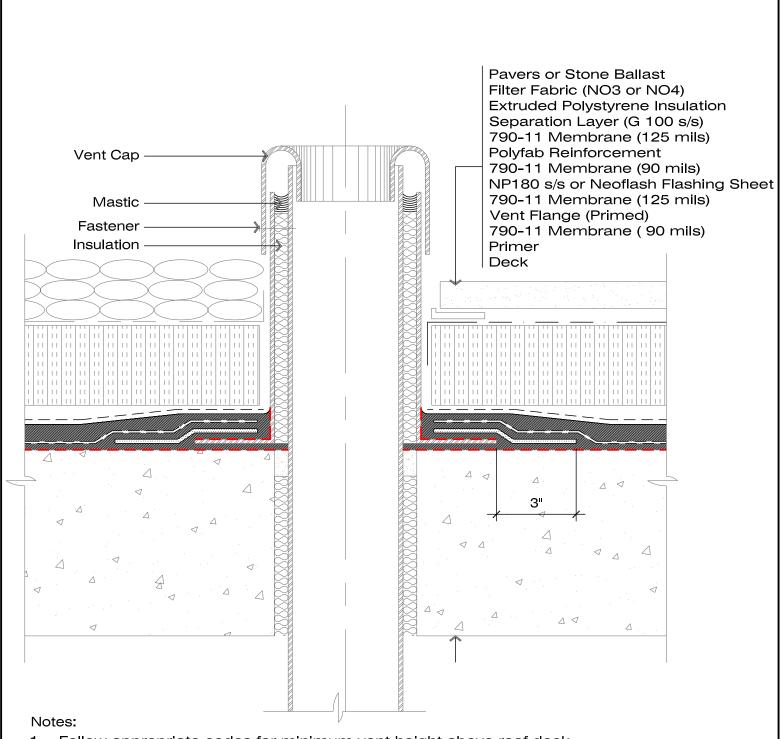
EXPANSION JOINT DETAIL



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.

COMPANY 5®	EXPANSION JOINT	WP-	H112
Lanrii	JOINTS UP TO 1/2" IN WIDTH		06-03-09
	790-11 WATERPROOFING		SCALE: N.T.S.



- 1. Follow appropriate codes for minimum vent height above roof deck.
- 2. Keep the flashing sheet $\frac{1}{2}$ back from the vent stack and carry the 790-11 membrane up the stack ensure a complete seal.

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MPA	N Y	

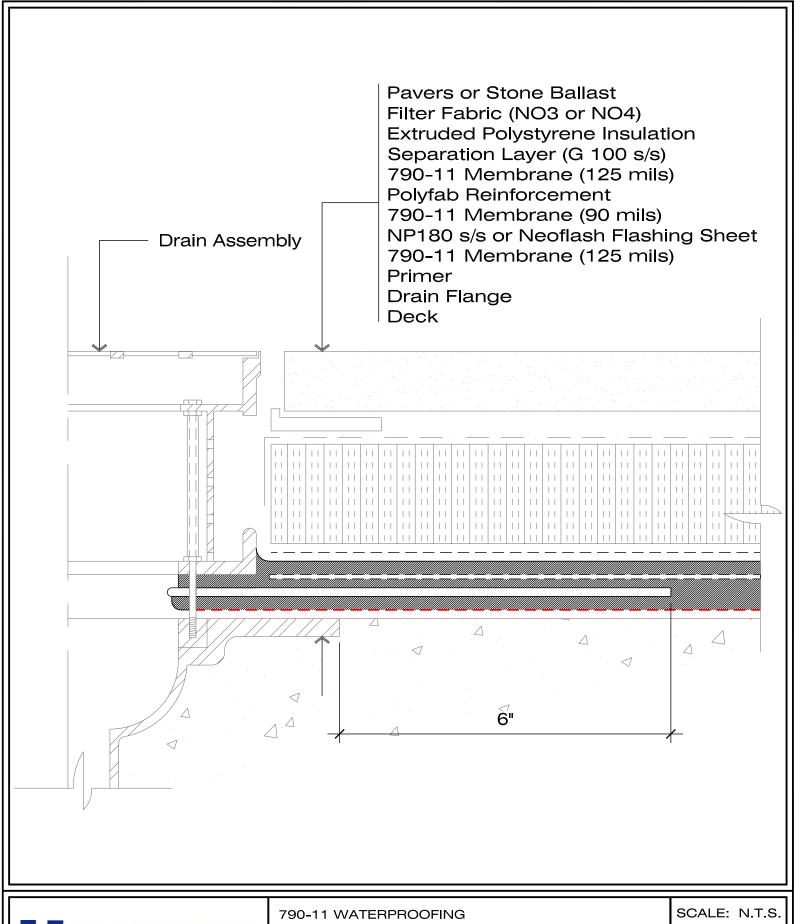
790-11 WATERPROOFING

SCALE: N.T.S.

NOT CAST-IN-PLACE

FIT TO PAPER

VENT PROJECTION DETAIL





TYPICAL PLAZA DECK ASSEMBLY

FIT TO PAPER

DRAIN DETAIL

<u>IABIONARIAN NA MARANGINAN N</u>

Warranty #: SAMPLE Issued: Expiration:

HENRY COMPANY ("HENRY") 5 YEAR EXTENDED MATERIAL WARRANTY 790-11 HOT APPLIED RUBBERIZED ASPHALT ("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:

 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.

- Civil insurrection, war, riot, terrorism, intentional destruction or vandalism.
- Exposure to ionized radiation, contamination by radioactivity from any nuclear source, or bird droppings, chemical, or vermin attack on the Product(s).
- Failure to timely report leaks or to repair leaks not covered by this Warranty.
- 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 rooftop equipment, walls, copings, pitch pans and details which do not conform with HENRY details.
- Installations on or through the Product(s) unless done in a manner prescribed and accepted by HENRY.
- Repairs or alterations to the Product(s) that are not authorized first in writing by HENRY.
- 8. Inadequate rooftop drainage.
- 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

Page 1 - US Extended Material 12/01/2014

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 ROOF 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 SOME STATES DO NOT ALLOW THE EXCLUSION OR PURPOSE. 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:

- 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;
- 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);
- 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® 790-11 Hot-Applied, Rubberized Asphalt Waterproofing Membrane

790-11 is a hot-applied, rubberized asphalt formulated to provide a monolithic, fully bonded waterproofing membrane. 790-11 is suitable for installation on all slopes including dead level and vertical.

790-11 hot rubberized asphalt membrane has the following credentials:

- Meets the requirements of CGSB 37.50 M89
- UL Class A listed
- Miami-Dade approved (NOA # 08-1003.09)
- Resistant to 231 feet of hydrostatic pressure (100 psi) tested per ASTM D-08.22
- Low VOC (meets SCAQMD and OTC requirements)

790-11 is compatible with the following Henry waterproofing accessories:

- 910-01 Primer/Surface Conditioner
- 930-18 Adhesive/Surface Conditioner
- Polyfab Polyester Reinforcing Fabric
- Neoflash Uncured Neoprene Flashing Sheet
- 990-25 Flashing Sheet
- NP180gT4 & NP180gM4 Exposed Flashing Sheet(s)
- NP180pp & NP180ss Concealed Flashing Sheet(s)
- PUMA Liquid Membrane
- G100ss Protection Course
- Root Bloc 20/30 Root Barrier
- NO3 & NO4 Filter Fabric
- 925 BES Sealant
- Henry Drain Board

790-11 is compatible with cast-in-place and precast normal weight concrete, structural lightweight concrete (min. compressive strength of 2500psi), CMU, cement board, metal, and plywood when used with appropriate Henry primer.

Henry Company production facilities responsible for the manufacture of Henry 790-11 Hot Rubberized Asphalt, maintain and adhere to a full-time quality control program. Each batch of material is tested to ensure conformance with the manufacturer's published physical properties.

Henry manufacturing facility responsible for manufacture of 790-11 implements full time quality control and is ISO certified.

790-11 does not contain asbestos, lead, PBDE or PCBs.

Physical properties and application instructions are available on Henry technical data sheets viewable at www.henry.com. or upon request.



Building Envelope Systems

LEED INFORMATION

PRODUCT: 790-11 Rubberized Asphalt

SS - CREDIT 7 - HEAT ISLAND EFFECT: ROOF

This product does not meet the requirements as reflective roof coating.

(When installed to >50% of roof surface area, Henry Vegetative Roof Assembly qualifies for LEED credit.)

MR - CREDIT 4.x - RECYCLED CONTENT

RECYCLED CONTENT (POST-CONSUMER): 11%

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: Lachine, Quebec, Canada, H8R1N7

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$\underline{\mathsf{MR}\text{-}\mathsf{CREDIT}\:6\:\mathsf{AND}\:7-\mathsf{RAPIDLY}\:\mathsf{RENEWABLE}\:\mathsf{MATERIALS}\:\mathsf{AND}\:\mathsf{CERTIFIED}\:\:\underline{\mathsf{WOOD}}$

This product does not contain rapidly renewable materials or certified wood

IEQ - CREDIT 4.1 - ADHESIVES AND SEALANTS

Product not applicable to this credit

VOC CONTENT: 0 g/L

IEQ-CREDIT 4.2 - PAINTS AND COATINGS

Product not applicable to this credit