

# DURO-LAST® TORCH DOWN VAPOR BARRIER

## DESCRIPTION:

Duro-Last® Torch Down Vapor Barrier (DL-TD-VB) is an SBS modified bitumen base ply for use in Duro-Last Roofing Systems. DL-TD-VB is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene polymer modified bitumen and is reinforced with a high quality random glass fiber mat. The topside is surfaced with fine mineral aggregate and the underside is surfaced with polyolefin burn-off film to optimize heat welding.

DL-TD-VB can be used within a Duro-Last Roofing System to minimize vapor transmission. Duro-Last recommends the use of vapor barriers, however it is the responsibility of the Duro-Last contractor of record to ensure that all applicable specifications, building codes, regulations and ordinances are complied with and followed. A roofing professional, such as a consultant or architect, should be utilized for correct roofing system design prior to installing any roofing system.

## BENEFITS

- Self-sealing
- Slip resistant
- Substrate board not required for most applications
- Puncture resistant
- No primer required on steel decks or within mechanically fastened roof systems.
- Ideal for mechanically fastened or adhered roofing systems
- Resistant to work crew traffic

## ACCEPTABLE SUBSTRATES:

Prior to installation of the DL-TD-VB, the substrate must be smooth and level without significant surface irregularities or depressions. It must be clean, dry and free of grease, dust and loose debris. Do not apply to wet or damp surfaces. Concrete and gypsum decks must be cured prior to installation.

The installing contractor is responsible for following applicable building, plumbing and electrical codes.

DL-TD-VB Primer is not required when the roof system is mechanically fastened or when the substrate is a steel deck. When used within an adhered roof system, the following substrates will require the use of DL-TD-VB Primer prior to installing DL-TD-VB:



- Structural Concrete (cast in place or precast)
- Gypsum (cast in place or precast)
- Lightweight Concrete (insulating or cellular)
- Wood (Plywood, OSB or Lumber)
- Cement Block/Masonry

## APPROVED DIRECT-CONTACT ASSEMBLIES

The following membrane assemblies are approved for direct contact with the DL-TD-VB. All other assemblies must be separated from the DL-TD-VB by any Duro-Last slip sheet, insulation or cover board.

- Duro-Fleece® and Duro-Fleece Plus®
  - Adhered directly to DL-TD-VB with Duro-Fleece CR-20 Membrane Adhesive (Splatter).

WB II Adhesive is not allowed.

## FACTORY MUTUAL REQUIREMENTS

Factory Mutual projects that require DL-TD-VB will require an increase in the preliminary attachment of insulation and/or cover boards underneath mechanically fastened roofing systems. Each board must be fastened at a rate of one fastener and plate per two square feet. Corner and perimeter enhancements are not required for preliminary attachment.

## ORDERING:

Rolls may be ordered individually. Each roll measures 3.25 ft. by 49 ft. and will cover 147 square feet with a 3-inch overlap.

- 101-lb roll (Item #1347)

**STORAGE AND HANDLING:**

- Store rolls on end and maintain in an upright position to prevent damage.
- Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture.

**PRECAUTIONS:**

1. Read Safety Data Sheets (SDS) prior to using.
2. Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.
3. **Torches and heat guns must be handled with care and never left unattended. Extreme caution should be used when working on flammable substrates such as plywood.**

**INSTALLATION:**

1. Limitations:
  - a. Do not use during wet weather.
  - b. Do not use on wet substrates.
  - c. Do not use on dirty or greasy substrates.
  - d. Do not use on substrates that show signs of deterioration or loss of structural integrity.
  - e. Do not use product after expiration date.
2. Prior to installation, unroll DL-TD-VB onto the roof surface and allow to relax.
3. Position DL-TD-VB in desired position and back roll the product. Ensure that 3-inch selvage edge is overlapping next sheet, then heat weld to approved substrate.

**SHEET PROPERTIES:**

Product Property	Values
Reinforcement	Glass fiber
Elastomeric Bitumen	Proprietary blend of bitumen and SBS polymers
Top Surfacing	Sanded
Back Surfacing	Polyolefin film
Selvage Width	3 in (76 mm)
End Lap	6 in (152 mm)

**DIMENSIONS AND MASS:**

Product Property	Values
Length	49.2 ft (15.0 m)
Width	39.4 in (1.0 m)
Coverage	147.6 ft² (13.7 m²)
Thickness	87 mils (2.2 mm)
Roll Weight	101 lbs (45.8 kg)
Thickness at Selvage	79 mils (2 mm)
Net Mass per Unit Area	62.6 lbs/100 ft² (3054 g/m²)
Bottom Coating Thickness	≥40 mils (1.0 mm)

**PHYSICAL PROPERTIES:**

Physical Property	Test Method	Typical Value
Peak Load at 0° F (-18° C)	ASTM D1547	100 lbf/in
Elongation at Peak Load at 0° F (-18° C)	ASTM D1547	4%
Peak Load at 73.4° F (23° C)	ASTM D1547	50 lbf/in
Elongation at Peak Load at 73.4° F (23° C)	ASTM D1547	5%
Ultimate Elongation at 73.4° F (23° C)	ASTM D1547	45%
Tear Strength at 73.4° F (23° C)	ASTM D1547	60 lbf
Low Temperature Flexibility	ASTM D1547	-15° F (-26° C)
Dimensional Stability	ASTM D1547	<0.1%
Compound Stability	ASTM D1547	250° F (121° C)