

# VERSICO'S EPDM VERY SEVERE HAIL (VSH) APPROVED SYSTEMS

As the industry leader in warranted commercial roofing systems, Versico Roofing Systems takes pride in its tradition of providing unique solutions for rooftop challenges. Versico offers a variety of roofing membranes including EPDM, which is renowned for its durability and long lifespan, often exceeding 30 years with proper maintenance. Versico continues to shape the evolution of the commercial roofing industry by offering world-class EPDM system solutions that are Very Severe Hail (VSH) approved.

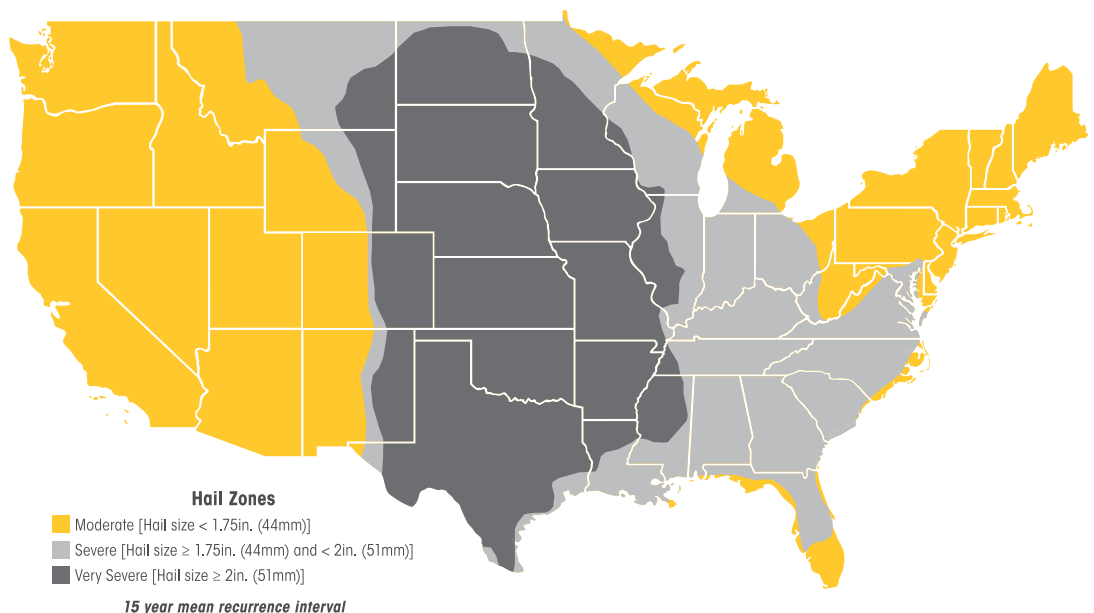
## Severe Hail (SH) vs. Very Severe Hail (VSH)

Historically, the Factory Mutual (FM) Severe Hail (SH) designation has been the most stringent hail approval in roofing. The test consists of a 2-inch steel ball dropped almost 18 feet, with virtually any rigid insulation board with a single-ply membrane resulting in an approval. In 2017, Factory Mutual introduced the Very Severe Hail (VSH) approval, consisting of a 2-inch diameter ice ball shot out of a pressurized air cannon. The ice ball impacts the membrane and substrate at approximately 110 miles per hour, resulting in four times the energy impact as SH testing.

Hail Rating	Impact Medium	Method	Impact Energy
SH Severe Hail	2"-Diameter Steel Ball	17' 9½" Height Gravity Drop	14 ft-lb (19 J)
VSH Very Severe Hail	2"-Diameter Ice Ball	160 Feet/Second Shot Velocity	58 ft-lb (79 J)

## Factory Mutual's Hail Zone Map

VSH requirements now include parts of 19 states as designated by Factory Mutual. VSH requirements can also appear in specifications outside of these states.



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## Understanding VSH Approved Systems

Cover boards are an essential part of a VSH single-ply system. Versico's commitment to innovation has allowed common rooftop cover boards such as gypsum and HD polyiso to gain approval under these extreme testing standards. Versico now offers a wide variety of VSH solutions. SecurShield® HD Composite, the industry's first all-polyiso solution, consists of a ½" HD polyiso cover board laminated to a rigid polyiso panel, making it easy to use and cost effective. DuraStorm VSH™ offers a solution sourced from post-industrial and post-consumer waste streams with a compressive strength of nearly 4,000 psi. DensDeck® StormX™ and DEXcell FA VSH® are reinforced gypsum panels that are extremely durable. DuraFaceR® provides an easy-to-use composite combining the traditional strength and performance of OSB factory-bonded to polyiso insulation.

Cover board attachment is a critical step in any VSH approved system. See the chart and schematics below for clarification.

### VSH Approvals

### 115-mil and 145-mil VersiFleece® EPDM

Membrane Attachment	Full Spray/4" Beads or Rig Splatter (145-mil EPDM)				
Cover Board	SecurShield HD Composite*	DuraFaceR Composite*	DuraStorm VSH	DensDeck StormX	DEXcell VSH
Cover Board Attachment	Flexible DASH™ or Plates and Fasteners	Flexible DASH or Plates and Fasteners	Flexible DASH or Plates and Fasteners	Flexible DASH	Flexible DASH or Plates and Fasteners

### VSH Approvals

### 145-mil White VersiFleece EPDM

Membrane Attachment	Full Spray/4" Beads or Rig Splatter (145-mil White EPDM only)				
Cover Board	SecurShield HD Composite*	DuraFaceR Composite*	DuraStorm VSH	DensDeck StormX	DEXcell VSH
Cover Board Attachment	Flexible DASH	Flexible DASH or Plates and Fasteners	Flexible DASH or Plates and Fasteners	Flexible DASH	Flexible DASH

### VSH Approvals

### 115-mil and 145-mil VersiFleece RL™ EPDM

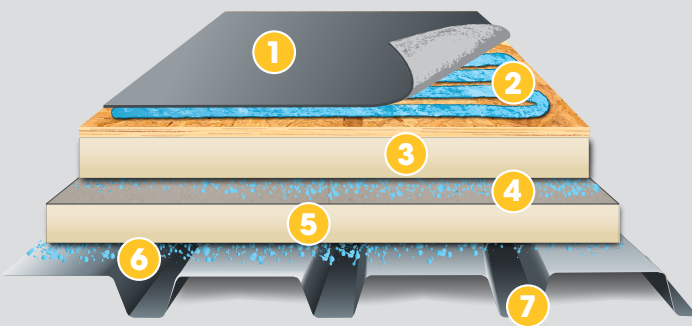
Membrane Attachment	Hook and loop
Cover Board	2" min. HD Composite RapidLock
Cover Board Attachment	Flexible DASH

Scan here for our full listing of VSH approvals.

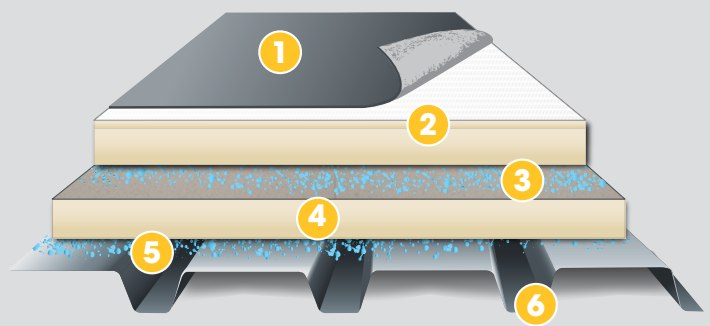


\*Minimum of 2" of insulation needed

### VersiFleece EPDM



### VersiFleece RL EPDM



- 1 VersiFleece EPDM 115-mils
- 2 Flexible DASH Adhesive in 4" Beads
- 3 DuraFaceR Composite
- 4 Flexible DASH Rig Splatter
- 5 2.6" SecurShield
- 6 Flexible DASH Rig Splatter
- 7 Steel Deck

- 1 VersiFleece RL EPDM (115- or 145-mils)
- 2 SecurShield HD Composite RL
- 3 Flexible DASH Rig Splatter
- 4 2.6" SecurShield
- 5 Flexible DASH Rig Splatter
- 6 Steel Deck



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