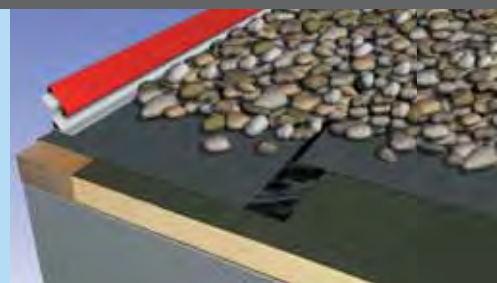




**VERSIGARD**



## BALLASTED ROOFING SYSTEM

The VersiGard® Ballasted Roofing System incorporates either 45-mil or 60-mil reinforced or non-reinforced time-tested EPDM membrane.

### Features and Benefits

- The entire system, insulation, EPDM membrane and ballast are loose-laid, allowing the flexible characteristics of the roofing system to move with thermal expansion.
- Non-reinforced sheet widths up to 50' reduce field seams and lower installation costs.
- UL Class A Ratings can be achieved over combustible and non-combustible decks.
- The system is easily installed over a variety of insulation types (EPS, Extruded Polystyrene, Perlite, Polyisocyanurate, High-Density Wood Fiberboard).
- Standard ballasted roofs incorporate a minimum of 10 lbs. per square foot of #2 size ballast. Additional wind uplift can be achieved when different ballast specifications are followed.
- 5-year to 30-year No Dollar Limit Total System Warranty coverage is available. Standard wind speed coverage is 55 mph. Additional wind speed warranties are available.
- A warranted system is installed by an Authorized Versico Roofing Contractor. A completed warranted system is inspected by a trained Versico Field Service Representative to ensure conformance with Versico specifications.





## VERSIGARD .045" & .060" NON-REINFORCED EPDM Typical Properties and Characteristics

Physical Property	Test Method	ASTM SPEC. (Pass)	Typical .045" & .060" Non-Reinforced
Tolerance on Nominal Thickness, %	ASTM D412	±10	±10
Tensile Strength, min, psi (MPa)	ASTM D412	1305 (9)	1650 (11.3)
Elongation, Ultimate, min, %	ASTM D412	300	480
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min.	Modified ASTM D816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 4 weeks @ 240°F (116°C)	ASTM D573		
Tensile Strength, min, psi (MPa)	ASTM D412	1205 (8.3)	1500 (10.3)
Elongation, Ultimate, min, %	ASTM D412	200	225
Tear Resistance, min, lbf/in (kN/m)	ASTM D624	125 (21.9)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D1204	±1.0	-0.4
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D746	-49 (-45)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8.0, -2.0	+2.0
Water Vapor Permeance* max, perm	ASTM E96 (Proc. B or BW)	0.1	.05
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m <sup>2</sup> total radiant exposure at .70 W/m <sup>2</sup> irradiance, 176°F (80°C) Black Panel Temp.	ASTM G155	No Cracks No Crizzling	No Cracks No Crizzling

\* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

\* See Technical Data Bulletin for Reinforced Typical Properties & Characteristics.



Existing or New Deck Type	NEW CONSTRUCTION						RE-ROOFING		
	Steel	Plywood or OSB	Wood Planks	Gypsum & Fibrous Cement	Light Weight Concrete	Structural Concrete	Smooth Surface BUR	Gravel Surface BUR	Existing Single-Ply
Insulation Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recommended Insulation	Loose-Laid						← Refer to New Construction		
Insulation Attachment	Loose-Laid						← Refer to New Construction		
Membrane Attachment	Rounded water-worn gravel, crushed stone over MP safeguard mat, Versico interlocking rubber pavers or concrete pavers						← Refer to New Construction		
Ballast Options	Rounded water-worn gravel, crushed stone over MP safeguard mat, Versico interlocking rubber pavers or concrete pavers						← Refer to New Construction		