

Vantell® Product Data Sheet

Shanghai Vantell Industry Development Co., Ltd.

High-Performance Building Envelope & Moisture Management Systems

Foundation Sill Plate Moisture & Vapor Barrier

Model: VUMF12

Vantell VUMF12 is a moisture and vapor barrier specifically designed for building foundations. Engineered for installation between concrete foundations and sill plates, it features a convenient 0.3048 m (12-inch) width. It acts as a powerful capillary break, effectively blocking ground moisture from wicking upward into the timber structure to prevent mold and rot.



Width x Length	0.3048 m x 36 m
Package	20 rolls/ctn
Technical Specifications	
Gram Weight	110 g/m ² (ASTM D5261)
Thickness	0.16 mm
Vapor Permeance	< 0.5 perms (ASTM E96)
Water Resistance	Pass (Hydrostatic head of 55 cm for 5 hours, AATCC 127)
Tensile Breaking Strength	Machine Direction (MD): ≥ 300 N Cross Direction (CD): ≥ 290 N (ASTM D5034)
Elongation at Break	Machine Direction (MD): ≥ 30% Cross Direction (CD): ≥ 20% (ASTM D5034)
Nail Tear Resistance	Machine Direction (MD): ≥ 350 N/mm Cross Direction (CD): ≥ 380 N/mm (ASTM D228)
Air Permeance	≤ 0.02 L/(s·m ²) @ 75 Pa (ASTM E2178)

Housewrap

Model: VWC323

VWC323 House Wrap is a certified moisture barrier widely used as a reliable underlayment for stucco, stone veneers, and traditional exterior walls. It effectively blocks water intrusion while allowing the wall cavity to breathe. Featuring Class A fire resistance, 120-day UV stability, and straightforward installation, it delivers durable and practical protection for professional builders.



Width x Length	1.524 m x 30.48 m
Package	72 rolls/pallet
Technical Specifications	
Water Vapor Transmission	19 perms (ASTM E96)
Water Resistance AC38	No water leakage (Height 55 cm, 5 hours, AATCC 127)
Dry Breaking Force	Machine Direction (MD): 227 N Cross Direction (CD): 191 N (ASTM D5034)
Air Permeance	< 0.004 L/(s·m ²) (ASTM E2178)
UV Resistance	120 days

Wide-Width Housewrap

Model: VWC523-W

Vgelo Wrap Commercial 523-W is a Vantell wide-width housewrap designed for large wall areas, panelized construction, and commercial projects where fewer seams are preferred. Its 9 ft width helps reduce horizontal and vertical overlaps, improving installation efficiency, limiting overlap waste, and supporting more continuous water-resistive barrier coverage.



Width x Length	2.743 m x 38.10 m (9 ft x 125 ft)
Package	As per order
Technical Specifications	
Water Vapor Transmission	19 perms (ASTM E96)
Water Resistance AC38	No water leakage (Height 55 cm, 5 hours, AATCC 127)
Dry Breaking Force	Machine Direction (MD): 227 N Cross Direction (CD): 191 N (ASTM D5034)
Air Permeance	< 0.004 L/(s·m ²) (ASTM E2178)
UV Resistance	120 days

Self-Adhesive Housewrap

VWC523SA is a self-adhered commercial housewrap with an integrated adhesive backing, designed to reduce reliance on mechanical fasteners. This application method simplifies installation and limits potential penetrations caused by staples or nails. As a result, it forms a continuous water-resistive and air barrier, supporting the long-term performance and integrity of the building envelope.



Width x Length	1.524 m x 30.48 m
Package	49 rolls/pallet
Technical Specifications	
Gram Weight	187 g/m ² (ASTM D3776)
Vapor Permeance	28 perms (ASTM E96)
Tensile Breaking Strength	Machine Direction (MD): 448 N Cross Direction (CD): 278 N (ASTM D5034)
Elongation at Break	Machine Direction (MD): 129% Cross Direction (CD): 111% (ASTM D5034)
180° Peel Force	Aluminum Board: 1.008 N/mm OSB Board: 0.439 N/mm MgO Board: 0.857 N/mm (AAMA 711-20)

Drainable Housewrap

VWD52315 Drainable Housewrap is an ICC-ES certified weather barrier widely used for moisture and drainage management in various exterior wall systems. Featuring a unique 1.5 mm gap design with over 95.7% drainage efficiency, it quickly channels water away to mitigate mold and rot risks. Combining Class A fire resistance, 120-day UV stability, and high tear resistance, this lightweight and flexible material offers professional builders a practical, easy-to-install solution.



Width x Length	1.524 m x 30.48 m
Package	49 rolls/pallet
Technical Specifications	
Water Vapor Transmission	19 perms (ASTM E96)
Drainage Efficiency	≥ 95.7% (ASTM E2273)
Water Resistance AC38	No water leakage (Height 55 cm, 5 hours, AATCC 127)
Dry Breaking Force	Machine Direction (MD): 268 N Cross Direction (CD): 233 N (ASTM D5034)
UV Resistance	120 days
Combustibility	Class A (ASTM E84)
Certification	Certified by ICC-ES

Roofing Underlayment - Standard Type

Specifically designed for sloped roof installations, offering outstanding waterproofing, vapor barrier performance, weatherproofing, and comprehensive roof protection. It guarantees long-term resistance against harsh weather conditions, preserving the core structure's stability and integrity.



Width x Length	1.5 m x 50 m
Package	72 rolls/pallet
Technical Specifications	
Tensile Strength (PULL)	Vertical: 178 N/mm Horizontal: 127 N/mm (GB/T 328.9-2007)
Stretch Rate at Max Force	Vertical: 50% Horizontal: 30% (23 ± 2 °C, test speed 100 mm/min)
Impermeability	No leakage (2000 mm water column for 2 h, JC/T 2291-2014)
Low Temperature Bendability	No cracks (-30 °C for 1 hour, JC/T 2291-2014)
Nail Tear Resistance	Vertical: 99 N Horizontal: 117 N (GB/T 328.18-2007)
Water Vapor Transmission Rate	21.2 g/(m ² ·24 h) (Water method, 23 ± 0.6 °C, RH diff.: 90 ± 2%)

Reflective Roofing Underlayment

High-performance reflective sloped roof underlayment. In addition to delivering superior waterproofing and weather defense, it features an advanced reflective surface that significantly reduces radiant heat transfer, boosting the building's overall energy conservation and thermal control.



Width x Length	1.5 m x 50 m
Package	90 rolls/pallet
Technical Specifications	
Tensile Strength (PULL)	Vertical: 676 N/mm Horizontal: 621 N/mm (GB/T 328.9-2007)
Stretch Rate at Max Force	Vertical: 16% Horizontal: 15% (23 ± 2 °C, test speed 100 mm/min)
Impermeability	No leakage (2000 mm water column for 2 h, JC/T 2291-2014)
Low Temperature Bendability	No cracks (-30 °C for 1 hour, JC/T 2291-2014)
Nail Tear Resistance	Vertical: 300 N/mm Horizontal: 236 N/mm (GB/T 328.18-2007)
Water Vapor Transmission Rate	0.51 g/(m ² ·24 h) (Water method, 23 ± 0.6 °C, RH diff.: 90 ± 2%)

Vgelo Wrap RainScreen 10.1

Vgelo Wrap RainScreen 10.1 is a high-performance rainscreen ideal for residential, commercial, and extreme climate projects. Its unique dimple core creates a continuous 10.1 mm cavity that efficiently drains water and ventilates the wall assembly to prevent mold and rot. Easy to install, it enhances building durability and energy efficiency, offering professional builders a highly reliable moisture management solution.



Width x Length	1.524 m x 15.24 m (23.23 m ² /roll)
Gap Height	10.1 mm
Package	20 rolls/pallet
Technical Specifications	
Drainage Efficiency	≥ 99.9% (ASTM E2273)
Dry Breaking Force	Machine Direction (MD): 267 N Cross Direction (CD): 231 N (ASTM D5034)
UV Resistance	120 days
Combustibility	Class A (ASTM E84)