

TECHNICAL DATA SHEET

150gsm Waterproof Breathable Wall Membrane / WRB

Document No.	KOS-TDS-WM150-2026	Revision	00
Issue date	22 August 2026	Customer / project	SipHouse evaluation
Document status	OFFICIAL CONTROLLED TDS	Approval status	APPROVED FOR ISSUE

Product name	150gsm Waterproof Breathable Wall Membrane
Product type	Flexible wall underlay / WRB
Construction	3-layer PP nonwoven / breathable film / PP nonwoven
Nominal mass	150 g/m ²
Standard roll	1.50 m x 50 m (75 m ²)
Colour	Grey / red; customisable
Primary use	External walls, timber-frame walls, ventilated facades and PVC siding systems
OEM printing	Available
Manufacturing	China and Indonesia

1. Product Description

KOSITE 150gsm Waterproof Breathable Wall Membrane is a three-layer polypropylene WRB intended for external walls, timber-frame construction, ventilated facades and siding systems. It is designed to help resist wind-driven rain and external air movement while allowing water vapour from the wall assembly to escape.

2. Key Features

- Helps resist rainwater and external air infiltration
- High vapour permeability to support outward drying of wall assemblies
- Suitable for residential and commercial external-wall applications
- Compatible with timber-frame walls, ventilated facades and PVC siding systems
- OEM colour, printing, roll size and packaging options available

3. Technical Properties

Property	Test method / reference	Declared value	Tolerance / class	Status / remarks
Mass per unit area	EN 1849-2	150 g/m ²	±5%	Nominal
Roll width	EN 1848-2	1.50 m	Nominal	Standard roll width
Roll length	Internal measurement	50 m	Nominal	Standard roll length
Roll area	Calculated	75 m ²	Nominal	Based on 1.50 x 50 m
Approx. roll weight	Calculated	11.25 kg	Indicative	Based on nominal mass
Water tightness	EN 1928, Method A	Pass	Class W1	For EN 13859-2 wall application
Water vapour transmission	EN ISO 12572	≥1,000 g/m ² /24h	Minimum	Declared specification
Water vapour resistance (Sd)	EN ISO 12572	Sd ≤ 0.012 m	Maximum	Declared specification
Tensile strength - MD	EN 12311-2	225 N/50 mm ±15%	Measured	Measured value
Tensile strength - TD	EN 12311-2	150 N/50 mm ±15%	Measured	Measured value
Tear resistance - MD	EN 12310-1	70 N/20 mm	±15%	Declared specification
Tear resistance - TD	EN 12310-1	60 N/20 mm	±15%	Declared specification
Hydrostatic head	EN 20811	≥200 cm water column	Minimum	Declared specification
UV exposure	Internal exposure assessment	4 months	Declared	Maximum recommended exposure

4. Application and Installation

- Install on the exterior side of the wall sheathing or insulation, with the printed side facing outward unless otherwise specified.
- Lay horizontally or vertically according to the wall design and local installation practice.
- Provide adequate overlaps and seal joints with compatible WRB tape to support continuity of the water- and air-control layer.
- Seal around windows, doors, penetrations, corners and transitions with compatible accessories.
- This product is intended for wall applications and is not declared as a roofing underlay in this document.

5. Packaging and Storage

Standard roll: 1.50 m x 50 m (75 m²; approximately 11.25 kg based on nominal mass). Individually wrapped; export pallet packing available. Store upright, dry and covered, protected from sunlight, UV, heat, moisture and physical damage.

6. Technical Status and Compliance

This Official Controlled TDS is issued by PT KOSITE NEW MATERIALS for the KOSITE 150gsm Waterproof Breathable Wall Membrane. The measured tensile strength is 225 N/50 mm $\pm 15\%$ in the machine direction (MD) and 150 N/50 mm $\pm 15\%$ in the transverse direction (TD). Values in this document are declared product specifications subject to the stated tolerances.

The product specification is prepared with reference to EN 13859-2 wall-underlay applications. No reaction-to-fire classification is declared in this document.

7. Document Control

Control role	Responsible function	Name / signature	Date
Prepared by	Technical Department		
Reviewed by	Quality Department		
Approved by	Authorised Signatory		

Revision History

Revision	Issue date	Description	Approval status
00	22 August 2026	Initial official controlled issue for customer release	APPROVED FOR ISSUE