



VYVAP-ALU CLPE

Aluminum Foil Cross Laminated PE Waterproof Membrane

DESCRIPTION

VYVAP-ALU CLPE is a multi-layer composite waterproofing membrane consisting of anti-corrosion aluminum foil laminated with cross-laminated polyethylene (CLPE).

It combines:

- excellent waterproofing performance
- near-zero vapor transmission
- high mechanical strength

Designed for exposed or concealed waterproofing applications, especially where vapor control and waterproofing are required simultaneously.

BENEFITS

- Dual function: Waterproofing + Vapor barrier
- Aluminum foil surface – UV resistant & heat reflective
- High tensile strength (CLPE reinforcement)
- Excellent dimensional stability
- High puncture and tear resistance
- Low water vapor permeability ($S_d \geq 100 \text{ m}$)
- Suitable for exposed applications (with coating protection)
- Compatible with bitumen / butyl / hot-melt adhesive systems

APPLICATIONS

Roof Systems

- Metal roof waterproofing layer
- Exposed roof waterproofing
- Industrial roofing systems
- Temporary roofing protection

Wall & Envelope

- Curtain wall waterproof backing
- External wall waterproofing
- Prefabricated building envelope

Specialty

- Waterproof tapes / flashing materials
- Pipe wrapping & sealing
- Repair membranes

INSTALLATION

Self-Adhesive Version

- Peel release liner and apply directly
- Ensure firm pressure for full bonding
- Overlap $\geq 80\text{--}100 \text{ mm}$

Non-Self-Adhesive Version

Apply using:

- Butyl adhesive
- Bitumen adhesive
- Hot melt system



General

- Substrate must be clean and dry
- Seal laps using tape or adhesive
- Avoid wrinkles and air pockets

STORAGE & SHELF LIFE

- Store in dry, shaded conditions
- Protect from UV exposure
- Temperature: 5°C – 35°C
- Shelf Life: 12 months from the date of manufacture, when stored under proper conditions.

DIMENSIONS & PACKAGING

Parameter	Value(Self-Adhesive Version)
Thickness	1.2 mm
Width	1 m
Length	20 m
Color (surface)	Aluminum
Packaging	Rolls

TECHNICAL DATA

Property	Value	Test Method
Maximum tensile force, MD/CD (N/50mm)	≥ 230/230	ASTM D5147
Elongation at break, MD/CD (%)	≥ 210/210	ASTM D5147
Low temperature flexibility	-30°C, no crack	ASTM D5147
Static puncture (N)	≥ 200	ASTM D5602
Tear resistance, MD/CD (N)	≥ 20/20	ASTM D1970
Peel resistance, N/m	≥ 1500	ASTM D903

