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INFORMATION



Smartbuild™

SYNTHETIC ROOF UNDERLAYMENTS

RADIANT BARRIERS

POND LINERS

SILT FENCE

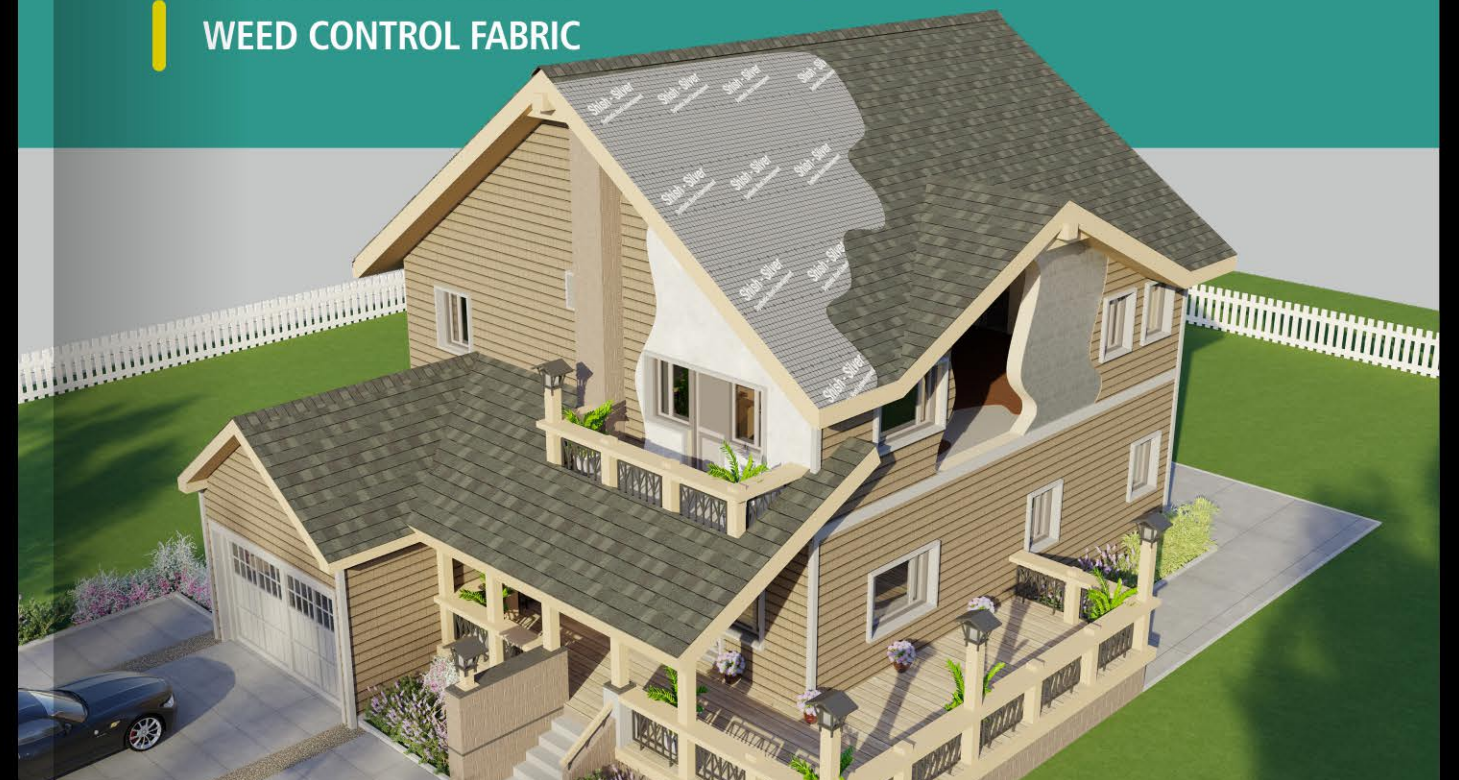
WEED CONTROL FABRIC

HOUSE WRAP

BUBBLE FOAM BARRIER

FOAM BARRIER

FOAM & BUBBLE INSULATION





Synthetic Roof Underlayments

Defending Roofs Against Water, Weather, and Time.

SmartBuild™ Synthetic Roof Underlayments are a complete family of high-performance roofing base sheets engineered with multi-layer polyolefin construction,

designed to deliver superior waterproofing, UV protection, tear strength, and installation safety across residential and commercial roofing systems.

Manufactured by Shish Industries Limited — an Intertek Certified Roofing Manufacturer and Miami-Dade County Registered Facility —

SmartBuild™ underlayments are trusted across North America under both the SmartBuild™ brand and private label programs.

- ASTM D226, ASTM D4869, ASTM E108 Class A compliant
- Miami-Dade County Registered
- Private Label Customization Available

At SmartBuild™, we manufacture reliability, performance, and confidence into every roll.



SmartBuild™ Roof Underlayment Product Range

- SmartBuild™ Silver | - SmartBuild™ Gold | - SmartBuild™ Platinum | - SmartBuild™ Daimond

Key Features

- Waterproof Secondary Roofing Barrier:**
- Shields roofing decks from water infiltration under shingles, metal, or tile.
- Slip-Resistant Surface:**
- Textured upper surface provides safer footing for installers.
- UV-Resistant Construction:**
- Built-in stabilizers for extended sunlight exposure without degradation.
- High Tear and Nail Puncture Resistance:**
- Woven core reinforcement withstands job site rigors.
- Lightweight and Flexible:**
- Easier handling, faster installation, fewer seams.
- Class A Fire Resistance:**
- ASTM E108 certified across Silver, Gold, Platinum, and Daimond.

Why Choose SmartBuild™ Underlayments?

- Manufacturer Direct Control:**
- From extrusion to lamination to roll winding — full production in-house.
- Installer-Focused Engineering:**
- Safer grip, efficient overlaps, consistent quality across rolls.

Certifications & Compliance

- Intertek Certified Roofing Products
- Miami-Dade County Registered Manufacturer
- ASTM D226, D4869, E108 Class A Fire Ratings
- CSA A220.1 Compliant (where applicable)
- VOC-Free, Low Emission Construction

Private Label Supply Capabilities

- Available Options:**
- Custom Roll Widths (36", 48", 54")
 - Custom Roll Lengths (100 ft, 250 ft, 500 ft)
 - Private Branding (Logo Printing on Rolls)
 - Custom Packaging (OEM boxes, pallets, wraps)
 - Custom UV Exposure Ratings on Request

Full Private Label Support with Intertek Certified Products.

Typical Roofing Applications

- Asphalt Shingle Roofs
- Standing Seam Metal Roofs
- Clay and Concrete Tile Roofs
- Synthetic Slate and Composite Roofs
- Solar Roof Systems



- Code Ready:**
- Built to meet ASTM, ICC-ES, Energy Codes, and Miami-Dade County standards.
- Proven Durability Across USA:**
- Installed and tested in extreme coastal, desert, mountain, and humid climates.

Technical Product Summary Table

Variant	Basis Weight (GSM)	Roll Size	UV Exposure	Surface Grip	Fire Rating
Silver	90 GSM	4' X 250'	30–60 days	Medium Grip	Class A
Gold	110 GSM	4' X 250'	90–120 days	High Grip	Class A
Platinum	140 GSM	4' X 250'	Up to 150 days	Superior Grip	Class A
Daimond	160 GSM	4' X 250'	180 days	Superior Grip	Class A



Radiant Barriers

(Eco | Standard | Premium - Solid & Breathable)

Defending Buildings Against Heat, Moisture, and Energy Loss.

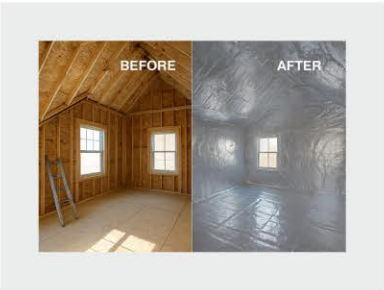
SmartBuild™ Radiant Barriers are a high-performance range of reflective insulation membranes designed to reduce radiant heat transfer in roofing and wall assemblies.

Available in **Solid (non-perforated vapor barrier)** and **Breathable (perforated vapor-permeable)** formats, they are engineered for energy-efficient construction across residential, commercial, and metal building applications.

Manufactured by Shish Industries Limited, an ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer (by Intertek),

SmartBuild™ radiant barriers combine high reflectivity, jobsite durability, and climate versatility.

- Reflects up to 97% of Radiant Heat
- Available in 1-side or 2-side reflective
- MPET or Pure Aluminium Foil Surface Options
- Solid & Breathable Formats
- Up to 8 ft width, custom lengths available
- Private Label & OEM Supply Programs Available



Certifications & Compliance

- ASTM E84 – Surface Burning, Class A (All Variants Including Eco)
- ASTM D5035 – Tensile Strength
- ASTM D4533 – Tear Strength
- ASTM C1313 – Reflective Insulation
- ISO 9001:2015 & ISO 14001:2015 Certified Manufacturer (by Intertek)
- VOC-Free, Low Emission Construction

Key Features

- Reflects up to 97% radiant solar energy
- Vapor-barrier or breathable for climate-specific use
- Available in MPET or Aluminium Foil facing
- Tear-resistant woven scrim reinforcement
- Up to 8 ft wide rolls with customized lengths
- Non-toxic, odourless, and VOC-free
- LEED® and Energy Star® project compatible

Structural Customization Available

SmartBuild™ offers **custom radiant barrier structures** tailored for OEM clients, contractors, and energy-efficient projects.

Available options include:

- 1-side or 2-side Reflective Surface
- MPET Film, Pure Aluminium Foil, Kraft Paper Laminate
- Polyethylene or Polyester Scrim Core
- Laminated Paper or Poly-Coated Structures
- Solid or Micro-Perforated Breathable Versions
- Roll Widths up to 8 ft; Custom Lengths from 100–500 ft

We build radiant barriers for your building science needs.

SmartBuild™ Radiant Barrier Product Range

- Radiant Barrier Eco
- Radiant Barrier Standard
- Radiant Barrier Premium



Private Label Supply Capabilities

OEM Services for Distributors & Builders:

- Custom Roll Widths (up to 8 ft)
- Custom Roll Lengths (100–500 ft)
- 1-side or 2-side Reflective Options
- Roll Core & Packaging Customization
- MPET or Pure Aluminium Surface Selection
- Fire-rated labelling support (ASTM E84 Class A)

Where to Use

- Under Roof Decking in Residential & Metal Buildings
- Behind Wall Siding / Cladding as Radiant Shield
- Inside Attics / Crawlspace for Retrofit Efficiency
- Under Radiant Floors
- Commercial Warehouses / Steel Structures

Technical Product Summary Table

Variant	Type	Basis Weight (GSM)	Reflectivity	Fire Rating	Widths Available
Eco	Solid / Breathable	~95 GSM	Up to 95%	Class A	Up to 8 ft
Standard	Solid / Breathable	~105 GSM	Up to 97%	Class A	Up to 8 ft
Premium	Solid / Breathable	~120–130 GSM	Up to 97%	Class A	Up to 8 ft



Pond Liners

Defending Ponds Against Leaks, UV, and Ground Movement.

SmartBuild™ Pond Liners are a complete family of high-strength polyolefin-based geomembranes engineered to provide long-term, leak-resistant containment in ponds, tanks, and water retention structures across agricultural, aquaculture, and industrial landscapes.

Constructed from woven polyolefin core laminated on both sides, these liners deliver excellent **puncture resistance, UV protection, and mechanical durability** — making them ideal for buried or exposed water containment use.

Manufactured by Shish Industries Limited —

an ISO 9001:2015 and ISO 14001:2015 Certified Facility —

SmartBuild™ Pond Liners are trusted across the U.S. and global export markets under both the SmartBuild™ brand and private label OEM programs.

- ASTM Tested (CBR, Tensile, Tear)
- NSF/ANSI 61 Certified Grades Available
- Supplied in 12 ft Wide Jumbo Rolls
- Custom Thickness & Structure Options for OEM Clients

Certifications & Compliance

- ASTM D6241 (CBR Puncture), D5035/D882 (Tensile), D1004, D5199
- NSF/ANSI 61 Drinking Water Contact (Optional – MOQ required)
- ISO 9001:2015 / ISO 14001:2015 Certified Manufacturing
- UV-Stabilized, Non-Toxic, VOC-Free
- Suitable for USDA, EPA, and international water containment standards

Key Features

Dual-Laminated Construction:

- Laminated polyolefin fabric on both sides for water-blocking and chemical resistance.

High Puncture & Tear Strength:

- Withstands rock bedding, installation tools, or base movement.

UV-Resistant & Long-Life:

- Stabilized for extended sun exposure in above-ground applications.

Foldable & Lightweight for Field Use:

- Supplied in jumbo rolls, easy to handle and install on site.

Flexible for Custom Design:

- Can be heat-seamed, jointed, or installed in multiple sheets for larger containment.

Pond Liner Product Range

- Silver
- Gold
- Platinum
- Daimond

Private Label Supply Capabilities

Available Options:

- **Thickness Range:** 20–60 mil
- **Roll Width:** 12 ft Jumbo Rolls
- Custom Roll Lengths per application
- **Private Branding:**
Pallet wrap, core labels, document inserts
- **Structure Customization:**
As per client recipe (MOQ applies)
- **NSF-Certified Formulation:** On request for potable or food-grade use

Full Private Label Support with U.S. Distributor Packaging

Typical Pond Applications

- Farm & Irrigation Water Storage
- Rainwater Harvesting Pits
- Fish Farming & Aquaculture Basins
- Ornamental Landscape Ponds
- Leachate Control Systems
- Slurry & Industrial Liquid Containment
- Canal, Channel & Ditch Lining
- Rooftop Rainwater Reservoirs

Technical Product Summary Table

Variant	Thickness	Weight	CBR Puncture	Tensile Strength (MD/CD)	Warranty
Silver	20 mil	~13.27 oz/yd ²	1213 lb	232 / 214 lb/in	5 Years
Gold	24 mil	~10.61 oz/yd ²	1207 lb	280 / 228 lb/in	10 Years
Platinum	30 mil	~13.57 oz/yd ²	1295 lb	287 / 215 lb/in	15 Years
Daimond	40 mil	~19.51 oz/yd ²	2170 lb	475 / 455 lb/in	25 Years



Silt Fence

(Standard & Pro Sediment Control Fabrics for Construction Perimeters)

Smart Protection Against Erosion, Runoff, and Regulatory Non-Compliance.

SmartBuild™ Silt Fence is a construction-grade woven fabric barrier designed for temporary sediment control, runoff management, and site perimeter protection in compliance with erosion control regulations.

Available in two variants — Standard and Pro — these silt fences are engineered for durability, water flow performance, and jobsite reliability.

Manufactured from UV-stabilized woven polyolefin fabric, they can be supplied with or without pre-attached wooden stakes, and are fully customizable for private-label programs.

Manufactured by Shish Industries Limited,

an ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer,

SmartBuild™ Silt Fence meets the requirements of U.S. EPA guidelines and supports compliance with stormwater pollution prevention plans (SWPPP).

- Standard & Pro Variants
- ASTM-Tested for DOT and Commercial Projects
- Custom Branding, Sizes & Stake Formats Available
- OEM & Distributor-Ready Packaging Options



Product Variants

Silt Fence – Standard

- Lightweight fabric ideal for short-term or low-traffic projects
- Compatible with manual installation and rural applications
- Best for low slope or small footprint jobsites

Silt Fence – Pro

- Heavier-weight fabric with higher tensile and puncture strength
- Designed for DOT, urban development, and SWPPP projects
- Suitable for longer installations, steep slopes, or frequent runoff events

Construction

- **Material:** UV-stabilized woven polyolefin (slit-film)
- **Color:** Black (custom colors available upon request)
- **Stake Option:** Hardwood, 1.5" × 1.5" × 36"/42" — spaced at 6, 8, or 10 ft
- **Edge Finish:** Heat-cut, hemmed, or stitched depending on order
- **Perforation:** Not perforated (sediment barrier)

Applications

- Construction perimeters
- Sediment trap zones
- Roadside erosion control
- Slope runoff prevention
- Land clearing and grading
- Temporary sediment retention near water bodies

Technical Specifications

Attribute	Standard Variant	Pro Variant
Weight (GSM)	~90 GSM (2.65 oz/yd²)	~100 GSM (2.95 oz/yd²)
Water Flow Rate	167 L/m²/s (ASTM D4491)	160–165 L/m²/s
Grab Tensile Strength	MD: 145 lbs / CD: 72 lbs	MD: 160 lbs / CD: 90 lbs (ASTM D4632)
Trapezoid Tear Strength	MD/CD: 25 lbs	MD/CD: 30 lbs (ASTM D4533)
UV Resistance	> 70% after 2,500 hrs	> 75% after 2,500 hrs (ASTM D4355)
CBR Puncture	432 lbs (1920 N)	475 lbs (2112 N) (ASTM D6241)
Roll Sizes	2 ft, 3 ft, 4 ft × 100–300 ft	Same
Stake Spacing	6–10 ft (optional)	6–8 ft preferred for Pro
VOC-Free	Yes	Yes

Key Benefits

- Meets U.S. EPA and DOT sediment control requirements
- Available in lightweight or reinforced formats
- UV-resistant fabric lasts months under jobsite exposure
- Compatible with trench or surface installation
- Fast deployment with or without stakes
- Recyclable and non-toxic

Private Label & OEM Options

- Custom roll length and height
- Private label packaging with branding (sleeve, label, or outer wrap)
- With or without pre-attached stakes
- Palletized, carton, or site-ready bundling
- Custom color stripe or logo woven into fabric (volume MOQ)

Disclaimer

Product specifications are based on lab testing and ASTM methodology. Project engineers must confirm suitability per jobsite slope, soil, and regulatory compliance. Shish Industries Limited is not responsible for incorrect application or use beyond recommended service life.



Weed Control Fabric

(Durable Landscape Fabric for Long-Term Weed Suppression & Ground Stabilization)

Engineered for Drainage, Soil Separation, and Sustainable Site Management

SmartBuild™ Weed Control Fabric is a high-strength woven polyolefin fabric designed for long-lasting weed suppression, moisture flow, and erosion control in landscaping, agriculture, and civil site prep applications.

Constructed from **non-laminated woven polyolefin**, this fabric allows water and nutrients to pass through while blocking sunlight to prevent unwanted weed growth. It installs quickly with stakes or staples, resists UV degradation, and is suitable for use under mulch, gravel, turf, or in open soil.

Manufactured by **Shish Industries Limited**,

an **ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer**,

SmartBuild™ Weed Control Fabric is available in standard formats or custom roll dimensions and GSMs for private-label clients.

- 90 GSM Standard Fabric
- Woven, Non-Laminated, Breathable Structure
- Custom Size, GSM & Branding Available
- ASTM-Tested | VOC-Free | UV-Stabilized



Construction

- **Material Type:** Non-laminated woven polyolefin
- **Color:** Black (standard)
- **Weave Type:** Slit-film woven structure
- **Finish:** Slightly textured for grip under mulch or gravel
- **Customization:** Width, GSM, and roll length upon request

Applications

- Under mulch or gravel in garden beds
- Farm and nursery weed suppression
- Turf installation and sod separation
- Driveway edge stabilization
- Erosion control on slopes and embankments
- Greenhouse, landscape, and civil sites
- Under pavers or walkways

Technical Specifications

Attribute	Value
Material	Polyolefin Woven (Uncoated)
Weight	2.65 oz/yd² ±5% (90 GSM)
Water Permeability	0.05 sec ⁻¹ (ASTM D4491)
Flow Rate	4.1 gal/min/ft² ≈ 167 L/m²/s (ASTM D4491)
Grab Tensile Strength	MD: 145 lbs / CD: 72 lbs (ASTM D4632)
Trapezoid Tear Strength	MD: 25 lbs / CD: 25 lbs (ASTM D4533)
UV Resistance	Retains >70% strength after 2,500 hrs exposure
CBR Static Puncture	432 lb / 1920 N (ASTM D6241)
Roll Sizes	3 ft, 4 ft, 6 ft, 8 ft × 300 ft (standard)
Fire Rating	Not rated
VOC Content	VOC-Free, Recyclable



Key Benefits

- Blocks sunlight and inhibits weed growth
- Water permeable – allows rainfall and irrigation through
- Excellent tensile, tear, and puncture strength
- UV stabilized for outdoor exposure
- No fraying or fiber loss – clean cuttable edges
- Fast, easy installation with staples or pins
- Available for private-label supply with full documentation

Private Label & Custom Options

- Custom widths (up to 12 ft) and lengths
- White or coloured indicator stripes for planting grids
- OEM branding via sleeve label or core printing
- Shrink-wrapped or boxed per distributor format
- Custom GSM options from 70 GSM to 150 GSM
- ASTM data sheets and compliance documents provided

Disclaimer

All technical data provided is based on current lab test results and manufacturing standards. Suitability must be verified by the installer or project engineer based on site conditions. Shish Industries Limited assumes no liability for installation outside of recommended scope.



House Wrap

(Breathable & Solid Wall Wraps for Air & Moisture Control)

Smart Envelope Protection for Residential and Commercial Buildings

SmartBuild™ House Wrap is a high-performance wall wrap designed to provide a **durable air and moisture barrier** for exterior wall assemblies while supporting energy efficiency and indoor comfort.

Constructed from a **polyolefin woven fabric laminated with a polyolefin film**, SmartBuild™ House Wrap is available in both **perforated (breathable)** and **non-perforated (solid)** versions — making it ideal for ventilated façade systems, wood-frame residential projects, and prefabricated wall applications.

Manufactured by **Shish Industries Limited**,

an **ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer**,

SmartBuild™ House Wrap is also available as an OEM/private-label product, with roll widths **up to 9 ft** and client-specific technical customization.

- Breathable or Solid Versions (Per Requirement)
- UV-Stabilized, Tear-Resistant Construction
- Roll Widths up to 9 ft | Private Label Supported
- Fast Installation – Staple, Cap Nail, or Tape



Construction

- **Structure:** Polyolefin woven base laminated with polyolefin film
- **Film Type:** Perforated (Breathable) or Non-Perforated (Solid)
- **Color:** Standard white or custom on request
- **Printing:** Optional private label branding available
- **Finish:** Smooth or lightly textured

Applications

- Behind siding, fiber cement, or engineered cladding
- Residential and light commercial wood or steel framing
- Modular and SIP panel assemblies
- Brick veneer systems and ventilated façades
- Prefab or mobile home exterior wall protection

Technical Specifications

Attribute	Value
Basis Weight	~90 GSM (2.65 oz/yd² ±5%)
Type	Breathable or Solid
Construction	Polyolefin Woven + Laminated Film
Vapor Permeability	Breathable: ≥ 10 perms (ASTM E96)
Water Resistance	Pass (ASTM D779)
Tensile Strength	MD: ≥ 40 lbf / CD: ≥ 30 lbf (ASTM D5035)
Tear Resistance	MD & CD: ≥ 15 lbf (ASTM D4533)
UV Resistance	Up to 4 months (before cladding)
Roll Width	Standard: 3 ft / 9 ft
Roll Length	100–200 ft (customizable)
Fire Rating	Optional – upon request
VOC Content	Zero – VOC Free



Key Benefits

- Provides a continuous air & moisture barrier
- Breathable version supports vapor diffusion
- Helps reduce condensation and mold risk
- Compatible with mechanical fasteners or tapes
- UV-stable and tear-resistant on exposed jobsites
- Meets performance requirements for residential energy codes
- Non-toxic, fiber-free, and VOC-free

Private Label & Custom Options

- **Roll Widths:** 3 ft, 4 ft, 9 ft (custom up to 9 ft)
- **Lengths:** 100 ft, 150 ft, 200 ft
- Breathable or Solid Type as per buyer specs
- Custom printing with branding or technical data
- Packed in cartons, pallet-wrap, or OEM bundles
- Full compliance documents available for large-volume orders

Disclaimer

All technical values are based on typical product configurations. Final suitability depends on local climate, code requirements, and installation methods. Shish Industries Limited assumes no liability for misuse or code non-compliance.



Bubble Foam Barrier

(High-Performance Multi-Layer Insulation for Roofs, Walls & Cold Storage)

Engineered for Maximum Thermal Efficiency and Structural Protection.

SmartBuild™ Bubble Foam Barrier is a heavy-duty reflective insulation material constructed from multiple layers of air bubble film and polyethylene foam, laminated with reflective MPET foil on both sides.

This advanced structure offers exceptional thermal resistance, moisture control, and impact cushioning, making it ideal for high-performance insulation in cold storage units, metal buildings, radiant floors, and roof/wall assemblies requiring superior R-value and durability.

Manufactured by Shish Industries Limited, +
an ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer,

SmartBuild™ Bubble Foam Barrier combines engineering-grade materials, jobsite flexibility, and global private label support for diverse construction needs.

- Solid (Non-Breathable) Vapor Barrier
- MPET Foil Both Sides – Dual Reflectivity
- Sound Absorption + Thermal Shield
- Roll Format – 25 mm Thickness



Product Construction

- Layered Structure (Exterior to Core):
- MPET Foil (Top)
 - 3-Layer 10 mm Air Bubble Sheet
 - 5 mm Polyethylene Foam (Core)
 - 3-Layer 10 mm Air Bubble Sheet
 - MPET Foil (Bottom)
 - **Total Thickness:** ~25 mm
 - **Vapor Permeability:** Solid (non-perforated)
 - **Weight:** Approx. 700 GSM (20.65 oz/yd²)

Key Features & Benefits

- Reflects radiant heat – up to 97% reflectivity
- Superior insulation – high R-value (approx. 5.0–6.0)
- Vapor barrier – blocks moisture intrusion
- Impact protection – compressible bubble + foam core
- Dual-sided reflectivity for flexible installation
- Fire-rated, VOC-free, odorless
- Compatible with metal roofs, radiant floors, wall panels, cold rooms
- Available in roll form – easy to cut, bend, and fit

Technical Specifications

Thickness	~25 mm
Weight	~700 GSM (20.65 oz/yd² ±5%)
Reflectivity	Up to 97%
Surface	MPET Foil (2-side reflective)
Vapor Permeability	Solid (Non-perforated)
Fire Rating	Class A (ASTM E84)
VOC Content	Zero – VOC Free
R-Value	Approx. 5.0 – 6.0
Roll Width	1.2 meters (Standard)
Custom Widths	Up to 1.5 meters
Roll Length	40 ft (Standard) / Custom upon request

Typical Applications

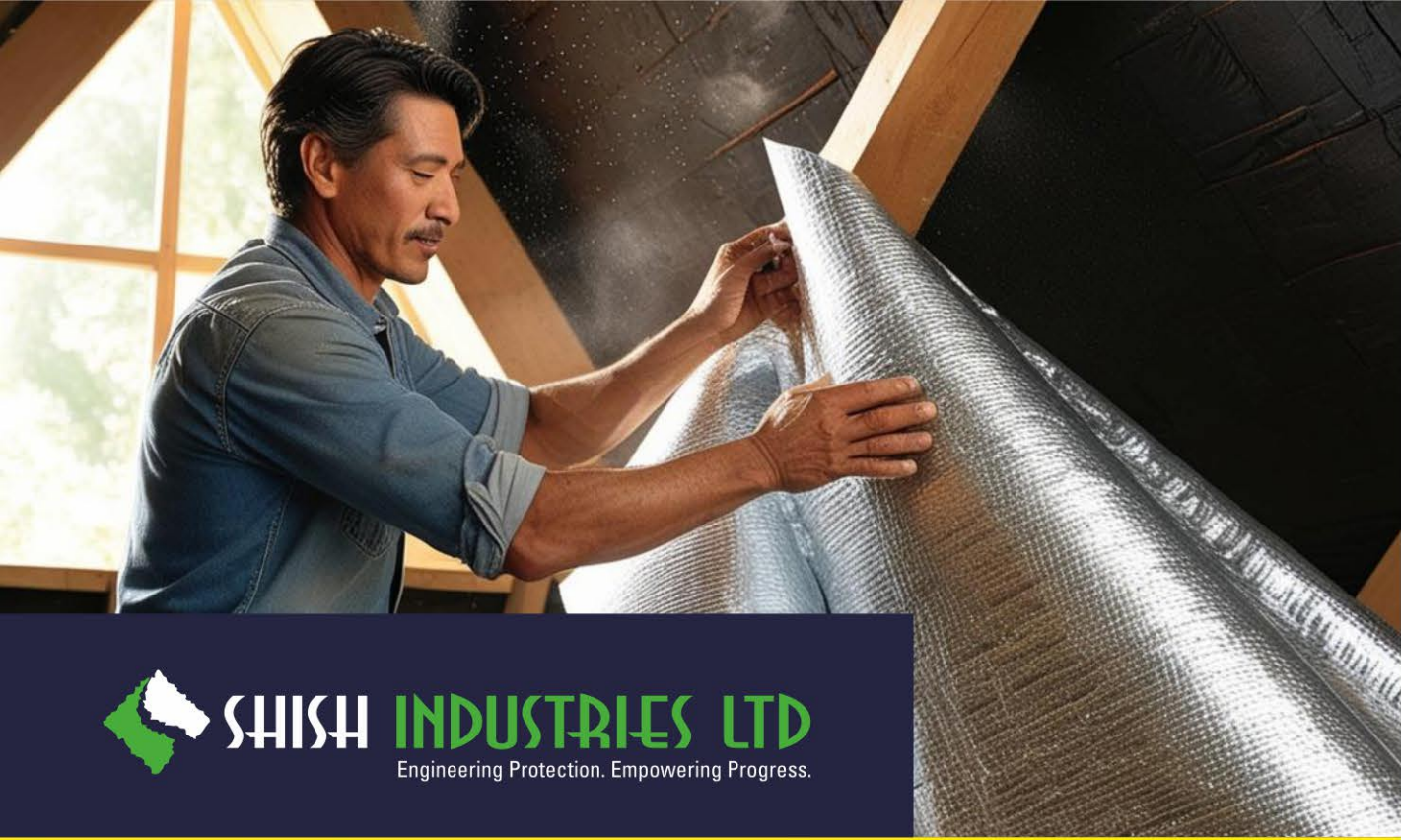
- Cold Storage Walls & Ceilings
- Roof Insulation for Metal Buildings
- Radiant Heated Floor Systems (Underlay or Panel)
- Warehouse Interior Walls
- Partitioning in Commercial/Industrial Spaces
- Garage Doors, Sheds, Workshops

Private Label & OEM Options

- MPET Surface – Dual Reflective
- Core Foam + Dual Bubble – Custom Thickness (upon request)
- Branded Label Packaging (no surface printing)
- Custom Roll Dimensions (width & length)
- Palletized or Carton-Pack Shipping
- Full OEM Documentation for Distributors

Disclaimer

Product performance depends on installation quality, climate, and application type. Installers must verify project-specific requirements and code compliance. Shish Industries Limited assumes no liability for misuse or non-standard application.



SmartBuild™ Foam Barrier

(Reflective Foam Insulation for Roofs, Walls & HVAC Wraps)

Smart Thermal Protection. Lightweight. Durable. Installer-Friendly.

SmartBuild™ Foam Barrier is a high-performance, flexible thermal insulation solution constructed from **4 mm thick closed-cell polyethylene (PE) foam**, laminated on one side with reflective MPET foil and on the other with a woven poly scrim for durability.

Engineered to deliver effective radiant heat reflection, moisture control, and lightweight handling, this product is ideal for **metal buildings, HVAC wrap, wall insulation, and light commercial roofing assemblies.**

Manufactured by **Shish Industries Limited**,

an **ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer**,

SmartBuild™ Foam Barrier is VOC-free, Class A fire-rated, and optimized for efficient installation in new construction or retrofit projects.

- Solid Vapor Barrier (Non-Perforated)
- MPET Reflective Surface
- Tear-Resistant Bottom Scrim
- Flexible & Water-Resistant



Product Construction

- **Top Surface:** MPET Foil – 1-side reflective
- **Core:** 4 mm thick closed-cell polyethylene foam
- **Bottom Surface:** Poly-woven scrim (white or custom)
- **Structure:** Laminated 3-layer construction
- **Vapor Behavior:** Solid vapor barrier (non-perforated)

Key Features & Benefits

- Reflects up to 97% of radiant heat
- Solid vapor barrier – blocks air & moisture
- Flexible for wall, roof, or duct wrap applications
- Water-resistant closed-cell foam core
- Clean, non-toxic, VOC-free
- Tear-resistant woven base for easy mechanical fastening
- Lightweight and easy to cut and install
- Class A fire-rated for code-regulated construction

Technical Specifications

Attribute	Value
Core Thickness	4 mm
Basis Weight	~175 GSM (5.16 oz/yd² ±5%)
Reflectivity	Up to 97%
Surface Type	1-side MPET foil / 1-side woven scrim
Vapor Permeability	Solid – Non-perforated
Fire Rating	ASTM E84 Class A
R-Value (approx.)	1.6 – 1.8
Roll Width	1.2 meters (standard)
Custom Widths	Up to 1.5 meters
Roll Length	125 ft (standard) / custom lengths available
VOC Emissions	Zero – VOC Free

Applications

- Roof under-deck or purlin insulation
- HVAC duct wrap (residential & commercial)
- Wall cavity insulation (steel or timber)
- Garage or workshop wall panels
- Prefabricated / PEB metal buildings
- Cold storage sidewalls (light-duty)

Private Label & OEM Options

- MPET foil + white scrim laminate
- Branded label packaging (no roll printing)
- **Roll widths:** 1.0 – 1.5 meters
- **Roll lengths:** 50 – 125 ft
- Palletized or carton-packed for export
- Class A fire rating certification on request

Disclaimer

Product performance may vary by application, installation, and climate. Installer must ensure compatibility with local codes. Shish Industries Limited disclaims liability for misuse or non-compliant installation.



Foam & Bubble Insulation

(Smart Thermal Barriers for Roofs, Walls, and HVAC)

Designed for Energy Efficiency, Moisture Protection, and Durability.

SmartBuild™ Foam & Bubble Insulation is a category of high-performance multilayer reflective insulations engineered to improve thermal comfort and energy efficiency in a wide range of building envelope applications.

These systems combine closed-cell polyethylene foam, air bubble layers, and reflective foil surfaces to create lightweight, vapor-resistant, and thermally effective insulation materials for roofs, walls, and HVAC systems.

Manufactured by Shish Industries Limited,

an ISO 9001:2015 and ISO 14001:2015 Certified Manufacturer,

SmartBuild™ insulation products are engineered to deliver reliable, installer-friendly, and code-compliant performance in both residential and commercial projects.

- Solid Vapor Barrier (Non-Perforated)
- MPET or Pure Aluminium Foil Surfaces
- Lightweight, Sound-Dampening, and Moisture-Resistant
- Supplied in Roll Form – Custom Sizes Available
- Private Label and OEM Supply Supported



Product Range

SmartBuild™ Foam Barrier

A 4 mm reflective insulation made of **polyethylene foam** core, laminated on one side with reflective foil and the other with poly-woven scrim.

- **Use Case:** Roof decks, HVAC wrap, wall insulation, sheds
- **Performance:** Moderate R-value, water-resistant, impact-absorbent
- **Surface Type:** 1-side foil reflective, 1-side woven scrim
- **R-Value (approx.):** 1.6 – 1.8
- **Vapor Permeability:** Solid (non-perforated)

Key Features

- Multi-layer reflective insulation combining air gap, foam, and foil
- Reduces radiant and conductive heat gain/loss
- Closed-cell core provides moisture resistance and acoustic damping
- Tear-resistant, compressible, and installer-friendly
- Solid vapor barrier for protection in humid or enclosed spaces
- Clean installation – no fibers, no off-gassing, no odor
- Lightweight and ideal for retrofits and new construction

SmartBuild™ Bubble Foam Barrier

A multilayer insulation composed of **5 mm foam core** sandwiched between **two 10 mm air bubble layers**, with **metalized polyester film on both sides**.

- **Use Case:** Cold storage, attics, metal building insulation, duct wrap
- **Performance:** High compressibility, dual reflective, superior thermal resistance
- **Structure:**
- **Outer:** MPET Foil
- **Layers:** Bubble + Foam + Bubble
- **Core:** Polyethylene foam
- **Thickness:** Approx. 25 mm
- **R-Value (approx.):** 5.0 – 6.0
- **Vapor Permeability:** Solid (non-perforated)

Applications

- Under Metal Roof Panels
- Wall Cavity Insulation (Steel or Timber Framing)
- HVAC Duct Wrap
- Cold Storage Partitioning
- Garage Door or Shed Lining
- Prefabricated or PEB Buildings
- Attic Floor or Roof Rafter Installations

Customization & Supply Capabilities

Roll Widths	Up to 1.5 meters
Roll Lengths	10 m to 50 m (custom)
Surface Foil	MPET (metalized polyester) or Pure Aluminium
Core Thickness	4 mm (Foam) / 25 mm (Bubble Foam)
Branding	Branded label
Packaging	Carton-packed rolls / palletized options