



**PROTECTO-DRAIN
RANGE**

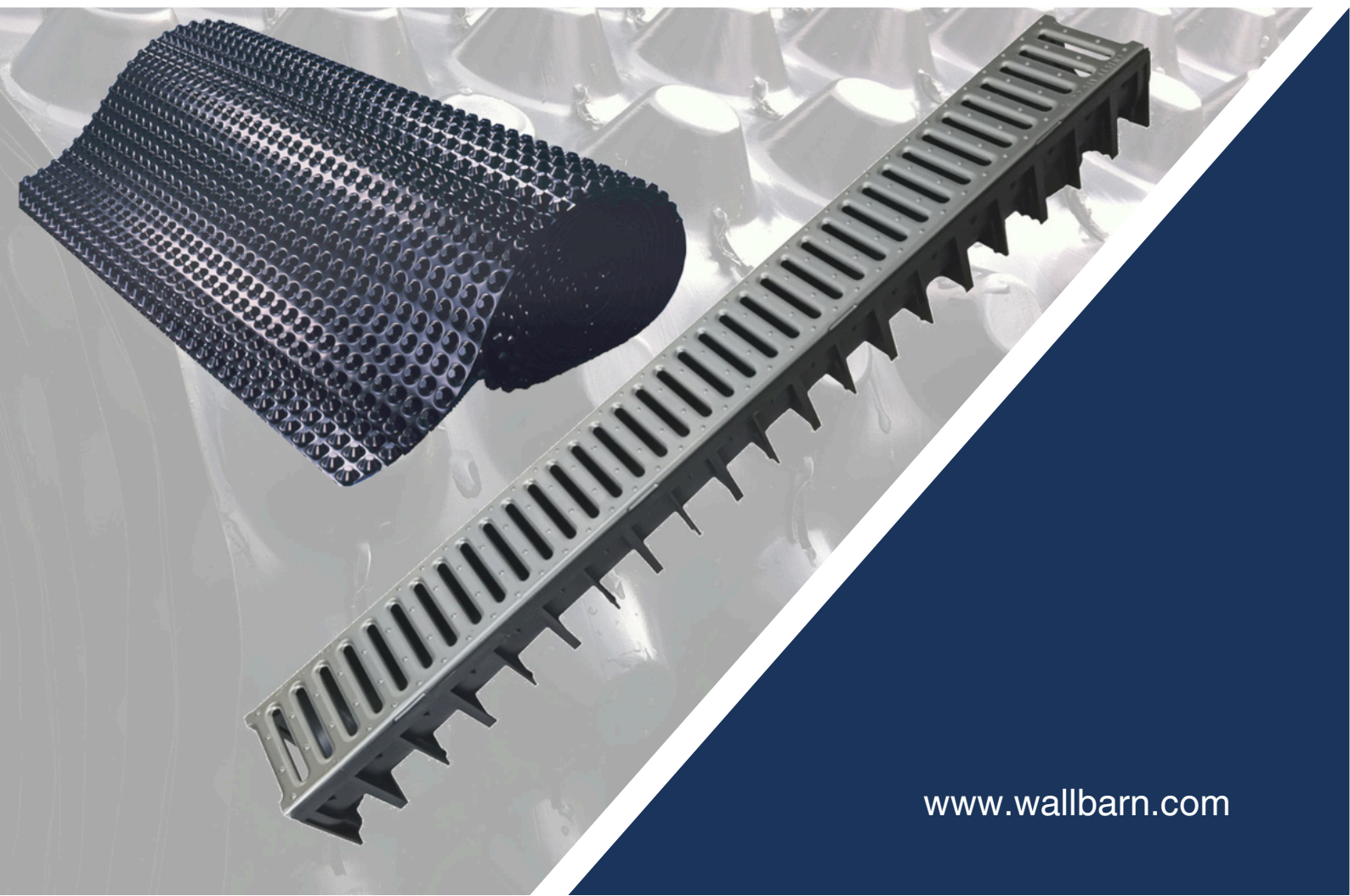


TABLE OF CONTENTS

1	Protecto-Drain Drainage Channel
2	Protecto-Drain 8
3	Protecto-Drain G8
4	Protecto-Drain 20
5	Protecto-Drain 20P
6	Protecto-Drain 20G
7	Protecto-Drain 40P
8	Protecto-Drain 60P
9	Protecto-Drain Accessories
10	Contact Details



Drainage Channel

Our Drainage Channel is a high-quality solution for effective surface water management in various settings. Constructed from durable materials, it features a modular design for easy installation and maintenance, making it suitable for both domestic and public applications. The anti-slip galvanized steel grate ensures safety, while the environmentally friendly composition guarantees sustainability.

Key Features

- **Effective Surface Water Management:** Efficiently channels surface water to designated outlets.
- **Anti-Slip Grate:** Features a galvanized steel grate with an anti-slip design.
- **Simple Installation:** Designed for quick and easy installation.
- **Modular Design:** 1m sections easily join together for a seamless channel.
- **Versatile Use:** Suitable for pedestrian and lightly trafficked areas.
- **Certified Quality:** CE marked and fully certified to Load Class A15 BS EN 1433.
- **Eco-Friendly:** Made from 100% recyclable materials.
- **Accessory Pack Available:** Options for drainpipe connection.

Applications

Domestic Applications: Driveways, gardens, and patios.

Public Areas: Pedestrian walkways, recreational areas, schools, parks, and playing fields.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 8

Protecto-Drain 8mm is a high-quality dimpled membrane designed for foundation wall protection and sub-base applications. This product features 8mm high dimples and is constructed from high-density polyethylene (HDPE), known for its durability and environmental benefits.

Key Features

- **Material Composition:** Made from high-density polyethylene (HDPE), ensuring strength and longevity. HDPE is neutral to groundwater, pollutant-free for disposal, and recyclable.
- **Dimple Design:** The membrane features 8mm high dimples, providing an effective air gap that facilitates drainage and soil aeration.
- **Temperature Resistance:** Capable of withstanding temperatures ranging from -30°C to +80°C, making it suitable for various climates and conditions.
- **Chemical and Biological Resistance:** The membrane is resistant to chemicals, rot-proof, and resistant to bacteria and fungi, ensuring long-term reliability and safety.

Applications

- **Foundation Wall Protection:** Isolates and protects external structures from surrounding soil.
- **Retaining Walls and Podium Decks:** Ideal for use in retaining walls, podium decks, and external tanking.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain G8

The dual-layer system features Wallbarn's 8mm studded HDPE membrane paired with a nonwoven geotextile. This geotextile is made from UV-stabilised, high-tenacity virgin polypropylene fibres that are mechanically entangled to provide superior strength, extensibility, loft, and abrasion resistance. The geotextiles undergo thermal treatment to reduce thickness while maintaining outstanding mechanical properties.

Key Features

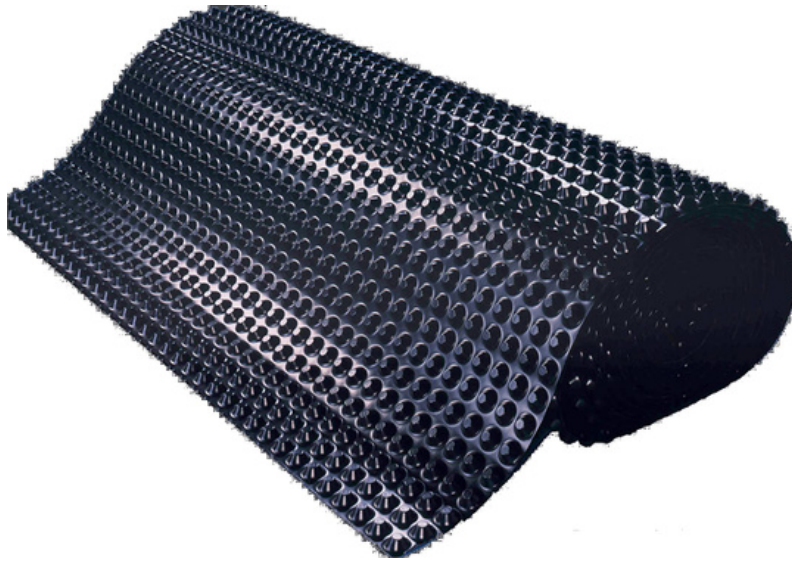
- **Versatile Application:** Suitable for all types of construction.
- **Efficient Water Management:** Drains water before it reaches the waterproof coating.
- **Integrated Drainage and Protection:** Combines the functions of a drainage and protection board.
- **Effective Filtration:** Filtration layers prevent silting.
- **Practical Back-Filling:** Allows back-filling with excavated earth.
- **High Performance:** Offers high compressive strength and drainage capacity.

Applications

- **Structural Protection:** Isolates and protects external structures from surrounding soil.
- **Ideal Applications:** Perfect for retaining walls, podium decks, and external tanking.
- **Pressure Relief:** Helps relieve hydrostatic pressure from the structure's surface.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 20

Our Heavy Duty Dimpled Drainage Sheetting is designed for robust use in foundation walls, tunnels, bridges, and civil engineering projects. Made from strong and flexible HDPE, this sheetting features a high compression strength and a unique 20mm dimpled profile, ensuring effective drainage and protection in demanding environments.

Key Features

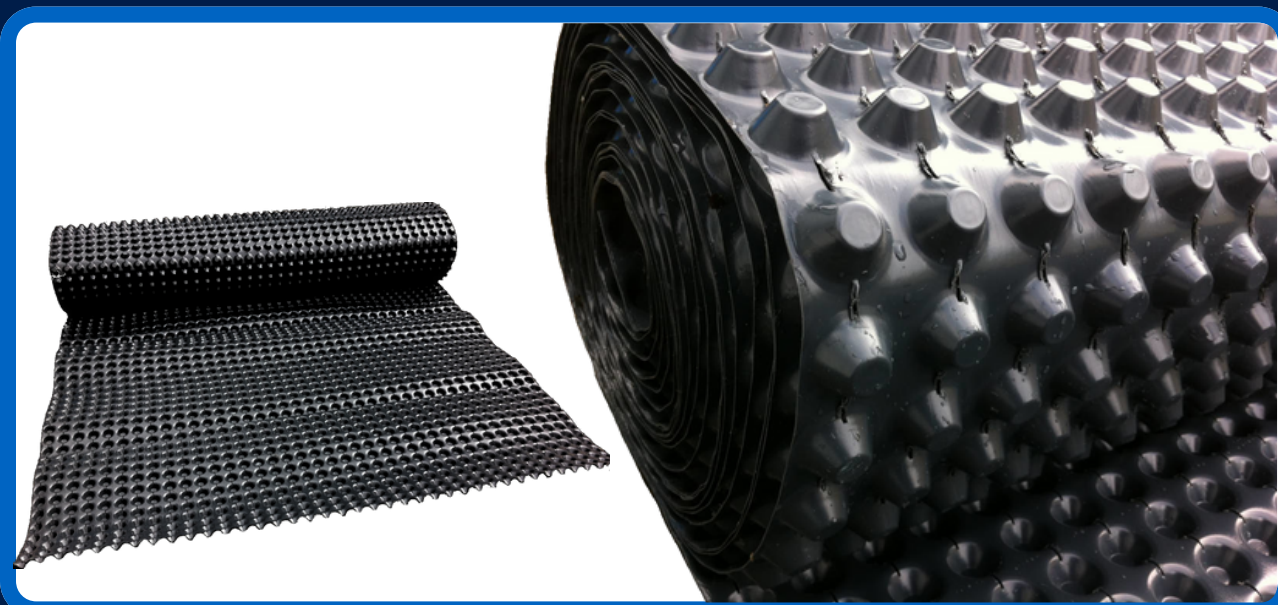
- **Material:** Made from strong, flexible HDPE.
- **High Compression Strength:** Features a dimpled ("egg box") 20mm cup profile.
- **Efficient Air Gap:** Cupped profile ensures a constant air gap between layers of concrete.
- **High Drainage Capacity:** Effectively manages larger quantities of groundwater and drainage.
- **Versatile Application:** Suitable for use in both vertical and horizontal planes.
- **Eco-Friendly:** Does not pollute the water runoff.

Applications

- **Heavy Groundworks:** Ideal for tunnel lining and road construction.
- **Waterproofing and Protection:** Acts as a protective layer between layers of concrete.
- **Foundation Sealing:** Ensures effective sealing of building envelopes on new builds, including foundations.
- **Water Management:** Controls subterranean water by channeling it to effective drainage.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 20P

Our Heavy Duty HDPE Dimpled Drainage Board is specially designed for green roofing applications. Suitable for a variety of green roof systems, including sedum roofs, wildflower and biodiverse roofs, and roofs with grasses and dwarf plants, this board supports substrates up to a depth of 200mm. It is lightweight, tough, and flexible, capable of holding water within its profile to nourish vegetation while ensuring efficient drainage.

Key Features

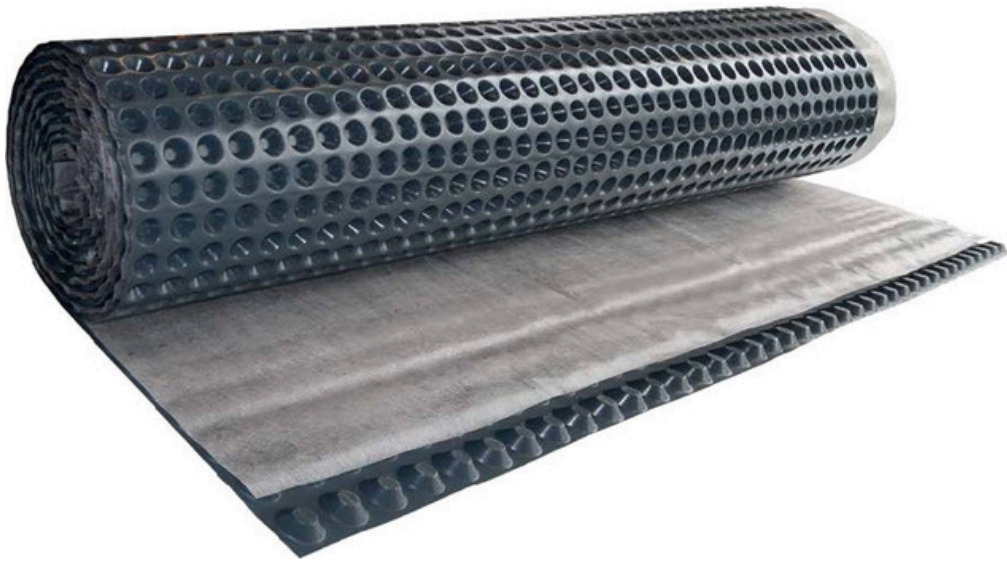
- **Versatile Use:** Ideal for extensive green roof systems, including sedum roofs, wildflower and biodiverse roofs, grasses, and dwarf plants, with substrates up to 200mm deep.
- **Water Retention:** Holds water within its profile to nourish vegetation above the filtration layer (5 litres per m²).
- **Eco-Friendly:** Does not pollute the water runoff.

Applications

- **Excess Water Drainage:** Excess water dissipates through the perforations between each cup and through the drainage channel out into the outlet.
- **Air Gap:** Provides an air gap to allow free drainage of water.
- **Water Reservoir:** Water held in reservoir cups can be drawn back into the substrate during dry periods.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 20G

Wallbarn Protecto-Drain G20 is a robust 20 mm high protection and drainage system designed for high-performance horizontal and vertical surface drainage on pressure-resistant surfaces. This system consists of a 20 mm high dimpled membrane combined with a durable Typar non-woven geotextile.

Key Features

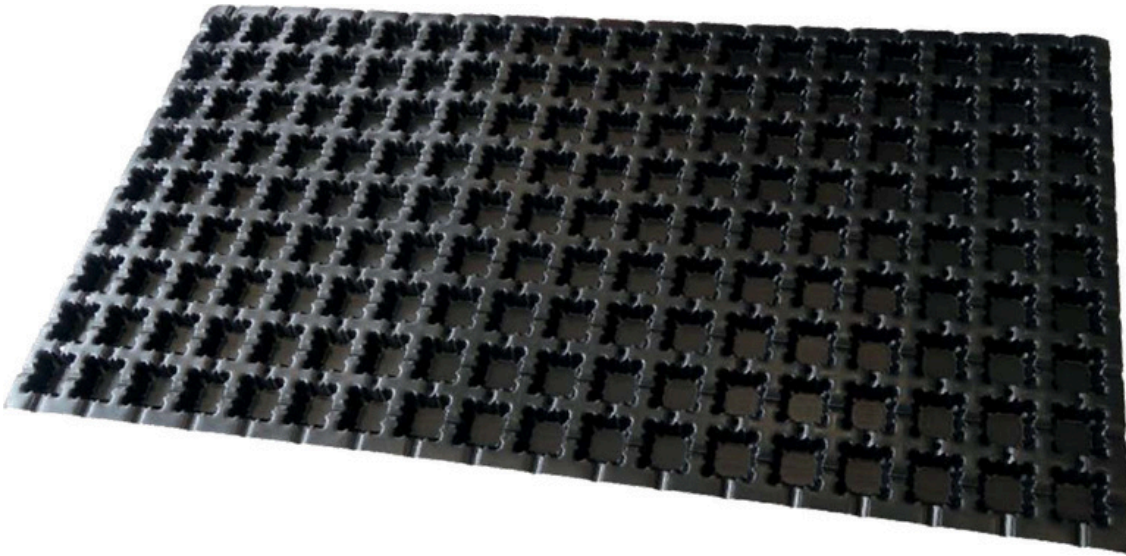
- **Uniform Load Distribution:** The smooth backside ensures uniform and extensive load distribution on the waterproofing layer, protecting it from mechanical damage and thermal stresses.
- **High Pressure Resistance:** With a pressure resistance of 180 kN/m², PD G20 can support loads up to 18 tonnes when installed.
- **Superior Drainage Capacity:** The water drainage capacity is approximately 30 times higher than required by drainage standard DIN 4095, ensuring excellent performance in preventing waterlogging.
- **Recycled and Recyclable HDPE Core:** Environmentally friendly with a core made from recycled and recyclable HDPE.

Applications

Wallbarn Protecto-Drain G20 is ideal for use in protecting waterproofing layers on various surfaces, ensuring effective drainage and preventing waterlogging. It is particularly suited for deep outer basement walls, underground car park roofs, patios, and green flat roofs.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 40P

The 40mm dimpled drainage layer is a critical component in green roof installations, engineered to manage both water retention and efficient drainage. This layer is constructed from high-density polyethylene (HDPE), a durable and flexible material known for its high compression strength and longevity in various environmental conditions. The design features dimples that create essential air gaps, facilitating aeration of the soil and promoting healthy root growth.

Key Features

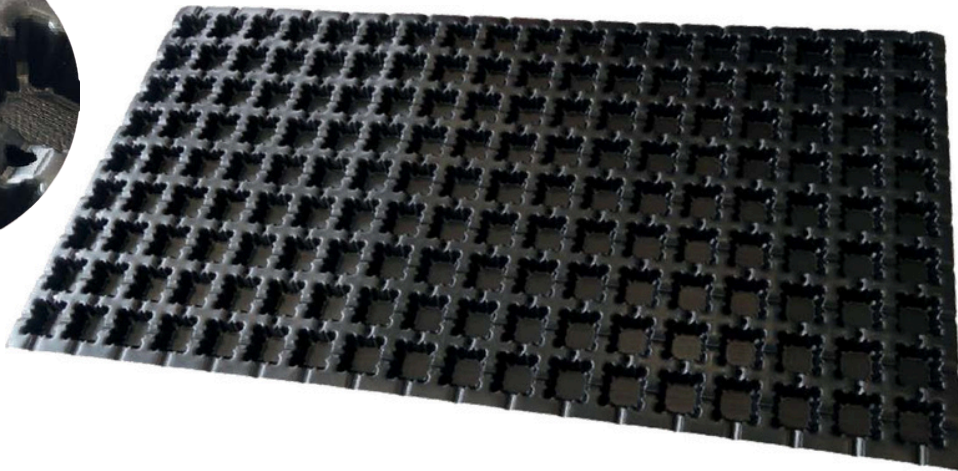
- **Efficient Water Management:** The dimples allow for water retention within the cups, holding approximately 15 litres per square metre. This stored water can be drawn back into the substrate during dry periods, reducing the need for frequent irrigation.
- **Enhanced Drainage:** Excess water percolates through the perforations between the dimples and is directed away from the roof through drainage channels, preventing waterlogging and ensuring proper drainage.
- **Robust Application:** The 40mm drainage layer is ideal for intensive green roof systems that require substantial substrate depth to support a diverse range of plants, including shrubs and small trees, rather than just sedum or turf grass.

Applications

For optimal performance, the 40mm dimpled drainage layer should be integrated into a comprehensive green roof system that includes appropriate waterproofing, protection layers, and adequate substrate depth.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain 60P

The 60mm dimpled drainage layer is used as part of intensive green roof systems to manage water retention and drainage. It is made from high-density polyethylene (HDPE), which features dimples that create air gaps which facilitate aeration of the soil.

Key Features

- **Efficient Water Management:** The dimples retain water within the cups, holding approximately 20 litres per square metre. This reservoir provides moisture to the substrate during dry periods, reducing the need for frequent irrigation and supporting plant vitality.
- **Dimpled Design:** The 60mm dimples form air gaps that enhance soil aeration, critical for root respiration and robust plant growth.
- **Versatile Use:** While designed for intensive systems, it can also be applied to sedum or wildflower green roofs where a substantial substrate layer is specified, making it a flexible choice for various green roof designs.
- **Efficient Drainage:** Excess water flows through the perforations between the dimples and is channelled away, preventing waterlogging and ensuring effective drainage.

Applications

For optimal performance, the 60mm dimpled drainage layer should be integrated into a comprehensive green roof system that includes appropriate waterproofing, protection layers, and adequate substrate depth. Regular maintenance, including irrigation during dry periods and monitoring of plant health, is essential to ensure the sustainability of the green roof.

Technical Datasheet : [See & Download](#)

[See product on the Website](#)



Protecto-Drain Accessories

Cover Profile



A Cover Profile is utilised as the top finishing element on dimpled and drainage membranes. It effectively prevents stones and soil from falling behind the dimpled sheet. Equipped with pre-punched holes, the profile can be securely fastened to masonry. The plastic profile is designed for use in non-visible areas.

Fixing Studs



Steel fixing studs and mounting knobs are used for the efficient installation of dimpled sheets, fastening them to concrete and masonry. The mounting knobs prevent the dimpled sheets from tearing the membrane and help to seal the fixing hole.

Butyl Fixing Tape



The Butyl Fixing Tape is a 0.6 mm thick, high-bonding, waterproof, self-sealing butyl rubber with excellent cohesion, strength, and ageing resistance. It is ideal for sealing and bonding wind and vapour barriers, underlay sheets, dimpled and drainage membranes, and masonry barriers. Perfect for connecting underlay membranes to building components or LDPE vapour barriers, the tape offers permanent water resistance.

[See product on the Website](#)



Website : www.wallbarn.com

Email : sales@wallbarn.com

Phone : 0208 916 2222

**Unit 16 Capital Business Centre
22 Carlton Road
South Croydon
CR2 0BS**