

ShaliDrain 12F

HDPE Dimpled Board with Fleece



STP Limited

Description

ShaliDrain 12F is a Drain Board and high-density Polyethylene (HDPE) Dimpled Board fitted with 110 GSM polypropylene geotextile. It is light weight, flexible, Strong, durable, Non-toxic, dimpled sheet board with dimple height of 12 mm. It is impermeable to water and water vapour. It is used for protecting the water Proofing Membrane in basement walls.

Product Information

Handling & Storage	ShaliDrain 12F rolls must be stored in original package in horizontal position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow, ice, etc.
Packaging	Available in 2.3 m width (Tolerance $\pm 3\%$) & 20 m length (Tolerance $\pm 2\%$).
Shelf Life	More than 25 Year (at pH-4 to 9 and temperature $<25^{\circ}\text{C}$) if it is stored and used correctly.
Handling Precautions	The membrane should not be exposed to UV Light for more than 30 days.

Technical Characteristics at 27°C, 55% RH*

Total Weight, gm / m ²	EN 9864	870
Dimple Height, mm	EN 9863-1	12
Dimple Weight, gm / m ²	EN 9864	750
Compression Strength, kN / m ²	--	250
Tensile Strength, kN / m <ul style="list-style-type: none">• MD• CMD	EN 10319	> 6 > 6
Air gap volume between dimples, l / m ²	--	7.9
Temperature Range, °C	--	-30 to +80
Drain flow capacity in plain, m ² / s	EN 12958	3.1×10^{-3}
Water Permeability, m/s	EN 11058	8×10^{-2}
Reaction to Fire	--	Class 'E'
Resistance to Water Penetration	--	Waterproof (W1)

*All values are subjected to 5 - 20% tolerance

Field of Application

- **ShaliDrain 12F** is used for the draining of ground water and protection of the underground waterproofing system against damages caused by soil pressure.
- **ShaliDrain 12F** is used as a moisture barrier for the concrete.
- **ShaliDrain 12F** is laid on the soil in order to obtain a clean surface on the base instead of lean concrete.
- Basement Wall, Metro / Train Tunnels, Highways, Parking Areas, Dams, Pipeline, Road, Protection of Waterproofing Membrane, Terrace Garden.

Advantages

ShaliDrain 12F has excellent chemical resistance. It,

- is resistant to the acid.
- is resistant to the alkalis.
- is resistant to the all insolvents.
- is resistant to the plant roots.
- is approved for drinking water applications.
- has no deterioration under soil.
- is non-toxic and non-polluting.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt; foreign particles by jet of dry air make it smooth before application.

- Unevenness and surface defects (such as blowholes, voids, honeycombing, cracks, protrusions, etc.) in the surface must be pretreated and filled prior to the application, in order to prevent any subsequent damage to the membrane sheets.

➤ **Material Application**

• **For Horizontal Application**

- **ShaliDrain 12F** is laid to the ground, the direction of the bubbles should be faced to the ground. Plates joints should be put in a minimum of 30 cm overlap. If it is desired, overlap parts of the plates are fixed to each other by hot air hand welding or glued insulated tape.

• **For Vertical Application**

- **ShaliDrain 12F** is fixed to the wall with profiles in the subbasement level, the direction of the bubbles should be faced to the wall.
- Plate's joints should be put in a minimum of 20 cm overlap. If it is desired, overlap parts of the plates are fixed to each other by hot air hand welding or glued insulated tape.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.



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Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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