

ShaliDrain 10

HDPE Dimpled Board



STP Limited

Description

ShaliDrain 10 is a high density Polyethylene (HDPE) Dimpled board. It is light weight, flexible, strong, durable, non-toxic, dimpled sheet board with dimple height of 10mm. It is impermeable to water and water vapour. It is used for protecting the water proofing membrane in basement walls. The dimple design creates an air gap between the foundation wall and Damp soil keeping moisture away from touching the wall. The air between the bubble provide breathing of wall. The number of bubbles provides the equal distribution of load allows the reduction of point load.

Product Information

Handling & Storage	ShaliDrain 10 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 and 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	700
Dimple height, mm	EN 9863-1	10
Compression Strength, kN / m ²	--	300 - 400
Tensile Strength, kN / m <ul style="list-style-type: none">• MD• CMD	EN 10319	>6 >4
Elongation at Max Load, % <ul style="list-style-type: none">• MD• CMD	EN 12311-2	20 25
Air gap volume between dimples, l / m ²	--	5
Temperature Range, °C	--	-30 to +80
Drain flow capacity in plain, L / m ² / s	EN 12958	3.5
Flow rate, L / min / m	EN 12958	200
Reaction to Fire	--	Class 'E'
Resistance to water penetration	--	Waterproof (W1)

*All values are subjected to 5 - 20% tolerance

Field of Application

- **ShaliDrain 10** is used for the draining of ground water and protection of the underground waterproofing system against damages caused by soil pressure.
- Used as a moisture barrier for the concrete.
- Basement Wall, Metro/ Train Tunnels, Highways, Parking Areas, Dams, Pipeline, Road, Protection of Waterproofing Membrane, Terrace Garden.
- In the tunnels **ShaliDrain 10** enables the transmission of intense water to the drainage channels.

Advantages

- **ShaliDrain 10** provides low-cost alternative and faster application for waterproofing protection.
- Resistant to acid, alkali, chemicals, and plant roots.
- Non-toxic and non-polluting.
- Approved for drinking water application.

Application Information

- ✓ **Substrate Temperature** - +5°C Min / +30°C Max
- ✓ **Ambient Temperature** - +5°C Min / +30°C Max

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 Substrate

- **ShaliDrain 10** 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 Substrate

- **ShaliDrain 10** 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.



STP Limited
Enhancing Structures' Life

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



Advisory Cell: +91 81302 81114