

High Density Polyethylene (HDPE) Dimple Drain Board

DESCRIPTION

DANODREN H10T is nodular dimple structure sheet made from high density polyethylene (HDPE) having high compressive strength and resistance against chemicals and plant roots.

It is mainly use for protection of waterproofing and thermal insulation layers and eventual vertical drainage.

USES

- Reliable and efficient protection and drainage of the waterproofing of buried walls in building and civil works.
- Protection of waterproofing and heat insulation layers applied on basement wall against puncture damage during backfill operations.
- As a moisture barrier under the concrete against capillary rise.
- As an alternative to the blinding concrete when laid on to the soil under the foundation to obtain levelled surface.
- Rehabilitation of basements and underground constructions affected by humidity.

PROPERTIES OF PRODUCT

Properties	Values	Standard
Dimple Height	8mm	-----
Thickness	≥0.30mm	-----
Weight	400 ± 5% g/m ²	-----
Compressive Strength	125± 20% KN/m ²	EN-ISO 604
Tensile Strength MD CMD	≥150 N/50mm ≥100 N/50mm	EN 12311-1
Elongation MD CMD	≥25% ≥15%	EN 12311-2
No. of Nodules/m ²	≥1850	-----
Service Temperature	-30 to 80 °C	-----
Reaction to Fire	F	EN 13501-1

ADVANTAGES

- High compressive strength and excellent creep resistance.
- Good resistance to impact and mechanical damage.
- Protects waterproofing and heat insulation layer from puncture damage during backfill operations.
- Prevents build-up of hydrostatic pressure on to the waterproofed surface.
- The nodular design aids in even distribution of soil and hydrostatic load on to the waterproofed horizontal and vertical surface and reduces point load.
- The air gap between the dimples & waterproofed surface allows concrete to breathe and ventilate moisture eliminating the problems of dampness.
- Good resistance to aggressive chemicals present in ground water & soil, oil, acid, alkali, and solvents.
- Does not decompose or rot in soil.
- Good resistance to plant roots.
- Quick and easy installation on to the damp and even wet substrates.
- Low installed cost compared to other systems such as drain cells.

APPLICATION INSTRUCTIONS

FOR BURIED WALLS

The surface receiving the **DANODREN H10T** must be clean, dry and free of foreign objects.

DANODREN H10T can be installed in row wise or column wise manner with its dimples facing the support.

As per the site requirement, **DANODREN H10T** can be loose laid or attached to the support by using quick setting adhesive / double sided self-adhesive tape / self-adhesive pins in zigzag pattern creating spot adhesion.

In order to ensure good fit between individual boards, overlapping of the dimples of the preceding board on to the dimples of the previous board by at least 10cm should be done, the dimples interlocked neatly in to one another producing a good key. If required double sided self-adhesive tape or elastomeric sealant TIKISEAL PU25 shall be used to seal overlapping joints.

On vertical plane, the end edge of **DANODREN H10T** shall be terminated by fixing mechanically with metallic profile, the edges of metallic profile flush finished with elastomeric sealant TIKISEAL PU25.

DANODREN H10T is not resistant to U.V rays and hence, it should not be left permanently exposed to weathering and UV-light.

SUPPLY

DANODREN H10T is supplied in standard rolls size of 2m x 20m.

STORAGE

DANODREN H10T rolls must be stored in dry place between 5°C and 40°C. Store under the covered shed and protect from rain, heat, U.V rays and extremes of temperature. Rolls must be stored in upright vertical position. Avoid stacking of rolls horizontally on their sides or in double stack position.

Never store **DANODREN H10T** in close proximity of any sharp or protruding edges to avoid puncturing or damaging.

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