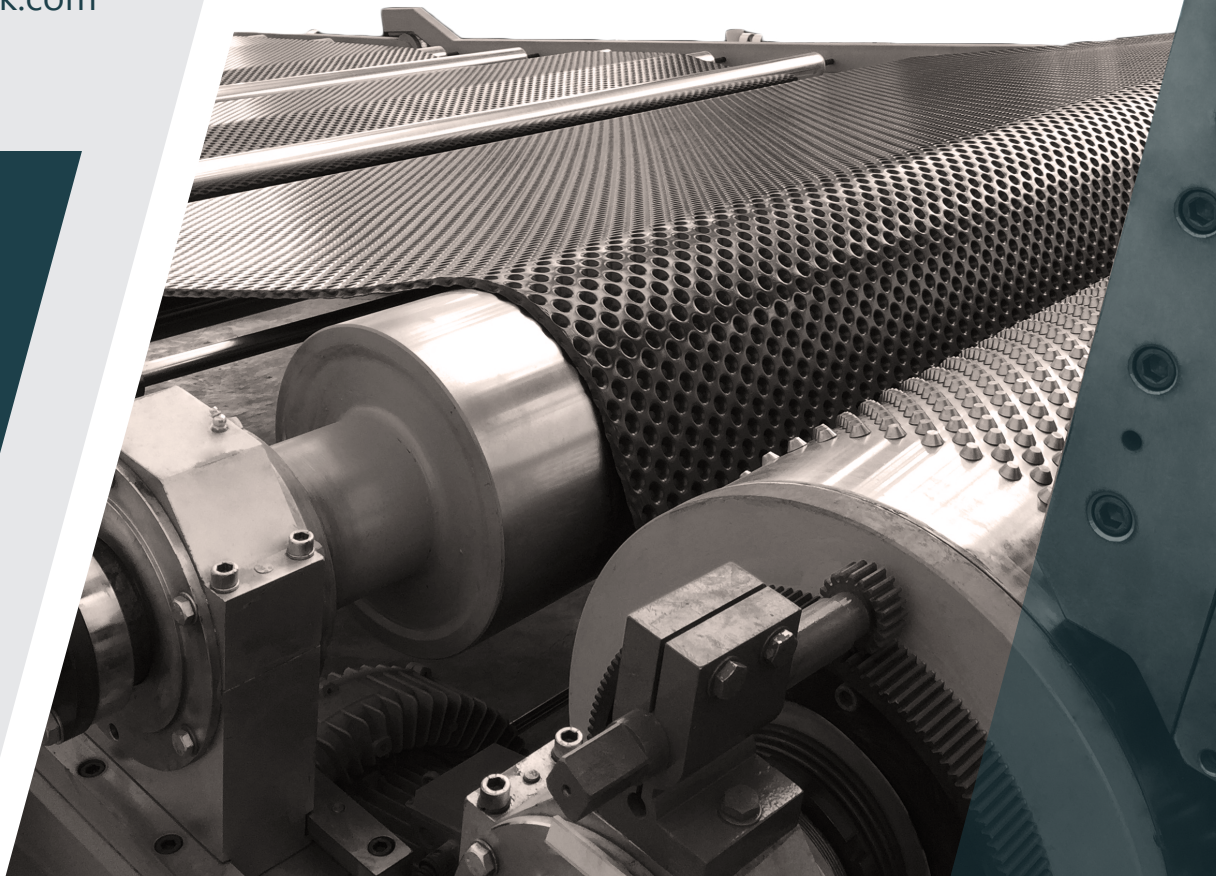


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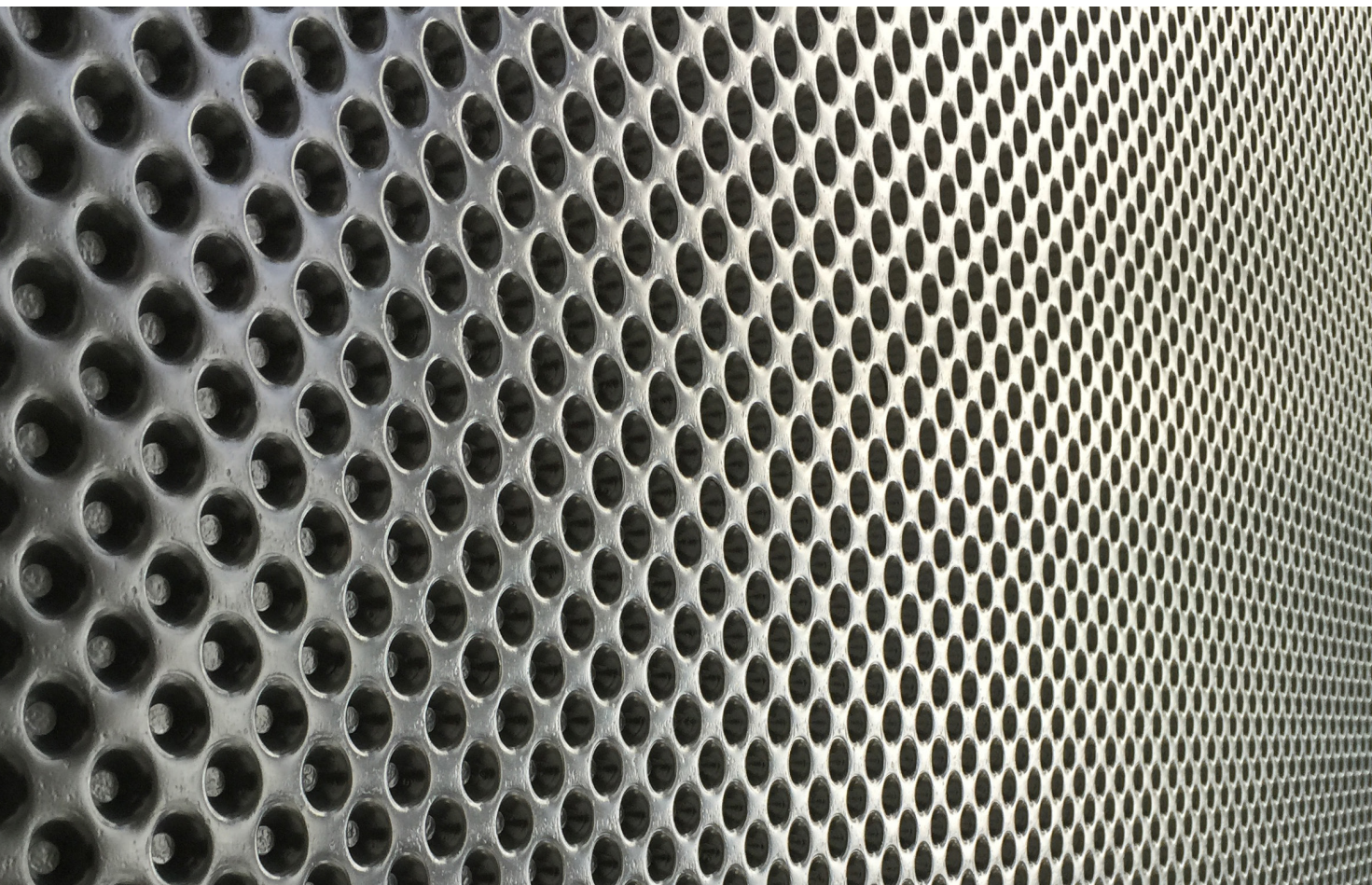


Dimple Sheet

Flexible plastic HDPE sheets for waterproofing







WELCOME

Geomembrane is a waterproof membrane that solves effectively problems with humidity and increases life comfort in the building. Its strong and flexible dimples resist against the mechanical impacts caused by the back filling of the ground avoiding any kind of damage on the surface of the waterproofing layer. The air gap created by the dimples of Geomembrane between the ground and building parts like basement walls or floors is ideal for all kinds of drainage.

The dimples of Geomembrane resist against compressions even higher than 180kNm^2 keeping continuously an air gap of $5,3\text{l/m}^2$ between the walls or floors of the building and itself. This space is big enough for the drainage of the rain or ground water, as well as for the evaporation of humidity if supported with a suitable system of ventilation.

You can find the Geomembrane PDM in color black

TECHNICAL DATA SHEET



FLEXIBLE PLASTIC HDPE SHEETS FOR WATERPROOFING

COMMERCIAL NAME: Dimple sheet

CHARACTERISTIC	TEST METHOD	UNIT	PERFORMANCE
Length	EN 1848-2	m	20 ± 5%
Width	EN 1848-2	m	±10%
Thickness	EN 1849-2	mm	0,35 ± 15%
Mass	EN 1849-2	g/m ³	400 ± 5%
Visible defects	EN 1850-2	Visible defects	No visible defects
Water tightness to liquid water	EN 1928	Pass	Pass
Resistance to static loading	EN 12730	kg	≥ 20kg
Impact test	EN 12691	mm	NPD
Tensile properties: - Maximum tensile force - Elongation	EN 12311-2	N/50 %	≥ 75 md ≥ 80 cmd ≥ 30 md ≥ 40 cmd
Durability of watertightness against artificial ageing	EN 1296 and EN 1928	-	NPD
Durability of watertightness exposure to chemicals	EN 1296 and EN 1928	-	NPD
Resistance to tear (nail shank)	EN 12310-1	N	≥ 250 md ≥ 250 cmd
Bitumen compatibility	EN 1548 and EN 1928	Pass	N.A.
Joint strength	EN 12317-2	N/50	N.A.
Resistance to deformation under load	Annex B EN 13967 or EN 25619	kN/m ²	≥ 155
Reaction to fire	Classes in accordance with EN 13501-5		NPD
Dangerous substances	According to national regulations	-	-



APPLICATION OF THE PRODUCT

Geomembrane is easy for installation independently from the atmospheric conditions. It is not a heavy material and its very suitable for transportation and transfer.

Its used as bedpan concrete, saves a significant assets, and it shortens the process of construction.



WHERE IS GEOMEMBRANE USED

Protection of basement walls and foundations

The underground parts of buildings must be protected against damp and ground water and this is necessary for a comfortable and also safety reasons. When rust affects the reinforcement of the concrete the structure system is also damaged and this can be dangerous for the stability of the building especially in critical situations like earthquakes. Therefore, foundations and basements have to be waterproofed. Moreover, the

waterproofing materials are very sensitive. If not properly protected, they are under the risk of being damaged during the back-filling of the building site. Geomembrane's tough but flexible body absorbs mechanical impacts of ground parts like stones and gravel and prevents any such damage on the waterproofing layer even if they might hit the wall. During the life-time of the building Geomembrane continues to protect the underground walls also against the attacks of roots and most chemicals which might be harmful for underground building parts.

Internal repair of wall damages caused by damp and humidity

If basements are not correctly waterproofed from outside, the walls get mouldy and the damage of the humidity cannot be repaired by repainting or plastering from inside. If geomembrane is applied together with a new layer of plaster or gypsum board, the final surface of the wall remains clean and smooth.

Internal repair of floor damages caused by damp and humidity

Mould is a problem also for ground slabs. If no waterproofing is made during the construction period, damages and deformations appear on finishing layers of ground slabs caused by humidity.

Geomembrane is the ideal material for the internal damp-proofing of floors, because it can resist not only against humidity but also against vertical loads, as Geomembrane's 8mm high dimples do not squash down. So, a continuous air gap is provided between the existing and the new floor, which can be also ventilated at wall flashings.

Protection from ground slabs against humidity coming from the ground

Even if concrete slabs for open areas are coated with materials like asphalt, they have to be protected against the humidity coming from the ground. The damp-proofing layer must be also resistant against impacts, compression and tearing otherwise it can easily be damaged during the construction works for the application of the ground slab.

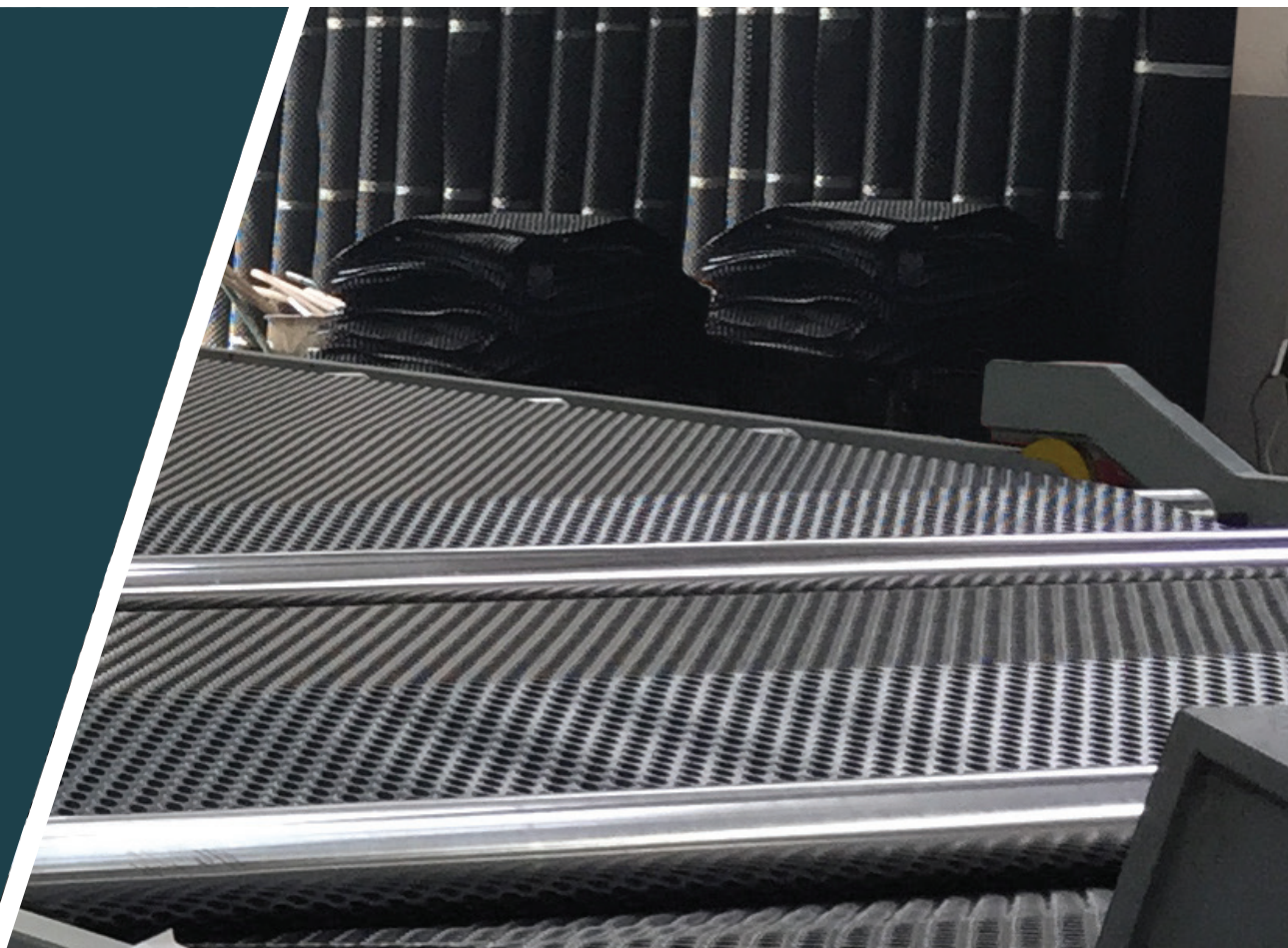


A photograph showing the industrial production of geomembrane. A large, dark, textured sheet of material is being processed by machinery. The machinery includes a blue overhead structure and a series of white rollers. A worker in a hard hat is visible in the background. The scene is set in a factory environment with a dark floor.

ENVIRONMENTAL RESPONSIBILITY

Geomembrane is made of HDPE for whom we know that 85% of its contents can be recycled.

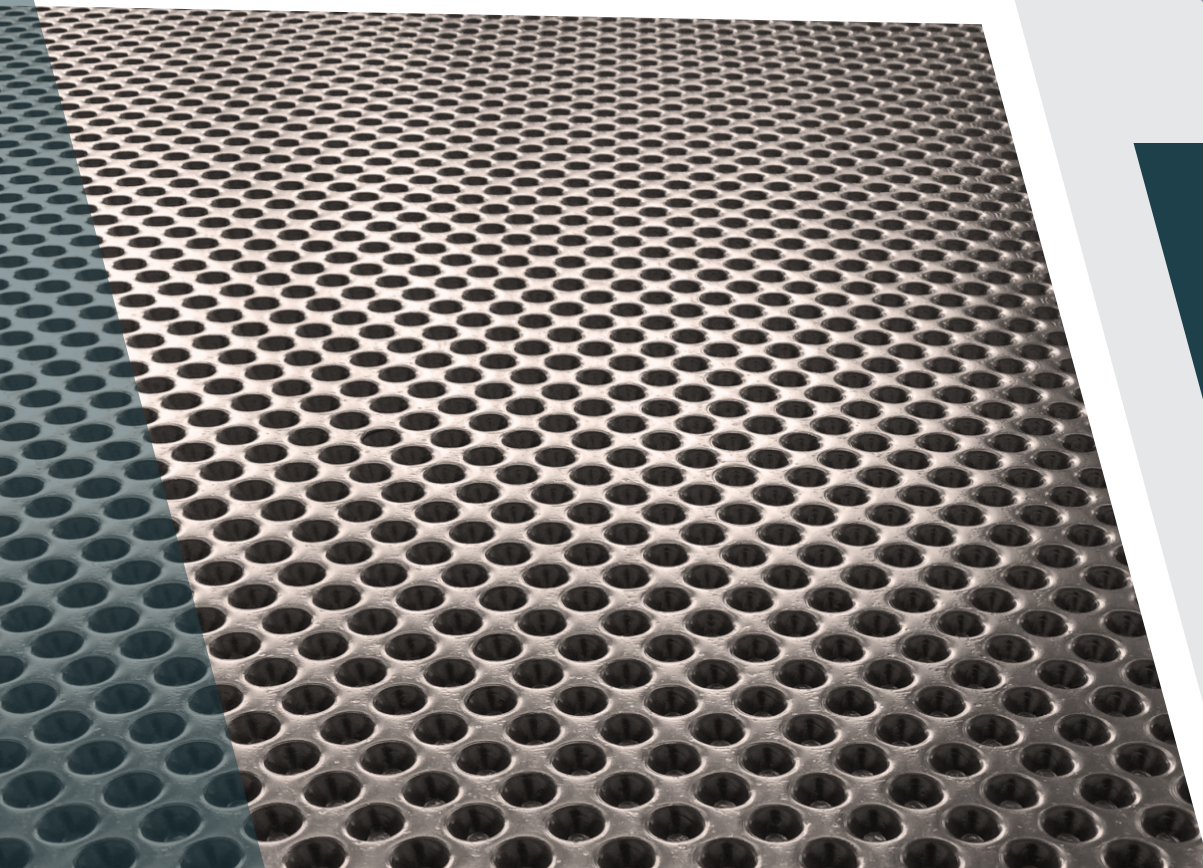
Chemically is inert, so there is no product or compounds that can activate it and make any reactions.



BENEFITS OF THE GEOMEMBRANE

After it's set, the Geomembrane provides:

- Mechanical protection of the waterproofing material;
- Humidity protection of the construction;
- Drainage of atmospheric water in the basement walls;
- Provides drying of the moisture from the outside of the construction;
- Improves the sound insulation and the thermos insulation;
- 30 years guarantee of the material under normal conditions;
- It can be put into the construction independently from the atmospheric conditions and after it is set, immediately starts in function.



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