



INNOVATIVE CONNECTION SYSTEM

GXP MEMBRANES

8 REASONS WHY USE GXP GEOMEMBRANE:

- Widely used in construction for waterproofing
- They provide optimal ventilation and drainage space.
- Easy and quick to install in various weather conditions.
- They increase the thermal insulation of walls and foundations.
- Very resistant to compression and tearing.
- Relatively cheap and more effective than other solutions.
- They prevent damage resulting from ground movements, backfilling of excavations or settlement of buildings.
- Resistant to chemicals found in the ground.

A modern company

- ▶ 50 years of experience in the processing of plastics.
- ▶ Active participation in international markets - export of materials and services.
- ▶ Modern quality management systems.
- ▶ Advice and the highest quality of customer service.

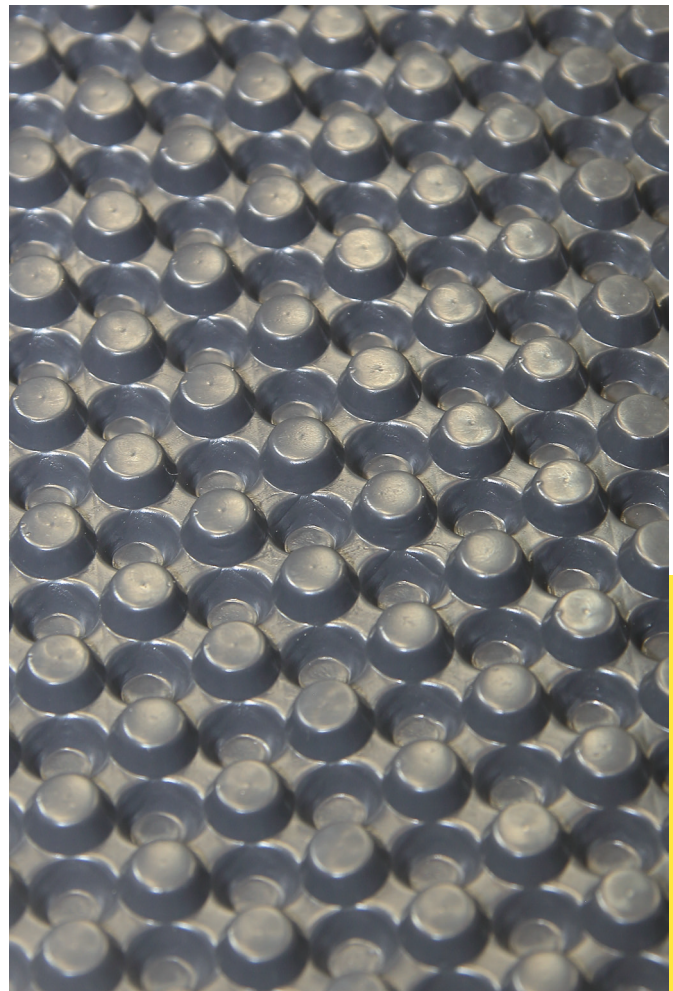
Production and storage

- ▶ Modern production lines.
- ▶ A wide range of geosynthetic materials.
- ▶ Warehouse for over 1 million m of foil and geosynthetics.
- ▶ Optimized domestic and international distribution system.

DIMPLED MEMBRANE

GXP DIMPLED MEMBRANE

The dimpled membrane is a material made by extrusion from high-density polyethylene (HDPE). Thanks to its mechanical and chemical properties and a relatively low price, it has been appreciated for many years as an waterproofing, protective and drainage material, commonly used in building construction, road and bridge construction as well as hydrotechnical construction. It is a multifunctional product with a very long service life (over 100 years). The material from which dimpled membranes are made is environmentally friendly, resistant to aging and non-biodegradable. In combination with high-quality polypropylene geotextile, they constitute an effective waterproofing and drainage layer.



EASY AND EFFECTIVE INSTALLATION

It prevents the sliding of the connected membrane sheets, and additional channels for the butyl seal stabilize the sealing point (while welding, they additionally cross-link and fill the space between the channels).

PRESERVED LINEARITY

It eliminates the problem of maintaining the linear joining of sheets, which is important when using membranes on large surfaces, because there is no so-called "Banana effect", which makes assembly much more difficult.

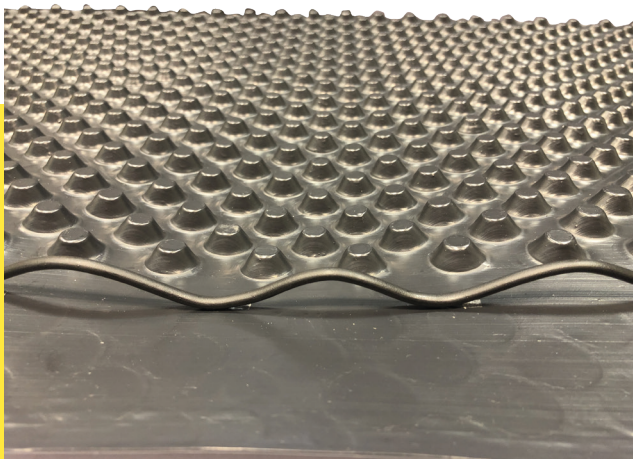
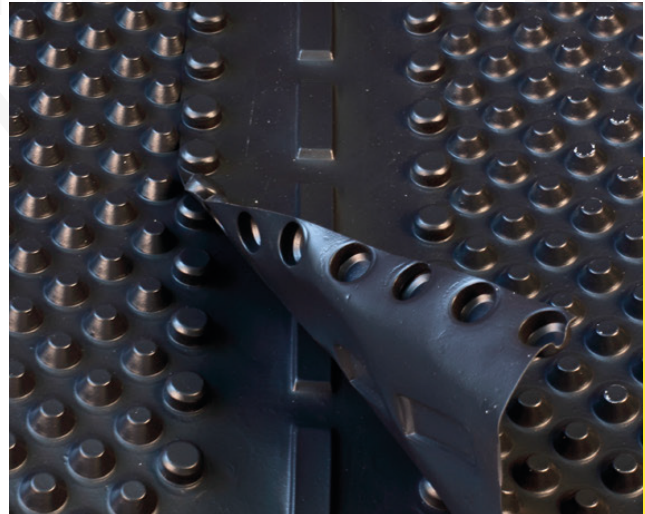
100% TIGHTNESS OF JOINTS

A properly profiled channel allows for welding individual sheets of dimpled membranes with each other, as well as with sheets of flat foil. Thanks to this, GXP films are effective as a sealing material in water reservoirs and other hydrotechnical constructions.

INNOVATIVE MOUNTING SYSTEMS

INNOVATIVE SYSTEM FOR CONNECTING DIMPLED MEMBRANES

The innovative joining system, patented and introduced to the market by Griltex Polska, significantly affects the efficiency and functionality and eliminates significant shortcomings related to the use of dimpled membranes. It significantly increases the ease of installation and the range of applications in construction.



GEOMEMBRANE WITH FIXING LOOPS

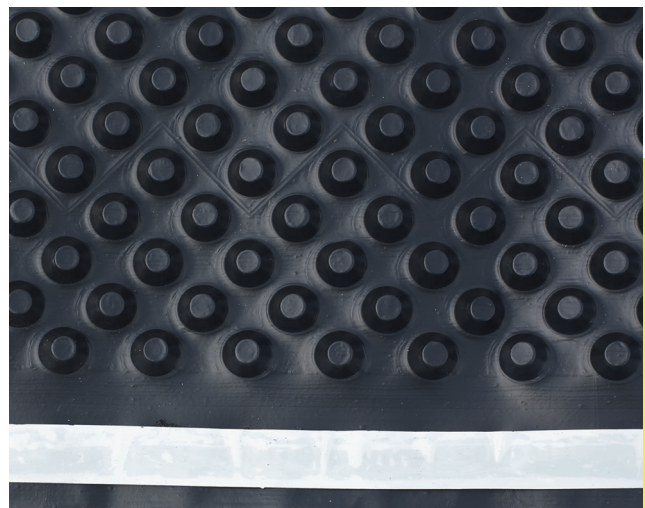
It is designed to be combined with other geosynthetics, such as: geogrid, geocell, geomat etc. Membrane dimples provide natural protection against slipping of the geogrid on the (flat) foil. The geomembrane equipped with fixing loops not only guarantees tightness, durability, and installation speed, but also protects the hummus layer in the event of excessive rainfall.

The product was introduced to the offer as a result of the implementation of project no RPWP01.05.0-30-0134 / 18 entitled: "Implementation of innovative products, processes and organizational and marketing solutions as a way to increase the effectiveness and competitiveness of Griltex Polska Sp. z o.o. ", co-financed by the European Union from the European Regional Development Fund under the Wielkopolska Regional Operational Program for 2014 - 2020

GEOMEMBRANE WITH INTEGRATED BUTYL SEAL

An innovative system for the production of a geomembrane integrated with a butyl seal already at the production stage. This solution consists in the production of a geomembrane in a process integrated with the process of welding a butyl seal longitudinally to the geomembranes, aimed at sealing the joints of the geomembrane or cut-outs and reducing the assembly time at the place of use, by eliminating the process of gluing the butyl seal when unfolding the geomembranes at the construction site.

The product was introduced to the offer as a result of the implementation of project no RPWP01.05.0-30-0134 / 18 entitled: "Implementation of innovative products, processes and organizational and marketing solutions as a way to increase the effectiveness and competitiveness of Griltex Polska Sp. z o.o. ", co-financed by the European Union from the European Regional Development Fund under the Wielkopolska Regional Operational Program for 2014 - 2020



MEMBRANES FROM THE GXP PLUS FAMILY

GXP PLUS

The GXP Plus membrane is made of high-density polyethylene (HDPE), with a weight of 400 - 1200 g / m², which perfectly protects, insulates and secures underground parts of foundations and walls, and eliminates capillary rising of water.

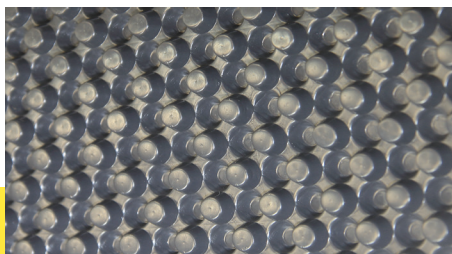
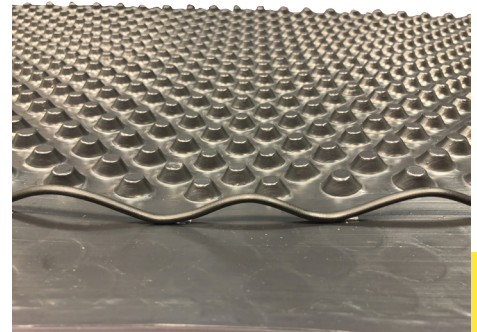


GXP PLUS B

The GXP Plus Fix membrane is made of high-density polyethylene (HDPE), with a weight of 500 - 1200 g / m², integrated with a butyl seal already at the production stage. The solution consists in producing a geomembrane in a process integrated with the process of gluing a butyl seal longitudinally to the geomembranes in order to seal the joints of the geomembrane or cuts and shorten the assembly time on site at the place of application. Elimination of the process of sticking the seal while unfolding geomembranes on the construction site.

GXP PLUS FIX

GXP Plus Fix membrane made of high density polyethylene (HDPE), with a weight of 600 - 1200 g / m², integrated with fixing loops, is designed to be joined with other geosynthetics, such as: geogrid, geocell, geomat, etc. Membrane dimples are a natural protection against sliding of the geogrid on the foil (flat). The geomembrane equipped with integrated fixing loops not only guarantees tightness, durability, and installation speed, but also protects the hummus layer in the event of excessive rainfall.

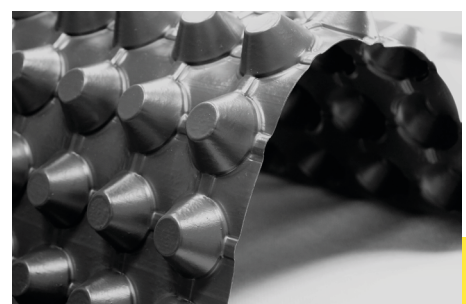


GXP PLUS 5+5

The GXP Plus 5 + 5 geomembrane made of high-density polyethylene (HDPE) thanks to the structure of double dimples provides an increased angle of ground friction on both sides. Particularly useful in places with a high inclination angle such as ditches, reservoirs etc. And thanks to the 2-sided high ventilation capacity as an air barrier between 2 concrete walls.

GXP PLUS 20

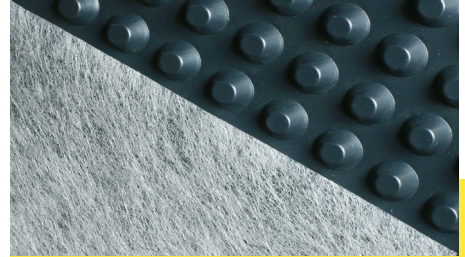
The GXP Plus 20 membrane, made of high-density polyethylene (HDPE), with a grammage of 800 - 1200 g / m², is designed for mechanical and hydraulic protection of tunnels, green roofs or other underground structures with increased water flow.



GXP DRAIN FAMILY MEMBRANES

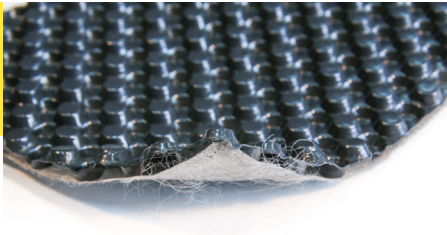
GXP DREN

High-density polyethylene (HDPE) dimpled membrane, combined with DuPont™ Typar® SF thermowelded polypropylene geotextile, is designed for mechanical protection and optimal drainage of foundation walls. The GXP DREN geocomposite is also perfect for various civil engineering applications (underground car parks, bridge abutments, terraces, foundations, retaining walls, etc.) and for drainage of building structures.



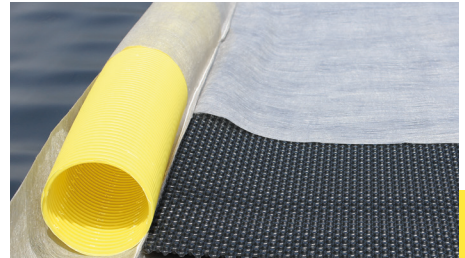
GXP DRAIN 5+5

GXP DRAIN 5 + 5 is a combination of an extruded high-density polyethylene (HDPE) membrane with a welded polypropylene geotextile (ref. DuPont™ Typar®SF32-40). The geocomposite creates a space that is an excellent drainage layer, and the geotextile reserve 5 cm above the membrane prevents the filling from penetrating into the upper part of the system. The structure of the double dimples allows for the combination of ventilation and water drainage functions, i.e. it ensures optimal soil drainage and control of humidity and aeration of the covered surfaces of foundation walls. GXP DREN 5 + 5 is used in civil engineering and for drainage of building structures.



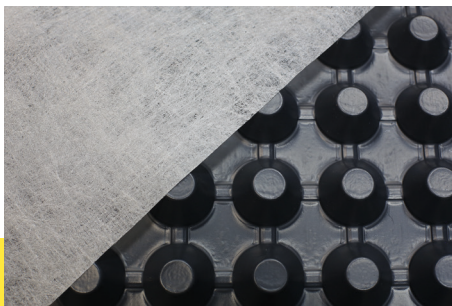
GXP DREN 5+5 DUO

The GXP Dren 5 + 5 Duo membrane is an innovative product created by welding the dimpled membrane with the structure of double extrusions with the DuPont™ TYPAR® geotextile made of continuous polypropylene fibers, thermally bonded. This gives the same properties on both sides of the membrane and allows for effective longitudinal drainage using pipes of different diameters. The mat is equipped with a special geotextile sleeve in the lower part for the location and protection of the drainage pipe.



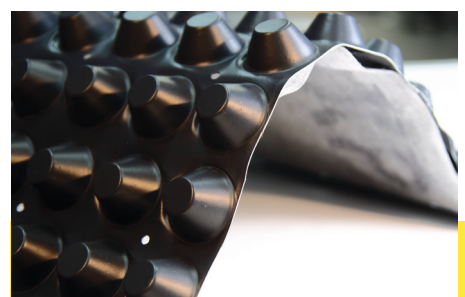
GXP DREN 20

The new GXP Dren 20 membrane, made of high-density polyethylene (HDPE), thermally welded with high-quality TYPAR® geotextile, has a very high drainage capacity of 10 l / s / m, making it versatile for use on site. It can protect and drain foundations as well as be used in landfills or in road construction. It is most often used in the construction of green roofs with an irrigation system and in green areas located above underground garages.



GXP DREN 20 P

GXP Dren 20 P is a combination of a perforated dimpled membrane with DuPont™ TYPAR® geotextiles, which is an ideal drainage layer for extensive green roofs, and is also a filter, water storage tank and drainage layer. The permanent connection of the perforated dimpled membrane with a heat-welded geotextile provides great ease during installation on the premises and speeds up the work.



APPLICATION



VERTICAL FOUNDATIONS

Protection of insulation against mechanical damage
Damp-proofing layer of foundation walls - **GXP PLUS / GXP PLUS B.**
Protection of insulation against mechanical damage.
Foundation walls with a drainage function - **GXP DRAIN.**



WATER TANKS

Tank seals - **GXP PLUS / GXP PLUS FIX / GXP PLUS B.**
The embossing structure reduces the slippage of the backfill layer from the ground or the displacement of openwork plates.
An economical alternative to flat membranes and bentonite mats.



DRAINAGE DITCHES

Protection against the penetration of contaminated liquids from the road body into the ground - **GXP PLUS / GXP PLUS FIX / GXP PLUS B**, effectively stabilizes the backfill layer thanks to the embossing increasing the angle of internal friction between the ground and the membrane.



PARKINGS, MANEUVERING PLACES, SERVICE ROADS

The layer protecting the waterproofing, and at the same time the element draining water from the base structure - **GXP PLUS / GXP DRAIN / GXP PLUS B.**



GREEN ROOFS

Water-collecting layer with controlled overflow - **GXP PLUS 20 P.**
Insulation and drainage layer - **GXP DRAIN / GXP DRAIN 20 / GXP DRAIN 20P**
The filtering geotextile layer protects against siltation and the penetration of fine soil particles into the drainage layer. Membranes with a thickness of more than 0.6 mm provide effective protection against root.



BRIDGE ABUTMENTS AND RETAINING WALLS

Drainage of backfills as a waterproofing - drainage layer - **GXP DRAIN.**
Element of anti-moisture and waterproof insulation - **GXP PLUS.**
Protection against water damming, mechanical protection of waterproofing.
The smooth underside of the membrane ensures even pressure distribution over the entire surface of the insulation.











HIGHWAYS AND HIGH-SPEED TRAILS

Innovative linear drainage replacing the traditional stone drainage - **GXP Dren 5 + 5 DUO**

TECHNICAL DATA

TECHNICAL DATA

PROPERTY	GXP PLUS				GXP DRAIN				
	400	500	600	20/20P	5	6	7	N10	20
 Surface mass	400	500	600	1000	600	700	800	736	1100
 Compressive strength	150	230	300	200	230	300	350	400	200
 Tensile strength	6,7	8,4	9,4	11,5	15,4	15,8	17,8	15,6	18,6
 Dimples height	8	8	8	20	8	8	8	10	20
 Number of dimples	1860	1860	1860	400	1860	1860	1860	3360	400
 Drain capacity	4,6	4,6	4,6	10	4,6	4,6	4,6	4,8	10
 Air volume between dimples	5,3	5,3	5,3	14	5,3	5,3	5,3	7,9	14
 Water storage capacity	-	-	-	6	-	-	-	-	6

	GXP PLUS 8 mm	GXP PLUS 20 mm	GXP DRAIN 8 mm	GXP DRAIN 10 mm	GXP DRAIN 20 mm	GXP DRAIN 20 P 20 mm
Rolki w m	1x20 1,5x20 2x20 2,5x20 3x20 4x20	2,0x20 4,0x20	2x20 4x20	2x12,5	2 x 10	2 x 10
Paleta - ilość rolek w szt.	24* 12* 12* 12* 32* 32*	6/5**	6 12	6	5**	5

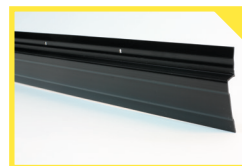
* applies to a 400g / m² membrane ** applies to a 1000 g / m² membrane

ACCESSORIES

ACCESSORIES



MOUNTING TAPES



MOUNTING PROFILES



WASHERS AND NAILS



DYBLE FOR STYROPOR



DYBLE TO MOUNTING PROFILES - MOUNTING TO STYROPOR

GRILTEX Polska Sp. z o.o.

SEALS

TECHNOLOGIES

EXPERIENCE

Obornicka Street 7
Złotkowo
62-002 Suchy Las

Tel. +48 61 655 37 51

Tel. mob. +48 600 078 283

Sealing department +48 600 078 290

Export: export@griltex.com

www.griltex.com

