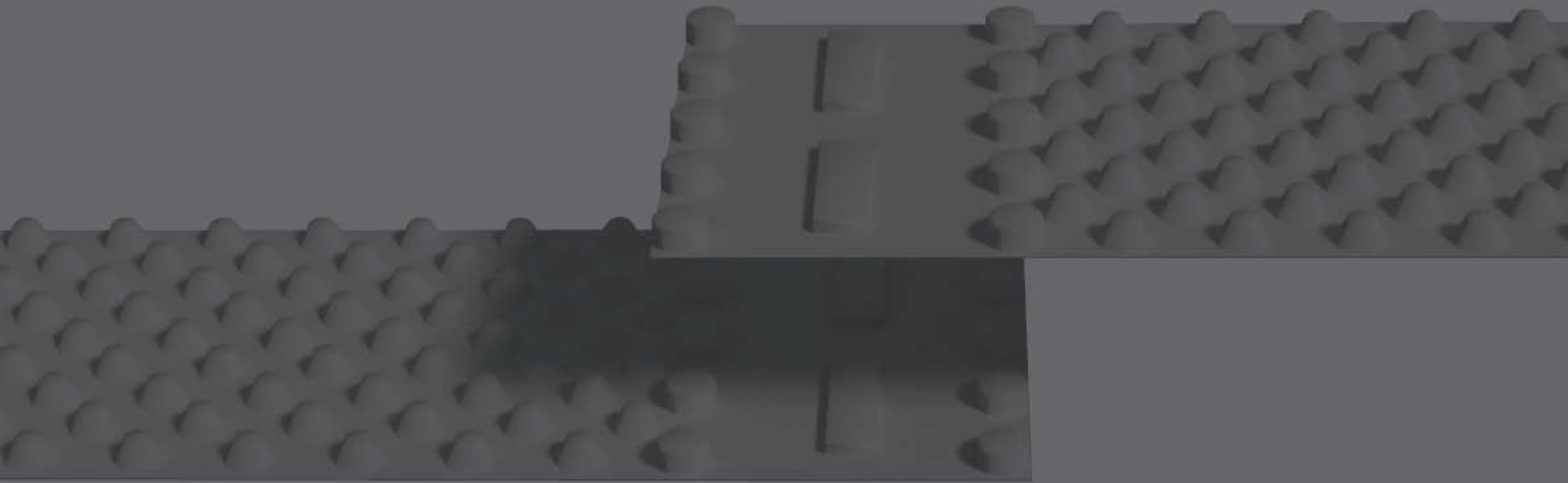
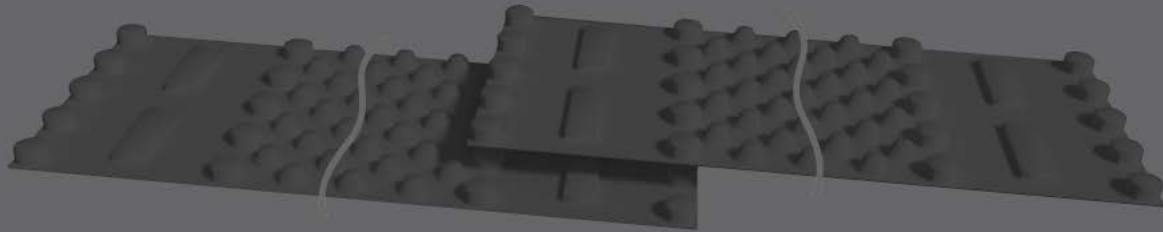


GXP DIMPLED SHEET MEMBRANES WITH AN INNOVATIVE SEAMING SYSTEM



Innovative seaming system for dimpled sheet membranes

The innovative seaming system patented and launched on the market by Griltex Polska has a significant effect on efficiency and performance, and eliminates major problems related to the use of dimpled sheet membranes. It significantly improves their performance and the range of applications in the construction industry.



EASY AND RELIABLE INSTALLATION

Prevents dislocation of seamed membrane sheets, while additional joints filled with a butyl rubber tape stabilize the seam, creating an extra networking structure and filling between joints when welded.

100% TIGHT CONNECTION

Suitably profiled grooves enable seaming individual sheets of dimpled membranes or with sheets of flat membrane. This makes GXP membranes an efficient liner for reservoirs and other hydraulic structures.

MAINTAINED LINEARITY

The solution eliminates problems with maintaining linear connection between the sheets, which is important for membranes applied on large surface areas, and prevents 'the banana effect', which is a significant problem during installation.

GXP dimpled sheet membranes

Dimpled sheet membrane is a material manufactured from high-density polyethylene (HDPE) in the extrusion process. Due to its mechanical and chemical properties and relatively low price it has long been a valuable material for waterproof facing, protection and drainage, in common use in the construction of buildings, roads, bridges and hydraulic structures. GXP membranes are versatile products with a very long lifetime (over 100 years). The plastic used for the manufacture of dimpled sheet membranes is neutral to the natural environment, resistant to ageing, and non-biodegradable. In combination with high-quality polypropylene geotextile they form an efficient layer for waterproofing and drainage.

- ◆ Resistant to chemicals in the soil.
- ◆ High compressive strength and tensile strength. Prevent damage caused by land movement, filling excavations and building settlement.
- ◆ Easy and fast to install in a wide range of weather conditions.
- ◆ Relatively inexpensive and more efficient than alternative solutions.
- ◆ Wide range of applications in the construction industry for waterproofing facing and to prevent infiltration of water.
- ◆ Ensure optimal space for ventilation and drainage.
- ◆ Increase thermal insulation of walls and foundations.



Parameter	Unit	GXP PLUS			GXP DREN				
		500	600	20/20P	5	6	7	N10	N20
Weight per unit area of membrane/geocomposite	g/m ²	500	600	1000	625	725	825	736	1100
Compressive strength	kN/m ²	230	300	200	230	300	350	400	200
Tensile strength	kN/m	8,4	9,4	11,5	15,4	15,8	17,8	15,6	18,6
Dimple height	mm	8	8	20	8	8	8	10	20
Number of dimples	per m ²	1860	1860	400	1860	1860	1860	3360	400
Drainage capacity	l/s/m	4,6	4,6	10	4,6	4,6	4,6	4,8	10
Volume of air between dimples	l/m ²	5,3	5,3	14	5,3	5,3	5,3	7,9	14
Water retention capacity	l/m ²	-	-	6	-	-	-	-	6

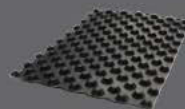
GXP Plus 8 mm							GXP PLUS 20 mm	GXP DREN 8 mm	GXP DREN 10 mm	GXP DREN 20 mm	
Roll in m	1x20	1.5x20	2x20	2.5x20	3x20	4x20	2.0x12.5 2.5x12.5	2x20	4x20	2x12.5	2.0x12.5 2.5x12.5
Pallet number of rolls per pallet	24*	12*	12*	12*	32*	32*	5**	6	12	6	4**

*refers to 0.5mm thick films **refers to 1000g films

Technical descriptions are only for information purpose. We reserve the right to any modifications.

GXP PLUS

High mechanical resistance, wide range of applications.
Material: high-density polyethylene (HDPE).
Dimple height: 8 mm.
Compressive strength: up to 450 kN/m².
Thickness: 0.4-1.5 mm.
Width: 0.5-4 m.



GXP N20 / N20 Perforated

High water flow, storage and drainage.
Material: high-density polyethylene (HDPE).
Dimple height: 20 mm.
Compressive strength: 200 kN/m².
Thickness: 1.0 mm.
Width: up to 2.5 m.



GXP DREN

Geocomposites for waterproofing and drainage.
Material: high-density polyethylene (HDPE), DuPont Tytar[®] polypropylene geotextile.
Dimple height: 8 mm, 10mm and 20 mm.
Compressive strength: 150-450 kN/m².
Thickness: 0.5-1.5 mm.
Width: up to 4 m.



Applications



Foundations in vertical arrangement

Protection of insulation layer against mechanical damage. Waterproofing layer on foundation walls – **GXP PLUS**.
Protection of insulation layer against mechanical damage. Waterproofing layer on foundation walls with drainage – **GXP DREN**.



Reservoirs

Liner for reservoirs – **GXP PLUS**.
Structure of dimples reduces the slide of earth fill or dislocation of grid slabs.
Cost-effective alternative to flat membranes and bentonite membranes.



Water discharge canals

To prevent seepage of polluted water discharged from road embankments to the soil – **GXP PLUS**.
Effective stabilisation of the earth fill layer through dimples increasing the internal friction angle between the soil and membrane.



Car parks, manoeuvring yards, access roads

To create a layer protecting waterproofing facing, and to discharge water from the sub-base structure – **GXP PLUS/GXP DREN**.



Green roofs

Layer for the collection of water with controlled flow (**GXP 20P**).
Waterproofing and drainage layer – **GXP DREN**. A layer of filtering geotextile prevents silting and migration of small soil particles to the drainage layer. Membranes thicker than 0.6 mm create an efficient protection against penetration of roots.



Abutments and retaining walls

Waterproofing and drainage layer for draining earth fills – **GXP DREN**.

Element of waterproofing and sealing layer – **GXP Plus**.
Protection against capillary water rise, mechanical protection of waterproofing layer.
The smooth bottom side of the membrane sheet ensures even distribution of pressure across the entire surface of the protective layer.

EXPERT IN THE MARKET FOR GEOSYNTHETICS

About the company

Griltex was established in 1962. The company's operation is focused on the manufacture and sale of plastic construction materials and installation of barrier and sealing layers in hydraulic engineering structures. Today Griltex enjoys a well-established and strong position, and is one of the leaders in its sector.

We have been building our success for years in the belief that high quality products and delivering top quality customer service ensure constant growth. For this reason our portfolio includes construction materials with documented parameters, all required tests, approvals and certificates, and our company continues to implement solutions to improve production, customer service and sales. We hold an ISO 9001 certificate and use modern systems for the management of the company and customer relations.

We co-operate with the largest producers of geosynthetics in Poland and abroad, and care about the wide offer range, high quality and reliability of our products.

Production and storage

- ◆ Modern production lines.
- ◆ Wide range of geosynthetic materials.
- ◆ Storage space for over 1 million sq.m. of films and geosynthetics.
- ◆ Optimised system for national and international distribution.



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Modern company

- ◆ 50 years' experience in processing plastic materials.
- ◆ Active participation in international markets – exports of materials and services.
- ◆ Modern quality management systems.
- ◆ Consulting and top quality customer service.

Certificate for:



"Beneficiary of subsidy under the Wielkopolska Regional Operational Programme for 2007-2013"



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