

He who erects a high tower
must carefully build the foundation.

Anton Bruckner (1824-1896), Composer

ISO-DRAIN Dimpled Sheet for Foundation Wall Protection – What types to use, why and where?

Optimum underground wall protection in buildings and civil engineering structures is possible only if all elements of the application are taken into account. Among the important factors are the composition of the surrounding soil – e.g. whether sandy or moist – and the presence of **nearby bodies of water or sloped surfaces**.

Interplast dimpled sheets – ISO-DRAIN 8 VERTICAL, ISO-DRAIN 8 DIAGONAL, ISO-DRAIN 8 GEO and GEO PLUS, ISO-DRAIN 10 GEO and GEO PLUS as well as ISO-DRAIN 4 + 4 GEO – provide **wide-ranging options** for optimum foundation wall protection and concrete blinding beds.

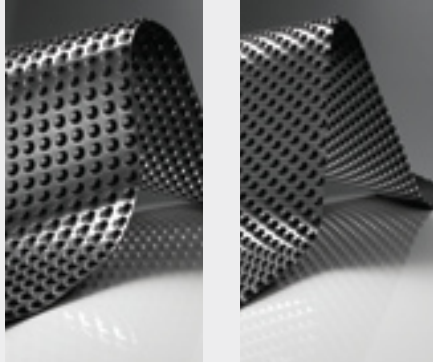
Lining underground walls with ISO-DRAIN dimpled sheet upgrades them with **guaranteed protection** against moisture and even standing water. In addition ISO-DRAIN sheet products provide **optimum ventilation** and **thermal insulation** over the wall surface. Rot-proof and impervious to root penetration, they also exhibit **outstanding compressive strength**, helping to ensure a long service life of the entire structure.

Installation of ISO-DRAIN dimpled sheet is fast and easy, contributing to **rapid and cost-efficient** execution of the overall project.

- * Guaranteed protection against moisture
- * Optimum full-surface ventilation
- * Rot-proof, impervious to root penetration
- * Excellent compressive strength
- * Enhanced thermal insulation
- * Physical protection, e.g. in backfilling



* Example of Application
ISO-DRAIN 8 DIAGONAL



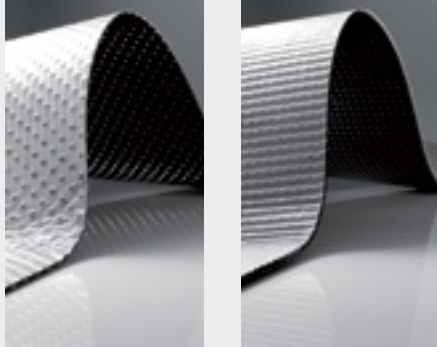
ISO-DRAIN 8 VERTICAL / 8 DIAGONAL

The vertical dimple pattern of ISO-DRAIN 8 VERTICAL provides **outstanding water drain-off capacity**. This straight dimple configuration is also advantageous for installation around corners.

Due to its close dimple spacing, ISO-DRAIN 8 DIAGONAL offers excellent compressive strength. It is an ideal material for blinding beds under reinforced concrete, providing advantages over expensive lean-concrete beds which require additional excavation. Supplied in 4 m wide sections, it provides savings of up to 50 % in installation accessories and up to 25 % due to reduced sheet overlap area. The system features extremely low-cost installation while ensuring **reliable long-term protection**.

The dimpled sheets fulfil the requirements of DIN EN 13967 for surface ventilation, physical protection against backfill material and water impermeability.

Properties	ISO-DRAIN 8 VERTICAL	ISO-DRAIN 8 DIAGONAL
Resin / dimpled sheet	HDPE	HDPE
Colour / dimpled sheet	black	black or brown
Sheet thickness / base sheet	approx. 0.5 mm	approx. 0.6 mm
Maximum section width	2.5 m	4.0 m
Area weight	approx. 500 g/m ²	approx. 600 g/m ²
Dimple height	approx. 8 mm	approx. 8 mm
Dimple spacing	approx. 1150 per m ²	approx. 1860 per m ²
Air gap (between dimples)	approx. 5.5 l/m ²	approx. 5.3 l/m ²
Drainage capacity	approx. 5.0 l/s/m	approx. 4.6 l/s/m
	approx. 300 l/min/m	approx. 276 l/min/m
	approx. 18000 l/h/m	approx. 16600 l/h/m
Compressive strength	approx. 130 kN/m ² (13 t/m ²)	approx. 250 kN/m ² (25 t/m ²)
Service temperature range	-40°C to +80°C	-40°C to +80°C
Physiological properties	safe for drinking water	safe for drinking water

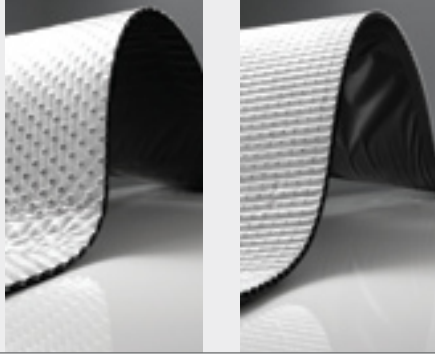


ISO DRAIN 8 GEO / 10 GEO

These **geotextile-laminated dimpled sheet** products are designed to securely drain off inflowing water while filtering out suspended particles which would otherwise accumulate and obstruct the air gap. These composite sheets provide outstanding drainage performance along with high physical properties including superb **tensile strength** and **elongation** in accordance with DIN EN 13252.

ISO-DRAIN 8 GEO is available in section widths up to 2.5 m. ISO-DRAIN 10 GEO with its **compressive strength of 40 tonnes per square metre** is ideally suited for heavy-duty use.

Properties	ISO-DRAIN 8 GEO	ISO-DRAIN 10 GEO
Resin / dimpled sheet	HDPE	HDPE
Resin / geotextile	PP	PP
Colour / dimpled sheet	black	black
Colour / geotextile	silver-grey	silver-grey
Sheet thickness / base sheet	approx. 0.5 mm	approx. 0.6 mm
Thickness / geotextile	110 g/m ²	136 g/m ²
Maximum section width	2.5 m	2.0 m
Area weight	approx. 610 g/m ²	approx. 750 g/m ²
Dimple height	approx. 8 mm	approx. 10 mm
Overall thickness / dimpled sheet	approx. 8 mm	approx. 10 mm
Dimple spacing	approx. 1860 per m ²	approx. 3360 per m ²
Air gap (between dimples)	approx. 5.3 l/m ²	approx. 7.9 l/m ²
Drainage capacity	approx. 4.6 l/s/m	approx. 4.8 l/s/m
	approx. 276 l/min/m	approx. 288 l/min/m
	approx. 16600 l/h/m	approx. 17300 l/h/m
Water transmission / geotextile	approx. 110 l/m ² / s	approx. 85 l/m ² / s
Compressive strength	approx. 190 kN/m ² (19 t/m ²)	approx. 400 kN/m ² (40 t/m ²)
Service temperature range	-40°C to +80°C	-40°C to +80°C
Physiological properties	safe for drinking water	safe for drinking water



ISO DRAIN 8 GEO PLUS / 10 GEO PLUS

These composite sheet products provide the same outstanding drainage performance as ISO DRAIN 8 GEO and ISO-DRAIN 10 GEO, ensuring **controlled water removal**.

The PLUS referred to in the name is the slip sheet on the non-dimpled side facing the foundation wall. The slip sheet adheres firmly to the elastic waterproofing layer and allows the dimpled sheet to move in response to soil settlement, therefore **avoiding damage** to the **waterproofing layer**. Like other Interplast composite sheets, these products are CE certified in accordance with DIN EN 13252.

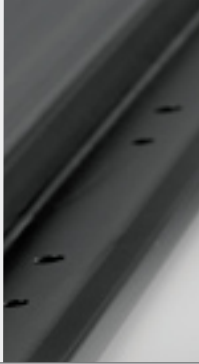
Properties	ISO-DRAIN 8 GEO PLUS	ISO-DRAIN 10 GEO PLUS
Resin / dimpled sheet	HDPE	HDPE
Resin / geotextile	PP	PP
Resin / slip sheet	HDPE	HDPE
Colour / dimpled sheet	black	black
Colour / geotextile	silver-grey	silver-grey
Colour / slip sheet	black	black
Sheet thickness / base sheet	approx. 0.5 mm	approx. 0.6 mm
Thickness / geotextile	110 g/m ²	136 g/m ²
Thickness / slip sheet	160 µ	160 µ
Maximum section width	2.5 m	2.0 m
Area weight	approx. 770 g/m ²	approx. 900 g/m ²
Dimple height	approx. 8 mm	approx. 10 mm
Overall thickness / dimpled sheet	approx. 8 mm	approx. 10 mm
Dimple spacing	approx. 1860 per m ²	approx. 3360 per m ²
Air gap (between dimples)	approx. 5.3 l/m ²	approx. 7.9 l/m ²
Drainage capacity	approx. 4.6 l/s/m	approx. 4.8 l/s/m
	approx. 276 l/min/m	approx. 288 l/min/m
	approx. 16600 l/h/m	approx. 17300 l/h/m
Water transmission / geotextile	approx. 110 l/m ² /s	approx. 85 l/m ² /s
Compressive strength	approx. 190 kN/m ² (19 t/m ²)	approx. 400 kN/m ² (40 t/m ²)
Service temperature range	-40°C to +80°C	-40°C to +80°C
Physiological properties	safe for drinking water	safe for drinking water



ISO-DRAIN 4+4 GEO

ISO-DRAIN 4+4 GEO combines two benefits in a single product. The **dimpled sheet side**, installed facing the foundation wall, provides a continuous ventilation gap and prevents condensate formation. The back side, installed facing the surrounding soil, and its integrated **geotextile** surface provide secure drain-off of water inflow. 4+4 GEO – like all ISO-DRAIN sheet products – **is impervious to root penetration, rot-proof** and ensures long life of the structure protected. Properties such as excellent compressive strength, high water drainage capacity and superb ultimate elongation reflect the high quality customers have come to expect in Interplast products.

Properties	ISO-DRAIN 4+4 GEO
Resin / dimpled sheet	HDPE
Resin / geotextile	PP
Colour / dimpled sheet	black
Colour / geotextile	silver-grey
Sheet thickness / base sheet	approx. 0.6 mm
Thickness / geotextile	136 g/m ²
Maximum section width	2.0 m
Area weight	approx. 740 g/m ²
Dimple height	2 x approx. 4 mm
Overall thickness / dimpled sheet	approx. 8.5 mm
Dimple spacing	approx. 5932 per m ²
Air gap (between dimples)	3.6 l/m ²
Drainage capacity	approx. 1.2 l/s/m
Water transmission / geotextile	85 l/m ² /s
Compressive strength	approx. 250 kN/m ² (25 t/m ²)
Service temperature range	-40°C to +80°C
Physiological properties	safe for drinking water



Accessories for ISO-DRAIN Foundation Wall Protection Sheet

Interplast Anchor Heads

Interplast anchor heads provide for close-fit, rapid installation of ISO-DRAIN 8 dimpled sheets over a **variety of substrates**.

Interplast Finishing Strips

Interplast finishing strips provide for a **neat border** and **secure fixing of the installed dimpled sheet**. They also prevent foreign material from entering and obstructing the air gap between the dimpled sheet and the foundation wall.

Interplast Butyl Strips

Interplast butyl strips are used to securely join adjacent sheet sections at their overlap seam. Whether bonded dimples to dimples or dimples to the flat edge margin, the **sheet sections are durably connected**. The butyl strip joints ensure ideal barrier properties to water vapour and dampness.

	3.5 mm anchor heads with nails	
	Head / material	HDPE
	Nail / material	steel
	5 mm anchor heads with plugs	
	Head / material	HDPE
	Plug / material	HDPE
	Interplast Finishing Strips	
	Material	HDPE
	Colour	black
	Length	2.0 m / 2.5 m
	Package size	20 strips
	Interplast Butyl Strips	
	Strip thickness	1.5 mm
	Strip width	40 mm
	Roll length	40 m
	Package size	3 rolls
	ISO-FIX	
	Anchor for ISO-DRAIN 8 DIAGONAL	
	Material	HDPE
	Colour	brown
	Package size	370 heads



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Our Promise

At Interplast, we focus on coming up with new, surprising ideas – today we're thinking about your requirements for tomorrow. In looking for new ways to solve your problems, we are not afraid to take unconventional paths, relying on imagination for uncommon solutions along with courage to travel uncommon routes. By keeping our eyes open and constantly learning more, we break through barriers and set new standards. True to our roots as a family-owned company, we listen exactly to what you have to say and attach utmost importance to fairness in our business relationships. At Interplast, our employees, customers and suppliers are fully committed with their hearts and their minds and work together as partners.



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