



***GEOtight***<sup>®</sup> (Pat. CH, EU)

**Patented fabric packer for durable and safe sealing of holes drilled for geothermal probes**

## Examples of the applications of the **GEOTight®** fabric packer

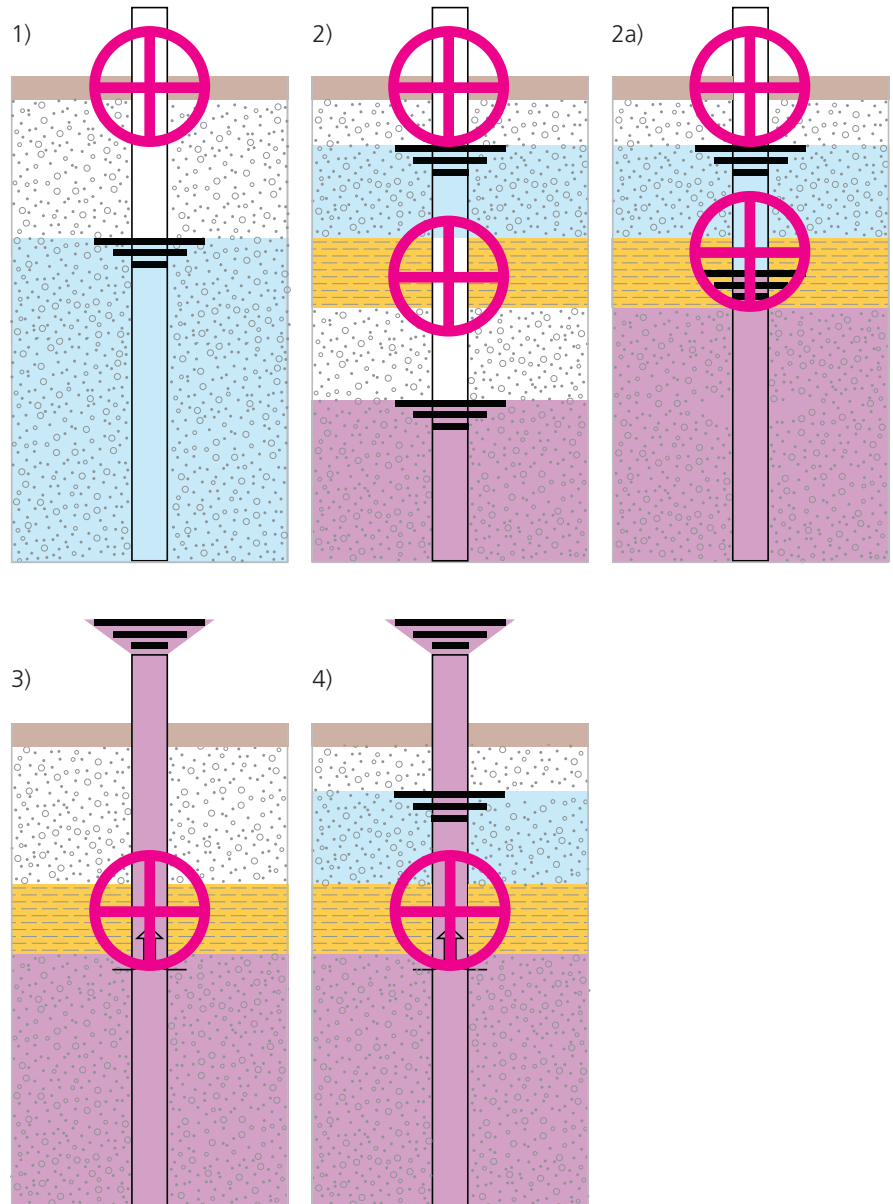
1) Protection against the penetration of contaminated surface water (e.g. parking areas, streets, etc.) with a free water table (WT)

2) Sealing of two aquifers (downward hydraulic short circuit) with a free WT and additional protection against contaminated surface water finding its way into the upper aquifer.

2a) Sealing of two aquifers (upward hydraulic short circuit) with a banked up lower WT and additional protection against contaminated surface water finding its way into the upper aquifer.

3) Sealing of an Artesian well

4) Prevention of an hydraulic short circuit in two aquifers, e.g. with a free upper WT and an Artesian banked up lower WT, as well as sealing against the entry of contaminated surface water into the upper aquifer.



### Wide area of use without extensive preliminary planning

*GEOTight®* can be used in all areas where additional and permanent sealing is required. It can be used at any depth and with individual sealing lengths. The fabric packer can be precisely positioned without having to determine the positioning depth in advance. There is no need for any costly preliminary planning.

## ***GEOTight*<sup>®</sup> geothermal probes in drilled holes – sealed permanently and safely**

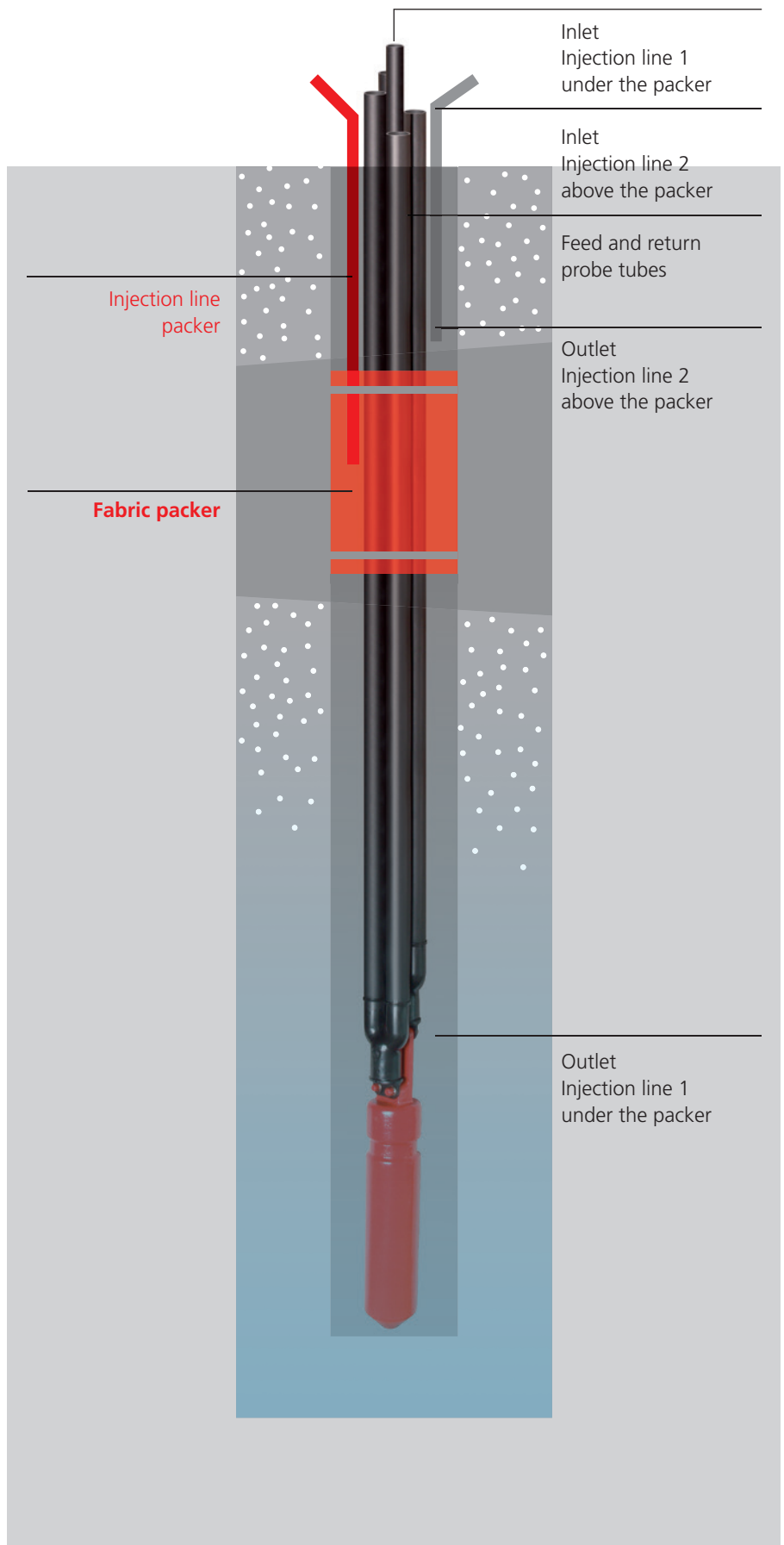
**Groundwater, banked up water, contaminated surface water and gas can sometimes pose a problem when using geothermal probes in drilled holes. The *GEOTight*<sup>®</sup> fabric packer is the tried and tested, safe and practical solution for a quick and lasting sealing.**

The *GEOTight*<sup>®</sup> is a sealing system that is used in holes drilled for geothermal probes. Particularly when ground water protection regulations apply and standards request it; e.g. SIA 364/6, EWS seal of approval, etc.

*GEOTight*<sup>®</sup> works on a simple but clever principle. A “fabric hose” filled with cement is precisely applied and has a lasting, targeted effect against the entry of surface water, the unwanted circulation of ground water (hydraulic short circuits) Artesian\* water and gas leaks. At the same time, the *GEOTight*<sup>®</sup> fabric packer prevents the contaminated surface water finding its way into the subsurface.

The *GEOTight*<sup>®</sup> fabric packer greatly extends the possible areas of use for the drill hole geothermal probes.

**Proof for the installation of the *GEOTight*<sup>®</sup> fabric packer can be easily provided thanks to the online certificate of installation.**

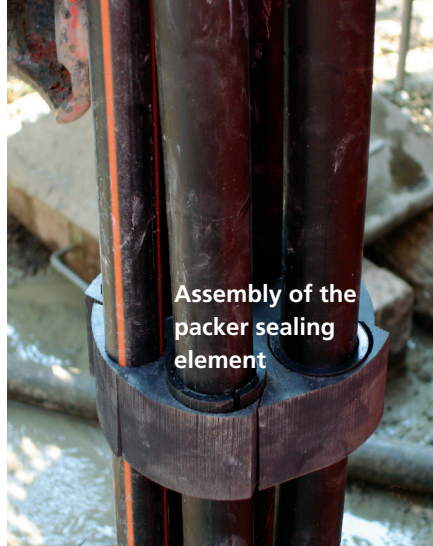


\*An Artesian well or an Artesian feed arises if drilling is carried out in a groundwater bearing layer with an hydraulic potential that is high enough to rise up to the surface of the ground, or higher, on its own, i.e. without pumping.

# The **GEOtight®** fabric packer was developed by Swiss drilling engineers and geologists; on site from professionals to professionals on site.

## Simple and quick installation

The **GEOtight®** fabric packer stands out because of its simplicity. It can be assembled directly at the drilling location, quickly and simply, without any special tools.



## The **GEOtight®** fabric packer consists essentially of the following components:

- 2 packer sealing elements
- 1 filter fabric hose
- Fastening elements



## **GEOtight®** fabric packer – in compact and practical System Kit



## Advantages at a glance

- Quick to assemble
- Easy to install
- Any depth
- Any fabric hose length
- Several fabric packers available
- Simple stockholding with robust packaging (Kit)
- Ready for immediate intervention
- Safe and long-lasting
- Cost-effective
- For an extended area of use
- Online certificate of installation
- Patent EP 1865 146 B1 (CH, EU)



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