

# BMI Presentation

Teranap TP Control – Geomembrane

## Seam Control Technology



# Siplast – Teranap TP

The experts in Geomembranes and  
Waterproofing Systems

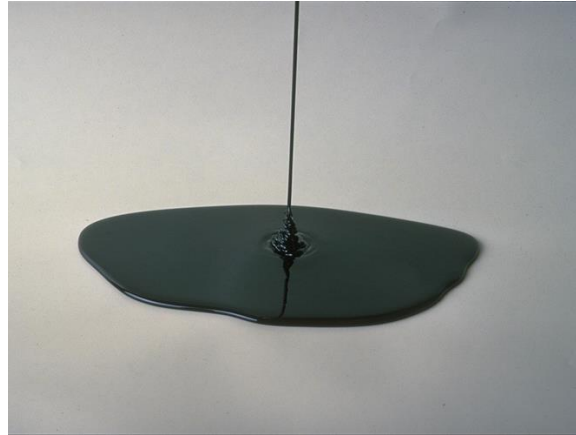
# Teranap TP Control

Bituminous Geomembrane now with Seam Control Technology



# Teranap TP Control Seam Control System

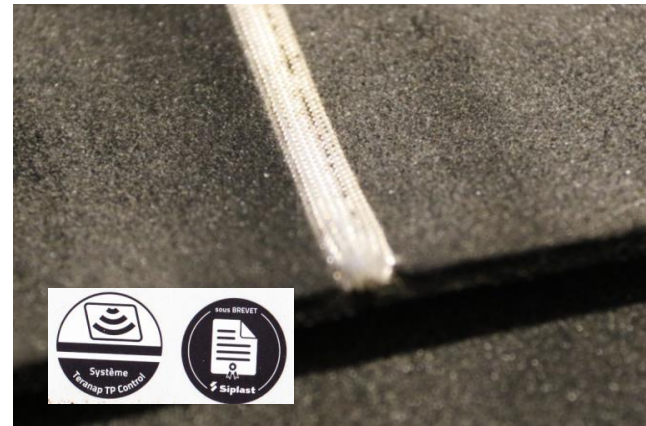
- The first Bitumen Geomembrane with integrated seam control
- Innovative and exclusive technology, under the Siplast patent
- Easy leak detection
- Fast reliable
- Precise leak location
- Non-destructive control



# Teranap TP Control

## First bitumen geomembrane with integrated leak control system

- The control channel is embedded in the geomembrane and located in the middle of the weld melting zone. When the overlaps and welds are completed, the channel becomes fully encapsulated between the two layers of the membrane.
- Leak detection is carried out after the welding of Teranap TP rolls
- The tracer gas is injected at low pressure into the channel, and will spread along the geomembranes welded channel finding all possible escape routes.
- The detector is able to quickly locate the leak with high precision.



# Teranap TP Control

## Welding quality control – tools required

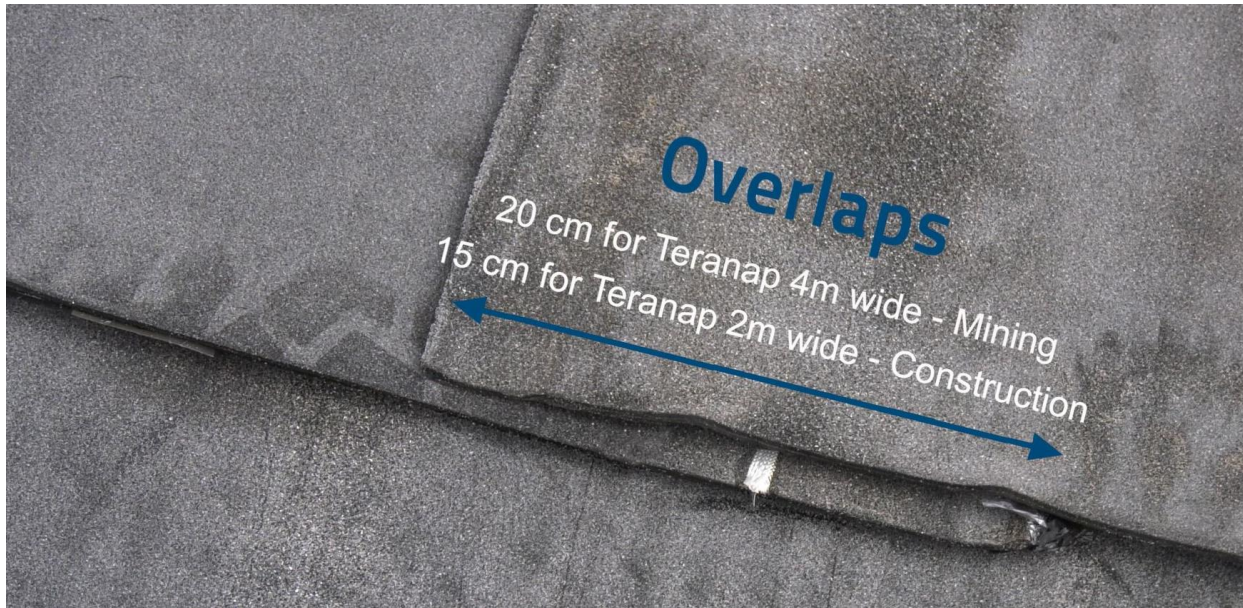
- Leak detection by tracer gas and lightweight control tool providing a very reliable process to determine precisely any leaks.
- Leak detected instant alarm sounds with gas tracer meter reading and warning flashing light.
- Thanks to the sniffer canes sensitivity that is used along the weld, the portable device detects if there is any presence of tracer gas molecules and locates the precise location of the leak.
- It can be confirmed with a water / soap solution.



# Teranap TP Control

Same welding technique

Same pressure seal technique





# Teranap TP Control

Simple setup and detection



# Teranap TP Control

Fast accurate detection



# Teranap TP Control

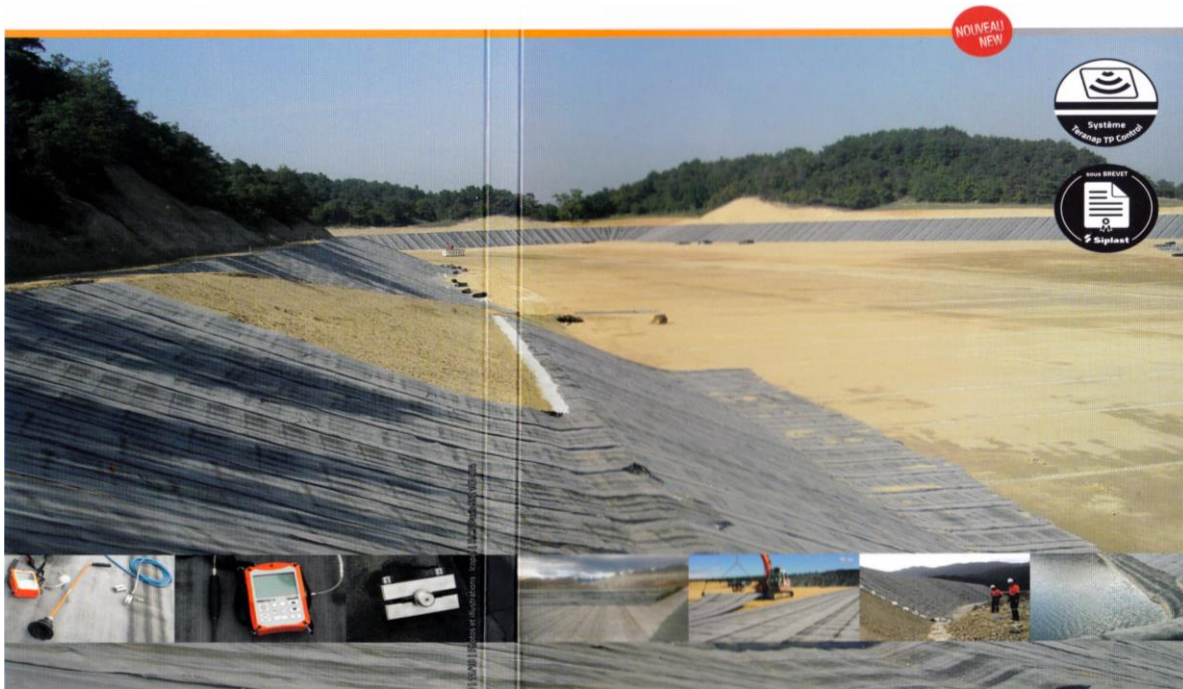
Control video - Protected design

<https://www.youtube.com/watch?v=dVw7IpG047g>



# Teranap TP Control

## Seam Control samples and brochures



### Teranap TP Control

**F** Technologie innovante et exclusive, brevetée Siplast  
 Détection des fuites par gaz traceur et appareillage portable léger  
 Technique qui détermine avec précision l'endroit des éventuelles fuites au niveau de la soudure  
 Fonctionne sous très faible pression : pas besoin de compresseur ni d'électricité

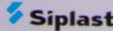
**Principe de fonctionnement**


- Le contrôle de l'étanchéité de la soudure se fait après avoir réalisé les soudures des lés de géomembranes Teranap TP.
- Le canal est intégré dans la géomembrane et se situe au milieu de sa zone de soudure. Lorsque le recouvrement et la soudure sont faits, le canal se trouve noyé dans la zone de fusion du liant bitume des 2 géomembranes.
- Le gaz traceur est injecté à faible pression dans le canal. Le gaz va se propager le long du chemin de fuite. Grâce à sa sensibilité et sa sélectivité, le détecteur est capable de localiser le point d'origine de fuite avec une grande précision.
- Il suffit ensuite de passer avec la canne renifleuse le long de la soudure, l'appareil portable détecte ou non la présence de molécules du gaz traceur et localise l'endroit précis de la fuite. Celle-ci peut être confirmée à l'aide d'une solution eau/savon.

**GB** Innovative and exclusive technology, under the Siplast patent  
 Leak detection by tracer gas and lightweight control tool  
 Reliable process to detect any leaks and the precise location  
 Detection under very low pressure: no need for compressors or electricity to carryout onsite testing

**Functional principle**

- Waterproofing control – leak detection is carried out after the welding of Teranap TP rolls.
- The control channel is embedded in the geomembrane and located in the middle of the weld melting zone. When the overlaps and welds are completed, the channel becomes fully encapsulated between the two layers of the geomembrane.
- The tracer gas is injected at low pressure into the channel, and will spread along the geomembranes welded channel finding all possible escape routes. Thanks to its sensitivity and selectivity, the detector is able to quickly locate the leak with a high precision.
- Thanks to the sniffer cane that is used along the weld, the portable device detects if there is any presence of tracer gas molecules and locates the precise location of the leak. It can be confirmed with a water / soap solution.







# We see further