



The Grout-LINK™ underdrain installation method enhances the strength and reliability of Leopold two-part grout pour underdrain.

Grout-LINK™ Underdrain Installation Method

Enhancing Filter Underdrain Strength and Reliability

Introducing the Grout-LINK underdrain installation method for two-part grout pour underdrain systems from Xylem’s Leopold brand. This installation method improves uplift resistance for all Leopold brand underdrains and enhances the strength and reliability, extending the life of the system.

Reliable Filter Performance

In a gravity media filtration system, underdrains collect filtered water during the filter run and distribute air and water during the backwash cycle. The reliability and durability of the filter underdrain system is critical to ensure a long filter life and uninterrupted water production.

By utilizing the innovative Grout-LINK underdrain installation method, uplift resistance is dramatically improved by 50-100 percent (see table). This technology has been validated by third party testing, setting a new industry standard for strength and durability with Leopold’s Type S, SL, and XA Underdrain systems.

Ease of Installation

The Grout-LINK underdrain installation method utilizes a stainless-steel mesh material that is placed into the base grout layer in between each underdrain lateral. This wire mesh addition forms a strong physical bond between the base and fill layer, offering an enhanced level of uplift resistance and robustness for two-part pour underdrain installations. This simple, cost-effective installation process requires minimal time and no additional specialized tools. The necessary quantity of material is delivered in the form of 13-pound (5.9 kilogram) rolls for easy handling and simply cut to the required length.

THIRD-PARTY TESTING

Underdrain	Uplift Resistance psi (bar)	Uplift Strength with Grout-LINK psi (bar)
Type S	10 (0.6)	15 (1.0)
Type SL	10 (0.6)	15 (1.0)
Type XA	30 (2.0)	65 (4.5)

The Grout-LINK underdrain installation method is backed by third party testing representative of a full-scale underdrain installation.



Leopold Underdrain Technology



Type S Underdrain



Type SL Underdrain



Type XA Underdrain

- Designs offering flexibility for lateral lengths, filter depths, flume configurations, and backwash flow rates
- Superior air and water distribution for effective backwash and elimination of dead zones
- Cleaner filters, longer filter runs, lower operating costs
- I.M.S® media retainers allow additional media depth or increased filter freeboard

100 Years of Excellence in Water Treatment

Xylem's Leopold brand has long been a worldwide leader in the water and wastewater treatment industry, providing both filtration and clarification systems. Leopold designs and supplies systems for gravity media filtration, ozone-enhanced biofiltration, denitrification, clarification, sludge collection and backwash water recovery. Leopold solutions are ideal for municipal surface water and wastewater treatment, municipal or industrial water reuse, and desalination pretreatment.

Since its establishment in 1924, Leopold has pioneered and acquired innovative technologies aimed at improving the quality of water while reducing costs. With more than 10,000 installations around the world, Leopold is a trusted partner in water and wastewater treatment.



[Xylem.com](https://www.xylem.com)

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