



NILEX GeoRidge®
The original check dam

About NILEX

At Nilex, we provide a new level of engineered science to an age-old industry. Our smart, innovative cost-cutting solutions are the answer for today's road building, drainage, foundation, erosion control, containment, and all geo-environmental and civil construction challenges.

Nilex products and technologies improve construction projects by lowering costs and offering a positive environmental impact. It's a win-win situation. We work closely with our customers to reduce the use of natural materials such as granulars, clays and import fill – replacing them with engineered, technically advanced synthetic materials.

nilex.com

georidge.com

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Canada
 1.800.667.4811

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NILEX GeoRidge® Bio
Biodegradable check dam

Materials and Construction
 for Earth and Water





GeoRidge® Check Dam

GeoRidge® is a permeable check dam designed for erosion and sediment control. It is constructed of a durable UV stabilized HDPE plastic and manufactured using a fully automated diecast process to ensure the highest quality and consistency.



GeoRidge® Bio Check Dam

With the incorporation of technologically advanced additives, GeoRidge®Bio check dams will degrade over an 18 to 24 month period*. The interaction with environmental conditions and naturally occurring micro-organisms causes degradation of the material. Just install GeoRidge®Bio and nature will do the rest.

How GeoRidge® Works

GeoRidge® and GeoRidge®Bio check dams have proven to be effective for erosion and sediment control. By acting as an energy dissipater, GeoRidge® reduces flow velocities causing silt and sediment to settle upstream. The reduced water velocity also results in minimized downstream erosion. Compared to straw bales, rock check dams, wattles, and other synthetic devices, GeoRidge® consistently outperforms and delivers superior results.

Maximize Performance

To maximize GeoRidge® and GeoRidge®Bio performance, it is recommended that erosion control blankets be used in conjunction with these check dams. Erosion control blankets prevent undermining of the check dams and encourage the earliest possible vegetation growth.



Advantages of GeoRidge® and GeoRidge® Bio

- Effective sediment trap
 - Ease of installation
- Lightweight, portable and stackable
- Open structure, allows vegetation to establish
 - Freestanding design
- Simple anchoring system
 - Recyclable

Additional Advantages of GeoRidge® Bio

- Biodegradable
- No need for removal

GeoRidge® Applications

- Roadside channels/swales
- Stormwater channels
- Slopes

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* Degradation time is dependent on environmental conditions.



GeoRidge® and GeoRidge®Bio check dams are lightweight and stackable. Installation is a one-person operation.



Galvanized spikes (GeoRidge®) and biodegradable spikes (GeoRidge®Bio) are used to secure the check dams.



GeoRidge® check dams slow the flow of water. As the water flows through the check dam, its velocity and energy are reduced.



As a result, silt and sediment are deposited upstream of the berm aiding in sediment control.