



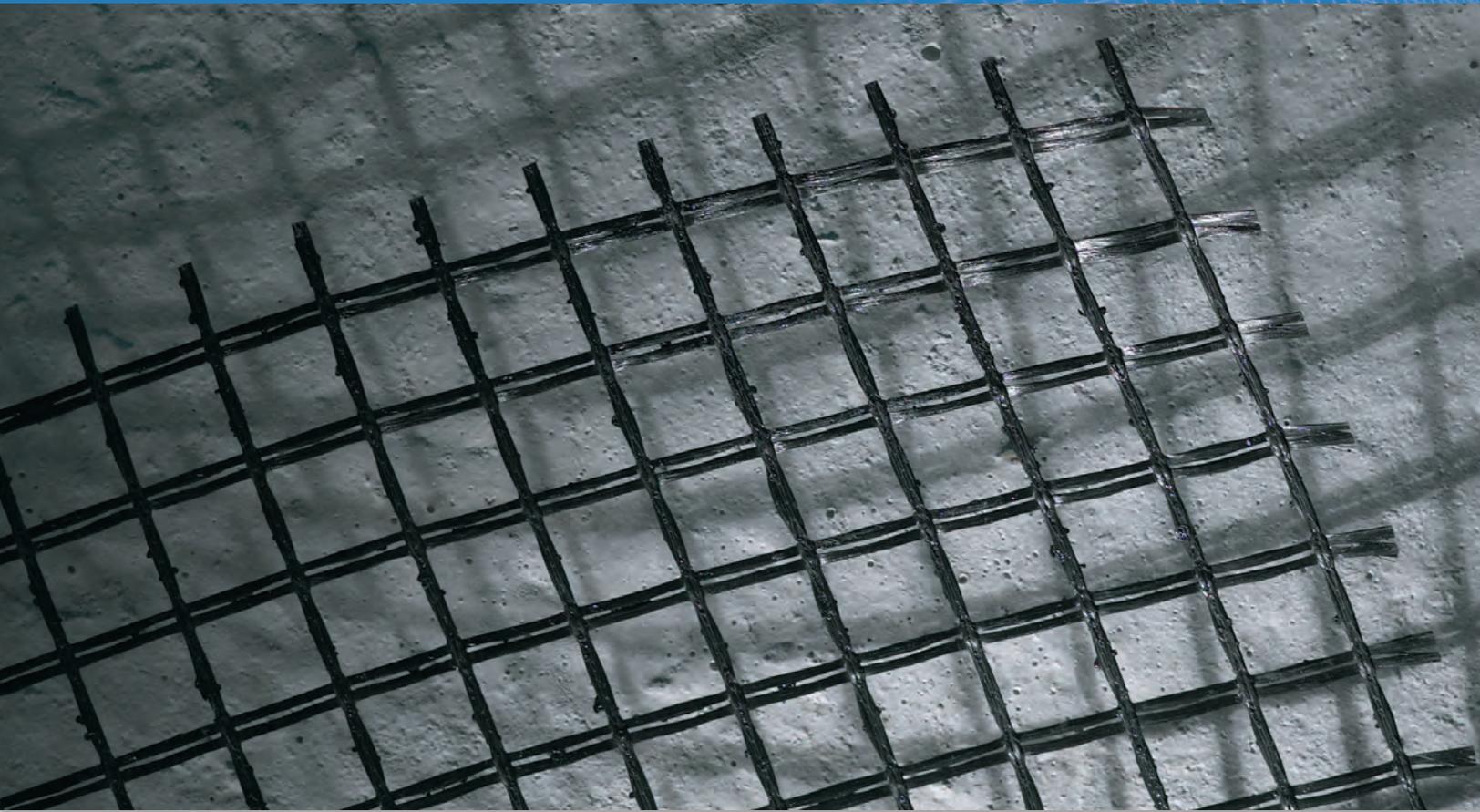
Concrete Reinforcement

Alkali-Resistant

Easy Installation

Optimal Solutions Under One Roof

Strengthening Reinforcing Grids



Stronger ideas for a sustainable world



A Breakthrough Solution to Reinforce Concrete

Strengthening Reinforcement Grid (SRG) is a breakthrough solution, specifically designed to fortify concrete (cementitious) structures and products.

What is SRG?

Strengthening Reinforcement Grid (SRG) is a line of fiber-glass mesh fabrics manufactured from alkali-resistant Cem-FIL® glass fibers. The SRG fabric is further treated with proprietary coatings to promote bonding with concrete/cementitious structures and to enhance moisture resistance. SRG is non-flammable, produces no toxic fuming, and is easy to install. It is suited to new construction, or can be used to upgrade existing concrete structures. SRG is a versatile strengthening solution that can also be incorporated into manufactured concrete products.

SRG Strengthens Concrete Construction

All over the world, concrete is widely used in building construction, although there can be significant drawbacks. To prevent cracking concrete structures, such as walls, require some type of reinforcement, which is typically steel. While reinforcements are necessary, over time they too can become corroded and can degrade due to the presence of moisture and the inherently high alkalinity of cement. The concrete structure can therefore be compromised.

Now architects and designers have an alternative when planning new projects or renovating existing structures. Saint-Gobain ADFORS has developed SRG as a high-performance solution that provides full-strength reinforcement in concrete (cementitious) structures.

SRG Reinforces Concrete Products in Manufacturing Applications

In the same way that SRG is used to reinforce concrete construction, SRG can be used to reinforce manufactured concrete products. SRG is easily incorporated into manufacturing processes, and can be custom ordered to suit your manufacturing needs.

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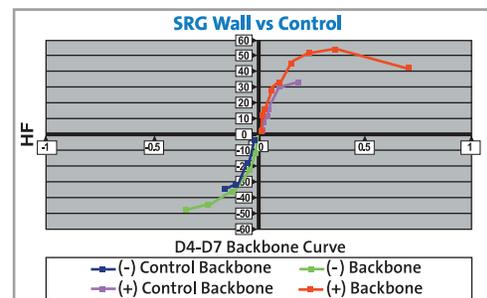
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SRG Beats Traditional Methods

Compared to traditional solutions that include steel or resin-based glass reinforcement systems, SRG is a less costly and more effective solution. SRG is a grid that bonds effectively and evenly with concrete. The result is improved tensile strength and ductility, which enables structures such as walls to resist breaking when bent.

Under a Cooperative Research and Development Agreement with the U.S. Army Corps of Engineers Engineer Research and Development Center, Construction Engineering Research Laboratory (ERDC-CERL), SRG was tested for seismic resistance and demonstrated superior strength (up to 57%) and ductility (up to 44%) when compared to unreinforced masonry walls. SRG reinforcements deliver better, long-term performance, including a dramatic improvement in stress load transfer.



Engineered for the Long-Term

SRG is highly cost-effective when considering the potential extended life, total job cost, and potential cost of future repairs or alternative repair systems. SRG can be used to reinforce weight-bearing structures or those that must withstand repeated force or impact. SRG is particularly recommended for highly alkaline environments, including projects where soil or seawater is present.

Use SRG for any concrete project that requires long-term strength, such as:

- Lightweight concrete panels
- Masonry walls
- Barrier walls
- Retaining walls
- GRFC applications
- Docks
- Concrete floors, balconies, and decks
- Cementitious facade cladding

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