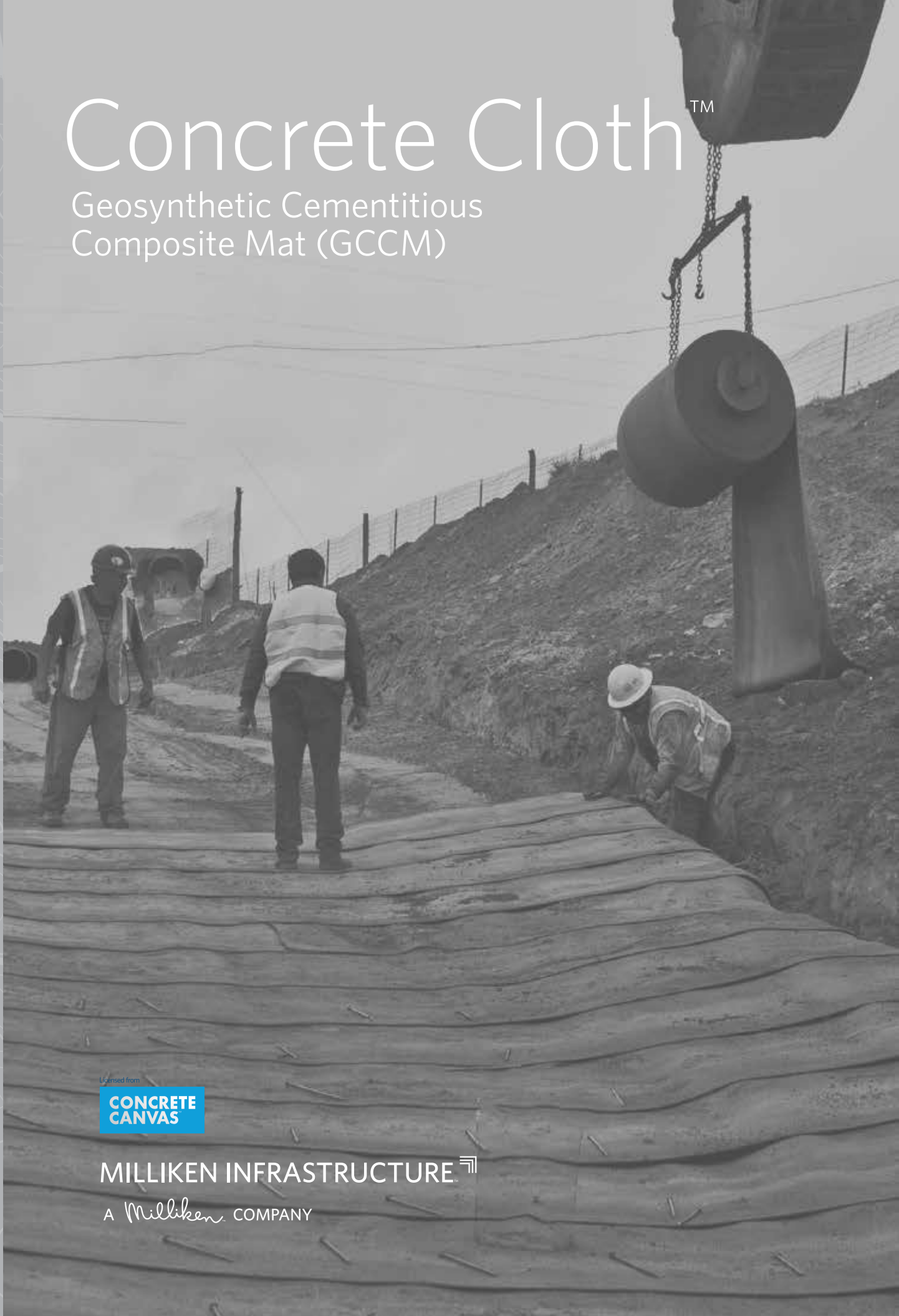


Concrete Cloth™

Geosynthetic Cementitious
Composite Mat (GCCM)



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Milliken Infrastructure Solutions

At Milliken Infrastructure Solutions, LLC, we solve infrastructure challenges differently. More than just a materials provider, we partner with the industry to deliver smart, practical, innovative solutions.

Our breadth of solutions rehabilitate, strengthen and protect infrastructure components. Backed by our engineering expertise and support, these systems install easier and faster than functional equivalents.

Whether you are building new or repairing existing infrastructure, we can help you strengthen your structures to deliver the performance you need.

Changing the Way You Think About Concrete

Imagine being able to use concrete on slopes, in water, and in other hard to reach locations - with no forms, no mixing and minimal equipment. Concrete Cloth™ geosynthetic cementitious composite mat (GCCM) is a flexible fabric that will bend and curve, enabling it to follow the natural contours of the land including ditches and slopes.

The material can't be overhydrated, so it can be installed in the rain or under water, even salt water. And, because it comes in a variety of sizes, including rolls small enough for two men to carry, it reduces the need for heavy machinery.

An ideal alternative to rip-rap, shotcrete and poured concrete, Concrete Cloth GCCM can be used in any place that needs protection from erosion or wear, and can be used to channel or contain water or other liquids.

To meet the needs of your application, three thicknesses are available: **CC5** (5 mm or 0.2 inches), **CC8** (8 mm or 0.3 inches) and **CC13** (13 mm or 0.5 inches).



Applications

Ditch and Channel Lining

Concrete Cloth™ GCCM can be rapidly unrolled to form a ditch or channel lining. When comparing erosion control methods, it is a cost-effective alternative to riprap, cement stabilized soil, plastic inserts, and shotcrete.

Benefits

- Minimizes installation time
- Conforms to ditch geometry
- Lowers total project cost
- Requires no specialized equipment
- Installs at a rate of 20,000 sf per day
- Acts as an effective weed suppressant



Culvert

Ideal as a protective wear surface in metal culvert applications, Concrete Cloth GCCM is a cost-effective alternative to topical invert coatings and relining systems. Additionally, it can be used at the headwall, inlet and outfall to prevent erosion and undermining of the existing structure.

Benefits

- Extends the life of existing culvert asset
- Hydrates with existing water source
- Offers easy handling and installation with a small crew



Slope

Concrete Cloth GCCM can be used to protect slopes as a replacement for shotcrete, riprap, and other hard armor systems. The material is easy to install, requiring limited equipment, and can be used by standard maintenance crews.

Benefits

- Reduces installation time
- Lowers total project cost
- Features small equipment footprint
- Acts as an effective weed suppressant
- Installs in rain, if needed, maximizing schedule flexibility

Berm

Compared to poured or sprayed concrete, Concrete Cloth GCCM is a cost-effective alternative for lining secondary berms. Its ability to be installed quickly reduces time on site, while the availability of man-portable rolls allows for installation in areas with reduced access.

Benefits

- Acts as an effective weed suppressant
- Installs easily around existing structures
- Provides additional levels of impermeability
- Lowers total project costs
- Reduces maintenance costs
- Offers fire protection

Other Applications

- Geosynthetic liner protection
- Irrigation
- Mining
- Remediation



Concrete Cloth GCCM

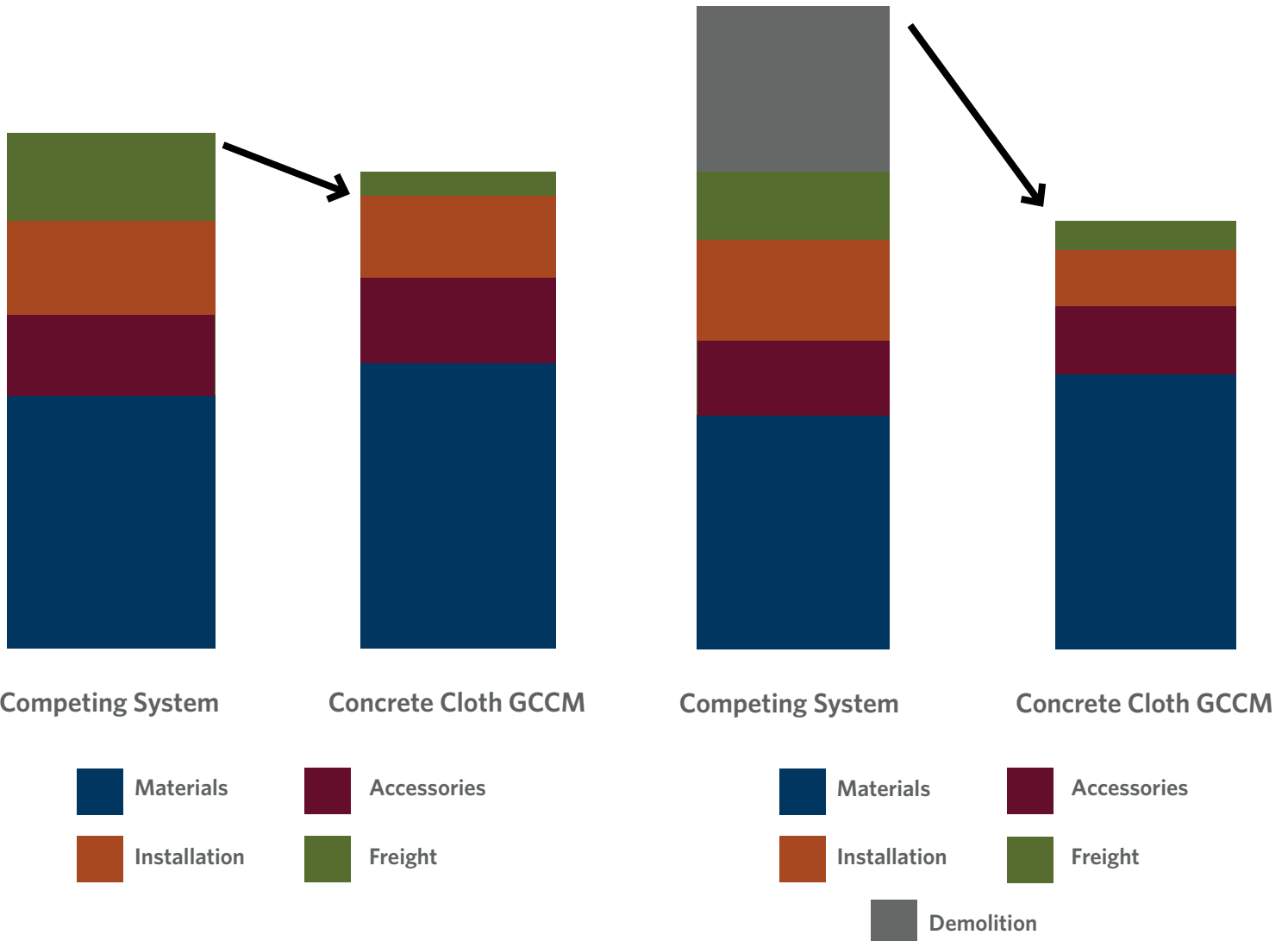
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APPLICATION	Ditch Lining	Slope Protection	Berm Lining	Concrete Remediation	Culvert Lining	Weed Suppression	Outfalls/ Spillways	Gabion Protection	Mining Vent/ Blast Walls
CC5	●	●	●	●	●	●		●	●
CC8	●	●	●	●	●		●		
CC13	●		●	●	●		●		

● Recommended ● Recommended for specific applications

Concrete Cloth GCCM can lower total installed cost with less freight and faster installation.

By using Concrete Cloth GCCM in overlay of existing berms, potential savings are significant as construction costs are minimized.



Delivering Value



Engineering Expertise

- Assess challenges and recommend customized solutions
- Leverage multiple technology platforms
- Provide in-depth documentation and third-party validation



Technical Support

- Deliver in-field training and support
- Provide responsive and on-demand service



Project Optimization

- Lower total project cost
- Improve contractor productivity
- Reduce user impact
- Extend asset life cycle
- Reduce installation time
- Minimize surface/soil preparation
- Avoid weather-related delays

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