

WATERPROOFING

MiraDRAIN Aggregate-Free Drainage System

CCW MiraDRAIN GR9400

A high-capacity, retention/drainage composite consisting of a three-dimensional, high-impact polystyrene core with holes allowing proper water retention management and drainage, a moisture retention fabric and a woven filler fabric. Designed for use in horizontal green roof or large planter applications.

CCW MiraDRAIN HC

HC provides water flow for demanding applications that encounter high volumes of water. This system is designed for applications where two-sided drainage is required. HC utilizes the three dimensional cone with non-woven fabric in both punched and non-punched configurations (for greater water flow control).

Hydrostatic Pressure. Leaks. Structural Damage.

Stop the progressive destruction caused by groundwater seepage with MiraDRAIN aggregate-free drainage solutions. Each MiraDRAIN system allows multiple flow paths for water to pass freely into the drainage core, relieving hydrostatic pressure and protecting the waterproofing system. MiraDRAIN prefabricated drainage panels are lighter than traditional aggregate systems, making them less expensive to ship. In addition, MiraDRAIN systems do not require a protection course when used with most waterproofing systems.

MiraDRAIN systems are easy to install and are ideal for:

- Retaining walls
- Foundation Walls
- Lagging Walls
- Split Slabs
- Plaza Decks
- Green Roofs
- Planters
- Buttress/Landfills
- Interceptor/Edge Drains



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CCW MiraDRAIN's Easy Application

Foundation Walls - Vertical Applications*

- Start at the low point of the wall.
- Place CCW MiraDRAIN with the fabric side toward the soil.
- Attach adjacent panels together.
- Place the longitudinal edge of the core against the wall.
- Attach subsequent panels in shingle fashion and move up the wall.

Underslab - Horizontal Applications*

Floor Slabs and Concrete Lined Channels:

- Area should be clear of rubble, rock, large soil clods, etc.
- Place CCW MiraDRAIN with the fabric side toward the soil.
- Place the flange of the second and all subsequent panels over the back side of the preceding dimpled core.
- Seal panel joints, longitudinal and transverse joints on the CCW MiraDRAIN core, with CCW approved tape.
- Sand or concrete may be poured directly over CCW MiraDRAIN.

Planters:

- Place the CCW MiraDRAIN in the planter, fabric surfaces face the soil.
- Utilize the installation procedures and attachment method appropriate for the type of substrate.
- Overlap the fabric of the vertical panel onto the horizontal panel at the transition point.
- Exposed cuts must be covered with supplemental pieces of filter fabric to prevent soil intrusion.

Plaza Decks:

- Place fabric side up over CCW waterproofed substrate.
- Place panels in shingle fashion and secure with ballast or approved CCW adhesive.
- Cut, termination edges will require a supplemental piece of filter fabric to seal the panel from soil intrusion.

*For specific details, review the complete CCW MiraDRAIN brochure and application guide.

CCW MiraDRAIN's drainage composites are comprised of factory-controlled material and consist of a three-dimensional, high-impact core with a filter fabric. The woven and nonwoven fabrics are bonded to the dimpled core to prevent the passage of soil particles into the core and minimize fabric intrusion while allowing water to pass freely. See the following individual product details and features:

CCW MiraDRAIN 2000

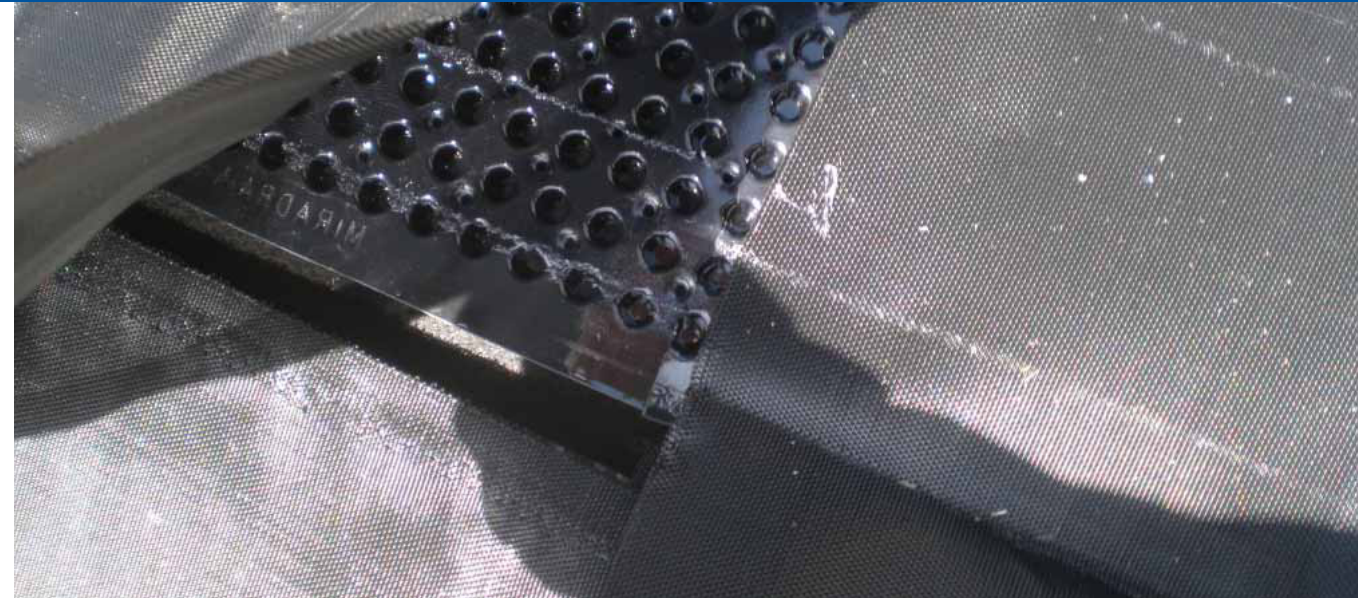
MiraDRAIN 2000 is a shallow depth drainage solution for foundation walls. It's intermediate flow rate and compressive strength make it's ideal for residential or light commercial applications.

CCW MiraDRAIN 6000/6200

For years, MiraDRAIN 6000 and 6200 have been the industry standard for high-flow, high-compressive strength, vertical single-sided subsurface drainage applications. MiraDRAIN 6200 is designed for use over CCW waterproofing membranes. The high-strength polymeric film adhered to the flat side of the drainage core protects the waterproofing membrane from potential die cutting.

CCW MiraDRAIN 6000XL & 6200XL

MiraDRAIN 6000XL and 6200XL provide a major upgrade over the trusted MiraDRAIN 6000/6200 products as it's designed with a high-strength filter fabric for use in high-flow, high compressive strength, vertical drainage applications where single-sided subsurface drainage is needed. The superior fabric



provides greater filtration for a wider range of soil conditions, higher survivability during installation, and greater long term performance. Just like MiraDRAIN 6200, 6200XL is designed for use over CCW waterproofing membranes by utilizing the same high-strength polymeric film to protect the waterproofing membrane from potential die cutting.

CCW MiraDRAIN 8000

Utilizing a high-impact PVC core, MiraDRAIN 8000 is recommended for applications where chemical run-off is a consideration, such as airports, helicopter pads, and industrial sites. It is resistant to petrochemicals and suitable for subgrade drainage around storage tanks. Available with a standard woven geotextile fabric, or with non-woven geotextile fabrics.

CCW MiraDRAIN 9000

The industry leader for high-compressive strength horizontal applications, this geocomposite sheet drain features a high-strength woven geotextile fabric, which limits the intrusion of the fabric into the drainage channels under load. The woven fabric is better suited to receive a directly poured concrete

topping than non-woven geotextile fabrics. Ideal for use in plaza deck, parking deck and split slab construction.

CCW MiraDRAIN 9800

The superior heavy weight non-woven geotextile fabric on the new MiraDRAIN 9800 provides unmatched filtration, preventing small particles of soil from clogging the drainage channel while allowing the water to flow through the dimple core and into the discharge system. Its high compressive strength meets the needs of most horizontal applications. Ideal for use on green roofs, landscaping and planters.

CCW MiraDRAIN 9900

With 33,000 psf and a flow rate exceeding that of a geonet by more than 90%, the compressive strength of MiraDRAIN 9900 exceeds all geocomposite sheet drains and geonets available today. It's woven geotextile fabric is suited to receive a directly poured concrete topping. It withstands the stresses and strains caused by vehicular traffic and other high compressive strength situations. Ideal for use on plaza decks, split slab construction and in locations that encounter emergency traffic.