# AQUA-BOARD 200

## Prefabricated Soil Drainage Material

**Quality Waterproofing for ICF and Standard Construction**

## PRODUCT DESCRIPTION

Aqua-Board 200 sheet drain is a two-part prefabricated soil sheet drain consisting of a formed polystyrene core covered with a non-woven, needle-punched polypropylene filter fabric on the dimple side of the core The fabric allows water to pass into the drain core. The core allows the water to flow to designated drainage exits.

## BASIC USES

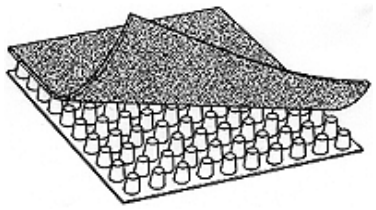
Aqua-Board 200 sheet drain is designed primarily for vertical and horizontal applications at shallower depths where moderate compressive strength and flow capacity are adequate. The core side of Aqua-Board 200 is placed against the wall surface of the foundation, or other similar structure. Aqua-Board 200 provides full-coverage protection to waterproofing materials.

## PACKAGING

- 4' x 50' Rolls
- Available in different widths and lengths upon request.

## COLLECTION SYSTEMS

Aqua-Board 200 sheet drain can be used with Aquaseal Strip Drain for the collection and transportation of the water to designated exits.



## INSTALLATION INSTRUCTIONS

### DRAIN ATTACHMENT METHODS:

For attaching drain to waterproofing material, concrete or wood, several methods may be used including metal stick pins, nails driven through washers or wood lathing, or double sided tape. Typically any method used for attaching waterproofing protection board will work with drain including using some of the waterproofing material as an adhesive. To attach drain to bare earth, use 4"- 8" anchor pins with washers. .

### VERTICAL :

Aqua-Board 200 may be installed starting at the top or bottom of the wall. The roll may be installed either vertically (perpendicular to the footing) or horizontally (parallel to the footing). When installed vertically, the core flange should be at the upstream edge. This flange position minimizes seepage of water behind the drain similar to the way roof shingles work. When installed horizontally, the edge of the core of the core flange should be at the top.

### HORIZONTAL:

The edge of the core with the flange should be at the higher edge (or areas) of the plaza (away from the drains). In both the horizontal and vertical installation, Aqua-Board 200 can be installed while the waterproofing material is still tacky as this will help adhere the waterproofing protection board to the foundation.

### CORNERS:

Bend Aqua-Board 200 to make inside corners. For outside corners, cut and bend drain core to reach corner and provide 3" of extra fabric to wrap around edge of drain core. Secure with tape.

### BACKFILLING:

Soil should be placed and compacted directly against the drain. Direct compactor exhaust away from drain to prevent damage. Backfill to a minimum 6" above drain to allow for coverage after settlement.

**DETAILED INSTRUCTIONS FOR INSTALLATION AND TERMINATION ARE AVAILABLE ON OUR WEBSITE**

# AQUA-BOARD 200

## Technical Data

| PHYSICAL PROPERTIES | TYPICAL US VALUE | TYPICAL SI VALUE | TEST METHOD |
|---|---|---|---|
| ***FABRIC PROPERTIES*** | | | |
| Material | Polypropylene | Polypropylene | |
| Grab Tensile Strength | 110 lbs. | 485N | ASTM D-4632 |
| Puncture Strength | 65 lbs | 285N | ASTM D-4833 |
| Trapezoidal Tear | 50 lbs | 220N | ASTM D-4533 |
| Mullen Burst Strength | 225 psi | 1496 kPa | ASTM D-3786 |
| Elongation | 60% | 60% | ASTM D-4632 |
| EOS (AOS) | 70 sieve | 212 micron | ASTM D-4751 |
| Permittivity | 3.1 $sec^{-1}$ | 3.1 $sec^{-1}$ | ASTM D-4491 |
| Permeability | 0.39 cm/sec | 0.39 cm/sec | ASTM D-4491 |
| Flow Rate | 200 $gpm/ft^2$ | 8145 $lpm/m^2$ | ASTM D-4491 |
| UV Resistance (After 500 hrs.) | 70% | 70% | ASTM D-4355 |
| ***CORE PROPERTIES*** | | | |
| Material | Polystyrene | Polystyrene | |
| Thickness | 0.25 inch | 6.35 mm | |
| Compressive Strength | 10,800 $lbs/ft^2$ | 527 $kN/m^2$ | ASTM D-1621 (Mod.) |
| ***PRODUCT PROPERTIES*** | | | |
| Flow Capacity per unit width | 9 gpm/ft | 112 lpm/m | ASTM D-4716 |
| Roll length | 104 ft | 31.7 m | |
| Roll width | 4 ft | 1.22 m | |
| Roll weight | 60 lbs | 27 kg | |

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.