HydroBlox™
Cardinal Systems, Inc.

Information Guide

WHAT IS HYDROBLOX™?

HydroBlox™ is an advanced material manufactured from 100% recycled thermoplastics. An exceptionally porous, high-strength plastic, **HydroBlox™** can filter and direct the flow of water using surface tension which is unique to this product. **HydroBlox™** maintains permeability, requires little to zero post-installation maintenance, and can easily be part of any future site developments.

***NO volatile plastics are used in HydroBlox™ making it eco-friendly.**

HOW DOES IT WORK?

Bury **HydroBlox™** in an area where you need to control water; the planks can be laid flat, placed on edge or even stacked. There is no need for heavy equipment, geotextiles, drainage pipe, sand, or aggregate. Just establish the proper slope, install the **HydroBlox™** and backfill — they will not crush or settle!

HydroBlox™ only absorb water; not dirt or silt. As water is introduced to the planks, filling microscopic cracks and crevasses throughout the product, the planks get saturated. This is where the water pressure and the "laziness" of water take over — the water would rather flow downward and utilize the easier path through **HydroBlox™** than "fight" its way back to its origin. Once the plank is saturated, the water then flows from plank to plank, to its final destination.

***The HydroBlox™ planks must overlap at least 2" at every connection.**

***Water is absorbed and travels through HydroBlox™ while the fine particles are filtered.**

***Water is released from HydroBlox™ when daylight is reached.**

SPECS:

Dimensions: 9" wide x 2" thick x 7.5' or 40" long
Weight: 7.5' = 30 lbs. and 40" = 14 lbs. (approx)
Support 102.41 tons/sq. ft. of compression
Water absorption is 14.24 gal/minute per meter
Consists of 38% void space for water to flow through
Crush resistant up to 40,000 lbs/sq. ft.
Filters down to 5 microns which prevents blockage

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INSTALLATION INSTRUCTIONS:

STEP 1: Layout of the drain field is done using the same pattern as with traditional drain systems. A simple can of spray paint will easily mark the lines.

STEP 2: Dig a trench between 2" and 4" wide and at least 12" deep. **There must be a 3" minimum of soil covering the plank once installed.**

STEP 3: Slide the **HydroBlox™** vertically into the trench. **Take care to overlap each plank at least 2". By overlapping the planks, the water pressure will move the water from plank to plank.** If needed, **HydroBlox™** can easily be cut using a circular saw. (If neccessary, use a dry wall screw to hold planks together.)

STEP 4: Fill the trench with the previously excavated soil and reseed. (No Geotextiles are needed as **HydroBlox™** are considered a Geotextile.)

***Installing HydroBlox™ is much faster and easier than any other drainage system.**

PART NUMBERS:

Part #

HB40

Description: 40" Plank
Shipping: 100 to a pallet

Part #

HB7.5

Description: 7' 5" Plank
Shipping: 40 to a pallet

Part #

SWBox

Description: Storm Water Box - hollow 7.5' box with one end capped off with the **HydroBlox™** and the other end has a pipe attached.
Shipping: 12 to a pallet

Part #

TranBox

Description: Transition Box - 12" x 12" box with pipe attached.
Shipping: 32 to a pallet

***In the event a board is broken in transport, the boards are still 100% usable. Simply overlap the smaller sections as you typically would with an installation.**

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