DRAINAGE CORE PHYSICAL PROPERTIES

DRAINAGE CORE PHYSICAL PROPERTIES

PRODUCTS	WIDTH Feet (meters)	THICKNESS (ASTM D 1777) Inch (mm)	COMPRESSION (ASTM D 1621) psf (kNm2)	FLOW (ASTM D 4716) gal/min/ft (L/min/m)
Dimple Core				
200/220	4 (1.22)	.25 (6.35	11,000 (527)	12.5 (155)
400/420	4 (1.22)	.44 (11)	15,000 (718)	17 (211)
700	4 (1.22)	.44 (11)	18.000 (862)	21 (261)
990	4 (1.22	.25 (6.35)	30,000 (1436)	13 (161)
1000	4 (1.22	.25 (6.35)	45,000	13 (161)
Green Roof				
GRS	3 (.9144)	1.0 (25.4)	9,000 (431)	21 (261) (Hydraulic Gradient 0.1)
400 RB-T	4 (1.22)	.44 (11)	15,000 (862)	21 (261)
400 RB-W	4 (1.22)	.44 (11)	15,000 (862)	21 (261
Strip Drain				
BCS	2	.44/1.0	9,000 (431)	80 (994)

DRAINAGE FABRIC PHYSICAL PROPERTIES

DRAINAGE FABRIC PHYSICAL PROPERTIES

PRODUCTS	APPARENT OPENING SZ (ASTM D 4632) U.S. STAND. SIEVE (mm)	WATER FLOW RATE (ASTM D4751) gal/min/ft2 (l/min/m2)	GRAB TENSILE (ASTM 4491) lbs (N)	GRAB ELONGATION (ASTM D 4632) %	CBR PUNCTURE (ASTM D 6241) lbs (Kn)
Drainage Fabric					
200/220	70 (0.21	165 (6724)	100 (0.445)	65	275 (1.22)
400/420	70 (0.21)	165 (6724)	100 (0.445)	65	275 (1.22)
700	45 (0.35)	160 (6520)	385x220 (1713x979)	15	725 (3.22)
990	45 (0.35)	160 (6520)	385x220 (1713x979)	15	725 (3.22)
1000	50	190	90	65	225
Green Roof					
GRS	70 (.210)	70 (2,853)	150 (667)	60	315 (1.40)
400 RB-T	70 (.210)	70 (2,853)	150 (667)	60	315 (1.40)
400 RB-W	45 (.35)	160(6,520)	385x220 (1713x979)	15	725 (3.22)
Strip Drain					
BCS	70 (0.210)	150 (6113)	115 (512)	70	320 (1.41)

HYDRO-GARD

18340 Yorba Linda Blvd., Suite 107, Box 304 Yorba Linda, CA 92886
Phone: (562) 944-7030 | Fax: (562) 944-6402

www.hydro-gard.com

GARD-DRAIN®

Prefabricated Drainage Composites

DIMPLE CORE SHEET DRAINS

200/220 Designed to manage water around foundations by collecting and discharging into collection systems. Moderate duty drainage medium designed to be used from finish grade level down to the bottom of the foundation. Gard-Drain 220 is identical to 200 series with the exception of a thin film protection sheet that's been added to the back side of the dimple core.

Flow Rate: 12.5 gpm Compression: 11,000 psf

400/420 Designed to manage water around foundations by collecting and discharging into collection systems. High flow rate drainage medium. Can be used in vertical and horizontal applications. Gard-Drain 420 is identical to 400 series with the exception of a thin film protection sheet that's been added to the back side of the dimple core.

Flow Rate: 17 gpm Compression 15,000 psf

700 High flow rate drainage medium. Designed to manage water in landscape zones, roof gardens, plaza decks and beneath concrete toppings by collecting & discharging it into the plumbing system. Designed for horizontal applications.

Flow Rate: 21 gpm Compression 18,000 psf

990 Designed for the highest compressive strength applications,its intended applications are under heavy concrete topping slabs, vehicular traffic areas & other areas where high compressive strength is required.

Flow Rate: 13 gpm Compression 30,000 psf

1000 Prefabricated drainage medium constructed using high strength, high flow capacity, formed polystyrene drainage core. Designed to manage water in plaza decks and beneath concrete toppings by collecting water & discharging into the plumbing system. Designed to withstand loads such as vehicles, trucks & other loads where other drainage cores may be crushed.

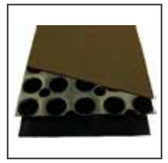
Flow Rate: 13 gpm Compression 45,000 psf

MODULAR FOUNDATION DRAINAGE & COLLECTION

Gard-Drain BCS is a base drain collector system. This high flow strip drain is used in conjunction with the Gard-Drain drainage systems. It's designed to collect the water that enters the Gard-Drain drainage composite and collect it at the base of the foundation wall and to discharge it through discharge pipes. It can also be used in lieu of the conventional pipe or French drain systems. Gard-Drain BCS also comes with a multiple of outlet options and fittings.

Flow rate: 80 gpm Compression: 9,000 psf

GREEN ROOF DRAINAGE



Gard-Drain GRS is a drainage composite designed for garden roofing applications. It consists of a perforated core with a root resistant filter fabric bonded to the top side of the core and a bottom protection fabric for applications over the roofing membrane. The core is installed dimple side down to allow water retention. The excess water is collected and drained to the plumbing system.

Flow rate: 21 gpm Compression: 9,000 psf

Gard-Drain 400RB-T is a prefabricated drainage medium designed to manage water around foundations, planting zones, green roofs or any other areas where root resistance is needed. Gard-Drain 400RB-T is a high flow rate drainage medium utilizing a dimple core design with a root resistant spunbond, nonwoven filter fabric which prevents roots from entering the drainage core. Gard-Drain 400RB-T can be used in vertical and horizontal applications.

Flow rate: 21 gpm Compression: 18,000 psf

Gard-Drain 400RB-W is a prefabricated drainage medium designed to manage water around foundations, planting zones, green roofs or any other areas where root resistance is needed. Gard-Drain 400RB-W is a high flow rate drainage medium utilizing a dimple core design with a root resistant woven monofilament filter fabric which prevents roots from entering the drainage core. Gard-Drain 400RB-T can be used in vertical and horizontal applications.

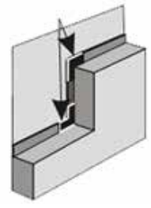
Flow rate: 21 gpm Compression: 18,000 psf

GARD-DRAIN® ACCESSORIES

End Outlet - Combination Drain

Tee Outlet - Combination Drain

Corner Guard - 12"



Stepdown Outlet