

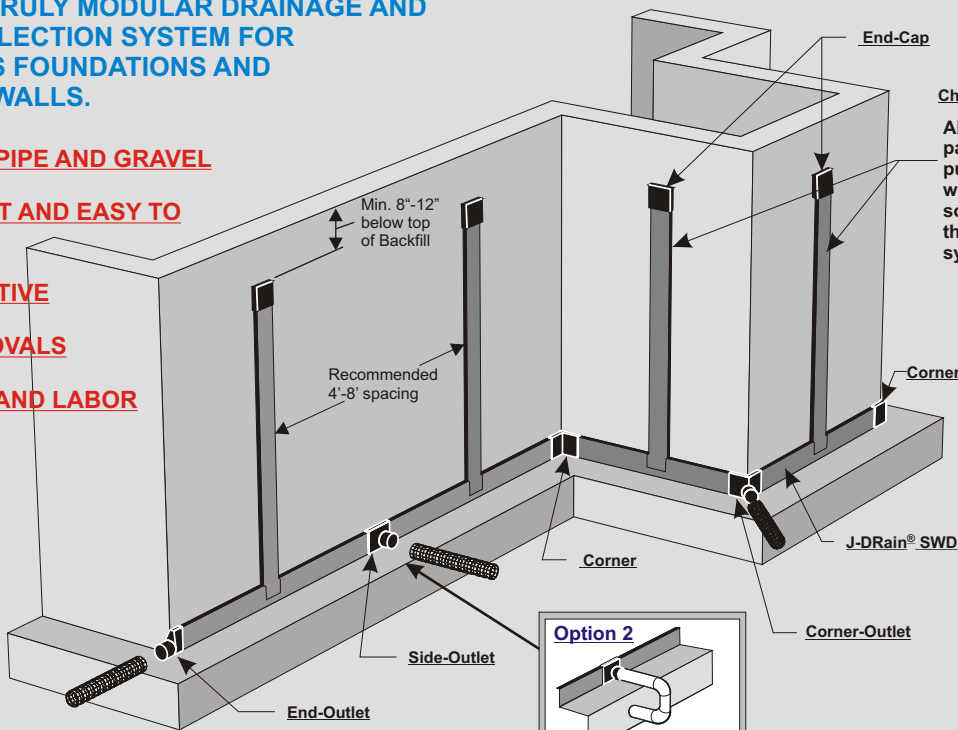
J-DRain[®] SWD

MODULAR BASEMENT DRAINAGE SYSTEM

U.S. Patent number 4,923,331

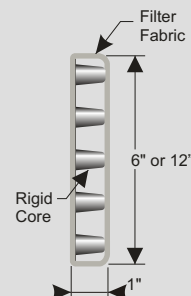
THE FIRST TRULY MODULAR DRAINAGE AND WATER COLLECTION SYSTEM FOR BASEMENTS FOUNDATIONS AND RETAINING WALLS.

- **ELIMINATES PIPE AND GRAVEL**
- **LIGHTWEIGHT AND EASY TO INSTALL**
- **COST EFFECTIVE**
- **CODE APPROVALS**
- **SAVES TIME AND LABOR**

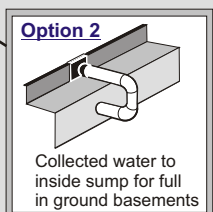


Chimneys: J-DRain[®] SWD

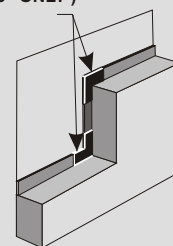
Although Chimneys are an optional part of the drainage system, their purpose is to draw the ground water which migrates through the adjacent soil to the wall and quickly convey the water down to the base collection system.



J-DRain SWD-6 and J-DRain SWD-12

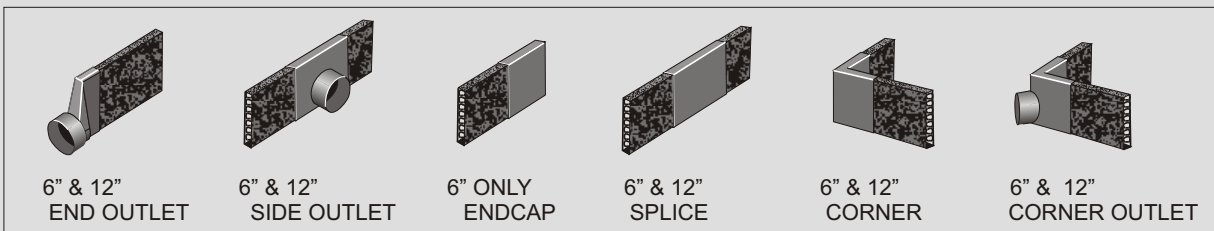


6 x 6 Step-Down Fitting (6\"/>



Stepped Foundation Detail

SYSTEM FITTINGS



J-DRain[®] SWD

A modular composite drainage and collection system consisting of a 3-dimensional, high flow, drainage core which is wrapped with a non-woven filter fabric. It is designed to replace a conventional sand or gravel covered pipe drain around building foundations and retaining walls. Soil particles are held back by the filter fabric allowing water to pass through to the drain core for easy removal by sump or by running to daylight. Available in 6 inch and 12 inch widths.

JDR Enterprises, Inc.

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J-DRain[®] SWD

MODULAR DRAINAGE SYSTEM



INSTALLATION INSTRUCTIONS:

1. Apply waterproofing system to wall.
2. Determine location of fittings for base part. Cut J-DRain SWD to proper length between fittings. (Allow for extra length for insertion into fittings) Insert J-DRain SWD completely into fittings. (It is recommended that fittings be taped to base part for filter continuity.
3. Bond fittings and J-DRain SWD to base of wall with either soil, waterproofing mastic, panel adhesive, insulation board adhesive, or a mechanical fastner.
4. Determine location of chimneys and cut J-DRain SWD to length allowing for 2"- 4" overlap of base part. Top of chimneys should be a minimum of 8" - 12" below the top of backfill. Bond to wall with adhesive as in step number 3.
5. Connect base fittings to 4" corrugated plastic drain pipe and run to sump or daylight. Special care should be taken to properly compact soil under drain pipe to prevent settling of drain pipe.
6. Backfill and compact soil.



End Outlet Fitting



Step Down Fitting



Corner Fitting



Physical Properties

Core

Compressive Strength (ASTMD-1621)	9,500 psf 455 kN/m ²
Thickness (ASTM-1777)	1 in. 2.54 cm.
Flow (ASTMD-4716) (Hydraulic gradient = .1)	30 gpm/ft width 372 lpm/m
Roll Weight:	30 lbs. & 60 lbs. 13.5 kgs. & 27 kgs.
Roll Width:	6" or 12" 15 cm. & 30 cm.
Roll Length:	150 ft. 45.72 meters

Fabric

Flow (ASTMD-4491)	140 gpm/ft ² 5698 lpm/m ²
Puncture (ASTMD-4833)	65 lbs. .30 kN
AOS (ASTMD-4751)	70 U.S. Sieve .212 mm
Grab Tensile (ASTMD-4632)	100 lbs. .45 kN

The information contained herein is believed by JDR Enterprises, Inc. to be accurate and is offered solely for the customer's consideration, investigation and verification. Determination of suitability for use is the responsibility of the user.

JDR Enterprises, Inc.

Be sure to visit our website at <http://www.j-drain.com>

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