

Infiltration Pit Fill Vendor List

January 2010 revision



Below is a list of suggested materials for use in an infiltration pit or other sub-surface runoff retention and infiltration system, or Best Management Practice (BMP), to meet the city's requirements for the Urban Runoff Pollution Mitigation Ordinance. The city does not endorse any specific product. This list merely identifies those products that the city's Urban Runoff Management Coordinator is aware of, to date, that can work in this specific BMP.

Each product has its own advantages, whether it is cost, void space, or ease of installation. One critical feature is to maximize void space to maximize runoff storage capacity and reduce clogging of void spaces with sediments and debris that may enter the system. While rock is cheaper, generally, it has significantly lower void space and can plug sooner. NOTE: If you choose rock, the pit volume must be increased by 2.5 times, for plastic devices, 1.05.

ROCK

2.5 inch rock and greater (#3 rock), available from various local or regional rock/quarry/building materials companies throughout Southern California.

PLASTIC INFILL DEVICES (Check each vendor for a local supplier)

Modular Tanks, plastic, snap together matrix boxes, approximately 95% + void.

Atlantis Matrix Tank Modules, Atlantis Corp., 604.734.6553, linda@atlantiscorp.com.au, www.atlantiscorp.com.au

CUDO Tank, KriStar Enterprises, 760.743.6328, www.kristar.com

D-Raintank, modular plastic storage chambers, Funke North America Ltd., 705.528.1064, fax 705.528.0970, info@funkenorthamericaltd.com, www.funkenorthamericaltd.com.

EcoRain Tanks/ Stormwater Solutions, 866.786.7690, 818.905.7582, www.stormh2osolutions.com, info@stormh2osolutions.com

Stormbloc™, Hydro International Stormwater, www.hydro-international.biz

StormTank, Brentwood Industries, 888.381.0800, www.rginc.com

Rainstore³, Invisible Structures, Inc., 800.233.1510, www.invisiblestructures.com, a plastic matrix one meter by one meter, four inches high, stackable, 94% void space, with geogrid top covering, best suited for small area, deep BMP depth.

StormCell®, HydroInternational, 207.756.6200, www.hil-tech.com, a geoplastic modular block, 95% void, with geogrid top covering, structural integrity, best suited for small area, deep depth.

Strata Cube, NSW, LLC., Stormwater Management Systems, 800.368.3610, www.nswplastics.com, a plastic open mesh tube system extruded and joined into various sizes, 99% void, suited for any size areas.

Tensor BX1100, Tensor Technologies, Inc., 800-TENSAR-1, 404-250-1290, www.tensorcorp.com, geogrid covering that provides additional strength for above plastic products.

CONCRETE-METAL-PLASTIC CHAMBERS (Check each vendor for a local supplier)

Advanced Drainage Systems, Inc., 800.821.6710, www.ads-pipe.com, corrugated plastic pipe, solid and perforated for a variety of urban runoff retention purposes, local contact available.

Blue Seal, Hancor, 888.367.7473, www.hancor.com, corrugated plastic pipe in various lengths and diameters, solid and perforated, suited for small and large areas, shallow and deep areas.

Con/Span, Con/Storm, Contech Stormwater Solutions, www.contechstormwater.com, modular, arched, pre-cast concrete stormwater retention system.

Corrugated Steel Pipe, Pacific Corrugated Pipe Co., 800.338.5858, www.pac-corr-pipe.com, corrugated steel pipe in various lengths and diameters, perforated, 99% void, horizontal with geogrid covering at each end, best suited for small and large areas, shallow and deep depths.

Oceansafe® System, combination aggregate-pipe storage, filtering-infiltration, horizontal-vertical system, www.shawconstruction.com

PP Fill Media, Bio-Microbics, Inc., 800.753.3278, 913.422.0707, www.biomicrobics.com, sales@biomicrobics.com, a polypropylene modular bloc, 8'x2'x2', 95% void, best suited for small surface areas and deeper depths.

Recharger™/Contactor™ H-20 Chambers, Cultec, Inc., 800-4CULTEC (428.5832), www.cultec.com, a plastic, concave open-bottom chamber 8.5-32.5" high with various lengths, non-stackable, 99% void, best suited for long area, shallow BMP depth.

StormChamber™, HydroLogic Solutions, 877.426.9128, 703.492.0686, www.hydrologicsolutions.com, info@hydrologicsolutions.com, a plastic, concave open-bottom chamber, 34" high, 60" wide, 102" long, HS-20, 99% void, best suited for long area, shallow depth.

StormTech Chambers, StormTech, Inc., Subsurface Stormwater Management, 888.892.2694, www.stormtech.com, a plastic, concave open-bottom chamber 34"x 75"x 16", non-stackable, 99% void, best suited for long area, shallow BMP depth.

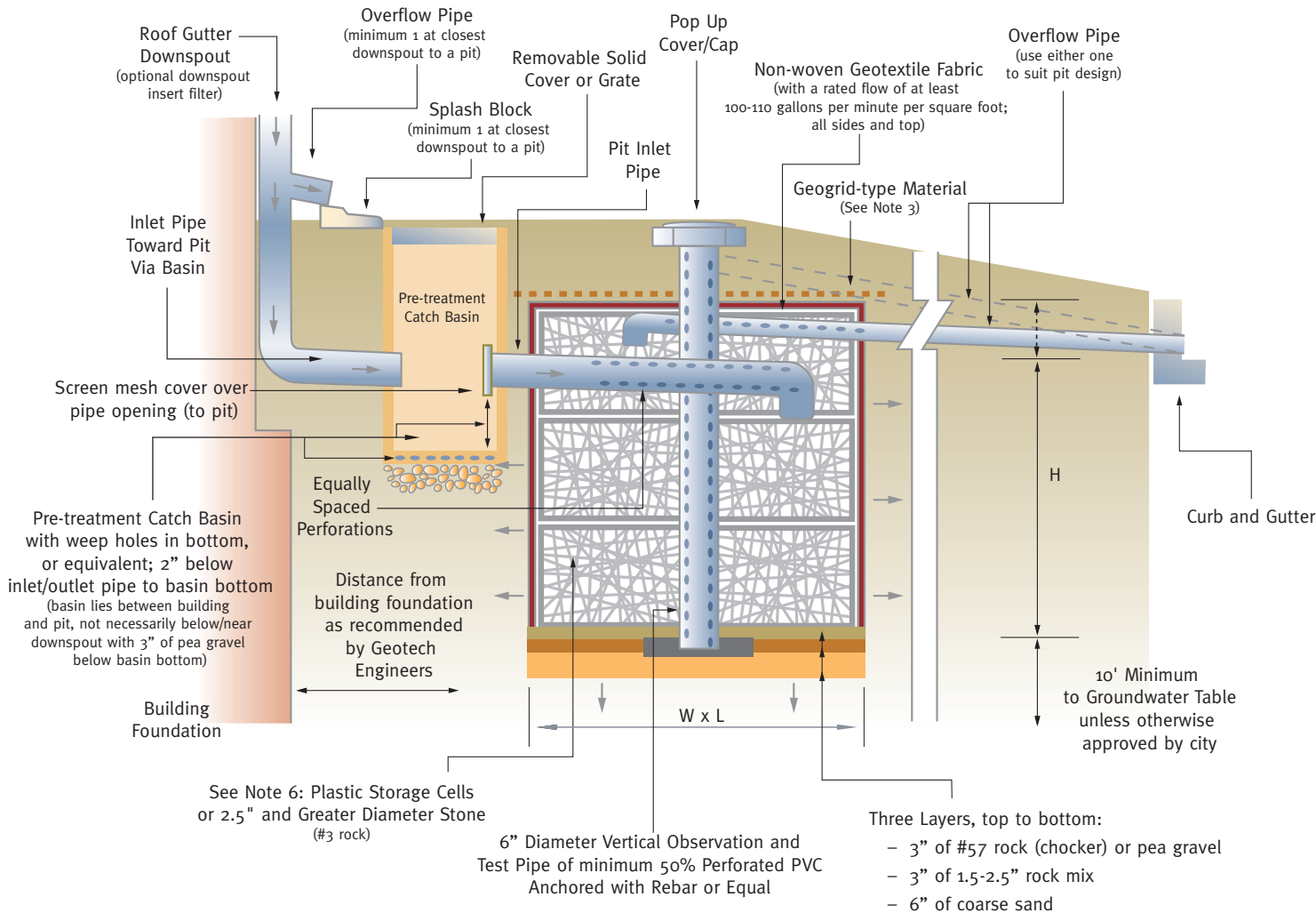
StormTrap™, StormTrap, 87.STORMTRAP, 877.867.6872, www.stormtrap.com, pre-cast concrete modular stormwater retention system to hold runoff underground, exceeds H-20 loading.

Triton, Triton Stormwater Solutions, 810.222.7652, www.tritonsws.com, plastic, concave open-bottom chamber in various lengths, non-stackable, H-20, 99% void, best suited for long area, shallow BMP depth.

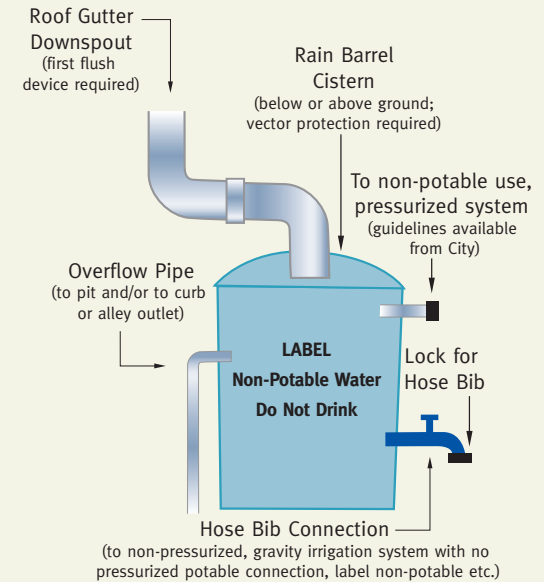
Infiltration Pit and Rain Barrel-Cistern Sample Details*

January 2010 revision

– Detail of optional rain barrel-cistern use system pictured on the right >



– Detail of rain barrel-cistern connected to downsput.



NOTES:

1. The storage pit capacity – See runoff worksheet (in cu. ft.).
2. Runoff including overflow from a BMP on a single-family parcel may discharge directly to the street over the sidewalk or to the alley; all other land uses need to convey runoff thru a curb drain directly to the street gutter.
3. Place Geogrid-type material on top of the geotextile fabric over the plastic storage cells. Provide a minimum one foot overlap on all sides. Backfill sides with pea gravel or equal. See list of infill devices on the other side of this sheet.
4. Roof gutters require a screen at the top of the downspout opening to trap debris.
5. Mitigation volume is increased by a factor of 2.5 for rock backfill of pit. Refer to Runoff Worksheet Summary.
6. Any and all BMPs shall be within the private property boundaries and not in the public right-of-way unless so permitted by the appropriate City official(s).

For a rainwater storage with pressurized irrigation system and with or without a municipal potable water make-up, additional backflow prevention (RP), cross-connection and pipe labeling are requirements. Check with the City's Office of Sustainability and the Environment for guidelines (t. 310.458.8972).

* DISCLAIMER: The City of Santa Monica does not prefer or require any one specific runoff mitigation device, i.e., BMP. This infiltration BMP is one of many BMP options from which to select. This one is the most popular runoff BMP for most projects, especially single and multi-family projects. However, numerous other BMPs exist on the market for your review and consideration. For design suggestion purposes; can be modified to meet site-specific needs.