



rescue[®]

environmentally
responsible products



Installation Guide

WaterStones[™]
Rainwater Collection System
40-gallon capacity

IMPORTANT – Read these safety warnings carefully before installation.

Please read through all instructions before beginning the installation of your new Rescue™ WaterStones™ rainwater collection system. Improper installation, usage and maintenance, may cause damage to your home/property or possible injury and/or death.

Emsco Group is not responsible for any damages or injuries caused as a result of or by improper installation.



CAUTION – WARNING – HAZARDS



DURING INSTALLATION AND SET UP

Installation Hazards – WaterStones™ are for water collection and outdoor use only. No other uses are recommended. Downspout edges may be sharp. Wear protective gloves when cutting and handling downspouts to avoid cuts or scratches. Always wear safety glasses when doing cutting or drilling to prevent eye injuries. Protect the home's siding with a sheet of wood inserted between the downspout and the siding to prevent damage.

Electrical Hazard – If downspout contains heating cables, there is a potential electrocution or fire hazard during installation, which may cause serious injury or death.

DURING USE

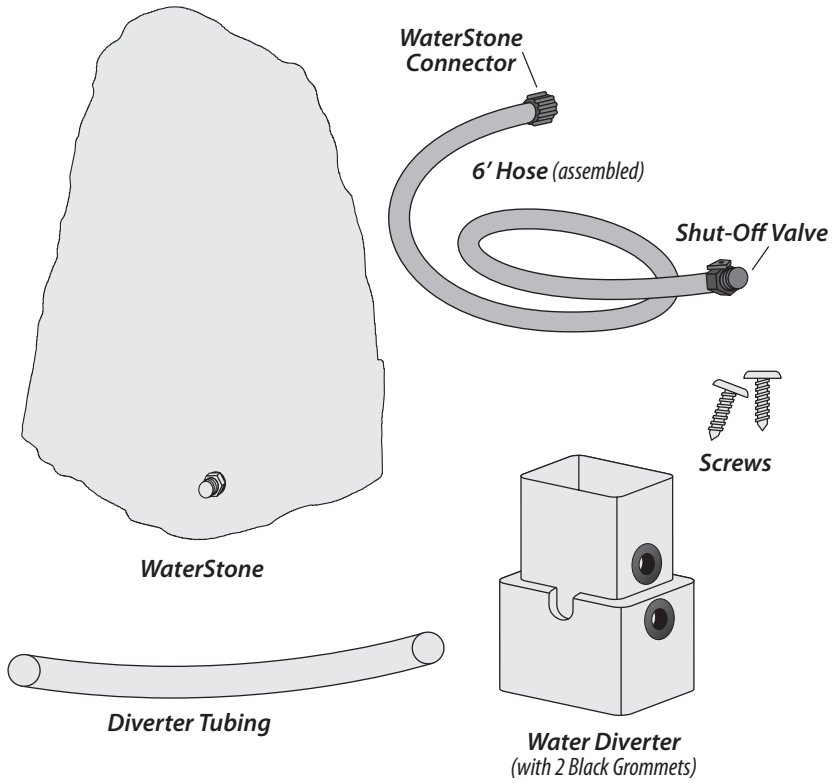
Injury Hazard – Children should NEVER be allowed to play on or near or to climb on the WaterStones™. NEVER position WaterStones™ near a deck, stairs, chair, or other structures or items that would allow a child to climb above or onto the WaterStones™.

Water Contamination Hazard – Drinking water from WaterStones™ may cause serious illness or death. DO NOT let people (or animals) drink water from WaterStones™. Water in WaterStones™ will become stagnant or contaminated. Use WaterStones™ water only for watering plants or outdoor cleaning uses. DO NOT use for cooking, washing or in any way that may result in ingestion of the water.

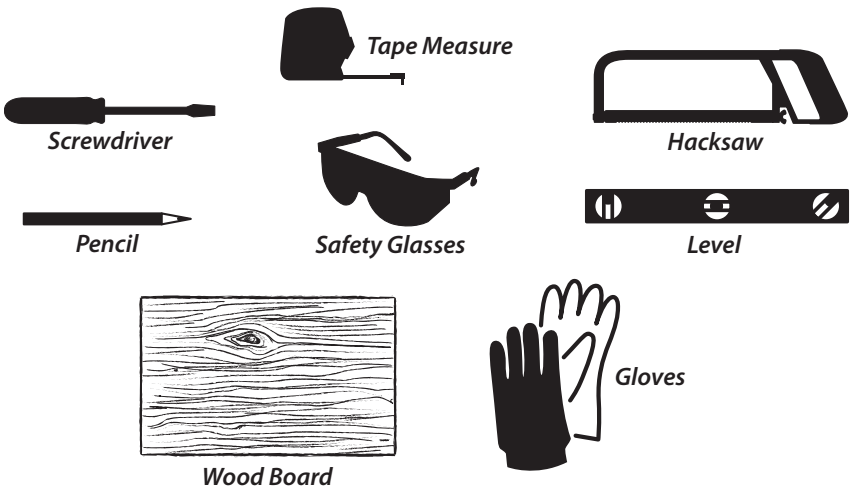
Tipping Hazard – If not properly set up, accidental tipping of your WaterStones™ may occur causing personal injury or property damage. Preparing the area where your WaterStones™ will be placed is important. It must be level and provide solid support. DO NOT place WaterStones™ on any surface that is not flat and even. Always use a solid surface under the WaterStones™.

As of 3/1/2009, the state of Colorado does not allow the use of rainwater collection systems. Check your local ordinances for restrictions in using any rainwater collection device.

PARTS INCLUDED



TOOLS AND SUPPLIES NEEDED

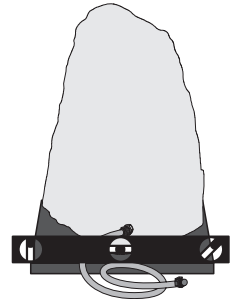


Positioning your WaterStones™

Position the WaterStone near the desired downspout making sure the water outlet is easily accessible. Although the diverter tubing is 36", for best performance the WaterStone should be positioned as close as possible to the downspout without bending or kinking the diverter tubing. **IMPORTANT** – When full, the WaterStone will weigh approximately 350 pounds. In order for the WaterStone to remain stable when in use and full of water, the ground **MUST** be level, flat and firm. Repositioning the WaterStone is difficult once it is full of water.

Stabilizing target area

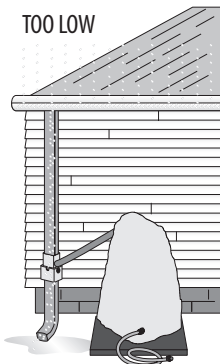
The base surface the WaterStone sits on must be solid, stable, flat and level (side to side as well as front to back) and capable of supporting a full stone of water weighing close to 350 pounds. We recommend using patio pavers, landscape blocks or a cement pad to provide a solid, stable and level surface. Once you have the WaterStone fixed into its installation position, re-check for stability. You should test your location and make sure the WaterStone will not fall over by filling it with your garden hose.



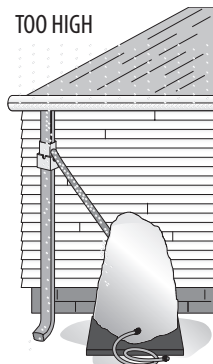
Once you have determined you have the WaterStone in the optimum location and that it's level, the height of the WaterStone cannot be changed. The position and height of the WaterStone must be final before installing the diverter tubing.

Locating position of diverter on downspout

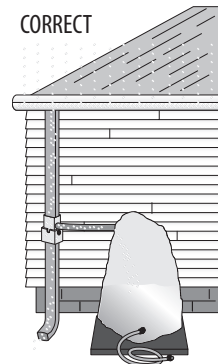
For proper operation, the water diverter must be installed on the downspout at the same level as the WaterStone tubing connector hole located at the top of the stone.



When the diverter is installed *too low* in relation to the WaterStone tubing connector, the stone will not fill with water.



When the diverter is installed *too high* in relation to the WaterStone tubing connector, the stone will overflow.



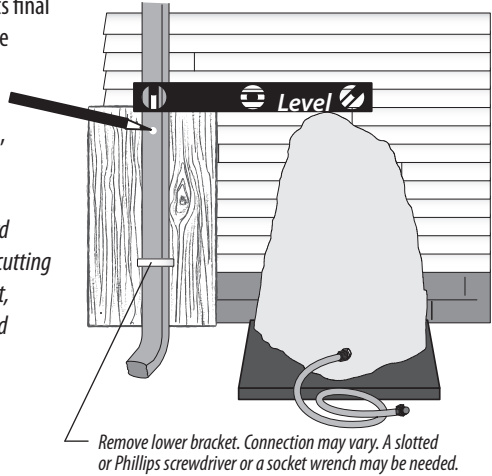
When the diverter is installed level in relation to the WaterStone tubing connector, the stone will fill and excess water will be directed back down your home's downspout.

Emsco Group cannot be held responsible for basement leakage, foundation leakage or any resulting damage caused by improper installation of this rainwater collection system and diverter kit.

Marking downspout for diverter installation

After insuring the WaterStone is level and in its final installation location, place a level on top of the highest point of the WaterStone and make a pencil mark on the downspout 2-1/2" below the bottom of the level. Using a tape measure, make a second mark 1" below the first one.

TIP: Place a scrap piece of plywood or cardboard between the house and the downspout before cutting to protect your home's siding. For the second cut, place the downspout and scrap wood on ground or work surface for easier cutting.



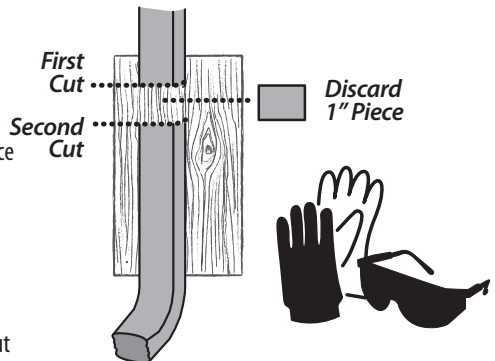
CAUTION: Always wear safety glasses when cutting or drilling to prevent eye injuries. Downspout edges may be sharp. Wear gloves to protect against cuts or scratches.

WARNING: If your downspouts and/or gutters contain heating cables, there is potential for electrocution or fire hazard during installation.

Cutting the downspout for diverter installation

Remove the downspout bracket below your installation marks to loosen the downspout from your house (keep bracket handy as you will be reinstalling later). This will provide some clearance between the downspout and house to allow for cutting downspout.

Using a hacksaw, cut the downspout at the first pencil mark you made. After the first cut is complete, remove the bottom piece of downspout from the house to make the second cut. Make your second cut on the second pencil mark and discard the 1" piece of downspout you cut out.

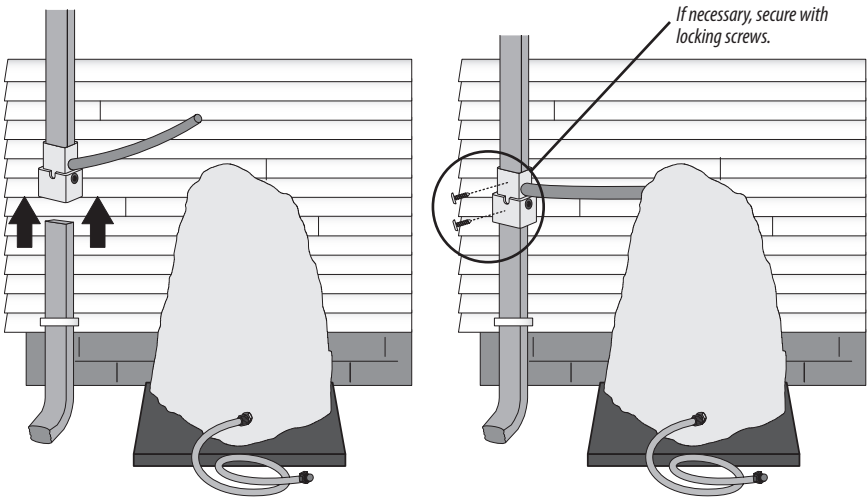


Attaching the water diverter and tubing to the downspout

The diverter is to be installed on standard 2"x3" downspout with the *narrow* end facing up — or — on oversized 3"x4" downspout with the *wide* end facing up. Be sure to install the diverter with the diverter tubing holes on the side of diverter facing the WaterStone. Once you have determined which downspout size you have and thus which end of the diverter faces upward (keeping the diverter tubing holes facing the WaterStone), push diverter tubing into the top hole on the diverter. Insert just the end of the tubing so it extends into the diverter no more than 1/4".

Next, slide the diverter UP onto the cut end of the downspout leading from the gutter above. You may need to flex the downspout slightly in order to get the diverter onto the downspout. Wear gloves to protect your hands from scratches or cuts. Push the diverter all the way onto the downspout until it stops.

Now, slide the lower portion of the downspout up into/onto the bottom portion of the water diverter. Using the enclosed locking screws, attach both the top and bottom section of downspout to diverter for a more secure connection. When the diverter is in place and both downspout sections are now connected to the diverter, you can reattach the lower downspout bracket you removed earlier to secure the downspout to your house. (See illustration below)



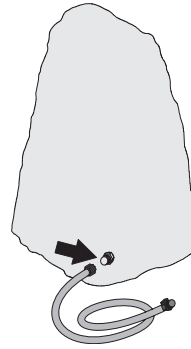
Attaching the downspout diverter tubing to the WaterStone™

The loose end of the tubing coming from the diverter should be pulled gently towards the WaterStone and inserted into the pre-drilled hole at the top of the WaterStone. Gently push the tubing through the hole in the WaterStone until it is level and straight between the diverter and the WaterStone. Adjust the WaterStone and tubing so there is no excess slack, kinks or bends.

When the diverter is installed at the same level in relation to the WaterStone connector tubing, it will fill the WaterStone until full and allow excess water to bypass the diverter and flow down your downspout. Now is a good time to test your installation by spraying water from your garden hose onto your roof and observe water running into your WaterStone.

Attaching the garden hose to the WaterStone™ system

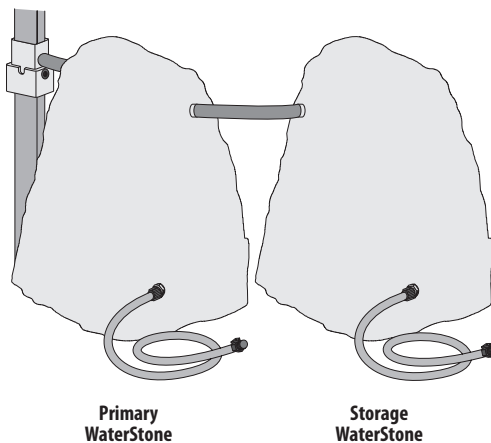
Your WaterStone system includes a 6-foot length of garden hose with a shut-off valve at one end and a connection at the other end. Before installing the hose, make sure the shut-off valve is in the closed position so the water does not leak from the WaterStone until you are ready to use it. Thread the connector end onto the threaded outlet at the bottom of the WaterStone. The hose may be wrapped around the WaterStone until ready to use.



Maximizing rainwater collection

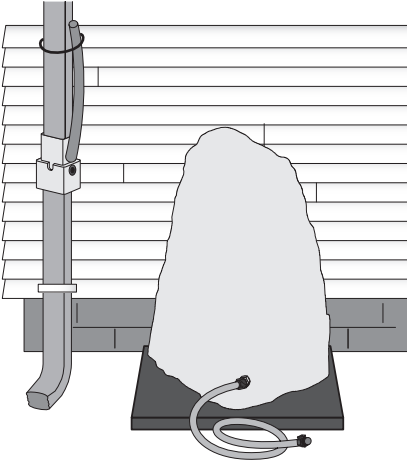
Two rescue® WaterStones can be linked to gather the maximum amount of rainwater. To link a storage WaterStone, drill a hole in the primary WaterStone 2-1/2" down from the downspout connection tubing entrance and on the opposite side of the WaterStone. Drill a hole into the second, storage WaterStone directly level with the hole you just drilled in the first WaterStone and facing the first WaterStone. It is important that these holes be level with each other to allow the water to flow in either direction. Place grommets in each of the two holes and connect with tubing, avoiding any bends, curves or kinks. The predrilled diverter-tubing entrance hole in the storage unit will need to be plugged to prevent insects and debris from entering the WaterStone.

The storage WaterStone's capacity will be reduced somewhat due to the connecting tubing being at a lower level than the diverter tubing. While collecting rainwater, make sure the shut-off valves on the hoses are turned to the off position. The hose may be wrapped around the WaterStone until ready to use. For best efficiency, use the rainwater from the WaterStone that is filled the most.



Preparing the WaterStone for winter

To protect your WaterStone system from damage in climates where the temperatures drop below freezing in winter, it will need to be emptied and disconnected. Gently pull the tubing out of the WaterStone opening. Use a string, wire tie or zip tie to secure the tubing to the downspout above the diverter with the loose end facing upward. Water from winter rain or melting snow will now flow in an uninterrupted path from the gutter and through the entire length of the downspout. Now, you can open the shut-off at the end of the hose and drain the water. Store the emptied WaterStone either inside or outdoors until spring.



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