SIGMA WATERWORKS

INSTALLATION GUIDE
HDPE Meter Boxes



GENERAL INSTALLATION

STEP 1 |Embedment Material

DO NOT USE ROCKS OR FROZEN CLODS GREATER THAN 1 ½" IN BACK FILL OR IN CONTACT WITH THE BOX. The same bedding as would be used fo SDR 35 flexible walled pipe. Class I, II, III & IV – Native to angular aggregates 1 ½" in diameter or less. (¾" minus). Introduce initial backfill in one-foot increments lightly tamping each level with native or imported backfill containing aggregates 1 ½" or less in diameter. DO NOT USE PEA GRAVEL OR ROUND RIVER ROCK.

STEP 2 |Box Installation

Backfill can be done by replacing excavated soil or importing one-foot lifts.
If compaction devices are employed around the box, place a 2x6 wood support across the short side in the base of the box.

STEP 3 | Parking Lot/Driveway Installation

Parking Lot/Driveway Installation:
Place metal lids upside down in boxes before pouring cement. If compaction devic es are employed around the box, place a 2x6 wood support in the base of the box

STEP 4 |NOT RECOMMENDED

Installation in flowing and saturated sand, silt and mud without cohesion, **NOT RECOMMENDED**

STEP 5 |After Installation

Especially where wet soil surrounds boxes, do not allow drive by equipment near boxes, as this will create excessive side loads that may realign the box and loosen the grade.

STEP 6 |Re-Shipping

When reshipping boxes from the distributor yard, wood staves must be placed into the lid area of the top boxes before shipping to ensure no side inward bowing

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STACKING BOXES & USING EXTENSIONS

STEP 1 |Measure the Required Height

Measure base of hole to ground level at each end. Cut extension to correct height noting the lid area is 1.75" deep.

STEP 2 |Stack Boxes

Stack boxes to a greater height than the measurement, then cut off the base of the riser box to the correct height or angle.

STEP 3 |Screw Usage

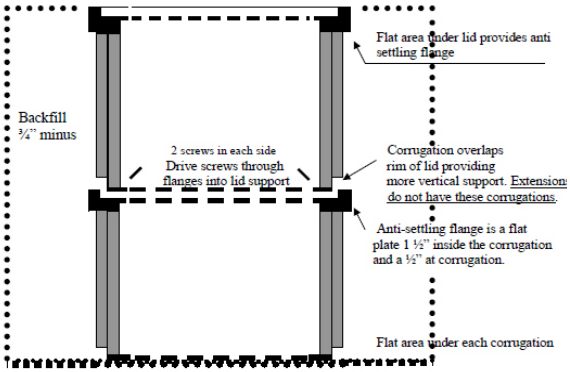
Use two screws on each side as depicted when stacking boxes. This provides much greater strength against side loads, and it is easier to set grade when boxes are in the ground, they won't pull apart, allowing dirt into the lid area. Use two screws on each side for the 11-18 and 13-24 extensions and three screws on each side of the 15-27 and 17-30 extensions.

STEP 4 |Placing Box

Place boxes in the meter pit and backfill. **DO NOT PLACE LARGE ROCKS (1 ½") IN BACKFILL OR NEXT TO BOX.**

NOTES

*** DO NOT ALLOW DRIVE-BY** equipment around boxes until the soil has dried.
*** Self-tapping screws are also recommended when stacking regular boxes.**



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