

## PRODUCT COMPONENTS

Duct Spacer - One Individual Piece

**SPECIAL NOTE:** Cal Am Manufacturing is NOT responsible for UniSpacer® Duct Spacers used in direct burial applications. Your design engineers and contractors are responsible for the design and performance of the installation. The size and quantity of Cal Am UniSpacer Duct Spacers will be determined based on the sizes and number of ducts, and the required spacing between ducts as specified by your engineering entity.

### Product Overview

The Cal Am UniSpacer is a universal, omni-compatible duct spacer designed for underground PVC and HDPE duct bank installations. Featuring horizontal slide interlocks and vertical press-fit connections, the UniSpacer enables quick assembly, compatibility across any conduit size, and a rigid, secure duct bank layout.

### Safety Precautions

- Always follow OSHA trench safety and local utility construction codes.
- Wear appropriate PPE: gloves, safety glasses, hard hat, and steel-toe boots.
- Ensure trench is properly shored or sloped before entry.

### Tools & Materials Required

- Cal Am UniSpacer units (as required by duct bank configuration)
- Conduit (PVC, HDPE, or equivalent)
- Measuring tape or conduit spacer layout plan

# INSTALLATION INSTRUCTIONS

## 1 Layout Preparation

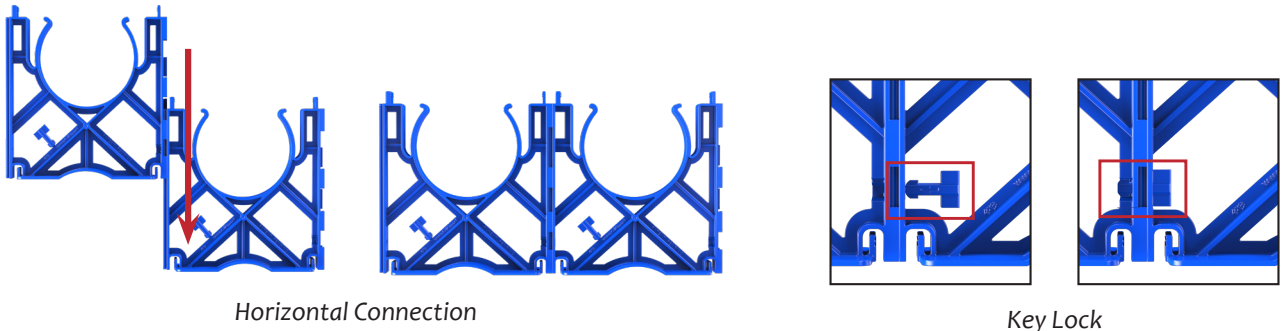
- Excavate trench per project design.
- Prepare trench bottom with required bedding (sand or native soil as specified).
- Mark conduit layout spacing per engineering drawings.

## 2 Ground Level Spacer Placement

- Position the first row of UniSpacer units on the trench floor.
- Ensure spacers are aligned to the required horizontal and vertical conduit spacing.
- Place spacers at appropriate intervals determined by engineer. Five (5) to eight (8) feet is common spacing for many standard underground electrical PVC duct banks.

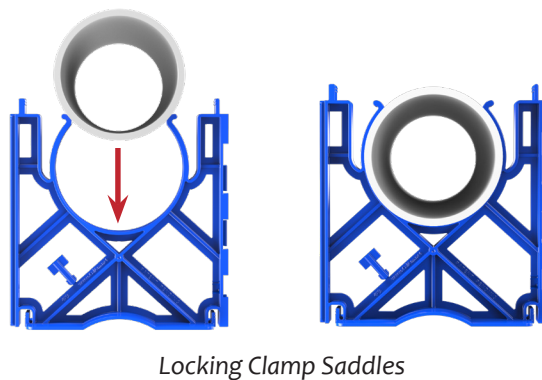
## 3 Horizontal Assembly

- Align the slide interlock feature on the UniSpacer with the adjacent spacer.
- Slide vertically until the bases of the spacers align
- Repeat for all ground-level spacers until the desired row width is achieved.
- Lock ground level slide interlocks in place by applying key to key hole for all units.



## 4 Conduit Installation

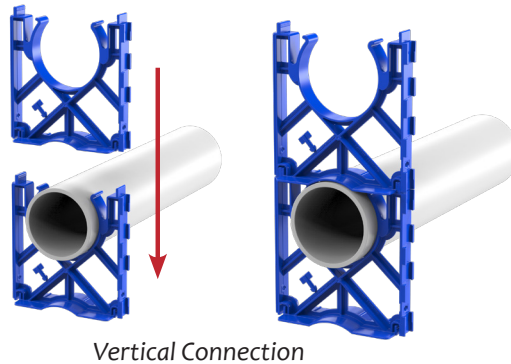
- Place conduit into Locking Clamp Saddles. Press downward until conduits seat securely.



## 5 Vertical Assembly

- To stack additional rows, align the vertical press-fit tabs on top of each UniSpacer with the receiving slots of the spacer above.
- Press downward until units seat securely.
- Repeat conduit installation and vertical assembly steps to create additional duct bank rows.

NOTE: Only same-size UniSpacers attach vertically.



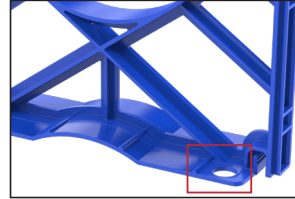
## 6 Securing & Encasing

- Verify alignment of entire duct bank assembly.
- Rebar or stakes can be used to stabilize the bases prior to installing or at the same time as laying conduit.
- Apply zip ties or tie wire using the slots at the top of each spacer for extra security if needed.
- Complete duct bank encasement with approved backfill or concrete slurry per project specifications.

NOTE: One FREE bag of blue zip ties are included in every case.



Rebar Holes



## 7 Inspection & Quality Check

- Verify that all horizontal slide interlocks are fully engaged.
- Confirm all vertical press-fit connections are seated securely.
- Check conduit alignment before encasement.
- Ensure no spacers are displaced during pour or backfill.

## Key Notes

- **Omni-Compatible:** UniSpacer interlocks with itself and accommodates any conduit size horizontally and same sizes vertically.
- **Durability:** Designed for high compressive strength and long-term stability.
- **Flexibility:** Suitable for straight runs, sweeps, and multi-tier duct banks.



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