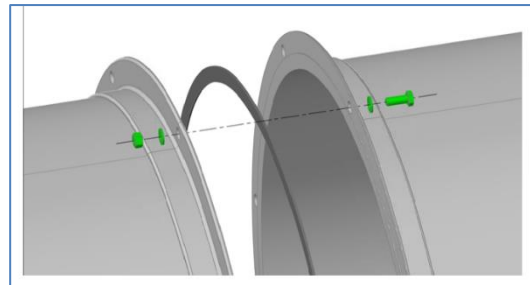
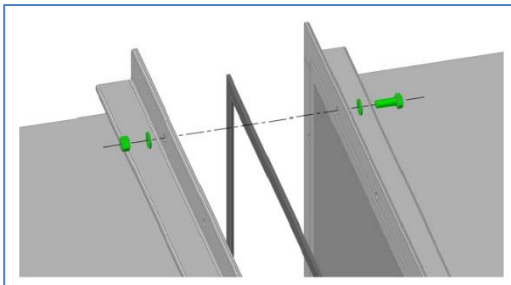


## DuraDuct UCR

### Installation Instructions

#### 1) LIST OF COMPONENTS

- DuraDuct UCR flanged duct sections:
  - Furnished in sections up to 118" (2950mm) lengths.
  - Stainless steel construction, eliminating potential surface abrasion issues that may occur during installation.
  - Pre-punched flange bolt holes.
- Stainless steel nuts and bolts, 5/16" (8mm) x 1" (25mm) long on maximum 8" (200mm) centers.
- Butyl gasket tape, 5/8" (16mm) wide, 1/8" (3mm) thick (**not included**) to be supplied and installed by the installing contractor.
  - Tremco 440 Tape or equivalent



#### 2) PRE-INSTALLATION NOTES

- DuraDuct UCR is designed to be buried above the design flood elevation (water table).
- If DuraDuct UCR is to be located below the design flood elevation, the design engineer must determine the hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding to the design flood elevation.
- Re-confirm burial details with approved submittal drawings prior to installation.

### 3) TRENCH PREPARATION

- Trenches must be pitched to prevent the buildup of water around the ductwork.
- Recommended pitch is 1/8" per foot (10mm per meter) or approximately 1" every 8 feet.
- Fill trench with a loose layer of minimum 4" (100mm) pea gravel or porous fill.
- Pea gravel or porous fill should not contain stones larger than 1/2" (12.5mm) diameter.
- A vapor barrier between the fill and the ductwork may be used, if desired.

### 4) DURADUCT UCR INSTALLATION

- Note that DuraDuct UCR should have a minimum slope of 1/8" per foot (10mm per meter) to allow for proper drainage.
- Place DuraDuct UCR onto the initial 4" layer of pea gravel (see trench detail drawing).
- Apply butyl gasket tape along the inside face of flange (see flange detail drawing).
  - Gasket tape should be fastened along the inside corner of the flange, i.e. inside of the bolt holes.
  - Ensure there are no gaps along the gasket tape so that it will completely seal the flange-to-flange connection.
- Bolt flanges together using stainless steel bolts provided.
- Note that a clean-out connection in the ductwork may be required, as per local design codes (see drain detail drawing).

### 5) BACKFILLING

- Leak-test the system prior to backfilling to ensure that duct system is free of leakage.
- Carefully pour pea gravel fill in successive layers around the ductwork.
- During the pouring process, ensure that ductwork seats firmly into place on the pea gravel fill.
- Do not simply drop backfill directly on the ductwork as this may cause surface scratches.
- Once poured, spread the pea gravel fill evenly and tamp it down firmly around the ductwork.
- Care should be taken to not push heavy loads directly on the duct, nor should heavy equipment be allowed to run over the duct during installation.
- Once backfill is complete, a concrete slab can be poured in place, as required.