
Special Specification 4192

PVC Deck Drains



1. DESCRIPTION

Furnish and install PVC Deck Drains for bridge structures in accordance with details shown on the plans and the requirements of this Specification.

2. MATERIALS

Furnish PVC pipe meeting the requirements of ASTM D1785, Schedule 40, and furnish PVC fittings meeting the requirements of ASTM D2466. PVC pipe and fittings meeting the requirements of ASTM D3034, Type SDR 35 may be used for installations encased in concrete.

Furnish a manufacturer's certification stating the material meets the appropriate ASTM specification.

Furnish pipe marked with:

- manufacturer's name or trademark and code;
- nominal size;
- PVC cell classification (example: 12454-B);
- schedule, size, or other legend (example: SDR-35 PVC Sewer Pipe); and
- specification designation (example: ASTM D1785).

Furnish fittings marked with:

- manufacturer's name or trademark;
- nominal size;
- material designation (example: PVC);
- schedule, size, or other legend (example: Schedule 40); and
- specification designation (example: ASTM D3034).

Furnish solvent meeting the requirements of ASTM D 2564 for solvent-welding of fittings.

3. CONSTRUCTION

Construct deck drains on the bridge deck as shown on the plans. Identify existing rebar, core the holes and take care to avoid existing rebar to accommodate PVC pipe. Utilize PVC pipe and fittings and attach to bridge deck using an epoxy compatible with concrete and PVC. Solvent-weld all fittings, including splice fittings, to provide a watertight fit.

Degrease all exposed PVC pipe and fittings and apply an acrylic water-based primer followed by a coating of the same color used for adjacent concrete surface unless otherwise shown on the plans.

4. MEASUREMENT

Work and accepted materials of "PVC Deck Drains" will be measured by each deck drain installed.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "PVC Deck Drain". This price is full compensation for core holes, furnishing and placing materials and for labor, tools, equipment and incidentals.