



ELECTRICAL PRECAST DUCT BANK

FAQ'S



GROUNDING IN STRENGTH

Forterra Precast Duct Bank Questions and Answers

1. How much cheaper is the Precast Duct Bank system vs a buried encased in concrete system?

Answer: Each project should be evaluated based upon the duct bank configuration required, site conditions, and the time available to complete the installation. There are many variables, but here are a few points to consider:

- A precast duct bank system will require fewer labors and less time to install.
- Installation is not delayed or hampered by cold winter conditions.
- Concrete formwork is not required.
- After installation, trenches may be backfilled permitting traffic flow or access to construction areas. Consider the value of having the trench closed and the work completed faster.
- No or less reliance on ready mix concrete delivery to the project site.
- Improved safety conditions, less time in the trench reduces employee exposure.
- Precast duct bank is ideal for road crossings, areas that require high labor content or impact or restrict other work from proceeding. Excellent for deep burials or when conduit must be installed on a slope.
- Improved quality of the installed system. Conduits are properly positioned and joints closed.

2. What is your lead time for this material?

Answer: Lead times are project specific based on mold availability and project size. Contact your Forterra representative for availability.

3. What equipment and how many people do I need to install this system. How fast can it be installed?

Answer: The time to install the precast duct bank varies dependent upon the product configuration, site conditions and contractor preparedness. Assuming that:

- The site and trench is well prepared.
- Product is properly staged ready for installation.
- Appropriate equipment is available for installation (back hoe or crane).
- Three person crew with one equipment operator is available.
- The contractor is installing product according to Forterra's installation instructions.
- Standard length straight sections are being installed.

Approximate installation rates:

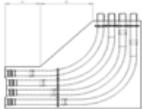
Piece rate: 1 piece installed in less than 10 minutes.

Laying rate: 600-700 feet per shift.

4. Can horizontal bends be provided?

Answer: Yes, the product is available with various duct configurations as 22.5, 45 and 90-degree horizontal bends. Custom product can also be provided but must be evaluated on case by case basis.

5. Can a vertical change in duct direction be made with the precast duct bank? Are stub ups available?



Answer: Yes. We produce standard or custom vertical riser sections (stub ups) that include cast in preformed galvanized steel or RTFC (Fiberglass) conduits. Typical bend radius is 36 inches but larger radii can be furnished.

6. What trench preparation is required?

Answer: Precast Duct Banks are installed on firm bedding in accordance with project specifications. It is important for ease of installation that the trench bottom be flat. This may be achieved with native soils if they provide a stable gradable bottom.

7. Is the product UL rated?

Answer: Yes, components making up the precast Duct Bank system are UL rated.

8. How are conduit joints sealed? Are they watertight?

Answer: Yes, if the project requires water tight joints, the joint system will consist of an integral gasketed bell which seals against the spigot. Joint solvents or epoxies are not required.

9. How are heavy live and dead loads accommodated? Is the product rated for traffic loads?

Answer: Each precast duct bank section has an integrated shear key for protection against shear forces imposed via live or dead loads and/or differential settlement. The product is designed to accommodate HS20, HL93 loading conditions without reinforcement. Test reports are available on request.

10. Does Forterra have resistivity/Rho data?

Answer: Testing has been performed on our precast duct banks with Rho range established as 36.2 to 57.7 (C cm/W).

11. What types of conduit is available?

Answer: PVC in standard straight sections, RTFC (Fiberglass) and Galvanized Rigid Steel in bends, vertical risers, stub ups as required by project specifications.

12. What sizes and configurations does the precast duct bank come in?

Answer: Conduit sizes come in various diameters with 4" and 6" being standard. Multiple configurations of conduit are available within precast duct banks. Custom configurations are available. Contact your Forterra representative for details.

