

RED•E•DUCT[®]

Precast Duct Bank System



DUCT BANKS IN RECORD TIME

RED-E-DUCT Precast Duct Bank System optimizes schedule, cost, and quality of underground infrastructure during design and construction.



EFFICIENCY ENGINEERED[™]

CONTECH
ENGINEERED SOLUTIONS
A QUIKRETE[®] COMPANY

Built for speed

RED-E-DUCT saves time and allows project teams to commence above-ground construction faster. Here's how RED-E-DUCT revolutionizes the duct bank installation process, requiring less labor and time, reducing overall costs, and putting construction ahead of schedule.

Immediate Backfill

Trenched areas can be backfilled immediately after installation, with no waiting for concrete pouring, curing, or testing. Rapid backfill means faster resolution of site access issues and traffic disruptions, along with less chance of rework later due to open-trench rain or weather events.

Minimal Concrete Work

In straight RED-E-DUCT runs, there is no need for concrete formwork, pouring, curing, or testing.

Minimizes Form Work - Reduces Labor

Where a change to vertical direction is required, the use of RED-E-DUCT stub-ups reduces the complexity of concrete and steel formwork.

Faster Installation

RED-E-DUCT arrives at the job site ready for installation. With proper construction planning and lifting equipment, a standard crew can complete up to 14,000 conduit-feet per 8-hour shift. Trench excavation, installation, and backfill operations can be performed concurrently. Access to high-traffic areas can be restored in as little as one day.

Less Time in the Trench

RED-E-DUCT dramatically cuts the time workers are in the trench, as well as the time that open trenches are exposed at the job site.

Enhanced Worker Safety

RED-E-DUCT lessens the potential for work-related injuries by eliminating cast-in-place (CIP) construction in the field and limiting time in the trench. It also eliminates hazardous exposure to solvents and epoxies normally required for connecting PVC conduit (especially important in deep-trench areas where respirators are required).



Rated for the job

RED-E-DUCT components are encased in our proprietary, high compressive strength, fluidized thermal concrete, and manufactured under controlled conditions at a Contech certified manufacturing facility.



High strength thermal efficient concrete mix



Patented shear key & joint system

Quality Assured

RED-E-DUCT products offer superior, consistent, verified thermal resistivity and can be produced with Rho values in ranges less than 60 CM/W. This results in improved heat dissipation which improves the performance of underground cables.

Heavy Load Performance

RED-E-DUCT products are engineered to withstand the heavy loads imposed by truck, crane, and roadway traffic, and meet, at a minimum, HS20 and HL93 load performance requirements without requiring supplemental reinforcement. This makes RED-E-DUCT ideal for applications involving significant live and dead loading conditions.

Patented, Integrated Shear Key

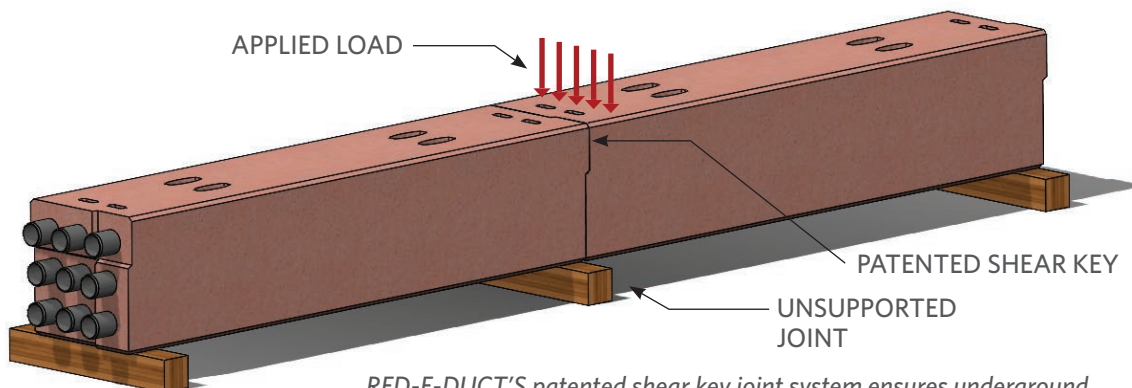
A patented, unique, integrated shear key feature ensures that joined RED-E-DUCT sections will withstand shear forces at each joint location. The unique shear key design permits proper joint deflection to accommodate poor soil beds or future settlement issues.

Proprietary Joint System

The patented joint system utilized by RED-E-DUCT offers the right solutions for both watertight and non-watertight applications, without the need for epoxies, solvents, or glues.

For watertight applications – an integrated gasket within the conduit bell housing seals against the spigot, providing reliable, permanent watertight protection.

For non-watertight applications – a separate bell/spigot slip joint is used where watertight joints are not required.



RED-E-DUCT'S patented shear key joint system ensures underground cables are protected from shear and load forces.

Tested for quality

RED-E-DUCT is the result of over 15 years of product design and development. Our production and quality assurance standards ensure RED-E-DUCT products will meet and exceed project specifications and test requirements. On-site concrete batch delivery and testing is not required for RED-E-DUCT.

Superior Thermal Resistivity

All RED-E-DUCT products are manufactured by a Contech production facility that is certified by one or more of the following agencies:

- American Concrete Pipe Association (ACPA)
- National Precast Concrete Association (NPCA)
- Precast/Prestressed Concrete Institute (PCI)



Strength Testing

RED-E-DUCT performs on par with reinforced concrete, without the need for steel reinforcement. Finished RED-E-DUCT components are subjected to shear and flexural testing procedures at the factory to ensure load bearing performance to HS20 and HL93 standards, at a minimum.

Watertight Joint Testing

Joint testing of RED-E-DUCT components has been confirmed using NEMA-TC-2 Section 5.4 testing of the gasket joint, demonstrating no-leak performance, along with compliance to NEMA watertight requirements.

Thermal Resistivity Testing

Concrete thermal resistivity verification is performed in-house or by independent 3rd party testing. Thermal dryout curves are available, and testing can be tailored to exact project requirements.

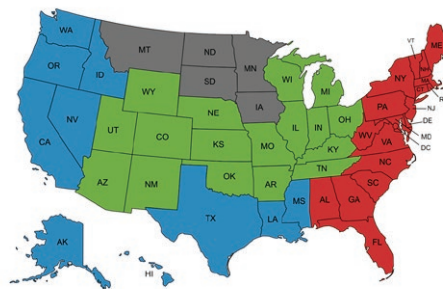


RED•E•DUCT®

Find out how RED-E-DUCT can improve your next project.

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U.S. Patent 8689502, 10876661, 11658469. Other patents pending.

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