**What is Slide Rail?**

Efficiency’s Universal Slide Rail is a component shoring system comprised of steel panels (similar to trench shield sidewalls) and vertical steel posts. Installing lighter component pieces rather than larger assembled trench shields allows a contractor to use smaller, more common-sized excavators and heavy equipment.

It is commonly used as a cost-effective alternative to traditional driven close-sheeting. The cost of rental and installation of the system is approximately 50 percent of steel sheeting.

The versatile system can be used in a variety of configurations, such as small four-sided pits; large unobstructed working pits as big as 50 x 50 feet with Efficiency’s ClearSpan™ System; or in a linear Multi-Bay™ configuration to install length of pipe over 40 feet.

**How is Slide Rail used?**

Slide Rail is installed simultaneously as the trench or pit is excavated by sliding the panels into integrated rails on the posts—an outside slotted rail first, then an open-face rail on the inside—then pushing the panels and posts incrementally down to grade as the pit is dug; a process commonly referred to as a “dig and push” system.

Efficiency Production is the only Slide Rail manufacturer to offer an open-face rail design on their Slide Rail posts.

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**Standard 4-Sided Pit**

Slide Rail in a 4-sided pit configuration can be installed in just two-and-a-half hours in ideal conditions.

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**ClearSpan™ System**

The Efficiency ClearSpan™ System incorporates special walers for larger unobstructed four-sided working pits for site specific jobs.

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**4-Sided or Linear Multi-Bay™**

Longer pipe and larger tanks or structures can be installed by raising or removing the parallel beam spreader assembly.

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**Shore-Trak™ Sheeting Guide Frame**

The industry’s only pre-fabricated, pre-engineered cross-trench utility shielding system, Efficiency’s innovative Shore-Track Sheeting Guide Frame allows contractors to shore tightly around existing utilities.
4-Sided Pit

Dig & Push System reduces weight, time, and cost

Zito Construction - Grand Blanc, Michigan

Reaching a final grade of 32 ft. is easy with triple-rail posts in the 16 x 20 foot deep 4-sided Slide Rail configuration.

Joel Kennedy Construction - Waukegan, Illinois

The 32 foot deep bore shaft is shielded with 4-sided Slide Rail to tunnel under Chicago’s Dan Ryan Expressway.

Conestoga-Rovers & Assoc. - Canandalgua, New York

Slide Rail is versatile enough to be installed on a slope by simply adding another panel on the high side, and leaving out a panel on the low side.

“I hadn’t used Slide Rail before, but with the prospect of using it again, we can bid on more pump station or lift station jobs. Slide Rail potentially opens up another avenue for our business.” - Joe Raica, Joe Raica Excavating, Fowlerville MI

“I like the (Slide Rail) System a lot, especially the open-face rail design. After installing 12 feet in the outside rail, it gets tight; but then moving to the open-face inside rail, it’s like starting all over again. There is a lot more flexibility.” - Larry Leach, Conestoga-Rovers & Associates, Canandalgua NY
ClearSpan™

Unobstructed 4-sided working pit for site-specific jobs

Tri-City Groundbreakers - Midland, Michigan

A ClearSpan™ System is the perfect solution to install a behemoth pour-in-place lift station. The Slide Rail System is 38 x 50 feet wide, and 32 feet deep!

Weihe Construction - Noblesville, Indiana

Efficiency Engineers designed this modified ClearSpan™ Slide Rail System 41 x 56 feet, with sheeting tucked behind the internal walers on one end to reach 40 foot deep.

Johnston Contracting - Midland, Michigan

The working pit dimensions of this ClearSpan™ System needed to be over 60 feet long, 35 feet wide, and 30 feet deep to accommodate a massive lift station large enough to hold more than 100,000 gallons of storm water.

Johnston Contracting - Midland, Michigan

There was a lot of concern about damaging the buildings. One of the main reasons I got the job was because I proposed Efficiency’s Slide Rail System in the bid. We were not the low bidder but we were chosen because the system would not damage the buildings.” - Derek Marranca, Jobsite Services, Inc., Bay City MI

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The ClearSpan™ waler beams have been critical, in that they move up and down, which makes it easy to extract when we start to pull the system out as we backfill.” - Mike Matlock, Weihe Construction, Noblesville IN

Weihe Construction - Noblesville, Indiana

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Efficiency’s Slide Rail provides a safe, shored excavation in the very tightest of spots such as between buildings, alongside busy roads and highway, and adjacent to railroad tracks.

A 20 x 50 foot 4-sided, three-bay Multi-Bay™ System is perfect to pour-in-place a concrete structure between two buildings.

This innovative contractor used an existing concrete wall as the fourth side of a three-bay Multi-Bay™ System to safely install a poured-in-place CSO valve basin vault.

"At a certain depth, trench boxes can become unsafe for our personnel. So we went with the best shoring system available, which is Efficiency Production’s Slide Rail System." - Steve Betsko, McDaniel’s Construction Corp., Columbus OH

“We definitely liked the Slide Rail System and it worked great. If we had used any other shoring that required digging outside the system, we could have potentially undermined the integrity of adjacent building.” - Jack Liddy, GM Mechanical Inc., Covington OH
The Linear Multi-Bay™ System allows the contractor to lay 44 foot of pipe at the front of the system, while simultaneously backfilling and removing the system in the back; then ‘leapfrogging’ the Slide Rail System.

W.W. Clyde & Company - Springville, Utah

Slide Rail is not always for deep excavations, but can also be used to shore non-utility work like a long run of bridge piers.

JPC Group Inc. - Philadelphia, Pennsylvania

This Slide Rail shored trench was shallow, only 14 feet deep, but just a foot-and-a-half from the foundation of an adjacent structure!

Goodfellow Construction - Corunna, Ontario Canada

“Efficiency’s (Slide Rail) system is very well built—overbuilt really—and everyone is always very safe laying pipe. It’s a total shoring system.” - Allan Schieb, W.W. Clyde & Co., Springville UT

“We were competing for the job against one other contractor who came in with no other shoring options other than open-cut, so I think the Slide Rail option helped us land the job.” - Randy McKenney, Goodfellow Construction, Corunna ON, Canada
Unobstructed pits for bores, tanks and structures

Efficiency’s 4-Sided Multi-Bay™ with external walers is becoming a preferred shoring system for jack & bore and microtunneling operations.

The external walers are secured into integrated brackets that slide down the outside face of the linear posts.

Three of the five Parallel Beam-Spreader Assemblies are removed resulting in an unobstructed pit large enough to accommodate a 64 foot long tank.

Huxted Tunneling - Palmetto, Florida

Tonn & Blank Construction - Michigan City, Indiana

Tidelands Construction - Brentwood, California

“T"he Slide Rail went in very fast, faster and easier than sheet piling in my opinion. I’ve suggested to other excavation contractors that they might want to consider Slide Rail instead of sheet piling if they’re bidding on a project that requires microtunneling.” - Steve Pollack, Huxted Tunneling, Palmetto FL

“As we were taking the Slide Rail out of the ground, I thought to myself that I can use this (system) on another excavation project coming up in a few months. In fact, I wish I knew about this earlier, because it would have worked great on some other utility projects that we’d already completed.” - Stan Burnside, Tonn & Blank Construction, Michigan City IN
“**The Shore-Trak™ Sheeting Guide Frame was just a great system, and really worked better than what I expected. Now that the state’s DOT has approved this system as ‘active shoring,’ I expect that we will be able to successfully bid on future DOT let jobs in the state.”** – Roger Kimrey, B.R.S. Contracting, Richfield NC

“**This was the first time I’ve seen an Efficiency Slide Rail go in the ground, and I was very impressed with the system. I really liked the Shore-Trak™ Sheeting Guide Frame, because we could put in the stab-sheeting around the culverts, and still be integrated with the rest of the system.”** – Clint Martinez, Wolverine Engineers & Surveyors, Mason MI

Shore-Trak™ Sheeting Guide Frames integrate seamlessly into any configuration of Slide Rail, including a large ClearSpan™ System.

Efficiency’s Shore-Trak™ Sheeting Guide Frames are used to stand up KD-6 sheeting to shore closely around a service tunnel as part of an excavation project at the historic Soo Locks in Sault Ste. Marie, Michigan.

The contractor cut a storm culvert which was deteriorating to pour-in-place a bypass vault for a new sewer line. The Guide Frame allows the contractor to place the sheeting tightly around the corrugated culvert.
A Shore-Trak™ Panel Guide set in the inside rail of 35 foot tall triple rail posts, allows 24 foot lengths of KD-6 sheeting to be installed deeper in the excavation.

"I'd say we saved about 10 to 20 percent by using Slide Rail instead of sheeting; and we can keep our own guys working, rather than hiring a sheet piling company or driving sheet piling ourselves," - Todd Bell, Woodruff & Sons Contractors, Michigan City IN

With Efficiency's Slide Rail, we could excavate to the exact dimensions of the system without any over cutting. This was a huge cost savings both in time and money. Slide Rail was a real problem solver, both economically and physically." - Brad Shultz, Evans Construction, Jackson WY

Shore-Trak™ Panel Guides on a 4-sided system allows the contractor to install stab sheeting tightly around an existing sewer line on opposite sides of the excavation, 12 feet into the excavation.

In a Linear Multi-Bay™ system, a Shore-Trak™ Panel Guide gives the contractor more flexibility shoring alongside an existing methane gas trunk line.

Woodruff & Sons - Michigan City, Indiana

DiPaolo Construction - Calumet City, Illinois

Hubbard Construction - Orlando, Florida

Efficiency Production, Inc. Slide Rail System
Slide Rail Accessories
Helpful Tools for Efficiency’s Slide Rail System

Corner Spacing Tool
Part # SR-TOOL-SPACING

A spacing template that helps place the fourth corner post in 4-sided configurations.

Ground Quick-Release™ Shackle
Part # 58025

In the process of installing Slide Rail, the shackle connecting the top of posts, panels, and sheeting must be removed manually. This is normally done by climbing on a ladder to reach the top. The innovative new Ground Quick-Release™ Shackle has a spring loaded pin that when pulled from the ground by a connecting rope, retracts and frees the shackle.

Slide Rail Squaring Tool
Part # SR-TOOL-SQUARING

Squaring the system is critical to the ease of the dig and push process. The Squaring Tool is a spacing template that makes it easy to assure that the system is square and plum.

Slide Rail Barrier Post & Guard Rail
Part # BARRIER-POST

Slide Rail shored excavations typically remain open for extended periods of time. Efficiency’s new Barrier Posts & Guard Rail are an easy, OSHA compliant fall protection device. The posts’ adjustable shoes also fit 3-8 inch trench shield sidewalls.
Slide Rail Job Box
Part # SR-JOB-BOX

Customized, lockable tool box designed specifically for Slide Rail components and tools. Custom racks holds multiple cables, shackles, and other Slide Rail accessories:
- Corner Spacing & Squaring Tools
- Wire Rope & Single Leg Slings
- Screw Pin Shackles & Swivel
- Rope & Level
- Shackle Removal Wrench
- Slide Rail Post Handling Device

Panel Pushing Pad
Part # SRURAC-PB

Pins on top of inner-rail panels, providing greater surface area to push inner panels to grade.

Sheeting Pushing Cap
Part # SR-KD6-PUSH

Pins at top of KD Sheeting, providing a larger surface area to push sheeting down, and reduces bending of the sheets. Includes a recessed lifting lug.

Slide Rail Post Handling Device
Part # SR-POSTLIFT

Allows for the easy picking of long Slide Rail posts from the center in a horizontal position for moving, stacking, and loading.
INTRODUCING: Quicksheet™ Guideframe System for Cross-Trench Utilities

- Installed quickly and easily with normal excavation equipment; eliminating need for vibration machines or other on-site machinery.
- Post-less system decreases installation and removal time.
- Sheeting system enables easy excavation and construction around numerous cross-trench utilities or other existing structures.

800-552-8800
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