

LENTON®

LENTON® INTERLOK

The Splicing Solution for the
Precast Concrete Construction Industry



ERICO®

How to Specify

By Name:

Mechanical splices shall be LENTON® INTERLOK, manufactured by ERICO.

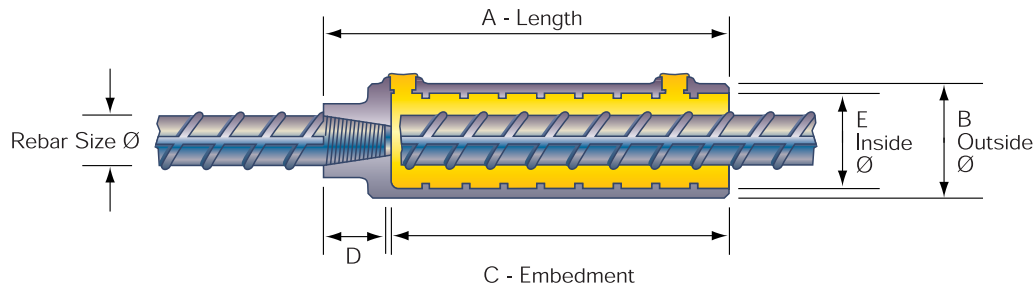
Generic: Mechanical reinforcing steel splices shall meet building code requirements of developing in tension and compression as required by *.

The sleeve shall be produced as a casting from ductile iron conforming to ASTM A536 standards. One end of the sleeve shall consist of a positive locking tapered thread, while the opposing cylindrical side is designed with equally spaced concentric ribs. Grouting must be performed in accordance with the manufacturers recommended installation procedures.

*as required by local norms/codes



Product Specs



| Rebar Size Designation | in-lb | Metric | Canadian | Number of couplers per bag of HY10L grout | Part No. | Art. No. | "A" | | "B" | | "C" | | "D" | | "E" | |
|------------------------|-------|--------|----------|---|----------|----------|----------|-----|---------|-----|--------|-----|---------|----|--------|----|
| | | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm |
| #5 | 16 | 15M | | 23 | LK5 | — | 7-5/8 | 195 | 2-7/16 | 62 | 6-1/8 | 156 | 7/8 | 22 | 1-7/8 | 48 |
| #6 | 20 | 20M | | 25 | LK6 | 145580 | 7-5/8 | 195 | 2-7/16 | 62 | 6-1/8 | 156 | 1-1/8 | 29 | 1-7/8 | 48 |
| #7 | 22 | — | | 26 | LK7 | 145585 | 7-5/8 | 195 | 2-7/16 | 62 | 6-1/8 | 156 | 1-1/4 | 32 | 1-7/8 | 48 |
| #8 | 25 | 25M | | 21.5 | LK8 | 145590 | 8-5/8 | 219 | 2-5/8 | 67 | 7 | 178 | 1-3/8 | 35 | 2 | 51 |
| #9 | 28 | 30M | | 17.5 | LK9 | 145595 | 9-3/4 | 248 | 2-3/4 | 70 | 8 | 203 | 1-1/2 | 38 | 2-1/8 | 54 |
| #10 | 32 | — | | 14 | LK10 | 145600 | 10-13/16 | 275 | 2-15/16 | 75 | 9 | 229 | 1-9/16 | 40 | 2-5/16 | 59 |
| #11 | 36 | 35M | | 12 | LK11 | 145605 | 12 | 295 | 3-1/8 | 79 | 9-7/8 | 251 | 1-11/16 | 43 | 2-7/16 | 62 |
| — | 40 | — | | 7.5 | LKT14SP | 145610 | 15 | 381 | 3-11/16 | 94 | 12-3/4 | 324 | 2-3/8 | 56 | 2-3/4 | 70 |
| #14 | 43 | 45M | | 7.5 | LKT14 | — | 15 | 381 | 3-11/16 | 94 | 12-3/4 | 324 | 2-1/8 | 54 | 2-3/4 | 70 |
| — | 50 | — | | 5 | LKT18SP | 145615 | 20-5/16 | 508 | 4-1/2 | 114 | 17 | 432 | 2-3/4 | 71 | 3-1/4 | 83 |
| #18 | 57 | 55M | | 5 | LKT18 | 145620 | 20-5/16 | 508 | 4-1/2 | 114 | 17 | 432 | 2-3/4 | 72 | 3-1/4 | 83 |

The system is designed to meet or exceed the ACI, UBC, and IBC codes for Type 1 and Type 2 mechanical connections. The system also meets the requirements of BS 8110, BRL 504, and Hong Kong GS, in addition to other worldwide codes.

WARNING

ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

WARRANTY

ERICO products are warranted to be free from defects in material and workmanship at the time of shipment. NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF ANY ERICO PRODUCTS. Claims for errors, shortages, defects or nonconformities ascertainable upon inspection must be made in writing within 5 days after Buyer's receipt of products. All other claims must be made in writing to ERICO within 6 months from the date of shipment or transport. Products claimed to be nonconforming or defective must, upon ERICO's prior written approval in accordance with its standard terms and procedures governing returns, promptly be returned to ERICO for inspection. Claims not made as provided above and within the applicable time period will be barred. ERICO shall in no event be responsible if the products have not been stored or used in accordance with its specifications and recommended procedures. ERICO will, at its option, either repair or replace nonconforming or defective products for which it is responsible or return the purchase price to the Buyer. THE FOREGOING STATES BUYER'S EXCLUSIVE REMEDY FOR ANY BREACH OF ERICO WARRANTY AND FOR ANY CLAIM, WHETHER SOUNDING IN CONTRACT, TORT OR NEGLIGENCE, FOR LOSS OR INJURY CAUSED BY THE SALE OR USE OF ANY PRODUCT.

LIMITATION OF LIABILITY

ERICO excludes all liability except such liability that is directly attributable to the willful or gross negligence of ERICO's employees. Should ERICO be held liable its liability shall in no event exceed the total purchase price under the contract. ERICO SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS OF BUSINESS OR PROFITS, DOWNTIME OR DELAY, LABOR, REPAIR OR MATERIAL COSTS OR ANY SIMILAR OR DISSIMILAR CONSEQUENTIAL LOSS OR DAMAGE INCURRED BY BUYER.



ERICO has been a pioneer in the concrete construction industry for more than 40 years. We changed rebar splicing, first with CADWELD® mechanical connections, then with the LENTON® taper threaded rebar splicing system. ERICO now offers a wide range of mechanical splices for almost any construction need:

CADWELD®

Premier mechanical splicing system

LENTON® FORM SAVER

Ideal for segmental pour

LENTON® INTERLOK

Ideal for precast structures

LENTON® STEEL FORTRESS

Ideal for punching shear reinforcement

LENTON® QUICK WEDGE

Ideal for quick retrofit

LENTON® SPEED SLEEVE

Ideal for compression only splice

LENTON® TERMINATOR

Ideal alternative to hooked rebar anchorage

LENTON® LOCK

Ideal for insitu splicing

The entire LENTON line of mechanical rebar splices has replaced many conventional splicing systems, such as welding and lap splicing. Unlike butt welding, ERICO products require no special training or external power source, are quicker to install and inspect, reduce crane time, improve the tensile strength of the splice and can be installed in any weather.

As your rebar splicing specialist, ERICO offers you the expertise you need for all your rebar splicing projects.

The LENTON® INTERLOK provides a cost effective and quick option with a dramatic increase in design flexibility of precast concrete elements. ERICO's growing project portfolio stands testament to the advantages provided by the system. LENTON INTERLOK has been used in construction of parking structures, hospitals, high rises, stadiums, bridges, air traffic control towers and many other types of projects.

The Rebar Splicing Solution

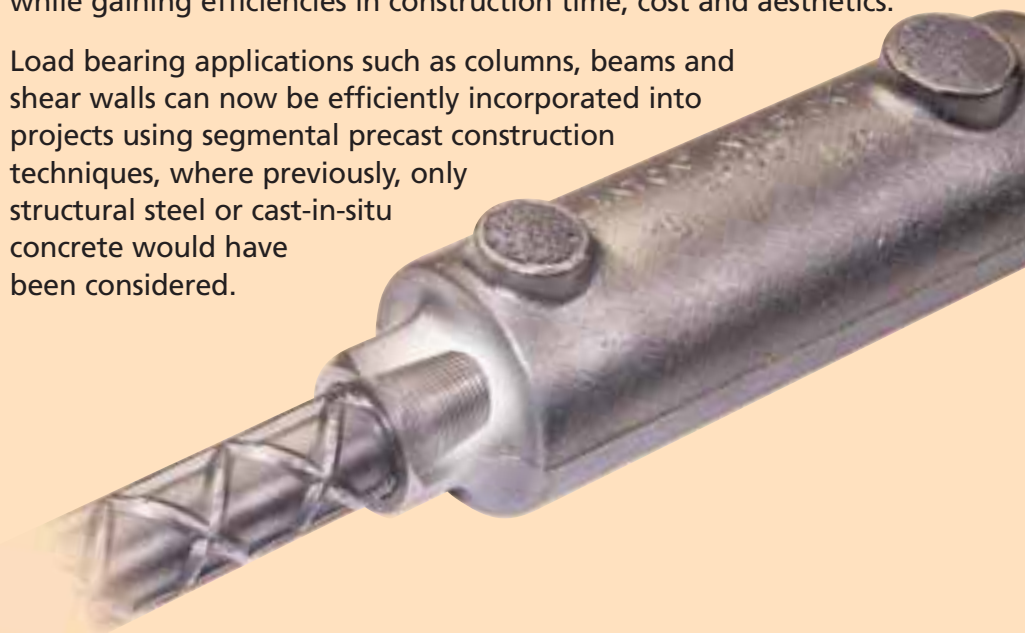
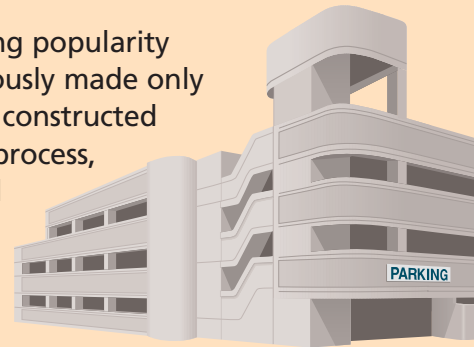
Construction in precast concrete is gaining popularity worldwide. Structures which were previously made only with cast-in-situ concrete are now being constructed using precast concrete. To facilitate this process, special rebar splicing systems are needed to increase the structural integrity of precast concrete constructions.

As a leader in reinforcing bar splicing, ERICO has developed the LENTON INTERLOK system as the solution to creating rebar continuity between precast concrete elements. The LENTON INTERLOK can connect #6 (20mm) through #18 (57mm) rebar using the LENTON taper threaded system and a special high strength grout.

The result is a full strength splice that is reliable, forgiving to rebar misalignment and, as no closure pour is required, undeniably efficient.

Architects and engineers are now afforded previously unattainable flexibility in the design and application of precast concrete elements, while gaining efficiencies in construction time, cost and aesthetics.

Load bearing applications such as columns, beams and shear walls can now be efficiently incorporated into projects using segmental precast construction techniques, where previously, only structural steel or cast-in-situ concrete would have been considered.




ERICO®

Benefits of LENTON® INTERLOK:

- Helps ensure structural integrity between the precast sections.
- Provides load path continuity of the reinforcement, acting as one continuous bar.
- Designed for all high yield deformed rebar sizes from #6 to #18 (20mm to 57mm).
- Eliminates field welding damage to concrete
- Helps to overcome rebar misalignment problems in joining of precast concrete members.
- Offers a higher strength connection between the precast elements than traditional joining methods.
- Eliminates costly and unsightly patchwork.
- No closure pours required between adjacent members.
- Tensile loads are transferred through the rebar, and are not dependent on the compressive strength of the concrete.
- Optimizes production time and is convenient and flexible to use.

for the Precast Concrete Construction Industry

How to Install



The LENTON INTERLOK couplers are fastened to the rebar and placed into the precast forms. Easy-to-use, reusable form-mounting fixtures are available for this purpose. The LENTON INTERLOK incorporates a taper thread which creates a positive lock that seals the coupler. This threaded system aids the alignment of the coupler onto the rebar, providing a full strength mechanical connection in both tension and compression.

The splice is completed on site by inserting the exposed dowel of the adjoining structural member into the sleeve and filling the coupler with HY10L high strength grout from ERICO. This can be either poured or pumped into the sleeve. The inlet and outlet ports on the sleeve accept commonly available rigid PVC or flexible plastic tubes.

The complete splice provides load path continuity allowing precast structures to function as continuous members.

A detailed installation guide is available from ERICO outlining correct installation, grout mixing and formwork mounting procedures.



Standard 1/2" (13mm) and 3/4" (19mm) PVC or flexible tubing is used for the inlet and outlet ports.



The taper threaded sleeve keeps the bar in axial alignment to increase field tolerance of the rebar dowels.



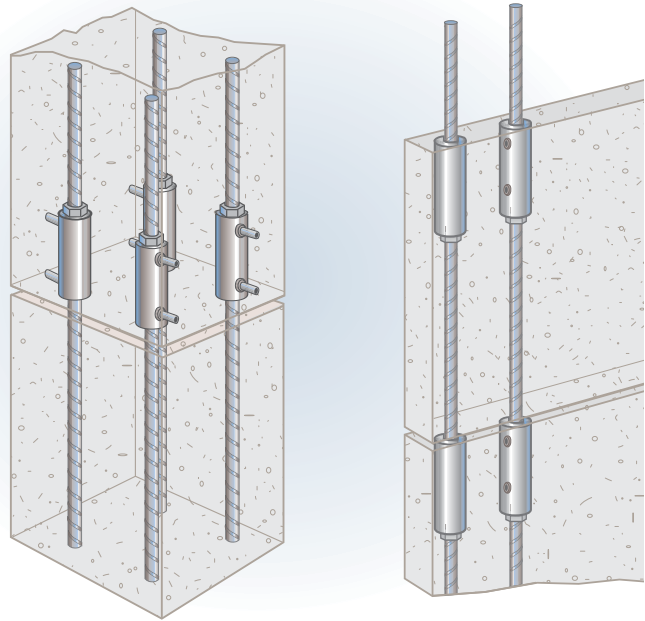
LENTON INTERLOK grout (HY10L), can be pumped or poured into the sleeves at the jobsite.

Applications

- Column to Column
- Columns to Foundations
- Shear Walls to Foundations
- Shear Wall to Shear Wall
- Panel to Panel
- Walls to Floor Slab
- Architectural Panels

Projects

- I-95 Fuller Warren Bridge;
Jacksonville, Florida – USA
- Pacific Plaza Office Complex;
San Francisco, California – USA
- Houston International
Air Traffic Control Tower;
Houston, Texas – USA
- Olympic Stadium;
Atlanta, Georgia – USA
- Taj Mahal Casino
Parking Garage;
Atlantic City, New Jersey – USA
- Corcoran Prison;
Corcoran, California – USA
- Arena Central;
Birmingham – UK
- Salamenca Street;
London – UK
- Office Development;
Dartford, Kent – UK
- Sydney Stadium;
Sydney – Australia
- Mazeikiu Nafta Refinery;
Mazeikiai – Lithuania
- Terminal 5;
Heathrow Airport – UK
- One Hyde Park Apartments;
London – UK
- Athlete's Village London
2012 Olympics;
Stratford City, London – UK
- Highbury Square;
London – UK



Grout-filled connection designed for moment capacity in precast construction.

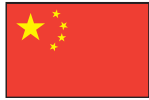




www.erico.com



AUSTRALIA
Phone 1-800-263-508
Fax 1-800-423-091



CHINA
Phone +86-21-3430-4878
Fax +86-21-5831-8177



HUNGARY
Phone 06-800-16538
Fax +39-0244-386-107



NORWAY
Phone 800-100-73
Fax 800-100-66



SWITZERLAND
Phone 0800-55-86-97
Fax 0800-55-96-15



BELGIUM
Phone 0800-757-48
Fax 0800-757-60



DENMARK
Phone 808-89-372
Fax 808-89-373



INDONESIA
Phone +62-21-575-0941
Fax +62-21-575-0942



POLAND
Phone +48-71-349-04-60
Fax +48-71-349-04-61



THAILAND
Phone +66-2-267-5776
Fax +66-2-636-6988



BRAZIL
Phone +55-11-3623-4333
Fax +55-11-3621-4066



FRANCE
Phone 0-800-901-793
Fax 0-800-902-024



ITALY
Phone 800-870-938
Fax 800-873-935



SINGAPORE
Phone +65-6-268-3433
Fax +65-6-268-1389



UNITED ARAB EMIRATES
Phone +971-4-881-7250
Fax +971-4-881-7270



CANADA
Phone +1-800-677-9089
Fax +1-800-677-8131



GERMANY
Phone 0-800-189-0272
Fax 0-800-189-0274



MEXICO
Phone +52-55-5260-5991
Fax +52-55-5260-3310



SPAIN
Phone 900-993-154
Fax 900-807-333



UNITED KINGDOM
Phone 0808-2344-670
Fax 0808-2344-676



CHILE
Phone +56-2-370-2908
Fax +56-2-369-5657



HONG KONG
Phone +852-2764-8808
Fax +852-2764-4486



NETHERLANDS
Phone 0800-0200-135
Fax 0800-0200-136



SWEDEN
Phone 020-790-908
Fax 020-798-964



UNITED STATES
Phone 1-800-753-9221
Fax +1-440-248-0723