

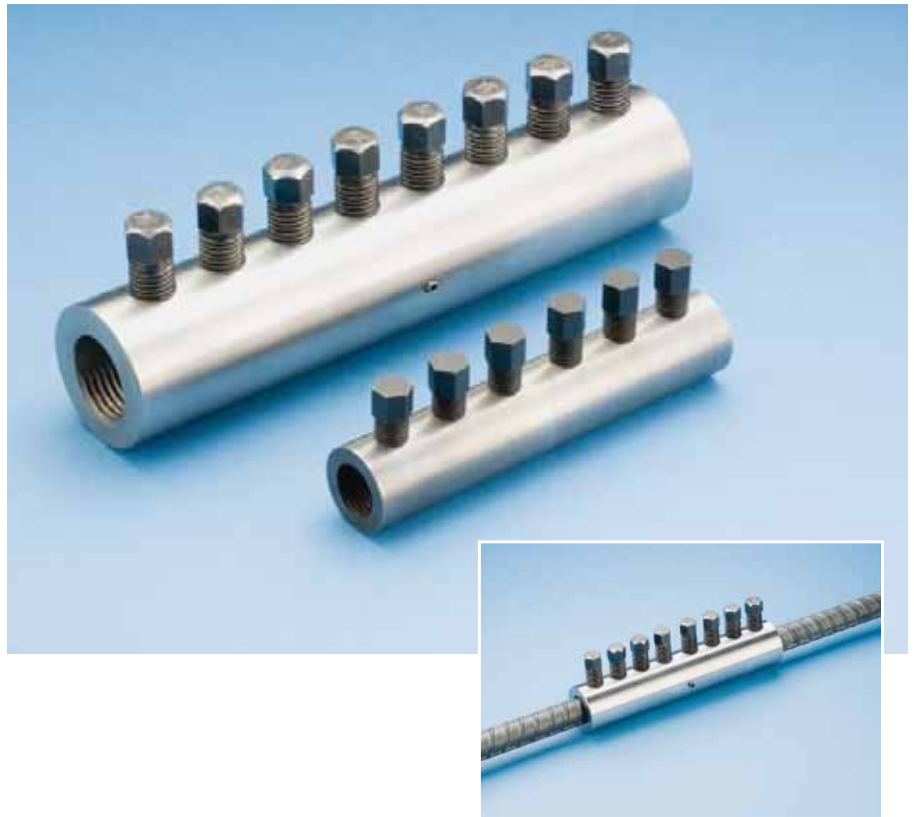
LENTON® LOCK

Mechanical Rebar Splicing System

Features

- Is designed to break the reinforcing bar remote from the rebar connector
- Meets or exceeds major international building code and Department of Transportation requirements, including CalTrans' Ultimate Splice requirement, IBC®, UBC® and ACI® 318 Type 2, DIN 1045 and BS8110
- Uses standard rebar; requires no bar-end preparation such as sawing or swaging — ideal for in-situ splices
- Is smaller than other bolted splices currently available
- Performs like a continuous piece of rebar
- Works in repair, bent bar, retrofit precast and new construction applications
- Meets slip criteria of less than 0.10 mm (0.0039 in)
- Provides superior fatigue performance
- Works with a variety of standard US and international rebar grades
- Installs quickly and easily using simple hand tools — does not require special skilled labor
- Allows for simple visual inspection

Patent no.
7,107,735 / 7,093,402.
Additional patents in
other countries.



LENTON® LOCK, a new in-situ rebar splice from ERICO®, requires no bar-end preparation. It is ideal for new construction, repair or retrofit applications. The LENTON LOCK coupler features patented gripping technology that provides for the development of full rebar strength and improved overall structural integrity in tension, compression, stress-reversal and dynamic applications. This innovative mechanical rebar splice is designed to specification for use in column splicing, bridge applications, piling, splicing to protruding dowels cast in concrete, closure pours, beams, chimney construction and other demanding splicing applications.

LENTON LOCK couplers meet or exceed major international building codes and Department of Transportation (DOT) requirements, including CalTrans' Ultimate Splice requirement. The Ultimate Splice classification requires the connector to force a fracture into the parent reinforcing bar remote of the rebar connector.

LENTON LOCK couplers allow for easy and simple field installation since no bar-end preparation, sawing or swaging is necessary. The couplers can be installed with just a standard wrench or an impact wrench depending on coupler size. The bolt heads will shear off when proper installation tightness has been reached, which allows for completely visual inspection.

The completed connection performs similar to a continuous piece of rebar. In testing, the couplers demonstrated less than 0.004 in (0.10 mm) of slip.

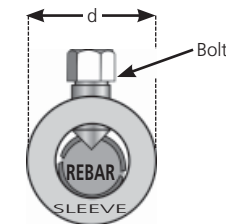
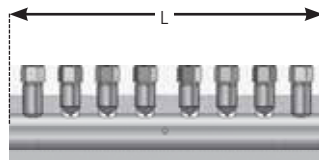


Simple 1-2-3 Installation:

- 1) Insert the LENTON® LOCK coupler over reinforcing bar 1.
- 2) Tighten bolts from the center to the end to secure onto the first reinforcing bar.
- 3) Repeat steps 1 & 2 with the second reinforcing bar on the other side of the coupler.



LENTON® LOCK, with its patented round end bolts, is designed to break the reinforcing bar remote from the rebar connector in accordance with Ultimate Splice requirements.



Side view of coupler



This cutaway shows LENTON LOCK's patented gripping technology on the inside of the coupler and patented round bolts on the outer edges of the coupler.

Product Specifications

Rebar Designation				Coupler Part Number	Length (L)		Outside Diameter (d)		Inside Diameter		Weight		Socket Size		Average Torque All Bolts		Number of Bolts
Inch-Lb	Metric	Canada	Soft Metric		in	mm	in	mm	in	mm	lb	kg	in	mm	ft-lb	N-m	
-	10	-	10	LL12B1	5.0	127	1.1	29	0.6	15	1.2	0.6	1/2	13	150	205	6
#4	12	10 M	13	LL12B1	5.0	127	1.1	29	0.6	15	1.2	0.6	1/2	13	150	205	6
-	14	-	-	LL16B1	6.3	159	1.4	35	0.7	19	2.1	0.9	1/2	13	150	205	6
#5	16	15 M	16	LL16B1	6.3	159	1.4	35	0.7	19	2.1	0.9	1/2	13	150	205	6
-	18	-	-	LL20B1	7.5	191	1.6	41	0.9	24	3.1	1.4	1/2	13	150	205	8
#6	20	20 M	19	LL20B1	7.5	191	1.6	41	0.9	24	3.1	1.4	1/2	13	150	205	8
#7	22	-	22	LL22B1	8.7	222	1.9	48	1.1	28	5.2	2.3	5/8	16	350	475	8
#8	25	25 M	25	LL25B1	10.0	254	2.1	54	1.2	30	7.4	3.4	5/8	16	350	475	8
#9	28	30 M	29	LL28B1	11.3	287	2.4	60	1.3	34	10.2	4.6	5/8	16	350	475	10
-	30	-	-	LL28B1	11.3	287	2.4	60	1.3	34	10.2	4.6	5/8	16	350	475	10
#10	32	-	32	LL32B1	12.7	323	2.6	65	1.5	38	13.1	5.9	13/16	21	500	680	8
-	34	-	-	LL36B1	14.1	358	2.8	72	1.7	43	17.3	7.9	13/16	21	550	750	10
#11	36	35 M	36	LL36B1	14.1	358	2.8	72	1.7	43	17.3	7.9	13/16	21	550	750	10
-	38	-	-	LL40B1	15.7	400	3.1	80	1.9	47	24.0	10.9	13/16	21	580	790	12
-	40	-	-	LL40B1	15.7	400	3.1	80	1.9	47	24.0	10.9	13/16	21	580	790	12

NOTES

- Dimensions shown in chart are typical. Bolt length may vary after the bolt heads are sheared off.
- When using air impact wrench check the air pressure, torque rating and air flow requirements before starting installations.
- Refer to installation instructions for information on DIN slip or Caltrans Ultimate Splice requirements.
- Refer to complete installation instructions provided with the product or available at www.erico.com before commencing installation.

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.

ACI is a registered trademark of the American Concrete Institute. IBC is a registered trademark of the International Code Council. UBC is a registered trademark of the International Conference of Building Officials.

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