

Features

- Meets or exceeds major international building code requirements, including NEN 6720, NEN 6723, NF A35-020, ACI® 318 Type 2, DIN 1045, Sellafield Ltd., BS5400 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
- Provides superior fatigue performance
- Works with a variety of international rebar grades
- Installs quickly and easily using simple hand tools — does not require special skilled labor
- Allows for simple visual inspection
- Works as a reducer

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



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

The completed LENTON LOCK connection performs similar to a continuous piece of rebar and works as a reducer. LENTON LOCK couplers also meet or exceed major international building codes.

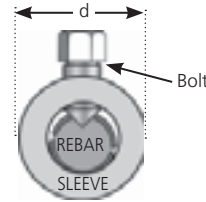
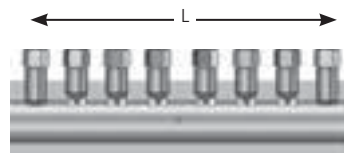
Mechanical Rebar Splicing Systems



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.

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.



Side view of 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 (a)	mm (b)	in	mm	lb (a)	kg (b)	in	mm	ft-lb	N-m	
-	10	-	10	LL12B1	5.0	127	1.25	29	0.6	15	1.5	0.6	1/2	13	150	205	6
#4	12	10 M	13	LL12B1	5.0	127	1.25	29	0.6	15	1.5	0.6	1/2	13	150	205	6
-	14	-	-	LL16B1	6.3	159	1.38	35	0.7	19	2.0	0.9	1/2	13	150	205	6
#5	16	15 M	16	LL16B1	6.3	159	1.38	35	0.7	19	2.0	0.9	1/2	13	150	205	6
-	18	-	-	LL20B1	7.5	191	1.75	44	0.9	24	3.8	1.7	1/2	13	150	205	8
#6	20	20M	19	LL20B1	7.5	191	1.75	44	0.9	24	3.8	1.7	1/2	13	150	205	8
#7	22	-	22	LL22B1	8.7	222	1.88	48	1.1	28	4.9	2.3	5/8	16	250	340	8
#8	25	25 M	25	LL25B1	10.0	254	2.13	54	1.2	30	7.4	3.4	5/8	16	350	475	8
#9	28	30 M	29	LL28B1	11.3	287	2.38	60	1.3	34	10.2	4.6	5/8	16	350	475	10
-	30	-	-	LL28B1	11.3	287	2.38	60	1.3	34	10.2	4.6	5/8	16	350	475	10
#10	32	-	32	LL32B1	12.7	323	2.50	65	1.5	38	12.2	5.9	13/16	21	500	680	8
-	34	-	-	LL36B1	14.1	358	2.75	72	1.7	43	15.8	7.8	13/16	21	550	750	10
#11	36	35 M	36	LL36B1	14.1	358	2.75	72	1.7	43	15.8	7.8	13/16	21	550	750	10
-	38	-	-	LL40B1	15.7	400	3.25	80	1.9	47	26.1	10.9	13/16	21	580	790	12
-	40	-	-	LL40B1	15.7	400	3.25	80	1.9	47	26.1	10.9	13/16	21	580	790	12
#14	43	45 M	43	LL43B1*	20.6	523	3.50	89	2.1	53	37.4	17.0	1	25	960	1300	14
#18	57	55 M	55	LL57B1*	26.1	662	4.50	117	2.6	67	80.6	39.0	1	25	960	1300	18

(a) Product produced from standard imperial material diameters (inch). (b) Product produced from standard metric material (mm).
 * Two round bolts per end.

- NOTES**
- * Works as a reducer.
 - Dimensions shown in chart are typical. Bolt length may vary after the bolt head is sheared off.
 - When using air impact wrench check the air pressure, torque rating and air flow requirements before starting installations.
 - It is recommended to use an impact wrench rated 2x the bolt torque.
 - Bolt heads are not required to be removed if appropriate bolt torque is achieved.
 - 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.

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