

CONNECT AND PROTECT

nVent LENTON Speed Sleeve

Compression Splices


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nVent LENTON Speed Sleeve

FOR ULTIMATE STRENGTH IN COMPRESSION

The Speed Sleeve splice is a proven, quick and economical method of making compression splices for steel reinforced concrete construction projects all over the world.

Speed Sleeve splices comply with the requirements of many international reinforced concrete design codes such as DIN 1045, BS8110, ACI 318, AS 3600, IBC, ICC, UBC, CSA and others.

The Speed Sleeve is a simple and easy-to-install sleeve for holding square cut ends of bars in compression in concentric contact. The small dimensions of the sleeve generally eliminate the need for additional concrete cover on the reinforcement because the sleeve is typically thinner than the column stirrups.

SPEED SLEEVE FEATURES:

- Easy to use – Requires only a small ratchet wrench to install. A power wrench reduces installation time even further (only 14-20 ft-lb torque required [19-27 Nm]).
- Self-supporting – Requires no “tack” welding.
- Fast – Installs in seconds. Speeds the installation of prefabricated cages since the sleeve can be installed on rebar dowels without the upper bar in place. Single person installation.
- Broad applicability – Works on bundled bars. Makes transition splices with the use of a simple adapter inserts.
- Removable and reusable – Can be easily removed and reused if necessary (contact nVent for information).
- Forgiving – Compensates for rebar size variation and out of roundness.
- Secure – Positive end bearing is maintained without depending on the weight of the rebar to keep the ends in contact. Bars are individually secured, compensating for rebar size variations.

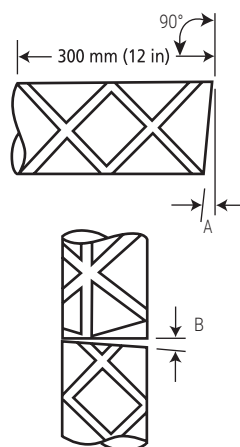


Ø 32 mm (#10) and smaller

Ø 34 mm (#11) and larger

BAR END PREPARATION

1. Bar ends should be prepared by saw cutting or other means to provide a reasonably flat surface. Shear cutting may be used as long as they meet these requirements:
2. The ends of the bars must be within 1-½ degrees of square to the long axis. In field assembly, such splices when erected must fit within 3 degrees.



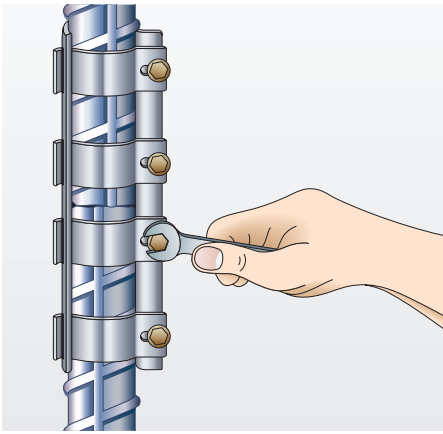
MAXIMUM END DEVIATION AND GAP Equivalent Linear Offsets*		
Rebar Size Max.	End Deviation 'A'	Maximum Gap 'B'
#18; 50-57 mm	0.06 in (1.6 mm)	0.12 in (3.0 mm)
#14; 40-43 mm	0.04 in (1.1 mm)	0.09 in (2.2 mm)
#11; 34-36 mm	0.04 in (0.9 mm)	0.07 in (1.8 mm)
#10; 30-32 mm	0.03 in (0.8 mm)	0.07 in (1.8 mm)
#9; 28 mm	0.03 in (0.7 mm)	0.06 in (1.4 mm)
#8; 25 mm	0.03 in (0.7 mm)	0.05 in (1.3 mm)
#7; 22 mm	0.02 in (0.6 mm)	0.05 in (1.2 mm)
#6; 20 mm	0.02 in (0.5 mm)	0.04 in (1.1 mm)

* = Tables are based on nominal bar diameters. Values are rounded.

* = Deviation and Gap based on ACI 318-08 Section 12.16.4

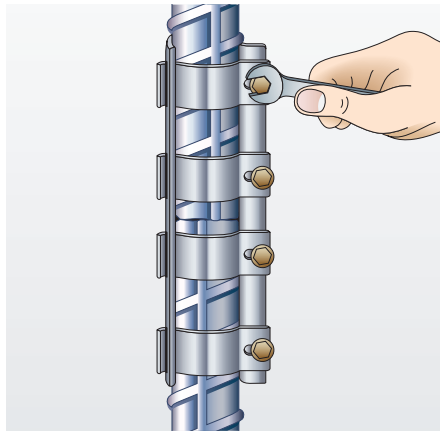
Note: Field adjustment or rotation of bar ends may be necessary to obtain a gap equal to or less than the Maximum Allowable Gap where Maximum Allowable Deviation exists on both bar ends.

INSTALLATION PROCEDURE

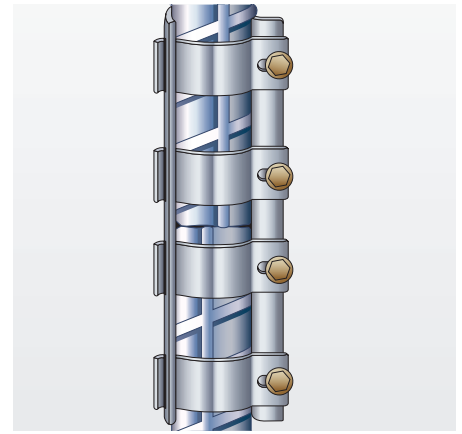


1. For rebar #11 (34 mm) and larger, place the Speed Sleeve over the bar end so that the end of the bar is between the middle two straps and tighten the lower bolts.

For rebar #10 (32 mm) and smaller, place the Speed Sleeve over the bar end so that the end of the bar is at the slot in the center strap and tighten only the bottom bolt. If required, place the adapter insert inside the sleeve. (See information below.)



2. Insert the upper bar (and adapter inserts for transitions) so that it rests concentrically on the lower bar and tighten the upper two bolts.



3. The bolts need to be tightened only enough to cause the straps to bend. The bolts do not need to be bottomed. Visual inspection is easy. A torque wrench is not required. Tightening can be done by hand since the installation only takes 14-20 ft-lb (19-27 Nm).

SPEED SLEEVE ORDERING INFORMATION

Inch/Lb.	Bar Size Metric	Canadian Metric	Article Number	Part Number	Packing Unit
#6	20 mm	20 M	145495	RBW2686**	20
#7	22 mm	—	145500	RBW2687	20
#8	25 mm	25 M	145510	RBW2688	20
#9	28 mm	—	145520	RBW2689	20
—	30 mm	—	145530	—	20
#10	32 mm	30 M	145535	RBW26810	20
#11	34, 36 mm	35 M	145540	RBW26811	20
—	40 mm	—	145550	—	10
#14	43 mm	45 M	—	RBW26814	10
—	50 mm	—	145555	—	10
#18	57 mm	55 M	145560	RBW26818	10
Ratchet Wrench (Sizes: 22, 30, 34-36, 57)*			145570	RBW402	1

To Splice Bar Sizes			Use Speed Sleeve		Use Adapter Insert		No. Inserts Required Per Splice	Inserts Per Pkg.***
Inch/Lb.	Metric	Canadian Metric	Article Number	Part Number	Article Number	Part Number		
#8 to #7	25 to 22 mm	—	145510	RBW2688	—	RBW3997	1	20
#9 to #8	28 to 25 mm	—	145520	RBW2689	—	RBW3998	1	20
#10 to #9	32 to 28 mm	—	145535	RBW26810	145565	RBW3999	1	20
#11 to #10	36 to 32 mm	35 M to 30 M	—	RBW26811	—	RBW39910	1	20
#14 to #11	43 to 36 mm	45 M to 35 M	—	RBW26814	—	RBW39911	2	20
#18 to #14	57 to 43 mm	55 M to 45 M	145560	RBW26818	—	RBW39914	2	20

Please contact nVent for more information regarding transition splices.

* Other Speed Sleeve sizes may contain metric bolts and can be tightened with standard metric tooling.

** #6 Speed Sleeve is not a stock item in North and South America. Call nVent for availability.

*** Only complete packages shipped.

HOW TO SPECIFY

By Name: For compression-only splices, specify Speed Sleeve Compression-Only Splices.

By Generic Description: On jobs requiring a generic description (usually government specifications prohibit the use of a proprietary name), use the following description: Type of splice required is bolted sleeve to hold square-cut rebar ends in concentric contact for transmission of compression strength.

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WARNING: nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [nVent.com/LENTON](https://www.nvent.com/LENTON) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

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