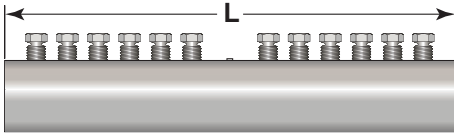


ZAP SCREWLOK® TYPE 2 SERIES
UNCOATED & EPOXY

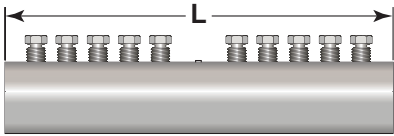


REBAR SIZE US [Metric]	ZAP TYPE 2 * PRODUCT CODE		COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
	BLACK	EPOXY		LENGTH 'L'	'A'	'B'	'C'	'X'			
#3 [10]	03ZBA	03ZEA	1.57	5	13/16	5/8	7/16	1 1/8	2	60	250
#4 [13]	04ZBA	04ZEA	2.19	7	1 1/16	11/16	1/2	1 3/8	3		
#5 [16]	05ZBA	05ZEA	3.38	9	1 1/8	3/4	5/8	1 5/8	4		
#6 [19]	06ZBA	06ZEA	4.68	11	1 3/16	15/16	11/16	1 3/4	5	105	500
#7 [22]	07ZBA	07ZEA	7.85	13	1 1/4	1 1/16	13/16	2 1/16	5		
#8 [25]	08ZBA	08ZEA	11.0	15 1/4	1 5/16	1 1/16	7/8	2 1/4	6		
#9 [29]	09ZBA	09ZEA	17.6	16 3/4	1 5/8	1 1/4	1 1/16	2 5/8	6	215	750
#10 [32]	10ZBA	10ZEA	21.5	19 1/8	1 11/16	1 7/16	1 1/8	2 3/4	7		
#11 [36]	11ZBA	11ZEA	27	21 1/2	1 3/4	1 1/2	1 1/4	2 15/16	8		
#14 [43]	14ZBA2	14ZEA2	37	18	2 5/16	1 3/4	1 1/2	3 3/4	10	350	1000
#18 [57]	18ZBA	18ZEA	79	29 1/2	2 1/2	2 3/8	1 7/8	4 1/2	21		

* GALVANIZED COUPLER ALSO AVAILABLE - SUBSTITUTE 'ZGA' FOR 'ZBA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

ZAP SCREWLOK® SL SERIES
UNCOATED & EPOXY

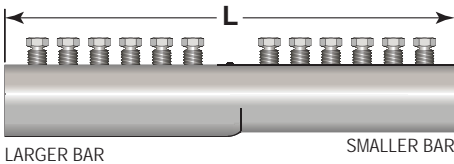


REBAR SIZE US [Metric]	ZAP SL * PRODUCT CODE		COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
	BLACK	EPOXY		LENGTH 'L'	'A'	'B'	'C'	'X'			
#4 [13]	04SZBA	04SZEA	1.53	5	1 1/16	11/16	1/2	1 3/8	2	60	250
#5 [16]	05SZBA	05SZEA	2.59	7	1 1/8	3/4	5/8	1 5/8	3		
#6 [19]	06SZBA	06SZEA	3.78	9	1 3/16	15/16	11/16	1 3/4	4		
#7 [22]	07SZBA	07SZEA	6.47	10 3/4	1 1/4	1 1/16	13/16	2 1/16	4	105	500
#8 [25]	08SZBA	08SZEA	9.24	13	1 5/16	1 1/16	7/8	2 1/4	5		
#9 [29]	09SZBA	09SZEA	14.3	13 7/8	1 5/8	1 1/4	1 1/16	2 5/8	4		
#10 [32]	10SZBA	10SZEA	18.3	16 1/2	1 11/16	1 7/16	1 1/8	2 3/4	5	215	750
#11 [36]	11SZBA	11SZEA	23.7	19 1/8	1 3/4	1 1/2	1 1/4	2 15/16	6		
#14 [43]	14SZBA1	14SZEA1	33	15 3/8	2 5/16	1 3/4	1 1/2	3 3/4	8		
#18 [57]	18SZBA	18SZEA	63	23 1/2	2 1/2	2 3/8	1 7/8	4 1/2	16	350	1000

* GALVANIZED COUPLER ALSO AVAILABLE - SUBSTITUTE 'SZGA' FOR 'SZBA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

ZAP SCREWLOK® TRANSITIONS

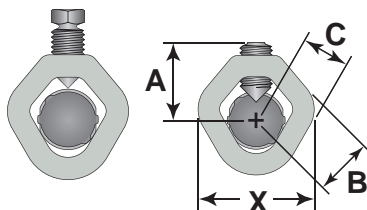


REBAR SIZE (US/US)	ZAP PRODUCT CODE TRANSITION *	COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
			LENGTH 'L'	'A'	'B'	'C'	'X'			
5/4	05/04ZBA	2.59	7	1 1/8	3/4	5/8	1 5/8	3	60	250
6/4	06/04ZBA	3.78	9	1 3/16	15/16	11/16	1 3/4	4		
6/5	06/05ZBA	3.78	9	1 3/16	15/16	11/16	1 3/4	4		
7/5	07/05ZBA	6.47	10 3/4	1 1/4	1 1/16	13/16	2 1/16	4	105	500
7/6	07/06ZBA									
8/5	08/05ZBA	9.24	13	1 5/16	1 1/16	7/8	2 1/4	5		
8/6	08/06ZBA									
8/7	08/07ZBA									
9/6	09/06ZBA	14.3	13 7/8	1 5/8	1 1/4	1 1/16	2 5/8	4	215	750
9/7	09/07ZBA									
9/8	09/08ZBA									
10/7	10/07ZBA	18.3	16 1/2	1 11/16	1 7/16	1 3/16	2 3/4	5		
10/8	10/08ZBA									
10/9	10/09ZBA									
11/7	11/07ZBA	18.3	16 1/2	1 13/16	1 1/2	1 1/4	2 3/4	5		
11/8	11/08ZBA									
11/9	11/09ZBA									
11/10	11/10ZBA	23.7	19 1/8	1 3/4	1 1/2	1 1/4	2 15/16	6	350	1000
14/9	14/09ZBA	33	15 3/8	2 5/16	1 3/4	1 1/2	3 3/4	8		
14/10	14/10ZBA									
14/11	14/11ZBA									
18/11	18/11ZBA	56	18 9/16	2 1/2	2 1/4	1 13/16	4 3/8	12		
18/14	18/14ZBA									

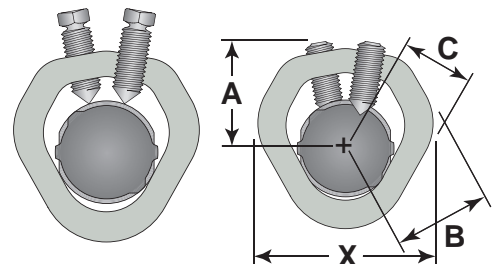
* EPOXY & GALVANIZED TRANS. ALSO AVAILABLE - SUBSTITUTE 'ZEA' OR 'ZGA' FOR 'ZBA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

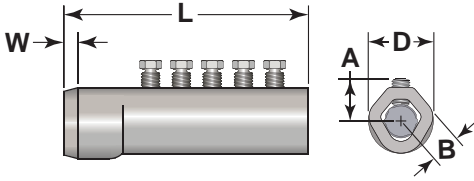
**SINGLE ROW
ZAP SCREWLOK®
(SIZES #3 - #11)
BEFORE AND
AFTER ASSEMBLY**



**DOUBLE ROW
ZAP SCREWLOK®
(SIZES #14 - #18)
BEFORE AND
AFTER ASSEMBLY**



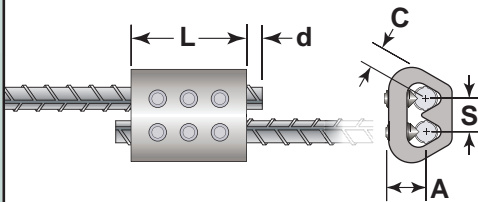
ZAP STRUCTURAL CONNECTOR



REBAR SIZE US [Metric]	ZAP PRODUCT CODE STR. CONNECTOR	COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
			LENGTH 'L'	'A'	'B'	DIA. 'D'	'W'			
#4 [13]	04SZSC	0.95	3 1/8	1 1/16	11/16	1 7/16	3/16	2	60	250
#5 [16]	05SZSC	1.53	4 1/8	1 1/8	3/4	1 5/8	1/4	3		
#6 [19]	06SZSC	2.26	5 3/8	1 3/16	15/16	1 13/16	1/4	4		
#7 [22]	07SZSC	3.81	6 3/8	1 1/4	1 1/16	2 1/16	3/8	4	105	500
#8 [25]	08SZSC	5.53	7 7/8	1 5/16	1 1/16	2 5/16	3/8	5		
#9 [29]	09SZSC	8.19	8	1 5/8	1 1/4	2 5/8	7/16	4	215	750
#10 [32]	10SZSC	10.4	9 1/2	1 11/16	1 7/16	2 13/16	1/2	5		
#11 [36]	11SZSC	13.6	11 1/8	1 3/4	1 1/2	2 15/16	9/16	6		
#14 [43]	14SZSC	19.8	9 3/4	2 5/16	1 3/4	3 3/4	11/16	8	350	1000
#18 [57]	18SZSC	40	15 3/8	2 1/2	2 1/4	4 1/2	7/8	16		

ALL DIMENSIONS ARE APPROXIMATE

DOUBLE BARREL ZAP SCREWLOK® UNCOATED & EPOXY

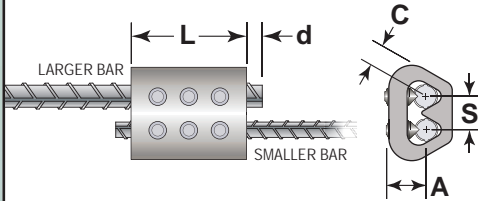


REBAR SIZE US [Metric]	DOUBLE BARREL PRODUCT CODE *		COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
	BLACK	EPOXY		LENGTH 'L'	'A'	'C'	'S'	'd'			
#3 [10]	03DBZA	03DBZEA	1.41	2 1/8	1 1/8	3/8	15/16	3/8	2	60	250
#4 [13]	04DBZA	04DBZEA	1.38	2 1/8	1 1/16	1/2	15/16	1/2	2		
#5 [16]	05DBZA	05DBZEA	2.17	3	1 1/8	5/8	15/16	5/8	3		
#6 [19]	06DBZA	06DBZEA	3.07	3 7/8	1 3/16	3/4	15/16	3/4	4	105	500
#7 [22]	07DBZA	07DBZEA	6.76	5 3/8	1 5/16	7/8	1 3/8	7/8	4		
#8 [25]	08DBZA	08DBZEA	10.2	6 1/2	1 3/4	1	1 3/16	1	5		

* GALVANIZED COUPLER ALSO AVAILABLE - SUBSTITUTE 'DBZGA' FOR 'DBZBA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

DOUBLE BARREL ZAP TRANSITIONS UNCOATED & EPOXY



REBAR SIZE (US/US)	DOUBLE BARREL PRODUCT CODE *	COUPLER WEIGHT (lb)	DIMENSIONS (in)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (ft-lbs)	MIN. IMPACT WRENCH RATING (ft-lbs)
			TRANSITION	LENGTH 'L'	'A'	'C'	'S'			
4/3	04/03DBZA	1.40	2 1/8	1 1/16	1/2	15/16	1/2	2	60	250
5/4	05/04DBZA	2.20	3	1 1/8	5/8	15/16	5/8	3		
6/4	06/04DBZA	3.11	3 7/8	1 3/16	3/4	15/16	3/4	4		
6/5	06/05DBZA									
7/5	07/05DBZA	6.86	5 3/8	1 5/16	7/8	1 3/8	7/8	4	105	500
7/6	07/06DBZA									
8/7	08/07DBZA	10.3	6 1/2	1 3/4	1	1 3/16	1	5		

* EPOXY & GALVANIZED TRANS. ALSO AVAILABLE - SUBSTITUTE 'DBZEA' OR 'DBZGA' FOR 'DBZA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

ZAP SCREWLOK® MECHANICAL SPLICES AND CONNECTORS FOR REINFORCING BARS

ZAP SCREWLOK® mechanical splices and connectors are compatible with reinforcing bars that comply with ASTM A615, ASTM A706, ASTM A996, or equal, and consist of smooth, shaped, steel sleeves with converging sides. A series of cone-pointed hex-head screws are arranged along the longitudinal axis in one or two rows. In the case of butt splices, reinforcing bars are inserted from each end to a center stop. No special bar-end preparation is required, so ends can be sheared, sawed, or flame-cut. When a splice is required between fixed points, the center pin can be knocked out completely allowing the coupler sleeve to be slipped entirely onto one bar and subsequently repositioned over both bar ends being spliced.

During mechanical splice assembly, the specially designed screws are tightened until they embed into the rebar surface whereupon the heads twist off at a prescribed tightening torque. Forces from the screws cause rebar deformations to interlock within the coupler wedge. The DUAL mechanical action results in a full positive connection for transferring tension or compression forces from bar-to-bar. Screws can be tightened using suitable impact wrenches. Linear alignment is preserved across the splice by using reinforcing bars with straight ends and securing the continuation bar in the desired position at the time of assembly.

Mechanical butt splices and connectors are available for reinforcing bar sizes #3 through #18 (Ø10 – 57 mm), and mechanical lap splices are available for bar sizes #3 through #8 (Ø10 – 25 mm), per the above Dimensions and Data charts. Transition splices are used to connect reinforcement bars of different sizes or different types, such as square bar or threaded rod.

Epoxy-coated reinforcing bars that comply with ASTM A775 can be spliced by means of epoxy coated Zap Screwlok® couplers without shielding or removing the epoxy coating from the bar. Zinc-coated (galvanized) bars per ASTM A767 or A1094 can be mechanically spliced by means of galvanized Zap Screwlok® couplers.

ZAP SCREWLOK® is an engineered mechanical splice system whose strength is independent of the concrete which surrounds it, thereby providing true structural continuity. Applications include new construction, field repairs, splicing of column steel, beam reinforcement, concrete piles and deck steel, and splicing of older types of reinforcing bars. The Zap Screwlok® system is commonly used for rehab / retrofit projects, strengthening and upgrading concrete elements, extending deck steel to widen bridges, highway patch and repair projects, and splicing bars across closure pours. Zap Screwlok® Type 2 splices can be used for mechanically splicing reinforcement in members resisting earthquake induced forces. Benefits include a field installed splice with easy visual inspection, no specialized equipment, minimal clearance requirements, a positive rebar center-stop and no rebar end preparation.

Field splicing of reinforcing bars by the Zap Screwlok® method is most popular because of the systems simplicity, cost effectiveness and adaptability. Instructions provided with Zap Screwlok® splices and connectors, or available at www.barsplice.com, explain step-by-step installation and safety information.

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