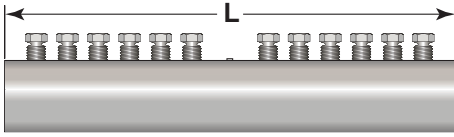


ZAP SCREWLOK® TYPE 2 SERIES
UNCOATED & EPOXY

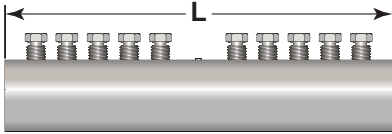


REBAR SIZE mm [CAN]	ZAP TYPE 2* PRODUCT CODE		COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
	BLACK	EPOXY		LENGTH 'L'	'A'	'B'	'C'	'X'			
10	03ZBA	03ZEA	0.71	127	21	16	11	29	2	80	350
[10M]	10M-ZBA	10M-ZEA	1.05	178	29	20	13	35	3		
12	04ZBA	04ZEA	0.99	178	25	18	13	35	3		
16 [15M]	05ZBA	05ZEA	1.53	229	29	19	16	41	4	140	700
20 [20M]	06ZBA	06ZEA	2.12	279	30	21	17	44	5		
22	07ZBA	07ZEA	3.56	330	32	27	21	52	5		
25 [25M]	08ZBA	08ZEA	4.99	387	33	27	22	57	6	290	1000
28 [30M]	09ZBA	09ZEA	7.98	425	41	32	27	67	6		
32	10ZBA	10ZEA	9.75	486	43	37	29	70	7		
36 [35M]	11ZBA	11ZEA	12.2	546	45	39	31	75	8	470	1400
38	12ZBA	12ZEA	13.9	391	51	46	37	87	8		
40	13ZBA	13ZEA	13.9	391	52	44	38	87	8		
43 [45M]	14ZBA2	14ZEA2	16.9	457	59	44	38	95	10	470	1400
50	16ZBA	16ZEA	23.8	603	61	52	43	100	16		
57 [55M]	18ZBA	18ZEA	35.8	749	64	60	48	114	21		

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

ALL DIMENSIONS ARE APPROXIMATE

ZAP SCREWLOK® SL SERIES
UNCOATED & EPOXY

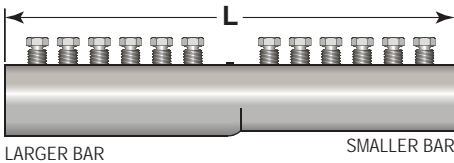


REBAR SIZE mm [CAN]	ZAP SL* PRODUCT CODE		COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
	BLACK	EPOXY		LENGTH 'L'	'A'	'B'	'C'	'X'			
[10M]	10M-SZBA	10M-SZEA	0.73	127	29	20	13	35	2	80	350
12	04SZBA	04SZEA	0.69	127	25	18	13	35	2		
16 [15M]	05SZBA	05SZEA	1.17	178	29	19	16	41	3		
20 [20M]	06SZBA	06SZEA	1.71	229	30	21	17	44	4	140	700
22	07SZBA	07SZEA	2.93	273	32	27	21	52	4		
25 [25M]	08SZBA	08SZEA	4.19	330	33	27	22	57	5		
28 [30M]	09SZBA	09SZEA	6.48	352	41	32	27	67	4	290	1000
32	10SZBA	10SZEA	8.30	419	43	37	29	70	5		
36 [35M]	11SZBA	11SZEA	10.8	486	45	39	31	75	6		
38	12SZBA	12SZEA	11.2	318	51	46	37	87	6	470	1400
40	13SZBA	13SZEA	11.2	318	52	44	38	87	6		
43 [45M]	14SZBA1	14SZEA1	14.5	391	59	44	38	95	8		
57 [55M]	18SZBA	18SZEA	28.6	597	64	60	48	114	16		

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

ALL DIMENSIONS ARE APPROXIMATE

ZAP SCREWLOK® TRANSITIONS

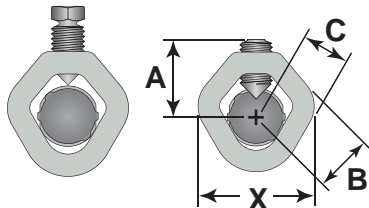


REBAR SIZE (mm/mm)	ZAP PRODUCT CODE TRANSITION*	COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
			LENGTH 'L'	'A'	'B'	'C'	'X'			
16/12	05/04ZBA	1.17	178	29	19	16	41	3	80	350
20/12	06/04ZBA	1.71	229	30	24	17	44	4		
20/16	06/05ZBA									
22/16	07/05ZBA	2.93	273	32	27	21	52	4	140	700
22/20	07/06ZBA									
25/16	08/05ZBA	4.19	330	33	27	22	57	5		
25/20	08/06ZBA									
25/22	08/07ZBA									
28/20	09/06ZBA	6.49	352	41	32	27	67	4	290	1000
28/22	09/07ZBA									
28/25	09/08ZBA									
32/22	10/07ZBA	8.3	419	43	37	29	70	5		
32/25	10/08ZBA									
32/28	10/09ZBA									
36/22	11/07ZBA	8.3	419	46	38	32	70	5		
36/25	11/08ZBA									
36/28	11/09ZBA									
36/32	11/10ZBA	10.8	486	45	39	31	75	6	470	1400
38/32	12/10ZBA	15.6	391	59	44	38	95	8		
40/32	13/10ZBA									
43/28	14/09ZBA									
43/32	14/10ZBA									
43/36	14/11ZBA	25.2	471	63	57	46	111	12		
57/36	18/11ZBA									
57/43	18/14ZBA									

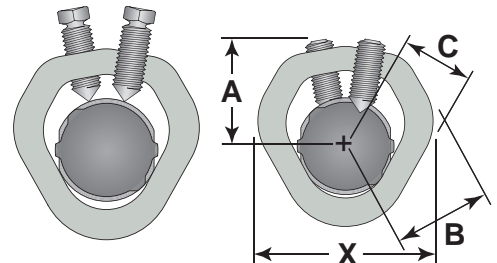
* EPOXY & GALVANIZED TRANS. ALSO AVAILABLE - SUBSTITUTE 'ZEA' OR 'ZGA' FOR 'ZBA' IN PART CODE.

ALL DIMENSIONS ARE APPROXIMATE

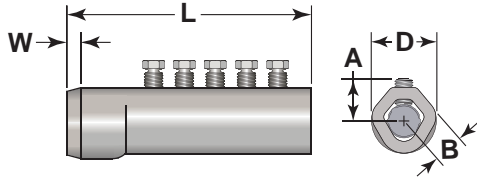
SINGLE ROW
ZAP SCREWLOK®
(SIZES #3 - #11)
BEFORE AND
AFTER ASSEMBLY



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



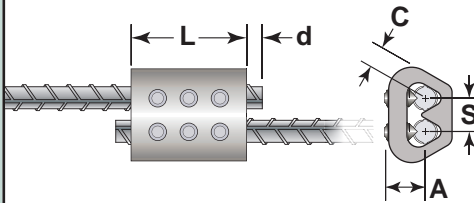
ZAP STRUCTURAL CONNECTOR



REBAR SIZE mm [CAN]	ZAP PRODUCT CODE STR. CONNECTOR	COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
			LENGTH 'L'	'A'	'B'	'D'	'W'			
[10M]	10M-SZSC	0.45	78	29	20	37	5	2	80	350
12	04SZSC	0.43	78	25	18	37	5	2		
16 [15M]	05SZSC	0.69	105	29	19	41	6	3		
20 [20M]	06SZSC	1.03	137	30	24	46	6	4	140	700
22	07SZSC	1.73	162	32	27	52	10	4		
25 [25M]	08SZSC	2.51	200	33	27	59	10	5		
28 [30M]	09SZSC	3.71	203	41	32	67	11	4	290	1000
32	10SZSC	4.71	241	43	37	71	13	5		
36 [35M]	11SZSC	6.17	283	45	39	75	14	6		
43 [45M]	14SZSC	8.96	248	59	44	95	17	8	470	1400
57 [55M]	18SZSC	18.1	392	64	57	114	22	16		

ALL DIMENSIONS ARE APPROXIMATE

DOUBLE BARREL ZAP SCREWLOK® UNCOATED & EPOXY

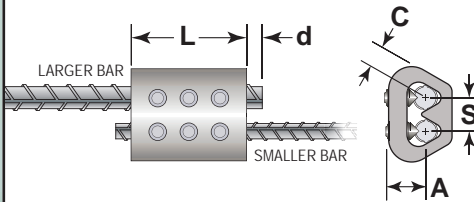


REBAR SIZE mm [CAN]	DOUBLE BARREL PRODUCT CODE *		COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
	BLACK	EPOXY		LENGTH 'L'	'A'	'C'	'S'	'd'			
10	03DBZA	03DBZEA	0.67	54	31	12	24	10	2	80	350
[10M]	10M-DBZA	10M-DBZEA	0.67	54	31	13	24	12	2		
12	04DBZA	04DBZEA	0.63	54	26	14	24	12	2		
16 [15M]	05DBZA	05DBZEA	0.98	76	29	16	24	16	3	140	700
20 [20M]	06DBZA	06DBZEA	1.39	98	30	19	24	20	4		
22	07DBZA	07DBZEA	3.07	137	33	22	35	22	4		
25 [25M]	08DBZA	08DBZEA	4.62	165	44	25	29	25	5		

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

ALL DIMENSIONS ARE APPROXIMATE

DOUBLE BARREL ZAP TRANSITIONS UNCOATED & EPOXY



REBAR SIZE (mm/mm)	DOUBLE BARREL PRODUCT CODE *		COUPLER WEIGHT (kg)	DIMENSIONS (mm)					NUMBER SCREWS PER BAR	AVERAGE SCREW TORQUE (Nm)	MIN. IMPACT WRENCH RATING (Nm)
	LARGER BAR	SMALLER BAR		TRANSITION	LENGTH 'L'	'A'	'C'	'S'			
12/10	04/03DBZA		0.65	54	26	14	24	12	2	80	350
16/12	05/04DBZA		1.00	76	29	16	24	16	3		
20/12	06/04DBZA		1.41	98	30	19	24	20	4		
20/16	06/05DBZA		3.11	137	33	22	35	22	4	140	700
22/16	07/05DBZA										
22/20	07/06DBZA										
25/22	08/07DBZA		4.67	165	44	25	29	25	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 Ø10 through 57 mm, and mechanical lap splices are available for bar sizes Ø10 through 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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