BarSpli •

INCH-POUND UNITS



	Z	AP S	CRE	EWL	OK	[®] FX	SE	RIE:	s sf	PLIC	ES
	SHI	EAR SCRE	EW AND NGTH, FU Grade 100	WEDGE	MECHAI IANICAL ASTM A6	NICAL S SPLICE - 15 or AST	PLICE C -Exceeds 1 M A706 G	25% x spe rade 80 b	IG SLEE cified yield (ar.	VE fy)strength #19	ofuncoated
	• / • / • /	NEW CONS DUAL CER Dars ranging	TRUCTION TIFIED RE	I, RENOV INFORCI 75 to Gra	ATION OR EMENT B ade 100.	REPAIR · BARS – Ac	- Suited for ceptable for	butt-splici butt-splici or use on A	ng of bars n ASTM A103	ew-to-new o 5 or A615 [or new-to-old. Dual certified
	• <u>I</u> • (EPOXY CO CONVENIE hread cutting	ATED BAI NCE – Fiel I – Easy vis	RS – Capa d installed ual inspect	city to exce – No spec tion. For ba	ed 125% x ialized ins ar sizes #4	fy, Grade 8 tallation ec - #18 (Ø	30 epoxy c Juipment – 13 – 57 m	oated ASTI · No specia m) [10M – 5	M A775 bar, I bar end pi 5M].	sizes #4 - #14. reparation or
	Z	AP S	CRE	EWL	OK	[®] FX	TR	ANS	SITIC	ONS	
1111 00000 00000 Filli	SHI • / • / • / • / • / • / • / • /	EAR SCRE PURPOSE - APPLICATION (Se buildings - ebar in retrof SIMPLE DE eamless sha FULL MECH (STM A1035	EW AND I - For butt-sp ONS – Mar - or for conn it or repair SIGN – Or aped tubing HANICAL Grades 10	WEDGE blicing bars ny vertical a lecting diffe situations. ne piece de with no we SPLICE – 0 bar, and	MECHAI s of differer application rent types of evice with of elds – Inclu Capacity t ASTM A61	NICAL S nt sizes, or s such as of reinforcin converging udes center o exceed 1 15 or ASTN	PLICE C for connec columns, v ng bars (i.e g sides for r stop. 125% x spe A A706 Gra	COUPLIN eting bars of valls, piers smooth bar wedging of ecified yield ade 80 bar	IG SLEE of different of , caissons, ar, threaded of different I d (fy) of the	VE configuratio parking gal rod, etc) to par sizes – smaller siz	ns or shape. rages, high standard Made from e uncoated
ZAP SCREWLOK [®] FX SERIES	REBAR	PRODUCT	COUPLER		DIN	MENSIONS	(in)		NUMBER	AVERAGE	MIN.IMPACT
	SIZE US [Metric]	CODE*	WEIGHT	LENGTH	`A′	`В′	`C′	`X′	PER BAR	TORQUE (ft-lbs)	RATING (ft-lbs)
	#4 [13]	04ZEXA	2.19	7	1 ¹ /16	11/16	1/2	1 3/8	3	(11 100)	(11 100)
	#5 [16]	05ZFXA	3.38	9	1 1/8	3/4	5/8	1 5/8	4	60	250
	#6 [19]	06ZFXA	4.68	11	1 ³ /16	^{15/} 16	¹¹ /16	1 3/4	5	1	
	#7 [22]	07ZFXA	7.85	13	1 1/4	1 ¹ / ₁₆	¹³ /16	2 ¹ / ₁₆	5	405	
	#8 [25]	08ZFXA	11.0	15 1/4	1 ⁵ /16	1 ¹ / ₁₆	7/8	2 1/4	6	105	500
	#9 [29]	09ZFXA	17.6	16 ³ /4	1 ⁵ /8	1 1/4	1 ¹ / ₁₆	2 ⁵ /8	6		
	#10 [32]	10ZFXA	21.5	19 1/ ₈	1 ¹¹ /16	1 ⁷ /16	1 1/8	2 3/4	7	215	750
	#11 [36]	11ZFXA	27	21 1/2	1 ³ /4	1 ¹ / ₂	1 1/4	2 ¹⁵ / ₁₆	8		
	#14 [43]	14ZFXA	42	20 1/8	2 ⁵ /16	1 ³ /4	1 ¹ / ₂	3 ³ /4	12	350	1000
	#18 [57]	18ZFXA*	79	29 1/2	2 1/2	2 1/ ₄	1 ¹³ /16	4 ³ /8	21		1000
ZAP SCREWLOK® FX TRANSITIONS	REBAR	PRODUCT	COUPLER		DIN	MENSIONS (in) NUMBER			AVERAGE MIN.IM	MIN. IMPACT	
	SIZE US [Metric]	CODE* FX SERIES	WEIGHT (lb)	LENGTH `L'	`A'	`В′	°C′	`X′	SCREWS PER BAR	TORQUE (ft-lbs)	RATING (ft-lbs)
	5/4	05/04ZFXA	2.59	7	11/8	3/4	5/8	1 ⁵ /8	3	<u> </u>	050
	6/4 6/5 7/5	06/04ZFXA 06/05ZFXA	3.78	9	1 ³ / ₁₆	¹⁵ /16	¹¹ /16	1 3/4	4	60 250	250
	7/6	07/06ZFXA	6.47	10 ³ /4	1 1/4	1 ¹ /16	^{13/} 16	2 ¹ /16	4	105	500
	8/5 8/6 8/7	08/05ZFXA 08/06ZFXA 08/07ZFXA	9.24	13	1 ⁵ / ₁₆	1 1/16	7/8	2 ¹ /4	5		
	9/6 9/7 9/8	09/06ZFXA 09/07ZFXA 09/08ZFXA	14.3	13 7 _{/8}	1 ⁵ /8	1 1/4	1 ¹ / ₁₆	2 ⁵ /8	4		
	10/7 10/8 10/9	10/072FXA 10/08ZFXA 10/09ZFXA	18.3	16 ¹ /2	1 ¹¹ /16	1 7/ ₁₆	1 ³ /16	2 ³ /4	5	215	750
	11/7	11/072FXA 11/08ZFXA	18.3	16 ¹ / ₂	1 ¹³ /16	1 1/2	1 1/4	2 ³ / ₄	5		
	11/9 11/10	11/09ZFXA 11/10ZFXA	23.7	19 1 _{/8}	1 ³ /4	1 ³ /8	1 1/4	2 ¹⁵ /16	6		
	14/10	14/10ZFXA	32	15 ³ /8	2 ³ /8	1 7/8	1 1/2	3 3/4	8		
	14/11	14/11ZFXA	37	18	21/2	1 ³ / ₄	1 ⁹ /16	3 3/4	10	350	1000
	18/11	18/11ZFXA	56	18 9/16	2 0/8	21/2	1 3/4	4 1/2	12		
	10/14				∠ 1/2			4 1/2	01		

18ZFXA FOR USE ON A1035 GRADE 100 ONLY.

SINGLE ROW ZAP SCREWLOK® FX (SIZES #4 - #11) BEFORE AND AFTER ASSEMBLY



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





ZAP SCREWLOK[®] FX SERIES MECHANICAL SPLICES FOR GRADE 100 REINFORCING BAR

ZAP SCREWLOK® FX mechanical splices are strength-based devices compatible with ASTM A1035 Grade 100 reinforcing bars as well as ASTM A615 Grade 80 and ASTM A706 Grade 80 bars.

 The ZAP SCREWLOK[®] FX mechanical splice is a positive tension and compression splice system whose strength is independent of the concrete that surrounds it, thereby providing true structural continuity.

BarSplice

- Each coupler consists of smooth, specially formed, steel sleeves with converging sides. A series of cone-pointed hex-head shear screws with specially hardened tips are arranged along the longitudinal axis in one or two rows depending on the bar size. Reinforcing bars are easily inserted from each side, stopping at the correct insertion amount by a center stop pin.
- Specially designed and hardened shear screws are used that snap off at a prescribed torque ensuring full interlock of the bar.
- As the shear screws are tightened during assembly, they embed themselves into the rebar surface, and force the rebar deformations into the specially designed wedge. This DUAL mechanical interlocking action results in a full, positive connection for transferring tension or compression forces from bar to bar.
- No special bar-end preparation is required reinforcement can be sheared, saw-cut or flame-cut. To preserve linear alignment, reinforcing bars should have straight ends and be secured in the desired position at time of assembly.



- When a splice is required between fixed points, or the rebar cannot be moved easily, 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.
- Ideal in remote areas with limited access since no specialized equipment is required, minimal clearance is needed, they have a positive center stop, and proper installation can be determined from a simple visual inspection.
- ZAP SCREWLOK[®] FX mechanical splices are suitable for new construction, retrofit applications or repair situations such as field splicing of column steel, beam reinforcement, concrete piles, structural rehab projects, retrofit strengthening/upgrading, bridge decks, highway patch/repair projects and closure pours.



HOW TO SPECIFY ZAP SCREWLOK® FX SPLICES

		By Name:	By Generic Description:			
BAR-TO- Mechanic	BAR al butt splice	Zap Screwlok [®] FX Series** by Barsplice Products, Inc., Dayton OH	Mechanical butt splices shall be the tension-compression shear screw and wedge coupling sleeve type, with smooth converging sides and cone-pointed hex-head screws, to develop at least 1.25 x fy of [state bar grade required] reinforcement bar.			
** Include bar size(s), bar type and bar grade. Include statement: "Parts shall be manufactured to the guality requirements of ISO 9001."						

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 explain step-by-step installation and safety information.

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