# Flexco<sup>®</sup> Bolt Solid Plate Fastening System

## The Cement Industry Standard for Strong, Long-Lasting Splices

Downtime can cost a cement plant as much as \$25,000 an hour, so operators need to replace belts and get damaged belts up and running as quickly as possible. Flexco® Bolt Solid Plate fasteners are engineered to meet the demands of the toughest material handling applications, providing a strong, sift-free splice with superior holding ability. A choice of sizes accommodates belts from 5 mm (3/16") to over 24 mm (15/16") thick.



Exclusive Piloted Bolts: Tapered tips that cradle nuts securely in place. Reduce installation time. Easy to use.

Selectio	ection Guide						
Fastener Size		ickness nge	Mech Fastenei	ts with anical <sup>.</sup> Ratings To:	Minimum Pulley		
	mm	in.	kN/m	P.I.W.	mm	in.	
1	5 - 11	3/16 - 7/16	30	150	300	12	
140, 140VP	5 - 11	3/16 - 7/16	40	225	360	14	
190, 190VP	8 - 14	5/16 - 9/16	65	375	460	18	
1-1/2	11 - 17	7/16 - 11/16	50	300	460	18	
2, 2VP	14 - 21	9/16 - 13/16	75	440	760	30	
2*	8 - 32	15/16 - 1-1/4	123	700	510	20	
2-1/4	14 - 30	9/16 - 1-3/16	105	620	920	36	
2-1/2	19 - 25	3/4 - 1	75	450	1070	42	
3	24 & over	15/16 & over	100	560	1220	48	

\* When used with  $No.\,3\,Lead$  Wedlok  $^{\otimes}$  pattern, belts over 7/8" (22 mm) require extra long No. 2-1/4 bolts



### High strength.

High strength is the result of superior design and plate compression on both the top and bottom sides of the belt. High tensile strength bolts compress top and bottom plates to distribute splice tension evenly across the entire width of each fastener plate. For added strength and pullout resistance, specially formed teeth penetrate deep into the belt carcass – without damaging carcass fibers.

### Easy installation.

Field-proven templets, punches, and boring tools make it easy to quickly and accurately prepare belts for fastener installation. Fasteners are easily installed on-site using portable hand tools or power tools. Our exclusive piloted bolts also contribute to faster installation.



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## **Fasteners**

Each Quick-Fit "E" box contains 25 complete fastener sets. A set consists of a top plate, a bottom plate, two nuts, and two bolts.

Steel	Stainless – 300 Series	MegAlloy® Top Plates Balance Steel	MegAlloy <sup>®</sup> Top & Bottom Plates, Steel, Bolts & Nuts	Everdur
	"	E" Box (25 Faste	ner Sets)	
1E				
140E	140ES	140EMA	140EMAP	140EE
190E	190ES	190EMA	190EMAP	190EE
1-1/2E	1-1/2ES	1-1/2EMA	1-1/2EMAP	1-1/2EE
2E	2ES	2EMA	2EMAP	2EE
2-1/4E	2-1/4ES	2-1/4EMA	2-1/4EMAP	2-1/4EE
2-1/2*				
3*				
"C"	Bucket (100 Fast	tener Sets – Bott	om Plates Pre-Asse	embeled)
1C		ICMA		
140C		140CMA	140CMAP	140CE
190C		190CMA	190CMAP	190CE
1-1/2C		1-1/2CMA	1-1/2CMAP	
2C		2CMA	2CMAP	
2- 1/4C		2-1/4CMA		
2-1/2C**				
3**				



Flexco® V	P™ Faste	ners						
	overed Top lance Steel				red Top Plates Bottom Plates			
Ordering Number	Plates Per Strip	Strips Per Box	Ordering Number	Plates Per Strip	Strips Per Box			
	Box*			Box*				
140VP	6	5	140VPMA	6	5			
190VP	6	5	190VPMA	6	5			
2VP	4	6						
	Bucket			Bucket				
140VPB	6	16	140VPBMA	6	16			
190VPB	6	16	190VPBMA	6	16			
2VPB	4	24						

\* Box quantities provide enough fasteners to splice a 36" (900 mm) belt

Belt	Width			er Size & 190			Fastener Size 1-1/2, 2 & 2-1/4			Fastener Size 2-1/2 & 3			
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
		9(	)°	4	ō°	90°		4	5°	91	0°	4	5°
300	12	9	10	12	12	8	8	10	9	6	6	7	7
450	18	14	15	19	19	11	12	15	15	9	9	12	12
600	24	19	20	26	26	15	16	21	21	13	12	16	17
750	30	24	25	33	33	19	20	27	27	16	16	21	21
900	36	29	30	40	41	23	24	32	33	19	19	26	26
1000		32		45		26		36		21		29	
1050	42	34	35	47	48	27	28	38	39	21	22	30	31
1200	48	39	40	54	55	31	32	43	44	26	26	35	35
1350	54	44	45	61	63	35	36	49	48	29	29	40	40
1500	60	49	50	68	69	39	40	55	56	32	32	44	44
1800	72	59	61	82	83	49	48	65	68	39	39	53	53

 $\ensuremath{\textbf{NOTE}}\xspace$  Required fastener sets may vary from those listed depending on exact fastener size

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## **Installation Tools**

### 90° and 45° Templets

Templets are required for 90° and 45° Bolt Solid Plate fastener installation. Templets simplify installation by providing a guide for accurate bolt-hole placement. Lengths for all standard belt widths are available.

Orde	ring l	nformat	ion							
Be Wie		Ordering Number								
mm	in.	1	140	190	1-1/2	2	2-1/4	2-1/2	3	
				90	° Templets					
300	12	1-12	140-12	190-12	1-1/2-12	2-12				
450	18	1-18	140-18	190-18	1-1/2-18	2-18				
600	24	1-24	140-24	190-24	1-1/2-24	2-24	2-1/4-24	2-1/2-24		
750	30	1-30	140-30	190-30	1-1/2-30	2-30	2-1/4-30	2-1/2-30		
900	36	1-36	140-36	190-36	1-1/2-36	2-36	2-1/4-36	2-1/2-36	3-36	
1050	42	1-42	140-42	190-42	1-1/2-42	2-42	2-1/4-42	2-1/2-42	3-42	
1200	48	1-48	140-48	190-48	1-1/2-48	2-48	2-1/4-48	2-1/2-48	3-48	
1350	54				1-1/2-54	2-54	2-1/4-54	2-1/2-54		
1500	60			190-60	1-1/2-60	2-60	2-1/4-60	2-1/2-60	3-60	
1800	72				1-1/2-72	2-72	2-1/4-72	2-1/2-72	3-72	
				45	° Templets					
300	12	1-12-45								
450	18	1-18-45		190-18-45	1-1/2-18-45					
600	24	1-24-45	140-24-45	190-24-45	1-1/2-24-45	2-24-45				
750	30	1-30-45	140-30-45	190-30-45	1-1/2-30-45	2-30-45				
900	36	1-36-45	140-36-45	190-36-45	1-1/2-36-45	2-36-45				
1050	42		140-42-45	190-42-45	1-1/2-42-45	2-42-45				
1200	48	1-48-45	140-48-45	190-48-45	1-1/2-48-45					
1500	60		140-60-45	190-60-45	1-1/2-60-45	2-60-45				



### **Rip Repair**

Use standard Flexco<sup>®</sup> Solid Plate fasteners to repair conveyor belt holes and edge tears. For jagged length-wise conveyor belt tears, standard Bolt Solid Plate fasteners can be combined with three-bolt Rip Repair fasteners. Three-bolt Rip Repair fasteners can also be used to bridge "soft" spots in the belt before they become rips.



Rip Repa	Rip Repair Selection Information						
Belt Th	ickness	Tustonor					
mm	in.	Size					
10-14	3/8-9/16	No. 16					
6-13	1/4-1/2	RP1					
10-21	3/8-13/16	RP2					
14-30	9/16-1-3/16	2-1/4					



Ordering Information						
Ordering Number	Box Qty.					
Steel						
RP1E	25					
RP1C	100					
RP2E	25					
RP2C	100					
2-1/4E	25					
2-1/4C	100					
Stainless						
RP1ES	25					
RP2ES	25					
2-1/4ES	25					
Everdur®						
2-1/4EE	25					
Turtle <sup>®</sup> Fastene	r-Steel					
16	50					





Hand installation tools



Power installation tools



Bolt Breaker



Flexco-Lok® Tape



Cracking Chisel

### FLEXCO<sup>®</sup> BOLT SOLID PLATE Fastening System

#### Installation Tools and Supplies

The only tools needed for Bolt Solid Plate fastener installation are a templet and portable hand or power tools such as wrenches and belt punches. Impact wrench driven power tools are recommended and can reduce installation time by at least 50%.

#### Flexco-Lok® Tape

Rigid nylon tape helps eliminate belt ripples on plied or solid-woven belting so belts run smoothly over pulleys and under cleaners. Also helps seal splices against seepage of fines and moisture.

#### **Cracking Chisel**

With a hammer and cracking chisel, individual worn plates can be easily replaced – without resorting to replacement of the entire splice.



Silicone Lubricant Spray

Description	Fastener Number	Ordering Number
Н	and Installation Tools	
Bolt Horn		2BH
	1, 140, 190, RP1	P1P
Punch	1-1/2, 2, 2-1/4, RP2	P2P
	2-1/2, 3	P3P
	1, 140, 190, RP1	B1B
Boring Bit	1-1/2, 2, 2-1/4, RP2	B2B
	2-1/2, 3	B3B
	1, 140, 190, RP1	\$1\$**
Wrench	1-1/2, 2, 2-1/4, RP2	\$2S
	2-1/2, 3	\$3\$
Pc	ower Installation Tools	
	1, 140, 190, RP1	HP1
Power Punch	1-1/2, 2, 2-1/4, RP2	HP2
	2-1/2, 3	HP3
	1, 140, 190, RP1	HB1
Power Boring Bit	1-1/2, 2, 2-1/4, RP2	HB2
	2-1/2, 3	HB3
	1, 140, 190, RP1	HW1**
Power Wrench	1-1/2, 2, 2-1/4, RP2	HW2
	2-1/2, 3	HW3
Quick Change Chuck		5552
	Bolt Breaker	<u>,</u>
	1, 140, 190, RP1	110
Bolt Breaker (Two Per Package)	1-1/2, 2, 2-1/4, RP2	112*
(into i oi i donago)	2-1/2, 3	113*
Flexco-	Lok® Tape (100' per ca	arton)
	1, 140	FL7C
	190, 1-1/2, 2, 2-1/4	FL11C
	Cracking Chisel	
	1, 140, 190	C1C
	1-1/2, 2, 2-1/4	C2C
	2-1/2, 3	C3C
Flex	kco® Silicone Lubricar	nt
Silicone Lubricant Spr	ау	SL5-1

\* Sizes 112 and 113 are straight bolt breakers—no bend \*\* For use with slotted nuts only

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