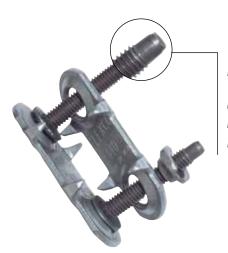
FLEXCO® BOLT SOLID PLATE Fastening System

The Industry Standard for Strong, Long-Lasting Splices

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.

Selection Guide								
Fastener Size		nickness inge	Mech Fastener	ts with anical Ratings To:	Minimum Pulley Diameter			
	mm	in.	kN/m	kN/m P. I.W.		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® pattern, belts over 22 mm (7/8") 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 pull-out 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.

Market applications.

- Sand Gravel Crushed Stone Grain
- Coal Cement Salt



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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.

Ordering Information								
Steel	Stainless— 300 Series	MegAlloy® Top Plates Balance Steel	MegAlloy® Top & Bottom Plates, Steel, Bolts & Nuts					
"E" Box (25 Fastener Sets)								
1E								
140E	140ES	140EMA	140EMAP					
190E	190ES	190EMA	190EMAP					
1-1/2E	1-1/2ES	1-1/2EMA	1-1/2EMAP					
2E	2ES	2EMA	2EMAP					
2-1/4E	2-1/4ES	2-1/4EMA	2-1/4EMAP					
2-1/2*								
3*								
"C" Bucke	t (100 Fastener	Sets – Bottom Plate	s Pre-Assembeled)					
1C		ICMA						
140C		140CMA	140CMAP					
190C		190CMA	190CMAP					
1-1/2C		1-1/2CMA	1-1/2CMAP					
2C		2CMA	2CMAP					
2- 1/4C		2-1/4CMA						
2-1/2C**								
3**								

* 10 fastener sets
** Packaged in cartons
NOTE: Additional fastener metal selections are available



Flexco® VP™ Fasteners								
	overed Top lance Steel			Rubber Covered Top Plates MegAlloy® Bottom Plates				
Ordering Number	Plates Per Strip	Strips Per Box				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	ĺ	140VPBMA	6	16		
190VPB	6	16		190VPBMA	6	16		
2VPB	4	24						

 $^{^{\}star}$ Box quantities provide enough fasteners to splice a 900 mm (36") belt

Fastene	Fasteners Sets Required in a Complete Joint												
Belt \	Nidth	Fastener Size 1, 140, & 190			Fastener Size 1-1/2, 2 & 2-1/4			Fastener Size 2-1/2 & 3					
mm	in.	mm	in.	mm	in.	mm	mm in. mm in.		mm	in.	mm	in.	
		9()°	4	45°		90°		45°		0°	45°	
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

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

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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.

Ordering Information										
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® 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 Repair Selection Information							
Belt Th	ickness	Fastener Size					
mm	in.						
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® Fastener–Steel								
16	50							



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Hand installation tools



Power installation tools



Bolt Breaker



Flexco-Lok® Tape



Cracking Chisel

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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

Ordering Information									
Description	Ordering Number								
Hand 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	S1S**							
Wrench	1-1/2, 2, 2-1/4, RP2	S2S							
	2-1/2, 3	S3S							
Pov	ver 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								
	1, 140, 190, RP1	110							
Bolt Breaker (Two Per Package)	1-1/2, 2, 2-1/4, RP2	112*							
(er er a enage,	2-1/2, 3	113*							
Flexco-L	ok® Tape (100' per ca	irton)							
	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							
Flexco® Silicone Lubricant									
Silicone Lubricant Spray SL5-1									

^{*} Sizes 112 and 113 are straight bolt breakers—no bend

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Visit www.flexco.com for other Flexco locations and products.

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^{**} For use with slotted nuts only