



How Flexco® Bolt Solid Plate Fasteners Work

Strength of this fastener is derived from the compression of the plates, mounted above and below the belt, with high tensile strength bolts. This "compression" distributes the splice tension across the full width of each fastener plate. The holding ability is, thereby, increased by not solely relying upon the bolts to resist pull-out.

Additional strength and resistance to pull-out is obtained from the specially formed teeth on each plate. These teeth imbed deep into the belt carcass, without damaging the carcass fibers.

A tight butt splice is achieved through the exaggerated bolt hole spacing in the templet which forces the belt end together. Flexco® Bolt Solid Plate Fasteners permit natural conformance with troughing or transition idlers.

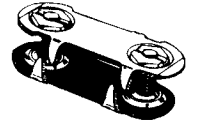
140, 190 and 2-1/2 size fasteners are specifically designed for thinner belting, allowing increased compression, greater reach-back, and more fastener plates per belt width.

Applications	Installation Method	What You Need for Installation
Higher-tension main haulage belts in <ul style="list-style-type: none"> • Coal • Hard-Rock Mining • Foundries • Grain Elevators • Aggregate Plants • Steel Mills 	Holes are punched in belt quickly and accurately with a templet and boring tool. Fasteners are installed on-site with portable, hand, or power tools.	<ul style="list-style-type: none"> • Fastener Plates • Bolts & Nuts • Templet • Belt Punch • Wrench • Bolt Horn • Flexco Installation Tool • Impact Tool or Carpenter's Brace
How to Specify the Correct Flexco® Bolt Solid Plate Fastener	Fastener Metal Selection	Hinge Pin Selection
<ol style="list-style-type: none"> 1. Determine Belt Tension (PIW). 2. Measure your Belt Thickness. 3. Measure the Diameter of the Smallest Pulley in your Drive with Belt Wrap more than 90°. 4. Choose the fastener size that is appropriate for your specifications in the selection chart below. 	<p>Steel. For most applications, steel is recommended.</p> <p>MegAlloy®. For superior resistance to wear and abrasion.</p> <p>Stainless Steel. Type 316 Stainless Steel provides extra resistance to abrasion, magnetic attraction and corrosion from acids and chemicals.</p> <p>Everdur®. Spark-free material compared to steel and fully non-magnetic.</p> <p>Flexco®VP™. Rubber covered steel top plates.</p> <p>Promal. For superior abrasion resistance. Some minor chemical and corrosion resistance.</p>	No Hinge Pin Required.

Flexco® Bolt Solid Plate Fastener Selection Chart

Fastener Size	For Belts With Mechanical Fastener Ratings Up To:		Belt Thickness Range		Recommended Min. Pulley Diameter (90°)					
					Operating Tension 75-100% of Belt Rating		Operating Tension 50-75% of Belt Rating		Operating Tension Under 50% of Belt Rating	
	P.I.W.	kN/m	in.	mm	in.	mm	in.	mm	in.	mm
1	150	30	3/16-7/16	5-11	12	300	10	260	8	200
140*, 140VP	225	40	3/16-7/16	5-11	14	360	12	300	10	250
190, 190VP	375	65	5/16-9/16	8-14	18	460	16	410	14	360
1-1/2	300	50	7/16-11/16	11-17	18	460	16	410	14	360
2, 2VP	440	75	9/16-13/16	14-21	30	760	28	710	24	610
2-1/4	620	105	9/16-1-3/16	14-30	36	920	34	860	34	860
2-1/2	450	75	3/4-1	19-25	42	1070	42	1070	42	1070
3	560	100	15-16 & over	24 & over	48	1220	48	1220	48	1220

Flexco® Bolt Solid Plate Fasteners



FASTENERS

Exclusive Piloted Bolt Design Simplifies Installation:

The new piloted bolt is currently being phased in to replace standard bolt designs.
To order the new piloted bolts as they become available, use standard bolt ordering numbers.

"E" BOX 25 FASTENER SETS

ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	WT. LBS.
STEEL		MEGALLOY® TOP & BOTTOM PLATES, STEEL BOLTS & NUTS		STAINLESS – 300 SERIES		EVERDUR		
1E	20002	140EMAP	20364	140ES	20034	140EE	20090	2.9
140E	20000	190EMAP	20365	190ES	20035	190EE	20091	4.6
190E	20001							4.8
1-1/2E	20004	1-1/2EMAP	20366	1-1/2ES	20038	1-1/2EE	20094	5.9
2E	20005	2EMAP	20367	2ES	20039	2EE	20095	8.0
2-1/4E	20006	2-1/4EMAP	20368	2-1/4ES	20040	2-1/4EE	20096	10.8
2-1/2*	20007							6.4
3*	20008							7.0

*10 Fastener Sets

"E" BOX 25 FASTENER SETS

ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	WT. LBS.
PROMAL TOP PLATES BALANCE STEEL		MEGALLOY® TOP PLATES BALANCE STEEL		300 SERIES STAINLESS TOP PLATES, BALANCE STEEL		1/8" RUBBER-COVERED T.P. BALANCE STEEL		
140EP	20164	140EMA	20330	140EST	20118			
1-1/2EP	20168	190EMA	20331	190EST	20119			
2EP	20169	1-1/2EMA	20334	1-1/2EST	20122			
		2EMA	20335	2EST	20123			
		2-1/4EMA	20336	2-1/4EST	20124	2-1/4ERCT	20191	10.3

"C" BUCKET (100 FASTENER SETS – BOTTOM PLATES PRE-ASSEMBLED)

ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	WT. LBS.
STEEL		MEGALLOY® TOP PLATES BALANCE STEEL		MEGALLOY® TOP & BOTTOM PLATES, STEEL BOLTS & NUTS		
1C	20014	1CMA	20327	140CMAP	20370	10.9
140C	20012	140CMA	20340	190CMAP	20371	15.7
190C	20013	190CMA	20341	1-1/2CMAP	20372	21.9
1-1/2C	20016	1-1/2CMA	20344	2CMAP	20373	30.3
2C	20017	2CMA	20345			42.3
2-1/4C	20018	2-1/4CMA	20346			32.0
2-1/2L*	20052					34.9
3L*	20053					

*L Buckets are in quantities of 50.

NOTE: Stainless and Everdur fastener sets are also available in "C" Buckets.

FASTENER SETS

REQUIRED FOR VARIOUS BELT WIDTHS

BELT WIDTH	FASTENER SIZE 1, 140 & 190				FASTENER SIZE 1-1/2, 2 & 2-1/4				FASTENER SIZE 2-1/2 & 3				
	90°		45°		90°		45°		90°		45°		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
12	300	10	9	12	12	8	7	10	9	6	6	7	7
18	450	15	14	20	19	12	11	15	15	9	9	11	11
24	600	20	19	27	26	16	16	21	21	12	12	16	16
30	750	25	24	34	33	20	20	27	27	16	15	21	20
36	900	30	29	41	41	24	24	33	32	19	19	25	25
	1000		33		45		26		36		21		28
42	1050	35	34	48	48	28	28	39	38	22	22	30	29
48	1200	40	39	56	55	32	32	44	44	26	25	35	34
54	1350	45	44	63	62	36	36	50	49	29	28	39	39
60	1500	50	50	70	69	40	40	56	55	32	32	44	43
72	1800	61	60	85	83	49	48	68	67	39	38	53	52

NOTE: Required fastener sets may vary from those listed depending on exact fastener size.

FLEXCO® VP™ FASTENERS

RUBBER COVERED TOP PLATES BALANCE STEEL				RUBBER COVERED TOP PLATES MEGALLOY® BOTTOM PLATES			
BOX*				BOX*			
ORDERING NUMBER	ITEM CODE	PLATES PER STRIP	STRIPS PER BOX	ORDERING NUMBER	ITEM CODE	PLATES PER STRIP	STRIPS PER BOX
140VP	20057	6	5	140VPMA	20081	6	5
190VP	20056	6	5	190VPMA	20060	6	5
2VP	20058	4	6				
BUCKET				BUCKET			
140VPB	20061	6	16	140VPBMA	20082	6	16
190VPB	20059	6	16	190VPBMA	20080	6	16
2VPB	20083	4	24				

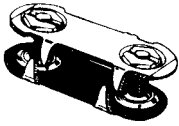
*Box quantities provide enough fasteners to splice a 36" (900 mm) belt.



Stock Items (non-shaded) carried in factory inventory.

Made To Order Items (shaded) allow one week for production. In most cases, the next standard stock item can be adapted to meet your requirements.

Non-Listed Items are available. Request quote for price and delivery.



Flexco® Bolt Solid Plate Fasteners

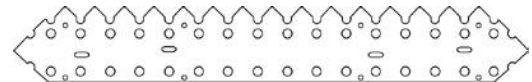
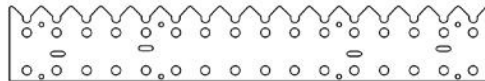
INSTALLATION TOOLS


90° TEMPLETS


BELT WIDTH		ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	WT. LBS.
in.	mm	1		140		190		
12"	300	1-12	30516	140-12	30483	190-12	30500	1.3
14"	350	1-14	30517	140-14	30484	190-14	30501	1.5
16"	400	1-16	30518	140-16	30485	190-16	30502	1.7
18"	450	1-18	30519	140-18	30486	190-18	30503	1.9
20"	500	1-20	30520	140-20	30487	190-20	30504	2.1
24"	600	1-24	30521	140-24	30488	190-24	30505	2.6
26"	650					190-26	30506	2.6
28"	700					190-28	30507	3.0
30"	750	1-30	30524	140-30	30491	190-30	30508	3.3
36"	900	1-36	30525	140-36	30492	190-36	30509	3.9
42"	1050	1-42	30526	140-42	30493	190-42	30510	4.5
48"	1200	1-48	30527	140-48	30494	190-48	30511	4.8
60"	1500					190-60	30513	5.9
				1-1/2		2		
12"	300			1-1/2-12	30548	2-12	30564	1.2
18"	450			1-1/2-18	30551	2-18	30567	1.9
20"	500			1-1/2-20	30552			1.8
24"	600			1-1/2-24	30553	2-24	30569	2.5
30"	750			1-1/2-30	30556	2-30	30572	3.1
36"	900			1-1/2-36	30557	2-36	30573	3.8
42"	1050			1-1/2-42	30558	2-42	30574	4.4
48"	1200			1-1/2-48	30559	2-48	30575	5.2
54"	1350			1-1/2-54	30560	2-54	30576	5.6
60"	1500			1-1/2-60	30561	2-60	30577	6.6
72"	1800			1-1/2-72	30562	2-72	30578	7.2
2-1/4				2-1/2		3		
20"	500			2-1/2-20	30600			2.9
24"	600	2-1/4-24	30585	2-1/2-24	30601			3.5
30"	750	2-1/4-30	30588	2-1/2-30	30604			4.4
36"	900	2-1/4-36	30589	2-1/2-36	30605	3-36	30620	5.3
42"	1050	2-1/4-42	30590	2-1/2-42	30606	3-42	30621	6.2
48"	1200	2-1/4-48	30591	2-1/2-48	30607	3-48	30622	7.1
54"	1350	2-1/4-54	30592	2-1/2-54	30608			7.9
60"	1500	2-1/4-60	30593	2-1/2-60	30609	3-60	30624	8.8
72"	1800	2-1/4-72	30594	2-1/2-72	30610	3-72	30625	10.6

45° TEMPLETS

ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	ORDERING NUMBER	ITEM CODE	WT. LBS.
1		140		190		
1-12-45	30673					1.1
1-18-45	30676			190-18-45	30661	2.3
1-24-45	30678	140-24-45	30647	190-24-45	30663	3.0
1-30-45	30681	140-30-45	30650	190-30-45	30666	3.7
1-36-45	30682	140-36-45	30651	190-36-45	30667	4.5
1-48-45	30684	140-42-45	30652	190-42-45	30668	5.2
		140-48-45	30653	190-48-45	30669	6.0
		140-60-45	30655	190-60-45	30671	7.5
		1-1/2		2		
		1-1/2-18-45	30707			2.0
		1-1/2-24-45	30709	2-24-45	30725	3.0
		1-1/2-30-45	30712	2-30-45	30728	3.7
		1-1/2-36-45	30713	2-36-45	30729	5.3
		1-1/2-42-45	30714	2-42-45	30730	5.2
		1-1/2-48-45	30715			6.0
		1-1/2-60-45	30717	2-60-45	30733	7.5

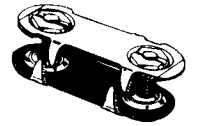


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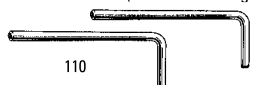
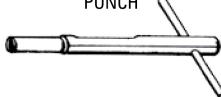



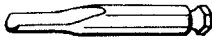
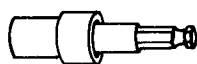

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Flexco® Bolt Solid Plate Fasteners



INSTALLATION TOOLS

HAND & POWER TOOLS

	DESCRIPTION	FOR FASTENER NUMBER	ORDERING NUMBER	ITEM CODE	WT. LBS.	
HAND TOOLS	BOLT HORN 		2BH	30480	.1	
	BOLT BREAKER (Two Per Package) 		1,140,190 & RP1	110	30474	1.2
			1½, 2, 2¼ & RP2	112*	30475	1.4
			2½ & 3	113*	30479	2.0
	PUNCH 		1,140,190 & RP1	P1P	30460	.1
			1½, 2, 2¼ & RP2	P2P	30461	.2
		2½ & 3	P3P	30462	.3	
BORING BIT 		1,140,190 & RP1	B1B	30468	.1	
		1½, 2, 2¼ & RP2	B2B	30469	.1	
		2½ & 3	B3B	30470	.1	
WRENCH 		1,140,190 & RP1	S1S**	30442	.2	
		1½, 2, 2¼ & RP2	S2S	30443	.2	
		2½ & 3	S3S	30444	.2	
POWER TOOLS	POWER PUNCH 		1,140,190 & RP1	HP1	30463	.2
			1½, 2, 2¼ & RP2	HP2	30464	.2
			2½ & 3	HP3	30465	.2
	POWER BORING BIT 		1,140,190 & RP1	HB1	30471	.1
			1½, 2, 2¼ & RP2	HB2	30472	.1
			2½ & 3	HB3	30473	.1
	POWER WRENCH 	GREEN	1,140,190 & RP1	HW1**	30447	.3
		RED	1½, 2, 2¼ & RP2	HW2	30448	.3
		BLUE	2½ & 3	HW3	30449	.4
	QUICK CHANGE CHUCK 			5552	30481	.4
1/2" IMPACT TOOL			30453	30453	8.9	

*Sizes 112 & 113 are straight bolt breakers – no bend.

**For use with slotted nuts only.

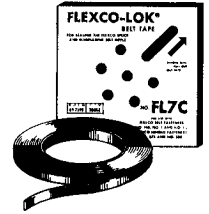
NAILS FOR TEMPLETS

FOR USE WITH TEMPLETS	ORDERING NUMBER	ITEM CODE	WT. LBS.	NAILS/PKG. (Approx.)
#1-1/2, 2, 2-1/4, 2-1/2 & 3	8D	30437	1.0	90

FLEXCO-LOK®

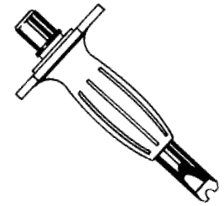
Belt tape 100' per carton

FASTENER SIZE	ORDERING NUMBER	ITEM CODE	WT. LBS.	TAPE WIDTH
Nos. 140, 1	FL7C	30888	.8	7/16"
Nos. 190	FL11C	30889	1.0	11/16"
1-1/2, 2, 2-1/4				



CRACKING CHISEL

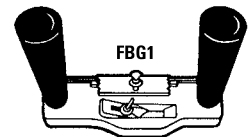
NUT SIZE	ORDERING NUMBER	ITEM CODE	WT. LBS.
1, 140 or 190	C1C	30438	1.2
1-1/2, 2, 2-1/4	C2C	30439	1.2
2-1/2-3	C3C	30499	1.6



FLEXCO® BELT GROOVER

(7/16" wide groove path)

ORDERING NUMBER	ITEM CODE	WT. LBS.
FBG1	31978	1.8
EXTRA BLADES		
HSP3	31980	0.1



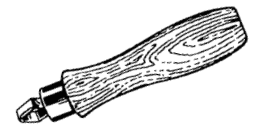
FLEXCO® SILICONE LUBRICANT

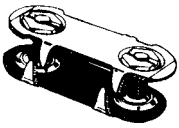
ORDERING NUMBER	ITEM CODE	PKG. QTY.	WT. LBS.
SL5-1	30932	1	1.4



FLEXCO® BELT IDENTIFICATION TOOL

ORDERING NUMBER	ITEM CODE	WT. LBS.
BT-1	31075	.06





Flexco® Bolt Solid Plate Fasteners

Exclusive Piloted Bolt Design Simplifies Installation:

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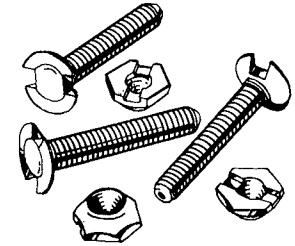
To order the new piloted bolts as they become available, use standard bolt ordering numbers.

EXTRA BOLTS PER 100

FOR FASTENER NUMBER	ORDERING NUMBER / ITEM CODE	ORDERING NUMBER / ITEM CODE	ORDERING NUMBER / ITEM CODE	WT. LBS.
	STEEL	STAINLESS – 300 SERIES	EVERDUR	
1	20391	20400	20397	2.4
140 & 190 RP1	20399 20398	20407	20397	2.1
1-1/2, 2 & RP2	20406	20411	20409	4.1
2-1/4	20410		20412	4.8
2-1/2 & 3	20414			7.2

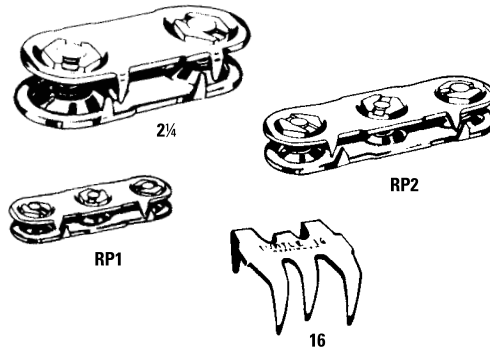
EXTRA NUTS PER 100

FOR FASTENER NUMBER	ORDERING NUMBER / ITEM CODE	ORDERING NUMBER / ITEM CODE	ORDERING NUMBER / ITEM CODE	WT. LBS.
	STEEL	STAINLESS – 300 SERIES	EVERDUR	
1, 140, 190 & RP1	20377	20381	20387	.8
1-1/2,		20382	20388	1.1
2, 2-1/4, & RP2	20378			2.2
2-1/2 & 3	20379			



RIP REPAIR FASTENERS

ORDERING NUMBER	ITEM CODE	BOX QTY.	WT. LBS.
STEEL			
RP1E	20010	25	4.7
RP1C	20022	100	19.1
RP2E	20011	25	10.2
RP2C	20023	100	42.0
2-1/4E	20006	25	10.6
2-1/4C	20018	100	43.0
STAINLESS			
RP1ES	20041	25	4.9
RP2ES	20042	25	10.1
2-1/4ES	20040	25	10.7
EVERDUR			
2-1/4EE	20096	25	11.6



RIP REPAIR SELECTION INFORMATION

Belt Thickness		Fastener Size
in.	mm.	
3/8-9/16	10-14	No. 16
1/4-1/2	6-13	RP1
3/8-13/16	10-21	RP2
9/16-1-3/16	14-30	2-1/4

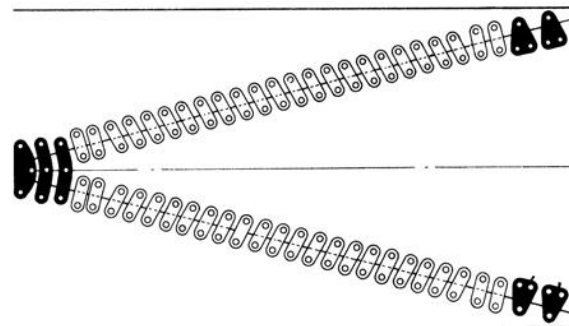
TURTLE® FASTENER—STEEL

ORDERING NUMBER	ITEM CODE	BOX QTY.	WT. LBS.
16	20206	50	4.3


WEDLOK®


DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
Splice Kit*	2W	20200	4.0
Stainless Splice Kit	2WS	20201	4.0
Leading End Kit	2WL	20202	3.0
Trailing End Kit	2WT	20203	2.9
Templet Set	T2W	20204	6.3
72" Side Templet	T2WS72	20205	7.6

*Stainless Top Plates, Balance Steel.



WEDLOK SPLICE KIT

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