

FELB

Flat, Solid, Embossed Bottom Belt

Material:	Volta LB, Blue
Hardness:	80A
Standard Belt Width:	60" / 1524mm
Temp. Range:	- 40°C to 50°C / -40°F to 120°F
Certification:	FDA/EU

Coefficient of friction (Steel):	
Belt Smooth Side:	0.80
Belt Embossed Bottom:	0.45

TYPE		FELB-1.6	FELB-2	FELB-3
Thickness				
		mm	1.6	2
Weight	kg/m ²	2	2.5	3.6
	lb/ft ²	0.4	0.5	0.74
Minimum Pulley:	mm	10	12	20
	Inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{13}{16}$
Maximum-Work Load	Kg/cm	1.6	2	3
	lb/inch	8.96	11.2	16.8
Pull Force (kg/cm) at pretension of:	0.5%	0.16	0.2	0.3
	1%	0.32	0.4	0.6
	1.5%	0.48	0.6	0.9
	2%	0.64	0.8	1.2
	2.5%	0.80	1.0	1.5
	3%	0.96	1.2	1.8
Pull Force (lb/in) at pretension of:	0.5%	0.9	1.12	1.68
	1%	1.79	2.24	3.36
	1.5%	2.7	3.36	5.04
	2%	3.58	4.48	6.72
	2.5%	4.48	5.6	8.40
	3%	5.4	6.72	10.08
Electrode Splicing	EVLB 7	✓	✓	-
	EVLB 9	-	✓	✓

Notes:

1. Pull force relates to steel pulleys. Multiply given values by 0.9 for cast iron, 1.1 for rubber and 0.8 for wet smooth drums.
2. All values are nominal and to the best of our experience are true and accurate.
3. English dimensions have been converted from metric measurements.
4. ***Special product**

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FELB BELTS

	FELB - 1.6		FELB - 2		FELB - 3	
	inch	mm	inch	mm	inch	mm
Belt (at normal flex) (a)	3/8	10	1/2	12	13/16	20
V – Guide (b)						
VL/VLC/VLB -6	1 3/8	35	1 7/16	37	1 3/4	45
VL VL/VLC/VLB -8	2	50	2 1/16	52	2 3/8	60
VL VL/VLC/VLB -10	2 3/16	55	2 1/4	57	2 9/16	65
VL VL/VLC/VLB -13	NA	NA	2 7/16	62	2 3/4	70
VL VL/VLC/VLB -17	NA	NA	NA	NA	3 1/4	95
VL VL/VLC/VLB -22	NA	NA	NA	NA	NA	NA
CL/CLC/CLB -10	1 3/4	45	1 7/8	47	2 3/16	55
CL/CLC/CLB -13	NA	NA	NA	NA	2 3/8	60
CL/CLC/CLB -17	NA	NA	NA	NA	3 1/8	80
CL/CLC/CLB -22	NA	NA	NA	NA	NA	NA
V – Cleat (c)						
Electrode	1 3/8	35	1 7/16	37	1 3/4	45
VL VL/VLC/VLB -10	NA	NA	2 3/8	60	2 11/16	68
VL VL/VLC/VLB -13	NA	NA	NA	NA	4 1/8	105
VL VL/VLC/VLB -17	NA	NA	NA	NA	NA	NA
VL VL/VLC/VLB -22	NA	NA	NA	NA	NA	NA
Flat cleat (c)						
Single 7 Electrode	NA	NA	NA	NA	3 1/16	78
Single 9 Electrode	NA	NA	NA	NA	NA	NA
Double 7 Electrode	NA	NA	NA	NA	NA	NA
T Cleat / HF(c)	2 3/16	55	2 3/8	60	2 11/16	68
Based Side Walls (c)						
Sww 20 (Normal Flex)	NA	NA	NA	NA	4 1/8	105
Sww 20 (BackFlex)	NA	NA	NA	NA	4 3/8	110
Sww 30(Normal Flex)	NA	NA	NA	NA	4 1/8	105
Sww 30 (BackFlex)	NA	NA	NA	NA	5	125
Sww 40(Normal Flex)	NA	NA	NA	NA	4 1/2	115
Sww 40 (BackFlex)	NA	NA	NA	NA	6	150
Sww 50(Normal Flex)	NA	NA	NA	NA	5	125
Sww 50 (BackFlex)	NA	NA	NA	NA	7	175
Sww 60(Normal Flex)	NA	NA	NA	NA	NA	NA
Sww 60 (BackFlex)	NA	NA	NA	NA	NA	NA
Sww 80(Normal Flex)	NA	NA	NA	NA	NA	NA
Sww 80 (BackFlex)	NA	NA	NA	NA	NA	NA

- Notes:
- 1) For belt fabrication where the guides are located below the cleats or Side Walls, add the V - Guide value (b) and the cleat or sidewall value (c), and subtract belt value (a). In the case where the Guide is not located below the cleat or Side Wall, choose the higher of the values between the V-guide (b) and cleat or Side Wall (c).
 - 2) For Back Flex add one time belt value (a).
 - 3) English dimensions have been converted from metric measurements.
 - 4) NA = Not Available.