
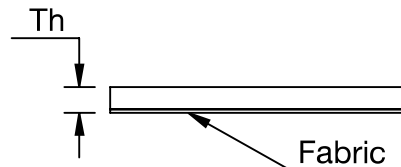


FRZ

Flat Belt, Bottom-Reinforced, Top-Smooth

Material:	Volta Z
Color (Indicative only)	Green 
Hardness:	95A/46D
Temp. Range (C°):	-30°C to 70°C
Temp. Range (F°):	-20°F to 158°F

Coefficient of friction (Dry):	
Smooth Top - Steel:	0.40
Reinforced Bottom - Steel:	0.20



Product:	FRZ-2	FRZ-3	FRZ-4	FRZ-5	
Belt Thickness (mm) :	2	3	4	5	
Belt Weight (kg/m ²):	2.4	3.6	4.8	6	
Belt Weight (lb/ft ²):	0.48	0.72	0.96	1.2	
Belt Min Pulley Diameter (mm) (Normal Flex)	25	36	50	65	
Belt Min Pulley Diameter (mm) (Back Flex)	50	72	100	120	
Belt Min Pulley Diameter (Inch) (Normal Flex)	1	1 7/8	2	2 9/16	
Belt Min Pulley Diameter (Inch) (Back Flex)	2	2 7/8	4	4 11/16	
Ultimate Strength (Kg/cm):	110	120	130	140	
Ultimate Strength (lb/Inch):	615	670	726	782	
Ultimate Elongation (%) :	16	16	16	16	
Pull Force* (kg/cm width) at pretension of:	0.5%	3	3.5	4	4.5
	1%	6	7	7.5	9
	1.2%	7.2	8.4	9	10.8
	1.8%	NR	12	13.5	16.2
Pull Force* (lb/inch width) at pretension of:	0.5%	17	19.5	22.3	25
	1%	33.5	39	41.7	50
	1.2%	40.2	46.8	50	60
	1.8%	NR	67	75	90
Electrode Splicing:	EVZ-7	✓	NR	NR	
	EVZ-9		✓	✓	✓

- *Pull force – According to “Temperature Correction Factor”.

Belt material	Temperature Correction Factor						
	40°C/ 104°	45°C/ 113°F	50°C/ 122°F	55°C/ 131°F	60°C/ 140°F	65°C/ 149°F	70°C/ 158°F
Z – 95A/46D Shore	1	0.98	0.95	0.9	0.87	0.8	0.7

- English dimensions have been converted from Metric measurements.
- All values are nominated and to the best of our experience are true and accurate.
- 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.
- Recommended only when splicing angle is greater than 17°. **NR-Not Relevant**

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FRZ BELTS

	FRZ - 2		FRZ - 3		FRZ - 4		FRZ - 5	
	inch	mm	mm	mm	inch	mm		
Belt (a)	1	25	1 ^{7/16}	36	2	50	2 ^{9/16}	65
V - Guide (b)								
VM - 8	3 ¾	85	4	100	4 ¾	110	5	125
VM - 10	3 ½	90	4 ½	105	4 ¾	115	5 ¼	130
VM - 13	4 ½	105	4 ¾	120	5 ½	130	5 ¾	145
VM - 17	NA	NA	6	150	6 ½	165	7 ¼	180
VM - 22	NA	NA	NA	NA	7 ½	190	8 ¼	210
VL/VLC/VLB - 6	2	50	2 ½	65	3	75	3 ½	90
VL/VLC/VLB - 8	2 ½	65	3	75	3 ¾	85	4 ½	105
VL/VLC/VLB - 10	2 ¾	70	3 ¾	80	3 ½	90	4 ¾	110
VL/VLC/VLB - 13	3	75	3 ¾	85	4	100	4 ¾	115
VL/VLC/VLB - 17	NA	NA	4 ¾	110	5	125	5 ½	140
VL/VLC/VLB - 22	NA	NA	NA	NA	6	150	6 ½	165
CM - 10	3	75	3 ½	90	4	100	4 ¾	115
CM - 13	3 ¾	85	3 ¾	95	4 ¾	110	5	125
CM - 17	NA	NA	4 ¾	120	5 ¾	135	6	150
CM - 22	NA	NA	5 ½	140	6 ^{5/16}	160	7	175
CL/CLC/CLB - 10	2 ¾	60	2 ¾	70	3 ¼	80	4	100
CL/CLC/CLB - 13	2 ¾	65	3	75	3 ¾	85	4 ½	105
CL/CLC/CLB - 17	3 ¾	86	3 ¾	95	4 ¾	110	5	125
CL/CLC/CLB - 22	NA	NA	4 ¾	110	4 ¾	120	5 ½	140
V - Cleat (c)								
Electrode	2 ¼	57	2 ½	65	3 ¾	85	3 ¾	95
VL/VLC/VLB - 6	2 ¼	57	2 ½	65	3 ¾	85	3 ¾	95
VL/VLC/VLB - 8	2 ½	65	3	75	3 ¾	95	4 ½	105
VL/VLC/VLB - 10	3	75	3 ¾	85	4 ½	105	4 ¾	115
VL/VLC/VLB - 13	3 ¾	85	3 ¾	95	4 ½	115	5	125
VL/VLC/VLB - 17	NA	NA	4 ¾	120	6	150	6 ¾	170
VL/VLC/VLB - 22	NA	NA	NA	NA	8	200	8 ¾	220
Flat Cleat (c)								
Single 7 Electrode	4 ¾	110	4 ¾	120	5 ¾	135	6	150
Single 9 Electrode	NA	NA	5	125	5 ¾	140	6 ^{5/16}	160
Double 7 Electrode	NA	NA	6	150	8	200	8 ¾	220
T Cleat / HF c)	3	75	3 ¾	85	4 ½	105	4 ¾	120
Side Walls (c)								
Sww 20 (Normal Flex)	3 ¾	95	4 ½	105	4 ^{3/8}	110	4 ¾	120
Sww 20 (BackFlex)	4 ^{3/8}	110	4 ^{3/8}	110	4 ^{3/8}	110	4 ¾	120
Sww 30 (Normal Flex)	3 ¾	95	4 ½	105	4 ^{3/8}	110	4 ¾	120
Sww 30 (BackFlex)	5	125	5	125	5	125	5	125
Sww 40 (Normal Flex)	4	100	4 ^{1/2}	115	5 ^{1/8}	130	5 ¼	135
Sww 40 (BackFlex)	6	150	6	150	6	150	6	150
Sww 50 (Normal Flex)	-	-	5	125	5 ^{1/8}	130	5 ¼	135
Sww 50 (BackFlex)	-	-	7	175	7	175	7	175
Sww 60 (Normal Flex)	-	-	5 ^{1/8}	130	5 ½	135	5 ^{1/2}	140
Sww 60 (BackFlex)	-	-	8	200	8	200	8	200
Sww 80 (Normal Flex)	-	-	6	150	6	150	6 ¾	170
Sww 80 (BackFlex)	-	-	10	250	10	250	10	250
Sww 100 (Normal Flex)	-	-	8	200	8	200	8 ¾	220
Sww 100 (BackFlex)	-	-	12	300	12	300	12	300
SG strips (c)	NA	NA	1 ¼	45	2 ¼	55	3	75

- 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) English dimensions have been converted from metric measurements.
- 3) For Back Flex, add one time belt value (a). 4) NA = Not Available.