

FHW Flat, Solid Belt

Material:	Volta HW, Off White
Hardness:	59D
Standard Belt Width:	60" / 1524mm
Temp. Range:	- 20°C to 75°C / -5°F to 170°F
Certification:	FDA / USDA / USDA Dairy Approved / EU

Coefficient of friction:	
Steel :	0.28
Aluminum :	0.26
Rubber :	0.40
UHMW:	0.20



TYPE		FHW-1 *	FHW-1.5	FHW-2	FHW-3	FHW-4	FHW-5	FHW-6 *	FHW -8 *
Thickness	mm	1	1.5	2	3	4	5	6	8
Weight	kg/m ²	1.25	1.88	2.5	3.6	5.0	6.25	7.5	10.0
	lb/ft ²	0.25	0.38	0.5	0.74	1.0	1.25	1.5	2.0
Minimum Pulley:	mm	34	45	70	90	110	150	180	220
	Inch	1½	2	2¾	3 9/16	4 ¾	5¾	7	8 ¾
Maximum-Work Load	Kg/cm	7	10.5	14	21	28	35	42	56
	lb/inch	40	60	80	120	160	200	240	320
Pull Force (kg/cm) at pretension of:	0.5%	0.5	0.75	1.0	1.5	2.0	2.5	3.0	4.0
	1%	1	1.5	2.0	3.0	4.0	5.0	6.0	8.0
	1.5%	1.5	2.25	3.0	4.5	6.0	7.5	9.0	12.0
	2%	2	3.0	4.0	6.0	8.0	10.0	12.0	16.0
	2.5%	2.5	3.75	5.0	7.5	10.0	12.5	15.0	20.0
	3%	3	4.5	6.0	9.0	12.0	15.0	18.0	24.0
Pull Force (lb/in) at pretension of:	0.5%	2.8	4.2	5.6	8.4	11.2	14.0	16.8	22.4
	1%	5.6	8.4	11.2	16.8	22.4	28.0	33.6	44.8
	1.5%	8.4	12.6	16.8	25.2	33.6	42.0	50.4	67.2
	2%	11.2	16.8	22.4	33.6	44.8	56.0	67.2	89.6
	2.5%	14.9	21	28.0	42.0	56.0	70.0	84.0	112
	3%	16.8	25.2	33.6	50.4	67.2	84.0	100.8	134.4
Electrode Splicing	EVHW 7	✓	✓	✓	-	-	-	**	**
	EVHW 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.

* **Special Product.**

** Electrode welding not recommended for belt thicker than 5mm. FBW tool splicing is advisable.

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FHB & FHW BELTS

	FHB/FHW-2		FHB -2.5		FHB/FHW-3		FHB/FHW-4		FHB/FHW-5	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Belt (a)	70	2 ¾	70	3 ⅛	90	3 ½	110	4 ¾	150	6
V - Guide (b)										
VW/VWB - 10	140	5 ½	140	5 ¾	150	6	175	7	215	8 ½
VW/VWB - 13	150	6	150	6 ½	175	7	190	7 ½	235	9
VW/VWB - 17	190	7 ½	190	7 ¾	200	8	225	9	265	10 ½
VW/VWB - 22	NA	NA	NA	NA	240	9 ½	250	10	300	12
CW - 10	130	5 ⅛	130	5 ½	145	5 ¾	170	6 ¾	210	8 ¼
CW - 13	140 ⁽³⁾	5 ½ ⁽³⁾	140 ⁽³⁾	5 ¾ ⁽³⁾	150	6	175	7	215	8 ½
CW - 17	165	6 ½	165	6 ¾	175 ⁽³⁾	7 ⁽³⁾	200 ⁽³⁾	8 ⁽³⁾	240	9 ½
CW - 22	NA	NA	NA	7 ½	200	8	225	9	265 ⁽³⁾	10 ½ ⁽³⁾
V - Cleat (c)										
Electrode	125	5	125	5 ¼	140	5 ½	165	6 ½	200	8
VW/VWB - 10	150	6	150	6 ¼	165	6 ½	190	7 ½	225	9
VW/VWB - 13	165	6 ½	165	7	190	7 ½	200	8	250	10
VW/VWB - 17	215	8 ½	215	8 ¾	225	9	265	10 ½	300	12
VW - 22	NA	NA	NA	11 ¼	290	11 ½	300	12	365	14 ½
Flat Cleat (c)										
Single Electrode	150	6	150		175	7	190	7 ½	225	9
Double 7 Electrode	190	7 ½	190	7 ¾	200	8	225	9	265	10 ½
Double 9 Electrode	NA	NA	NA	NA	NA	NA	250	10	300	12
Side Walls (c)										
Flat	250	10	250	10 ¼	270	10 ½	290	11 ½	330	13

Notes:

1. For Guided and Cleated belts, add V-Guide value (b) with cleat value (c) and subtract belt value (a).
2. Dimensions have been converted from metric measurements.
3. NA = Not Available.
4. Recommended guide