transtex belting

conveyor belts







PVC Elevator Belting

- Resists stretching & shrinking
- ► Excellent bolt holding strength
- ► Interwoven polyester carcass for added strength and fastener holding
- Resistant to mildew and moisture
- ► Meets OSHA Specifications for surface electrical resistance of 300 megohms or less
- Meets MSHA Standards for flame resistance

- ► PVC 450 ORG (Oil Resistant Grain)
- PVC 350 also available in ORG
- We also have the following in approved MSHA specifications
 PVC 200 & 250 (white and black)
 PVC 300 in black

For more information contact your Account Manager or Territory Sales Manager

Forbo Movement Systems

Transtex® Belting

10125 South Tryon Street Charlotte, NC 28273

Toll Free: (800) 922-1735 E-Mail: transtex.us@forbo.com www.forbo-transtex.com





ELEVATOR
DESIGNATION NO.

DATE SUBMITTED BY(ft.) Belt Width(BPH)	Title	
(BPH)	Title	
Total Belt Length(ft.) Belt Width(BPH)		
(BPH)	(in.) C to C Pulleys	
(BPH)	(in.) C to C Pulleys	
Rated Elevator Capacity(TPH) Material Handled	Wt. Per Cu. In.¹	
BUCKETS:		
Style and Manufacturer Si	ize Projection	(in.)
Spacing on Belt (in.) No. of Rows Staggered	Number (C to C) Ascending Side	
Empty Weight (lbs.) 100% Cup Capacity @%= (cu	u.in.) Total Weight of Material in Bucket	(lbs.)
Head Pulley Diameter(in.) Type Lagging	Boot Pulley Diameter	(in.)
Boot Pulley Face Width (in.) Type Take Up: Screw Floatin	ng Approximate Weight ²	(lbs.)
Weight per Foot For Type Belt	nt P.I.W. x Belt Width)	(lbs.)
(Weigh PICK UP IN BOOT: (To compensate for digging action)	it r.i.w. x beit widtii)	
For UP Loaded Leg – Use 10% of Total Bucket Load		
For DOWN Loaded Leg – Use 20% of Total Bucket Load		
	OTAL BELT LENGTH CALCULATIONS*:	
SUSPENDED WEIGHT: (Ascending Side)	Center to Center Pulleys	
3031 ENDED WEIGHT. (Ascending slac)	Center to Center Pulleys	
Empty Buckets:	½ Head Pulley Circum.²	
Ι Λ	½ Boot Pulley Circum.²	
Load In Buckets: x lbs lbs lbs. 5.	Belt Splice ³	
Belt C to C x lbs lbs. 6.	Plus Contingency Factor (1% of Sub-Total)	
Pickup in Boot lbs. – lbs lbs.		
Floating Takeup Weight ^{2**} –Ibs.	TOTAL	
THEREFORE: *Rotating rathers recign: Maximum Tension – lbs.	ound off fractions to the nearest whole number	
The workload (t) is calculates as follows:	See Table 1 ² See Table 2 ³ See Table 3	
maximum tension belt width = lbs. per inch of belt width		

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TABLE #1 BULK MATERIAL WEIGHT			
<u> </u>	Lbs. Cu.In.	Lbs. Cu.Ft.	
Alfalfa Meal	.013	22	
Alfalfa Pellets	.025	43	
Alumina	.038	65	
Baking Soda	.032	55	
Barley, Whole	.028	48	
Bauxite	.052	90	
Bean, Castor	.021	37	
Borax	.041	70	
Buckwheat	.024	42	
Calcium Carbonate	.058	100	
Cashew Nuts	.021	37	
Caustic Soda	.051	88	
Cement, Portland	.054	94	
Clay, Brick	.069	120	
Clover Seed	.028	48	
Coal, Bituminous	.032	55	
Cocoa Beans	.023	40	
Coconut, Shredded	.013	22	
Coffee, Roasted Bean	.015	26	
Copper Ore	.087	150	
Corn, Shelled	.026	45	
Cottonseed Cake	.026	45	
Cottonseed Meal	.023	40	
Cullet, Glass	.069	120	
Distiller's Grain, Wet	.035	60	
Earth, Wet	.064	110	
Flaxseed	.026	45	
Flour, Wheat	.023	40	
Garbage, Household	.029	50	
Gravel	.058	100	
Gypsum	.046	80	
Hominy, Dry	.021	37	
Hops, Dry	.020	35	
Iron Ore	.116	200	
Limestone, Crushed	.052	90	
Magnesium Chloride	.019	23	
Malt, Dry	.017	30	
Mica, Pulverized	.009	15	
Milo	.026	45	
Oats	.015	26	
Oyster Shells, Whole	.046	80	
Peanuts, Shelled	.026	45	
Peas, Dried	.029	50	
Phosphate Acid Fertilizer	.035	60	
Rice, Hulled	.028	49	
Rye	.028	48	
Safflower, Meal	.029	50	
Salt, Dry	.046	80	
Sand, Dry	.075	130	
Sand, Dry Silica	.058	100	
Sludge, Sewage	.029	50	
Soda Ash, Heavy	.038	65	
Soy Bean Meal	.023	40	
Soy Beans, Whole	.029	50	
Sugar, Raw	.038	65	
Sulfur, Lumpy	.050	85	
Taconite, Pellets	.075	130	
Vermiculite, Ore	.046	80	
Wheat	.028	48	
Zinc Ore, Crushed	.093	160	

TABLE #2 PULLEY SPECIFICATIONS

PULLET SPECIFICATIONS				
Diameter (Inches)	Circumference (Feet)	1/2* Circumference (Feet)	Floating** Take-Up Factor (lbs. per inch of Pulley Face Width)	
8	2.07	2	5	
9	2.35	2	5	
10	2.64	2	7	
11	2.89	2	7	
12	3.14	2	7	
13	3.39	2	8	
14	3.64	2	8	
15	3.92	2	9	
16	4.18	3	9	
18	4.71	3	9	
20	5.21	3	10	
21	5.50	3	10	
22	5.75	3	12	
24	6.28	4	12	
28	7.32	4	15	
30	7.85	4	18	
32	8.35	5	20	
36	9.42	5	24	
40	10.46	6	29	
42	10.99	6	31	
48	12.57	7	40	
54	14.4	8	47	
60	15.71	8	53	
66	17.28	9	-	
72	18.85	10	-	
84	21.99	11	-	
96	25.13	13	-	

^{*} Rounded off to nearest whole number

TO CALCULATE: Multiply Take-Up Factor Listed for Given Boot Pulley diameter x total inches of Boot Pulley Face width.

TABLE #3 BELT-BUCKET JOINT SPECIFICATIONS*





	F	Έ
	Minimum Buckets Per Row on Each	Minimum Buckets Per Row
Pulley Centers	End of Main Belt	in Splice Area
0 -99'	3	3
100' - 149'	4	4
150'- 199'	5	5
200'- 249'	6	6
250' & over	7	7

* For Handling Grain or Similar Lightweight Materials

Note: For Pulley Centers above 300° or Special Applications contact Forbo Transtex® Representative or Charlotte Offices.

^{**} Floating Take-Up Factor Includes Pulley Weight, Structural Assembly and Steel Weights.