

Pylon Plus® Belts

Pylon Plus® Conveyor Belt Data

	Pylon Plus 220/2	Pylon Plus 250/2	Pylon Plus 330/3	Pylon Plus 375/3	Pylon Plus 400/2	Pylon Plus 440/4	Pylon Plus 500/4	Pylon Plus 600/3	Pylon Plus 750/3
# of Plies	2	2	3	3	2	4	4	3	3
Fabric Type*	P/P	P/N	P/P	P/N	P/P	P/P	P/N	P/P	P/P
Average Permanent Elongation (%)**	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
Recommended Fastener Plate	140	190	190	BR-10	BR-10	BR-10	BR-10	BR-10	BR-14
Hinge	R2	R2	R2	R5	R5	R5	R5-1/2	R5-1/2	R6
Hinge	U35A	U35A	U35A	U35	U35	U35	U35	U35	U37/U37A
Imperial									
Vulcanized & Fastener Rating (PIW)	220	250	330	375	400	440	500	600	750
Nom. Carcass Gauge (in.)	0.121	0.135	0.161	0.169	0.178	0.221	0.229	0.251	0.272
Nom. Carcass Weight (lb./sq. ft.)	0.76	0.85	1.06	1.07	0.97	1.39	1.45	1.44	1.61
Approximate 1/32 in. Cover Weight (lb./sq. ft.)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Elastic Modulus (PIW)	23,000	30,000	34,500	45,000	44,000	46,000	60,000	66,000	67,500
Step Length (in.)***	10	10	10	10	16	10	10	16	18
Metric									
Vulcanized & Fastener Rating (kN/m)	39	44	58	66	70	77	88	105	131
Nom. Carcass Gauge (mm)	3.07	3.4	4.09	4.3	4.5	5.61	5.8	6.4	6.3
Nom. Carcass Weight (kg/sq. m)	3.7	4.2	5.2	5.2	4.7	6.8	7.1	7.0	7.3
Approximate 1mm Cover Weight (kg/sq. m)	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Elastic Modulus (kN/m)	4,030	5,250	6,040	7,880	7,710	8,060	10,510	11,560	9,840
Step Length (mm)***	250	250	250	250	410	250	250	410	460

Pylon Plus® rated belt tension can exceed 100%, with a maximum of 150%, during starting and stopping conditions. Fastener size recommendation may vary due to cover thickness, pulley diameters and system tension. Consult your Sales Representative or fastener manufacturer. R-6 fasteners must be installed with stainless steel rivets when belt tensions exceed 800 PIW (140 kN/m) for best results.

*P/P = Poly/Poly and P/N = Poly/Nylon

**Average permanent elongation values at 100% of rated belt tension are based on ISO 9856 test procedure. Consult your Sales Representative or Distributor for elastic and total elongation calculations.

***Consult your Sales Representative for vulcanized splice design for 900/2, 1350/3 and 1800/4 constructions.

Pylon Plus® 800/4-1800/4 continued on page 15

Pylon Plus® Conveyor Belt Data

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	Pylon Plus 800/4	Pylon Plus 900/2	Pylon Plus 1000/4	Pylon Plus 1000/5	Pylon Plus 1200/6	Pylon Plus 1250/5	Pylon Plus 1350/3	Pylon Plus 1800/4
# of Plies	4	2	4	5	6	5	3	4
Fabric Type*	P/P	P/N	P/P	P/P	P/P	P/P	P/N	P/N
Average Permanent Elongation (%)**	0.8	1.5	1.0	0.80	0.80	1.0	1.5	1.5
Recommended Fastener Plate	BR-14	NR	NR	NR	NR	NR	NR	NR
Hinge	R6	RAR8	RAR8	RAR8	RAR8	RAR8	NR	NR
Hinge	U37/U37A	U38A	U38A	U38A	U38	U38	U38	U38B
Imperial								
Vulcanized & Fastener Rating (PIW)	800	900	1000	1000	1200	1250	1350	1800
Nom. Carcass Gauge (in.)	0.340	0.300	0.368	0.429	0.518	0.464	0.453	0.613
Nom. Carcass Weight (lb./sq. ft.)	1.96	1.88	2.18	2.47	2.89	2.75	2.84	3.84
Approximate 1/32 in. Cover Weight (lb./sq. ft.)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Elastic Modulus (PIW)	88,000	62,500	90,000	110,000	132,000	112,500	93,800	125,100
Step Length (in.)***	16	Finger	18	16	16	18	Finger	Finger
Metric								
Vulcanized & Fastener Rating (kN/m)	140	158	175	175	210	219	236	315
Nom. Carcass Gauge (mm)	8.6	7.6	9.3	10.9	13.2	11.79	11.5	15.6
Nom. Carcass Weight (kg/sq. m)	9.6	9.2	10.64	12.1	14.1	13.43	13.9	18.7
Approximate 1mm Cover Weight (kg/sq. m)	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Elastic Modulus (kN/m)	15,410	10,950	15,760	19,260	23,120	19,700	16,430	21,910
Step Length (mm)***	410	Finger	460	410	410	460	Finger	Finger

Pylon Plus® rated belt tension can exceed 100%, with a maximum of 150%, during starting and stopping conditions. Fastener size recommendation may vary due to cover thickness, pulley diameters and system tension. Consult your Sales Representative or fastener manufacturer. R-6 fasteners must be installed with stainless steel rivets when belt tensions exceed 800 PIW (140 kN/m) for best results.

*P/P = Poly/Poly and P/N = Poly/Nylon

**Average permanent elongation values at 100% of rated belt tension are based on ISO 9856 test procedure. Consult your Sales Representative or Distributor for elastic and total elongation calculations.

***Consult your Sales Representative for vulcanized splice design for 900/2, 1350/3 and 1800/4 constructions.

Pylon Plus® Belts

Pylon Plus® Load Support - Maximum Belt Width

Material Weight	0-40 lb./cu. ft. (0-640 kg/cu. m)			41-80 lb./cu. ft. (641-1280 kg/cu. m)			81-120 lb./cu. ft. (1281-1920 kg/cu. m)			Over 120 lb./cu. ft. (Over 1920 kg/cu. m)			
	Trough Idlers	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg
PIW/Plies													
Inches													
220/2		48	42	36	48	36	36	42	36	30	36	30	NR
250/2		54	48	48	48	42	36	42	42	30	36	30	NR
330/3		60	54	48	60	48	42	54	48	42	48	42	36
375/3		72	60	60	60	60	48	54	54	48	48	42	36
400/2		60	54	54	54	48	42	48	48	42	42	36	30
440/4		72	60	54	66	60	48	60	54	48	54	48	42
500/4		84	72	72	72	60	54	72	60	54	60	54	48
600/3		84	72	72	72	60	54	72	60	54	60	54	48
750/3		84	72	72	72	60	54	72	60	54	60	54	48
800/4		96	84	84	84	72	72	84	72	60	72	60	54
900/2		78	78	72	72	72	60	72	60	54	60	54	48
1000/4		96	84	84	84	72	72	84	72	60	72	60	54
1000/5		108	96	96	96	84	84	96	84	72	84	72	72
1200/6		116	108	108	108	96	96	108	96	84	96	84	84
1250/5		116	108	108	108	96	96	108	96	84	96	84	78
1350/3		96	96	84	96	96	84	96	84	72	96	84	72
1800/4		118	118	108	118	118	108	108	108	96	108	96	84
Millimeters													
220/2		1220	1070	910	1220	910	910	1070	910	760	910	760	NR
250/2		1370	1220	1220	1220	1070	910	1070	1070	760	910	760	NR
330/3		1520	1370	1220	1520	1220	1070	1370	1220	1070	1220	1070	910
375/3		1830	1520	1520	1520	1520	1220	1370	1370	1220	1220	1070	910
400/2		1520	1370	1370	1370	1220	1070	1220	1220	1070	1070	910	760
440/4		1830	1520	1370	1680	1520	1220	1520	1370	1220	1370	1220	1070
500/4		2130	1830	1830	1830	1520	1370	1830	1520	1370	1520	1370	1220
600/3		2130	1830	1830	1830	1520	1370	1830	1520	1370	1520	1370	1220
750/3		2130	1830	1830	1830	1520	1370	1830	1520	1370	1520	1370	1220
800/4		2440	2130	2130	2130	1830	1830	2130	1830	1520	1830	1520	1370
900/2		1980	1980	1830	1830	1830	1520	1830	1520	1370	1520	1370	1220
1000/4		2440	2130	2130	2130	1830	1830	2130	1830	1520	1830	1520	1370
1000/5		2740	2440	2440	2440	2130	2130	2440	2130	1830	2130	1830	1830
1200/6		2950	2740	2740	2740	2440	2440	2740	2440	2130	2440	2130	2130
1250/5		2950	2740	2740	2740	2440	2440	2740	2440	2130	2440	2130	1980
1350/3		2440	2440	2130	2440	2440	2130	2440	2130	1830	2440	2130	1830
1800/4		3000	3000	2740	3000	3000	2740	2740	2740	2440	2740	2440	2130

On systems with troughing idler spacing greater than 5 ft. (1.5 m) OR idler roll gap greater than 1/2 in. (12.7mm), consult your Sales Representative or ContiTech.

Pylon Plus® Troughability - Minimum Belt Width

Table based on ISO 703 Testing Procedure

Idlers	220/2	250/2	330/3	375/3	400/2	440/4	500/4	600/3	750/3	800/4	900/2	1000/4	1000/5	1200/6	1250/5	1350/3	1800/4
Inches																	
20 degree	18	18	18	20	18	24	24	24	24	30	24	30	36	42	36	30	36
35 degree	18	18	24	24	24	30	30	30	30	36	30	36	42	48	42	36	42
45 degree	24	24	30	30	30	36	36	36	36	42	36	42	48	54	48	42	48
Millimeters																	
20 degree	460	460	460	510	460	610	610	610	610	760	610	760	910	1070	910	760	910
35 degree	460	460	610	610	610	760	760	760	760	910	760	910	1070	1220	1070	910	1070
45 degree	610	610	760	760	760	910	910	910	910	1070	910	1070	1220	1370	1220	1070	1220

If top cover and pulley cover are balanced (i.e., 3/16 in.x3/16 in. or 5mm x 5mm) or less than 1/16 in. (2mm) differential (i.e., 3/16 in.x5/32 in. or 4mm x 3mm), add 6 in. (150mm) to the minimum belt width. 6 in. (150mm) narrower widths are possible if the belt is broken in for an extended period of time fully loaded. Consult your Sales Representative. Additional break-in time is required when the belt has been stored prior to insulation in ambient temperatures of less than 50°F (10°C). Above tables are based on top cover gauge equal or greater than the bottom (pulley) cover gauge.

Pylon Plus® Minimum Pulley Diameters

	Pylon Plus 220/2	Pylon Plus 250/2	Pylon Plus 330/3	Pylon Plus 375/3	Pylon Plus 400/2	Pylon Plus 440/4	Pylon Plus 500/4	Pylon Plus 600/3	Pylon Plus 750/3	Pylon Plus 800/4	Pylon Plus 900/2
# of Plies	2	2	3	3	2	4	4	3	3	4	2
Inches											
Over 80% Tension	16	16	18	18	16	24	24	24	30	30	30
60% to 80% Tension	14	14	16	16	14	20	20	20	24	24	24
40% to 60% Tension	10	12	14	14	12	16	18	18	20	20	24
Up to 40% Tension	10	12	14	14	10	16	18	16	18	18	20
Tails and Snubs	10	12	14	14	10	16	18	16	18	18	20
Millimeters											
Over 80% Tension	410	410	460	460	410	610	610	610	760	760	760
60% to 80% Tension	360	360	410	410	360	510	510	510	610	610	610
40% to 60% Tension	250	300	300	360	300	410	460	460	510	510	610
Up to 40% Tension	250	300	300	360	250	410	460	410	460	460	510
Tails and Snubs	250	300	300	360	250	410	460	410	460	460	510

Pylon Plus® HT belts (2/900, 3/1350, 4/1800) require a minimum pulley cover gauge of 1/8 in. (3.18mm) if vulcanized splicing will be used.

Pylon Plus® 1000/4-1800/4 continued on page 18

Pylon Plus® Belts

Pylon Plus® Minimum Pulley Diameters

continued from page 17

	Pylon Plus 1000/4	Pylon Plus 1000/5	Pylon Plus 1200/6	Pylon Plus 1250/5	Pylon Plus 1350/3	Pylon Plus 1800/4
# of Plies	4	5	6	5	3	4
Inches						
Over 80% Tension	36	36	42	42	36	42
60% to 80% Tension	30	30	36	36	30	36
40% to 60% Tension	24	24	30	30	30	36
Up to 40% Tension	20	20	30	24	24	30
Tails and Snubs	20	20	30	24	24	30
Millimeters						
Over 80% Tension	910	910	1070	1070	910	1070
60% to 80% Tension	760	760	910	910	760	910
40% to 60% Tension	610	610	760	760	760	910
Up to 40% Tension	510	510	760	610	610	760
Tails and Snubs	510	510	760	610	610	760

Pylon Plus HT belts (2/900, 3/1350, 4/1800) require a minimum pulley cover gauge of 1/8 in. (3.18mm) if vulcanized splicing used.

Elevator Data

Pylon Plus® Elevator Belt Data

	Pylon Plus 220/2	Pylon Plus 250/2	Pylon Plus 330/3	Pylon Plus 375/3	Pylon Plus 400/2	Pylon Plus 440/4	Pylon Plus 500/4	Pylon Plus 600/3	Pylon Plus 750/3	Pylon Plus 800/4	Pylon Plus 900/2
# of Plies	2	2	3	3	2	4	4	3	3	4	2
Fabric Type*	P/P	P/N	P/P	P/N	P/P	P/P	P/N	P/P	P/P	P/P	P/N
Recommended Plate Fastener	140	190	190	BR-10	BR-10	BR-10	BR-10	BR-10	BR-14	BR-14	NR
Imperial											
Industrial Service Tension Capacity (PIW)	170	195	250	290	310	350	385	465	580	620	700
Nom. Carcass Gauge (in.)	0.121	0.135	0.161	0.169	0.178	0.221	0.229	0.251	0.246	0.340	0.300
Spaced Industrial Max. Bucket Projection	6	7	7	8	9	10	11	10	10	11	11
Continuous Industrial Max. Bucket Projection	5	6	7	8	9	10	11	12	12	14	14
Metric											
Industrial Service Tension Capacity (kN/m)	30	34	44	51	54	61	67	81	102	109	123
Nom. Carcass Gauge (mm)	3.07	3.43	4.09	4.29	4.52	5.61	5.82	6.38	6.25	8.64	7.62
Spaced Industrial Max. Bucket Projection	150	180	180	200	230	250	280	250	250	280	280
Continuous Industrial Max. Bucket Projection	130	150	180	200	230	250	280	300	300	360	360

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Pylon Plus® Elevator Belt Data

	Pylon Plus 1000/4	Pylon Plus 1000/5	Pylon Plus 1200/6	Pylon Plus 1250/5	Pylon Plus 1350/3	Pylon Plus 1800/4
# of Plies	4	5	6	5	3	4
Fabric Type*	P/P	P/P	P/P	P/P	P/N	P/N
Recommended Plate Fastener	NR	NR	NR	NR	NR	NR
Imperial						
Industrial Service Tension Capacity (PIW)	775	775	930	970	1050	1400
Nom. Carcass Gauge (in.)	0.337	0.429	0.518	0.427	0.453	0.613
Spaced Industrial Max. Bucket Projection	12	12	12	12	13	15
Continuous Industrial Max. Bucket Projection	15	16	20	20	22	26
Metric						
Industrial Service Tension Capacity (kN/m)	136	136	163	170	184	245
Nom. Carcass Gauge (mm)	8.56	10.90	13.16	10.85	11.51	15.57
Spaced Industrial Max. Bucket Projection	300	300	300	300	330	380
Continuous Industrial Max. Bucket Projection	380	410	510	510	560	660

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