

FENNER  **DUNLOP**
CONVEYOR BELTING

PLYLOK SUPREME®



PlylokSupreme™ — Member of the Plylok Group®

Tough fabric plies vulcanized together with premium rubber skims, creating superior adhesions

Application: Wide range of demanding markets with specific versions for mining,
grain handling, wood & power generation

Carcass: Heavy duty weave construction for better rip, tear and impact resistance

www.fennerdunlopamericas.com



PLYLOK SUPREME

Reliable, Consistent, Measurable & Sustainable Results

PlylokSupreme®, Fenner Dunlop's premium plied rubber belting, is what you need for heavy duty applications that you count on to run all day, everyday. The true workhorse in the belting industry, **PlylokSupreme®** is custom engineered for each application to ensure minimum downtime and maximum haulage.



APPLICATIONS



Plied belting that provides maximum performance and superior adhesion values for **heavy-duty applications**.

High impact and tear resistance, plus better fastener holding vs PlylokMaster and competitors.

Markets:

- Aggregates
- Wood & Paper
- Sand & Gravel
- Hard Rock Mining
- Steel & Foundries
- Power Generation
- Cement
- Coal & Prep Plants
- Bulk Terminals

CARCASS



Custom engineered for each application

Heavy duty weft for better rip, tear and impact resistance, as well as better mechanical fastener holding.

Available in these industry-specific designs:

- PlylokSupreme
- MineHaul Supreme
- LongHaul Supreme
- GrainSupreme
- WoodSupreme
- PowerSupreme

FEATURES & BENEFITS

- Low stretch
- Outstanding resistance to cutting, gouging and tearing
- Excellent load support and troughability
- Resistant to moisture and mildew
- Excellent adhesion between the covers and plies
- Available in standard and custom carcass constructions
- 100% made in Fenner Dunlop's North American facilities



PLYLOK SUPREME® SPECIFICATION CHART — IMPERIAL

GENERAL DATA																																								
Fabric Ply	PSR 80					PSR 110					PSR 125					PSR 150					PSR 200					PSR 250					PSR 300					PSR 500				
Carcass Style	2-160	2-220	3-330	4-440	5-550	2-250	3-375	4-500	2-300	3-450	4-600	5-750	2-400	3-600	4-800	5-1000	6-1200	2-500	3-750	4-1000	5-1250	2-600	3-900	4-1200	5-1500	3-1500	4-2000													
Number of Plies	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4													
Carcass Gauge ³ (in)	0.110	0.122	0.176	0.216	0.276	0.132	0.188	0.234	0.150	0.183	0.252	0.321	0.186	0.237	0.324	0.411	0.498	0.198	0.255	0.348	0.441	0.182	0.285	0.388	0.491	0.432	0.584													
Carcass Weight ⁴ (lb/in/ft)	0.052	0.054	0.081	0.101	0.131	0.059	0.087	0.110	0.066	0.081	0.114	0.147	0.083	0.108	0.153	0.197	0.242	0.087	0.116	0.162	0.209	0.077	0.130	0.182	0.235	0.186	0.258													
Elastic Modulus (lbs/in)	26,000	35,000	45,000	55,000	65,000	30,000	35,000	55,000	37,000	47,000	57,000	67,000	44,000	72,000	82,000	105,000	132,000	62,000	72,000	90,000	98,000	63,000	84,000	100,000	108,000	108,000	134,000													
CONVEYOR BELT SPECIFICS																																								
Max. Tension Rating ² (PIW)	160	220	330	440	550	250	375	500	300	450	600	750	400	600	800	1000	1200	500	750	1000	1250	600	900	1200	1500	1500	2000													
Troughing/Empty¹ - Minimum Belt Width (in)																																								
20 Deg. Idlers	14	16	20	24	30	16	20	30	18	24	30	36	20	28	30	36	42	24	30	36	42	28	30	36	48	42	48													
35 Deg. Idlers	18	20	24	30	30	20	24	30	20	30	36	36	24	30	36	42	48	30	36	42	48	30	36	42	54	48	54													
45 Deg. Idlers	NR	24	30	36	36	24	30	36	28	36	42	42	30	36	42	48	54	36	42	48	54	36	42	48	60	54	60													
Load Support - Maximum Belt Width (in)																																								
20 Deg. Idlers 0-40 lbs/ft ²	36	48	60	72	72	36	72	84	60	72	84	84	66	84	96	96	96	72	84	96	96	72	96	96	96	96	96													
20 Deg. Idlers 41-80 lbs/ft ²	24	42	54	66	72	24	60	72	54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96													
20 Deg. Idlers 81-120 lbs/ft ²	24	36	48	60	66	24	54	66	48	54	72	84	54	66	84	84	84	60	72	84	84	60	72	84	84	84	84													
20 Deg. Idlers Over 120 lbs/ft ²	NR	30	42	54	60	NR	48	60	42	48	66	72	48	60	72	84	84	54	60	72	84	54	66	72	84	84	84													
35 Deg. Idlers 0-40 lbs/ft ²	36	42	54	72	72	48	60	72	54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96													
35 Deg. Idlers 41-80 lbs/ft ²	24	36	48	60	72	42	60	66	48	60	72	72	54	60	84	84	96	60	66	84	96	60	72	84	96	96	96													
35 Deg. Idlers 81-120 lbs/ft ²	24	30	42	54	60	36	54	60	42	54	66	66	48	54	72	72	84	54	60	72	84	54	60	72	84	84	84													
35 Deg. Idlers Over 120 lbs/ft ²	NR	24	36	48	54	30	42	54	36	42	54	60	42	48	60	66	84	48	54	66	72	48	54	66	84	72	84													
45 Deg. Idlers 0-40 lbs/ft ²	30	42	48	60	72	48	60	72	48	60	72	84	54	66	72	96	96	60	72	84	96	66	72	84	96	96	96													
45 Deg. Idlers 41-80 lbs/ft ²	24	36	42	54	66	36	54	60	42	48	66	72	48	60	72	96	96	54	66	72	96	54	66	72	96	84	96													
45 Deg. Idlers 81-120 lbs/ft ²	NR	30	36	48	54	30	48	54	36	48	60	60	42	54	60	42	84	48	54	60	84	48	60	66	84	72	84													
45 Deg. Idlers Over 120 lbs/ft ²	NR	24	30	42	48	NR	30	48	30	36	54	54	63	42	54	66	72	42	48	54	72	42	54	60	72	72	72													
Minimum Pulley Diameters (in)																																								
81-100% Belt Rated Tension	14	16	20	26	30	16	20	28	18	22	28	30	20	24	28	36	48	20	28	80	40	20	28	36	48	42	48													
61-80% Belt Rated Tension	12	14	18	20	24	14	18	24	16	16	24	24	18	20	24	32	40	18	24	24	32	18	22	30	36	36	42													
Up to 60% Belt Rated Tension	10	12	16	16	20	12	16	20	14	16	20	20	16	18	20	26	32	16	20	20	28	16	18	24	30	30	36													
ELEVATOR BELT SPECIFICS																																								
Maximum Tension Rating (PIW)																																								
Grain, Wood Chip Service 50 lbs/ft ³	120	190	280	370	475	210	320	425	260	390	520	645	345	520	690	870	1,030	425	645	870	1,060	520	765	1,030	1,275	1,275	1,700													
Industrial Service 100 lbs/ft ³	100	170	250	330	425	195	290	390	230	350	465	580	310	465	620	775	930	385	580	775	960	465	695	930	1,155	1,155	1,540													
Minimum Pulley Diameters (in)																																								
81-100% Belt Rated Tension	16	16	20	26	30	16	20	26	18	22	28	30	20	24	28	36	48	20	54	28	40	20	28	36	48	42	48													
61-80% Belt Rated Tension	14	14	18	20	24	14	18	20	16	18	24	24	18	20	24	32	40	18	20	24	32	18	22	30	36	36	42													
Up to 60% Belt Rated Tension	12	12	16	16	20	12	16	16	14	16	20	20	16	18	20	26	32	16	18	20	28	16	18	24	30	30	36													
Minimum Pulley Diameters (in)																																								
“Centrifugal” Elevators	6	6	8	10	10	7	9	11	7	10	11	11	10	10	11	12	12	10	11	12	12	10	11	12	12	12	14													
“Continuous” Elevators	NR	5	7	10	12	6	8	11	6	9	12	14	9	12	14	16	20	8	14	14	18	8	14	14	18	14	16													

¹ Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used. When in doubt, please contact your FDA representative for selection guidance.

² PSR tension ratings reflect a minimum 10:1 safety factor through the 750 PIW offerings, and an 8:1 minimum safety factor for the remaining higher tension offerings. With the appropriate fastener selection and installation, 4:1 minimum mechanical fastener safety factors can be achieved.

³ Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.

⁴ Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.

PLYLOK SUPREME® SPECIFICATION CHART — METRIC

GENERAL DATA																																								
Fabric Ply	PSR 80					PSR 110					PSR 125					PSR 150					PSR 200					PSR 250					PSR 300					PSR 500				
Carcass Style	2-160	2-220	3-330	4-440	5-550	2-250	3-375	4-500	2-300	3-450	4-600	5-750	2-400	3-600	4-800	5-1000	6-1200	2-500	3-750	4-1000	5-1250	2-600	3-900	4-1200	5-1500	3-1500	4-2000													
Number of Plies	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4													
Carcass Gauge ³ (mm)	2.8	3.1	4.5	5.5	7.0	3.4	4.8	5.9	3.8	4.6	6.4	8.2	4.7	6.0	8.2	10.4	12.7	5.0	6.5	8.8	11.2	4.6	7.2	9.9	12.5	11.0	14.8													
Carcass Weight ⁴ (kg/m ²)	3.0	3.2	4.7	5.9	7.7	3.5	5.1	6.5	3.8	4.8	6.7	8.6	4.9	6.3	9.0	11.6	14.1	5.1	6.8	9.5	12.3	4.5	7.6	10.7	13.8	10.9	15.1													
Elastic Modulus (N/mm)	4,550	6,125	7,875	9,625	11,375	5,250	6,125	9,625	6,475	8,225	9,975	11,725	7,700	12,600	14,350	18,375	23,100	10,850	12,600	15,750	17,150	11,025	14,700	17,500	18,900	18,900	23,450													

CONVEYOR BELT SPECIFICS																														
Max. Tension Rating ² (N/mm)	28	39	58	77	96	44	66	88	53	79	105	131	70	105	140	175	210	88	131	175	219	105	158	210	263	236	350			
Troughing/Empty¹ - Minimum Belt Width (mm)																														
20 Deg. Idlers	350	400	500	600	750	350	500	750	450	600	750	900	500	700	750	900	1,050	600	750	900	1,050	700	750	900	1,200	1,050	1,200			
35 Deg. Idlers	450	500	600	750	750	450	600	750	500	750	900	900	600	750	900	1,050	1,200	750	900	1,050	1,200	750	900	1,050	1,400	1,200	1,400			
45 Deg. Idlers	NR	600	750	900	900	600	750	900	700	900	1,050	1,050	750	900	1,050	1,200	1,400	900	1,050	1,200	1,400	900	1,050	1,200	1,500	1,400	1,500			
Load Support - Maximum Belt Width (mm)																														
20 Deg. Idlers 0-640 kg/m ³	900	1,200	1,500	1,800	1,800	1,400	1,800	1,900	1,500	1,800	2,150	2,150	1,700	2,150	2,450	2,450	2,450	1,800	2,150	2,450	2,450	1,800	2,450	2,450	2,450	2,450	2,450			
20 Deg. Idlers 641-1280 kg/m ³	750	1,050	1,400	1,700	1,800	1,200	1,500	1,800	1,400	1,500	2,150	2,150	1,500	1,800	2,450	2,450	2,450	1,700	1,800	2,450	2,450	1,800	2,150	2,450	2,450	2,450	2,450			
20 Deg. Idlers 1281-1920 kg/m ³	750	900	1,200	1,500	1,700	1,050	1,400	1,700	1,200	1,400	1,800	2,150	1,400	1,700	2,150	2,150	2,150	1,500	1,800	2,150	2,150	1,500	1,800	2,150	2,150	2,150	2,150			
20 Deg. Idlers Over 1920 kg/m ³	NR	750	1,050	1,400	1,500	900	1,200	1,500	1,050	1,200	1,700	1,800	1,200	1,500	1,800	2,150	2,150	1,400	1,500	1,800	2,150	1,400	1,700	1,800	2,150	2,150	2,150			
35 Deg. Idlers 0-640 kg/m ³	900	1,050	1,400	1,800	1,800	1,200	1,500	1,800	1,400	1,500	2,150	2,150	1,500	1,800	2,450	2,450	2,450	1,700	1,700	2,450	2,450	1,800	2,150	2,450	2,450	2,450	2,450			
35 Deg. Idlers 641-1280 kg/m ³	600	900	1,200	1,500	1,800	1,050	1,500	1,700	1,200	1,500	1,800	1,800	1,400	1,500	2,150	2,150	2,450	1,500	1,800	2,150	2,450	1,500	1,800	2,150	2,450	2,450	2,450			
35 Deg. Idlers 1281-1920 kg/m ³	600	750	1,050	1,400	1,500	900	1,400	1,500	1,050	1,400	1,700	1,700	1,200	1,400	1,800	1,800	2,150	1,400	1,500	1,800	2,150	1,400	1,500	1,800	2,150	2,150	2,150			
35 Deg. Idlers Over 1920 kg/m ³	NR	600	900	1,200	1,400	750	1,050	1,400	900	1,050	1,400	1,500	1,050	1,200	1,500	1,700	2,150	1,200	1,400	1,700	1,800	1,200	1,400	1,700	2,150	1,800	2,150			
45 Deg. Idlers 0-640 kg/m ³	750	1,050	1,200	1,500	1,800	1,200	1,500	1,800	1,200	1,500	1,800	2,150	1,400	1,700	1,800	2,450	2,450	1,500	1,800	2,150	2,450	1,700	1,800	2,150	2,150	2,450	2,450			
45 Deg. Idlers 641-1280 kg/m ³	600	900	1,050	1,400	1,700	900	1,400	1,500	1,050	1,200	1,700	1,800	1,200	1,500	1,800	2,450	2,450	1,400	1,700	1,88	2,450	1,400	1,700	1,800	2,150	2,150	2,450			
45 Deg. Idlers 1281-1920 kg/m ³	NR	750	900	1,200	1,400	750	1,200	1,400	900	1,200	1,500	1,500	1,050	1,400	1,500	1,800	2,150	1,200	1,400	1,500	2,150	1,200	1,500	1,700	2,150	1,800	2,150			
45 Deg. Idlers Over 1920 kg/m ³	NR	600	750	1,050	1,200	NA	900	1,200	750	900	1,400	1,400	900	1,050	1,400	1,700	1,800	1,050	1,200	1,400	1,800	1,050	1,400	1,800	1,800	1,800	1,800			
Minimum Pulley Diameters (in)																														
81-100% Belt Rated Tension	350	400	500	650	750	400	500	700	450	550	700	750	500	600	700	900	1,200	500	600	700	1,000	500	750	900	1,200	1,050	1,200			
61-80% Belt Rated Tension	300	350	450	500	600	350	450	600	400	450	600	600	450	500	600	800	1,000	450	500	600	800	450	550	750	900	900	1,050			
Up to 60% Belt Rated Tension	250	300	400	400	500	300	400	500	350	400	500	500	400	450	500	650	800	400	450	500	700	400	450	600	750	750	900			

ELEVATOR BELT SPECIFICS																														
Maximum Tension Rating (PIW)																														
Grain, Wood Chip Service (800 kg/m ³)	21	33	49	65	84	37	56	74	46	91	121	113	61	91	121	152	180	74	113	152	186	91	134	180	223	223	298			
Industrial Service (1600 kg/m ³)	18	30	44	58	74	34	51	67	40	81	109	102	54	81	109	136	163	67	102	136	168	81	122	163	202	202	270			
Minimum Pulley Diameters (in)																														
81-100% Belt Rated Tension	400	400	500	650	750	400	500	750	450	600	700	750	500	600	700	900	1,200	500	600	700	1,000	500	700	900	1,200	1,050	1,200			
61-80% Belt Rated Tension	350	350	450	500	600	350	450	600	400	500	600	600	450	500	600	800	1,000	450	500	600	800	450	550	750	900	900	1,050			
Up to 60% Belt Rated Tension	300	300	400	400	500	300	400	500	350	450	500	500	400	450	500	650	800	400	400	500	700	400	450	600	750	750	900			
Minimum Pulley Diameters (in)																														
“Centrifugal” Elevators	150	150	200	250	250	175	220	280	175	250	280	280	250	250	280	280	300	250	280	300	300	250	280	300	300	300	350			
“Continuous” Elevators	NR	120	175	250	300	150	200	280	150	300	300	350	220	300	350	350	500	250	350	350	450	200	350	350	450	350	400			

¹ Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used. When in doubt, please contact your FDA representative for selection guidance.

² PSR tension ratings reflect a minimum 10:1 safety factor through the 131 N/mm offerings, and an 8:1 minimum safety factor for the remaining higher tension offerings. With the appropriate fastener selection and installation, 4:1 minimum mechanical fastener safety factors can be achieved.

³ Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.

⁴ Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.

Tough Belts for Tough Applications

Fenner Dunlop is proud to offer the hardest working and longest-lasting conveyor belts in the world. We make our belts ourselves having complete quality control over the fabric production and treatment within North America. We do not import from other manufacturers in Asia or elsewhere. We set the standard for Conveyor Belts with our involvement in CEMA and ARPM. For over 150 years, we have researched, tested and developed our products using our own facilities. We employ world-leading experts who will ensure your belts last a lifetime!



(800) 661-2358

Industrial and Mining Conveyor Belting Sales



Fenner Dunlop

200 Corporate Center Drive, Suite 220
Coraopolis, PA 15108

Phone: 412-249-0700

Fax: 412-249-0701



www.fennerdunlopamericas.com

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CONVEYOR BELTING

