

PSR® *Longer belt life, greater cost savings*

Measurable, sustainable results... day in and day out

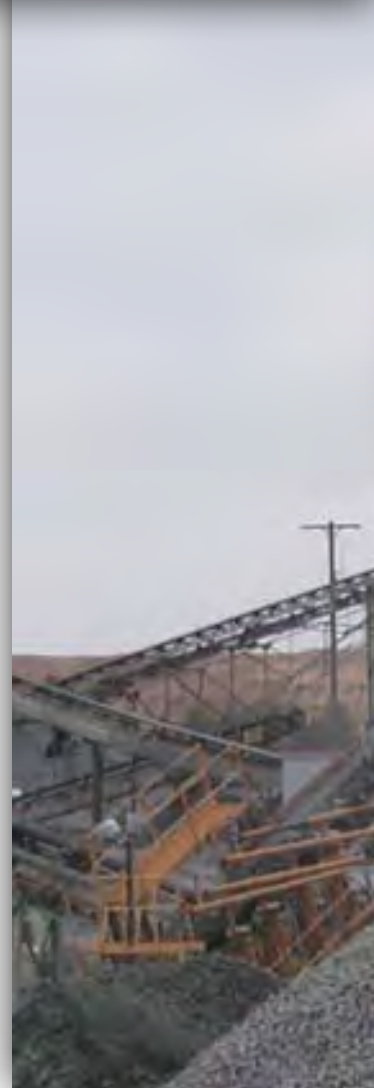
PSR, Fenner Dunlop's premium plied rubber belting, is what you want for heavy duty applications where you expect many years of service. The true workhorse in the belting industry, PSR is custom engineered for each application to ensure minimum downtime and maximum haulage.

Applications:

- **Aggregates**
- **Wood/paper products**
- **Sand & gravel**
- **Hard rock mining**
- **Steel/foundries**
- **Power generation**
- **Cement**
- **Coal/prep plants**
- **Bulk terminals**

Reasons to Count on PSR

- Low stretch
- Unsurpassed resistance to abrasion, 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 USA and Canada by Fenner Dunlop







PSR® Specification Table - "Imperial"

GENERAL DATA

Fabric Ply	PSR 80	PSR 110				PSR 125		
		2-160	2-220	3-330	4-440	5-550	2-250	3-375
Carcass Style	2	2	3	4	5	2	3	4
Number of Plies	2	2	3	4	5	2	3	4
Carcass Gauge ³ (in)	.110	.122	.176	.216	.276	.132	.188	.234
Carcass Weight ⁴ (lb/in/ft)	.052	.054	.081	.101	.131	.059	.087	.110
Elastic Modulus (lbs/in)	26000	35000	45000	55000	65000	30000	35000	55000

CONVEYOR BELT SPECIFICS

Max Tension Rating ² (PIW)	160	220	330	440	550	250	375	500
20 degree idlers	14	16	20	24	30	16	20	30
35 degree idlers	18	20	24	30	30	20	24	30
45 degree idlers	NR	24	30	36	36	24	30	36
Load Support ¹ – Max Belt Width (in)								
20 deg idlers 0 - 40 lbs/ft ³	36	48	60	72	72	54	72	84
20 deg idlers 41 - 80 lbs/ft ³	30	42	54	66	72	48	60	72
20 deg idlers 81 - 120 lbs/ft ³	30	36	48	60	66	42	54	66
20 deg idlers over 120 lbs/ft ³	NR	30	42	54	60	36	48	60
35 deg idlers 0 - 40 lbs/ft ³	36	42	54	72	72	48	60	72
35 deg idlers 41 - 80 lbs/ft ³	24	36	48	60	72	42	60	66
35 deg idlers 81 - 120 lbs/ft ³	24	30	42	54	60	36	54	60
35 deg idlers over 120 lbs/ft ³	NR	24	36	48	54	30	42	54
45 deg idlers 0 - 40 lbs/ft ³	30	42	48	60	72	48	60	72
45 deg idlers 41 - 80 lbs/ft ³	24	36	42	54	66	36	54	60
45 deg idlers 81 - 120 lbs/ft ³	NR	30	36	48	54	30	48	54
45 deg idlers over 120 lbs/ft ³	NR	24	30	42	48	NR	36	48
Minimum Pulley Diameters (in)								
81 – 100% belt rated tension	14	16	20	26	30	16	20	28
61 – 80% belt rated tension	12	14	18	20	24	14	18	24
Up to 60% belt rated tension	10	12	16	16	20	12	16	20

ELEVATOR BELT SPECIFICS

Maximum Tension Rating (PIW)								
"Grain, Wood Chip" Service (50 lbs/ft ³)	120	190	280	370	475	210	320	425
"Industrial" Service (100 lbs/ft ³)	100	170	250	330	425	195	290	390
Minimum Pulley Diameters (in)								
81 – 100% belt rated tension	16	16	20	26	30	16	20	26
61 – 80% belt rated tension	14	14	18	20	24	14	18	20
Up to 60% belt rated tension	12	12	16	16	20	12	16	16
Maximum Bucket Projection (in)								
"Centrifugal" Elevators	6	6	8	10	10	7	9	11
"Continuous" Elevators	NR	5	7	10	12	6	8	11

- 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.*
- 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.*
- Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.*
- Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.*

PSR 150				PSR 200					PSR 250				PSR 300				PSR 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
2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
.150	.183	.252	.321	.186	.237	.324	.411	.498	.198	.255	.348	.441	.182	.285	.388	.491	.432	.584
.066	.081	.114	.147	.083	.108	.153	.197	.242	.087	.116	.162	.209	.077	.130	.182	.235	.186	.258
37000	47000	57000	67000	44000	72000	82000	105000	132000	62000	72000	90000	98000	63000	84000	100000	108000	108000	134000
300	450	600	750	400	600	800	1000	1200	500	750	1000	1250	600	900	1200	1500	1500	2000
18	24	30	36	20	28	30	36	42	24	30	36	42	28	30	36	48	42	48
20	30	36	36	24	30	36	42	48	30	36	42	48	30	36	42	54	48	54
28	36	42	42	30	36	42	48	54	36	42	48	54	36	42	48	60	54	60
60	72	84	84	66	84	96	96	96	72	84	96	96	72	96	96	96	96	96
54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96
48	54	72	84	54	66	84	84	84	60	72	84	84	60	72	84	84	84	84
42	48	66	72	48	60	72	84	84	54	60	72	84	54	66	72	84	84	84
54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96
48	60	72	72	54	60	84	84	96	60	66	84	96	60	72	84	96	96	96
42	54	66	66	48	54	72	72	84	54	60	72	84	54	60	72	84	84	84
36	42	54	60	42	48	60	66	84	48	54	66	72	48	54	66	84	72	84
48	60	72	84	54	66	72	96	96	60	72	84	96	66	72	84	96	96	96
42	48	66	72	48	60	72	96	96	54	66	72	96	54	66	72	96	84	96
36	48	60	60	42	54	60	72	84	48	54	60	84	48	60	66	84	72	84
30	36	54	54	36	42	54	66	72	42	48	54	72	42	54	60	72	72	72
18	22	28	30	20	24	28	36	48	20	24	28	40	20	28	36	48	42	48
16	18	24	24	18	20	24	32	40	18	20	24	32	18	22	30	36	36	42
14	16	20	20	16	18	20	26	32	16	18	20	28	16	18	24	30	30	36
260	390	520	645	345	520	690	870	1030	425	645	870	1060	520	765	1030	1275	1275	1700
230	350	465	580	310	465	620	775	930	385	580	775	960	465	695	930	1155	1155	1540
18	22	28	30	20	24	28	36	48	20	24	28	40	20	28	36	48	42	48
16	18	24	24	18	20	24	32	40	18	20	24	32	18	22	30	36	36	42
14	16	20	20	16	18	20	26	32	16	18	20	28	16	18	24	30	30	36
7	10	11	11	10	10	11	12	12	10	11	12	12	10	11	12	12	12	14
6	9	12	14	9	12	14	16	20	8	14	14	18	8	14	14	18	14	16



PSR® Specification Table - "Metric"

GENERAL DATA

Fabric Ply	PSR 80	PSR 110				PSR 125		
	2-160	2-220	3-330	4-440	5-550	2-250	3-375	4-500
Carcass Style	2	2	3	4	5	2	3	4
Number of Plies	2	2	3	4	5	2	3	4
Carcass Gauge ³ (mm)	2.8	3.1	4.5	5.5	7.0	3.4	4.8	5.9
Carcass Weight ⁴ (kg/m ²)	3.0	3.2	4.7	5.9	7.7	3.5	5.1	6.5
Elastic Modulus (N/mm)	4550	6125	7875	9625	11375	5250	6125	9625

CONVEYOR BELT SPECIFICS

Max Tension Rating ² (N/mm)	28	39	58	77	96	44	66	88
Troughing/Empty¹ – Min Belt Width (mm)								
20 degree idlers	350	400	500	600	750	350	500	750
35 degree idlers	450	500	600	750	750	450	600	750
45 degree idlers	NR	600	750	900	900	600	750	900
Load Support¹ – Max Belt Width (mm)								
20 deg idlers 0 - 640 kg/m ³	900	1200	1500	1800	1800	1400	1800	1900
20 deg idlers 641- 1280 kg/m ³	750	1050	1400	1700	1800	1200	1500	1800
20 deg idlers 1281 - 1920 kg/m ³	750	900	1200	1500	1700	1050	1400	1700
20 deg idlers over 1920 kg/m ³	NR	750	1050	1400	1500	900	1200	1500
35 deg idlers 0 - 640 kg/m ³	900	1050	1400	1800	1800	1200	1500	1800
35 deg idlers 641- 1280 kg/m ³	600	900	1200	1500	1800	1050	1500	1700
35 deg idlers 1281 - 1920 kg/m ³	600	750	1050	1400	1500	900	1400	1500
35 deg idlers over 1920 kg/m ³	NR	600	900	1200	1400	750	1050	1400
45 deg idlers 0 - 640 kg/m ³	750	1050	1200	1500	1800	1200	1500	1800
45 deg idlers 641- 1280 kg/m ³	600	900	1050	1400	1700	900	1400	1500
45 deg idlers 1281 - 1920 kg/m ³	NR	750	900	1200	1400	750	1200	1400
45 deg idlers over 1920 kg/m ³	NR	600	750	1050	1200	NR	900	1200
Minimum Pulley Diameters (mm)								
81 – 100% belt rated tension	350	400	500	650	750	400	500	700
61 – 80% belt rated tension	300	350	450	500	600	350	450	600
Up to 60% belt rated tension	250	300	400	400	500	300	400	500

ELEVATOR BELT SPECIFICS

Maximum Tension Rating (N/mm)								
"Grain, Wood Chip" Service (800 kg/m ³)	21	33	49	65	83	37	56	74
"Industrial" Service (1600 kg/m ³)	18	30	44	58	74	34	51	67
Minimum Pulley Diameters (mm)								
81 – 100% belt rated tension	400	400	500	650	750	400	500	650
61 – 80% belt rated tension	350	350	450	500	600	350	450	500
Up to 60% belt rated tension	300	300	400	400	500	300	400	400
Maximum Bucket Projection (mm)								
"Centrifugal" Elevators	150	150	200	250	250	175	220	280
"Continuous" Elevators	NR	120	175	250	300	150	200	280

- 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.*
- PSR tensions reflect a minimum 10:1 safety factor through the 131 N/mm rated 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.*
- Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.*
- Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.*

PSR 150				PSR 200					PSR 250				PSR 300				PSR 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
2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
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
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
6475	8225	9975	11725	7700	12600	14350	18375	23100	10850	12600	15750	17150	11025	14700	17500	18900	18900	23450
53	79	105	131	70	105	140	175	210	88	131	175	219	105	158	210	263	263	350
450	600	750	900	500	700	750	900	1050	600	750	900	1050	700	750	900	1200	1050	1200
500	750	900	900	600	750	900	1050	1200	750	900	1050	1200	750	900	1050	1400	1200	1400
700	900	1050	1050	750	900	1050	1200	1400	900	1050	1200	1400	900	1050	1200	1500	1400	1500
1500	1800	2150	2150	1700	2150	2450	2450	2450	1800	2150	2450	2450	1800	2450	2450	2450	2450	2450
1400	1500	2150	2150	1500	1800	2450	2450	2450	1700	1800	2450	2450	1800	2150	2450	2450	2450	2450
1200	1400	1800	2150	1400	1700	2150	2150	2150	1500	1800	2150	2150	1500	1800	2150	2150	2150	2150
1050	1200	1700	1800	1200	1500	1800	2150	2150	1400	1500	1800	2150	1400	1700	1800	2150	2150	2150
1400	1500	2150	2150	1500	1800	2450	2450	2450	1700	1800	2450	2450	1800	2150	2450	2450	2450	2450
1200	1500	1800	1800	1400	1500	2150	2150	2450	1500	1700	2150	2450	1500	1800	2150	2450	2450	2450
1050	1400	1700	1700	1200	1400	1800	1800	2150	1400	1500	1800	2150	1400	1500	1800	2150	2150	2150
900	1050	1400	1500	1050	1200	1500	1700	2150	1200	1400	1700	1800	1200	1400	1700	2150	1800	2150
1200	1500	1800	2150	1400	1700	1800	2450	2450	1500	1800	2150	2450	1700	1800	2150	2150	2450	2450
1050	1200	1700	1800	1200	1500	1800	2450	2450	1400	1700	1800	2450	1400	1700	1800	2150	2150	2450
900	1200	1500	1500	1050	1400	1500	1800	2150	1200	1400	1500	2150	1200	1500	1700	2150	1800	2150
750	900	1400	1400	900	1050	1400	1700	1800	1050	1200	1400	1800	1050	1400	1800	1800	1800	1800
450	550	700	750	500	600	700	900	1200	500	600	700	1000	500	750	900	1200	1050	1200
400	450	600	600	450	500	600	800	1000	450	500	600	800	450	550	750	900	900	1050
350	400	500	500	400	450	500	650	800	400	450	500	700	400	450	600	750	750	900
46	68	91	113	61	91	121	152	180	74	113	152	186	91	134	180	223	223	298
40	61	81	102	54	81	109	136	163	67	102	136	168	81	122	163	202	202	270
450	550	700	750	500	600	700	900	1200	500	600	700	1000	500	700	900	1200	1050	1200
400	450	600	600	450	500	600	800	1000	450	500	600	800	450	550	750	900	900	1050
350	400	500	500	400	450	500	650	800	400	400	500	700	400	450	600	750	750	900
175	250	280	280	250	250	280	300	300	250	280	300	300	250	280	300	300	300	350
150	220	300	350	220	300	350	400	500	200	350	350	450	200	350	350	450	350	400