



## LongHaul® Belting *Mine Duty Surface Belt with Endurance!*

### Relax...let us carry your load!

**LongHaul** utilizes the same Fenner Dunlop developed fabrics as our successful MineHaul products, with the added flexibility of offering multiple compounds to meet a wide variety of surface and non-MSHA underground applications including compounds which meet ARPM Class 2 requirements.

#### Markets & Applications:

- **Aboveground coal handling**
- **Metals**
- **Hard rock and minerals**
- **Coal preparation plants**

#### Reasons to Count on LongHaul

- Low stretch
- Excellent troughability and load support
- Exceptional mechanical fastener retention
- Resistant to moisture, mildew and acid mine water
- Uses traditional diagonal lapped splice or Fenner Dunlop developed Finger Splice Technology
- Excellent adhesion between the covers and plies assures long service life
- Available in a variety of poly/nylon, poly/poly, and nylon/nylon constructions





# LongHaul SPECIFICATION TABLE – “Imperial & Metric”

## Imperial

Carcass Style	LH 2-400	LH 4-440	LH 2-500	LH 3-500	LH 2-600
Number of Plies	2	4	2	3	2
Carcass Gauge <sup>3</sup> (in)	.186	.216	.198	.195	.182
Carcass Weight <sup>4</sup> (lb/in/ft)	.083	.101	.087	.099	.077
Elastic Modulus (lbs/in)	44000	55000	62000	47000	63000
Max Tension Rating <sup>2</sup> (PIW)	400	440	500	500	600

Troughing/Empty <sup>1</sup> - Min Belt Width (in)					
20 degree idlers	20	24	24	24	28
35 degree idlers	24	30	30	30	30
45 degree idlers	30	36	36	36	36

Load Support <sup>1</sup> – Max Belt Width (in)					
20 deg idlers 41 – 80 lbs/ft <sup>3</sup>	60	66	66	60	72
35 deg idlers 41 – 80 lbs/ft <sup>3</sup>	54	60	60	60	60
45 deg idlers 41 – 80 lbs/ft <sup>3</sup>	48	54	54	54	54

Minimum Pulley Diameters (in)					
81 – 100% belt rated tension	20	26	20	22	20
61 – 80% belt rated tension	18	20	18	18	18
Up to 60% belt rated tension	16	16	16	16	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 LongHaul tension ratings reflect a minimum 10:1 safety factor through 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.



## Metric

Carcass Style	LH 2-400	LH 4-440	LH 2-500	LH 3-500	LH 2-600
Number of Plies	2	4	2	3	2
Carcass Gauge <sup>3</sup> (mm)	4.7	5.5	5.0	4.7	4.6
Carcass Weight <sup>4</sup> (kg/m <sup>2</sup> )	4.9	5.9	5.1	5.0	4.5
Elastic Modulus (N/mm)	7700	9625	10850	8225	11025
Max Tension Rating <sup>2</sup> (N/mm)	70	77	88	88	105

Troughing/Empty <sup>1</sup> - Min Belt Width (mm)					
20 degree idlers	500	600	600	600	700
35 degree idlers	600	750	750	750	750
45 degree idlers	750	900	900	900	900

Load Support <sup>1</sup> – Max Belt Width (mm)					
20 deg idlers 641 – 1280 kg/m <sup>3</sup>	1500	1700	1700	1500	1800
35 deg idlers 641 – 1280 kg/m <sup>3</sup>	1400	1500	1500	1500	1500
45 deg idlers 641 – 1280 kg/m <sup>3</sup>	1200	1400	1400	1400	1400

Minimum Pulley Diameters (mm)					
81 – 100% belt rated tension	500	650	500	550	500
61 – 80% belt rated tension	450	500	450	450	450
Up to 60% belt rated tension	400	400	400	400	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 LongHaul tension ratings reflect a minimum 10:1 safety factor through 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.



LH 3-600	LH 3-750	LH 4-800	LH 3-900	LH 4-1000	LH 2-1000	LH 4-1200	LH 5-1250	LH 3-1500	LH 4-2000
3	3	4	3	4	2	4	5	3	4
.237	.255	.324	.285	.348	.280	.388	.441	.432	.584
.108	.116	.153	.130	.162	.115	.182	.209	.186	.258
72000	72000	82000	94000	90000	82000	100000	98000	108000	134000
<b>600</b>	<b>750</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1000</b>	<b>1200</b>	<b>1250</b>	<b>1500</b>	<b>2000</b>
28	30	30	30	36	36	36	42	42	48
30	36	36	36	42	42	42	48	48	54
36	42	42	42	48	48	48	54	54	60
72	72	96	84	96	84	96	96	96	96
60	66	96	72	84	72	84	96	96	96
60	66	72	66	72	66	72	96	84	96
24	24	28	28	28	36	36	40	42	48
20	20	24	22	24	30	30	32	36	42
18	18	20	18	20	24	24	28	30	36

- 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 approximate overall belt weight.
- 5 For a complete listing of available LongHaul products and specifications, please contact your FDA representative.

LH 3-600	LH 3-750	LH 4-800	LH 3-900	LH 4-1000	LH 2-1000	LH 4-1200	LH 5-1250	LH 3-1500	LH 4-2000
3	3	4	3	4	2	4	5	3	4
6.0	6.5	8.2	7.2	8.8	7.1	9.9	11.2	11.0	14.8
7.1	6.8	9.0	7.6	9.5	6.7	10.7	12.3	10.9	15.1
12600	12600	14350	14700	15750	14350	17500	17150	18900	23450
<b>105</b>	<b>131</b>	<b>140</b>	<b>158</b>	<b>175</b>	<b>175</b>	<b>210</b>	<b>219</b>	<b>263</b>	<b>263</b>
700	750	750	750	900	900	900	1050	1050	1200
750	900	900	900	1050	1050	1050	1200	1200	1400
900	1050	1050	1050	1200	1200	1200	1400	1400	1500
1800	1800	2450	2150	2450	2150	2450	2450	2450	2450
1500	1700	2450	1800	2150	1800	2150	2450	2450	2450
1500	1700	1800	1700	1800	1700	1800	2450	2150	2450
600	600	700	700	700	900	900	1000	1050	1200
500	500	600	550	600	750	750	800	900	1050
450	450	500	450	500	600	600	700	750	900

- 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 approximate overall belt weight.
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