

LongFlex™ *Maximize Your Investment*

Brutal conveying conditions? Bring it on!

LongFlex utilizes the same unique fabric construction of our very successful MineFlex® product, with cover compounds designed to handle demanding surface and underground applications.

Markets & Applications:

- **Aboveground coal handling**
- **Hard rock and minerals**
- **Metals**
- **Overland/transfers**
- **Loadouts**
- **Coal preparation**

Reasons to Count on LongFlex

- Superior troughability, tracking and load support
- Compared to standard plied constructions, LongFlex offers:
 - up to 3 times greater impact resistance
 - up to 3 times more longitudinal rip resistance
 - greater flexibility
- Superior adhesions result in longer product life in difficult applications
- Available in single or dual unit carcass weaves
- Resistant to moisture, mildew and acid mine water
- State-of-the-art FDA developed Finger Splice Technology prolongs splice life and decreases unplanned belt maintenance
- LongFlex is not suitable for underground applications requiring MSHA CFR Title 30, Part 14 certification



LongFlex SPECIFICATION TABLE – “Imperial & Metric”



Imperial

Carcass Style	LF S3	LF S4	LF S5	LF D5	LF D6	LF D8	LF D10	LF D12	LF D15
Number of Plies	1	1	1	2	2	2	2	2	2
Carcass Gauge³ (in)	.139	.142	.169	.234	.270	.300	.320	.388	.439
Carcass Weight⁴ (lb/in/ft)	.043	.044	.058	.096	.112	.124	.137	.162	.187
Elastic Modulus (lbs/in)	35000	45000	50000	58000	50000	60000	70000	85000	92000
Max Tension Rating² (PIW)	330	440	550	550	660	800	1000	1250	1500
Troughing/Empty¹ - Min Belt Width (in)									
20 degree idlers	20	24	24	24	24	30	30	30	30
35 degree idlers	24	30	30	30	30	36	36	36	36
45 degree idlers	30	36	36	36	36	42	42	42	42
Load Support¹ – Max Belt Width (in)									
20 deg idlers	41 – 80 lbs/ft ³	66	72	72	84	84	96	96	96
35 deg idlers	41 – 80 lbs/ft ³	54	60	66	72	84	96	96	96
45 deg idlers	41 – 80 lbs/ft ³	48	54	60	72	84	96	96	96
Minimum Pulley Diameters (in)									
81 – 100% belt rated tension	18	20	20	24	30	36	36	36	36
61 – 80% belt rated tension	16	18	18	20	24	24	30	30	30
Up to 60% belt rated tension	14	16	16	18	20	20	24	24	24

- 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 LongFlex tension ratings reflect a minimum 10:1 safety factor through the 660 PIW offerings, and an 8:1 minimum safety factor for the remaining higher tension offerings. With the appropriate fastener selection and in stallation, 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.
- 5 For a complete listing of available LongFlex products and specifications, please contact your FDA representative.

Metric

Carcass Style	LF S3	LF S4	LF S5	LF D5	LF D6	LF D8	LF D10	LF D12	LF D15
Number of Plies	1	1	1	2	2	2	2	2	2
Carcass Gauge³ (mm)	3.5	3.6	4.3	5.6	6.9	7.6	8.1	9.9	11.2
Carcass Weight⁴ (kg/m²)	2.5	2.6	3.2	5.6	6.8	7.3	8.0	9.5	10.9
Elastic Modulus (N/mm)	6125	7875	8750	10125	8750	10500	12250	14875	16125
Max Tension Rating² (N/mm)	58	77	97	97	116	140	175	219	263
Troughing/Empty¹ - Min Belt Width (mm)									
20 degree idlers	500	600	600	600	600	750	750	750	750
35 degree idlers	600	750	750	750	750	900	900	900	900
45 degree idlers	750	900	900	900	900	1050	1050	1050	1050
Load Support¹ – Max Belt Width (mm)									
20 deg idlers	641 – 1280 kg/m ³	1700	1800	1800	2150	2150	2450	2450	2450
35 deg idlers	641 – 1280 kg/m ³	1400	1500	1700	1800	2150	2450	2450	2450
45 deg idlers	641 – 1280 kg/m ³	1200	1400	1500	1800	2150	2450	2450	2450
Minimum Pulley Diameters (mm)									
81 – 100% belt rated tension	450	500	500	600	750	900	900	900	900
61 – 80% belt rated tension	400	450	450	500	600	600	750	750	750
Up to 60% belt rated tension	350	400	400	450	500	500	600	600	600

- 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 LongFlex tensions reflect a minimum 10:1 safety factor through the 116 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.

- 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.
- 5 For a complete listing of available LongFlex products and specifications, please contact your FDA representative.