U.S. RUBBER CORP.

LOAD STAR SPECIFICATIONS

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LOAD STAR	FABRIC STYLE	LOAD STAR 110			LOAD STAR 125			LOAD STAR 150				LOAD STAR 200					LOAD STAR 250			LOAD STAR 300				LOAD STAR 300		
SPECIFICATIONS	BELT STYLE	2-220	3-330	4-440	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	2-600	3-900	4-1200	5-1500	2-800	3-1200	4-1600
Number of Plies		2	3	4	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	2	3	4	5	2	3	4
Working Strength PIW	Mechanical	220	330	440	250	375	500	300	450	600	750	400	600	800	1000	1200	500	750	1000	600	900	1200	1500	800	1200	1600
Rating pounds PIW	Vulcanized	220	330	440	250	375	500	330	500	660	830	440	660	880	1100	1320	550	825	1100	660	990	1320	1650	880	1320	1760
Approx. Carcass Gauge		.116	.165	.215	.128	.186	.247	.160	.206	.280	.354	.163	.225	.300	.379	.453	.200	.280	.380	.240	.370	.510	.660	.300	.450	.630
Approx. Carcass Wt. PlW/ft		.060	.080	.115	060	.092	.130	.105	.115	.152	.192	.105	.115	.152	.194	.235	.108	.152	.206	.130	.200	.276	.358	.164	.244	.341
Average Cover Wt. per 1/16"	Gauge PIW/ft.	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033
Impact Rating (Foot-Pounds)		460	665	875	490	728	1031	680	994	1310	1497	805	1000	1135	1220	1290	915	1115	1165	930	1130	1240	1300			
CONVEYOR BELT CRITERIA																										
MINIMUM PULLEY DIAMETER																										
81-100% TENSION		16"	18"	24"	16"	18"	24"	16"	22"	28"	30"	18”	24”	30”	36”	42”	24”	30”	36”	22”	36”	42”	45”			
61-80% TENSION		14"	16"	20"	14"	16"	20"	14"	18"	22"	24"	16”	20”	24”	30”	36”	20”	24”	30”	18”	30”	33”	40”			
UP TO 60% TENSION		10"	12"	16"	12"	14"	18"	12"	16"	20"	20"	14”	18”	20”	24”	30”	18”	20”	24”	16”	26”	30”	33”			
MINIMUM BELT WIDTH FOR EMPTY BELT TROUGHING																										
20 Degree Idlers		16"	24"	30"	16"	24"	30"	18"	24"	30"	36"	24”	30”	36”	42”	48”	30”	36”	42”	30”	42”	48”	54”			
35 Degree Idlers		18"	24"	30"	18"	24"	30"	24"	30"	36"	36"	30”	30”	36”	42”	48”	36”	36”	42”	30”	42”	48”	54”			
45 Degree Idlers		30"	30"	36"	24"	30"	36"	24"	30"	36"	42"	30”	36”	42”	48”	54”	36”	42”	48”	36”	48”	54”	60”			
MAXIMUM BELT WIDTH FOR LOAD SUPPORT																										
20 Degree Idlers 0-40	#/CU.FT.	54"	66"	72"	54"	72"	72"	72"	72"	72"	72"	66”	72”	72”	72”	72”	72”	72”	72”	72”	72”	72”	72”			
41-80	#/CU.FT.	42"	60"	72"	48"	60"	72"	60"	66"	72"	72"	60”	72”	72”	72”	72”	66”	72”	72”	72”	72”	72”	72”			
81-120	#/CU.FT.	42"	54"	72"	42"	54"	72"	54"	60"	72"	72"	54”	72”	72”	72”	72”	60”	72”	72”	60”	72”	72”	72”			
Over 120	#/CU.FT.	36"	48"	60"	36"	48"	60"	48"	54"	66"	72"	48”	60”	72”	72”	72”	54”	60”	72”	54”	60”	72”	72”			
35 Degree Idlers 0-40	#/CU.FT.	48"	60"	72"	48"	60"	72"	60"	66"	72"	72"	66”	72”	72”	72”	72”	72”	72”	72”	72”	72”	72”	72”			
41-80	#/CU.FT.	42"	54"	66"	42"	60"	60"	54"	60"	72"	72"	60”	60”	72”	72”	72”	66”	66”	72”	60”	72”	72”	72”			
81-120	#/CU.FT.	36"	48"	60"	42"	54"	60"	48"	54"	66"	72"	54”	60”	72”	72”	72”	60”	66”	72”	54”	72”	72”	72”			
Over 120	#/CU.FT.	30"	42"	54"	30"	42"	54"	42"	48"	60"	66"	48”	54”	60”	66”	72”	54”	60”	72”	48”	60”	72”	72”			
45 Degree Idlers 0-40	#/CU.FT.	48"	54"	72"	48"	54"	72"	60"	60"	72"	72"	60”	72”	72”	72”	72”	66”	66”	72”	72”	66”	72”	72”			
41-80	#/CU.FT.	36"	48"	60"	36"	48"	54"	48"	54"	66"	72"	54”	54”	72”	72”	72”	60”	66”	72”	54”	60”	72”	72”			
81-120	#/CU.FT.	30"	42"	54"	30"	48"	54"	42"	48"	60"	66"	48”	54”	60”	72”	72”	54”	54”	72”	48”	60”	72”	72”			
Over 120	#/CU.FT.	30"	36"	48"	NR	36"	48"	36"	42"	54"	60"	42”	48”	54”	60”	72”	48”	48”	72”	42”	54”	72”	72”			
ELEVATOR BELT CRITERIA																										
ELEVATOR TENSION RATINGS (PIW)		190	280	370	200	290	385	260	390	520	645	345	520	690	870	1030	425	630	850	520	755	1015	1215			
MINIMUM PULLEY DIAMETERS																										
81-100% Tension		18"	18"	24"	16"	18"	24"	18"	22"	30"	36"	22”	26”	36”	42”	48”	26”	32”	42”	24”	36”	45”	54”			
61-80% Tension		16"	16"	20"	14"	16"	22"	16"	20"	24"	30"	20”	24”	30”	36”	42”	24”	28”	36”	22”	30”	38”	48”			
Up to 60% Tension		12"	14"	18"	12"	14"	20"	14"	18"	20"	24"	18”	22”	24”	30”	36”	22”	26”	30”	20”	28”	33”	42”			
MAXIMUM BUCKET PROJECTION																										
100# 'CU.FT.I" OR LESS																										
Spaced Industrial		6"	7"	10"	7"	8"	10"	7"	9"	10"	11"	9”	10”	11”	12”	12”	10”	11”	12”	10”	11”	12”	12”			
Continuous Industrial		5"	7"	10"	6"	8"	10"	7"	9"	12"	14"	9”	12”	14”	16”	20”	11”	14”	16”	8”	13”	16”	18”			

- Fastener selection is based on belt thickness, pulley diameters and working tension of the belt. Please refer to fastener manufacturer's specifications for proper fastener selection.

- Minimum pulley diameters are dependent on the type of splice, fastener used, belt tension and belt tension required.
- Troughabilly and Load Support can be dependent on cover gauges and compounds used.
- Impact rating is based on the use of proper rubber impact idlers or bed plus proper loading and transfer conditions. Rating are based on 10% lumps and 90% fines or sized material up to 4" lumps. If proper impact idlers or beds are not used, impact rating is downgraded by half or less depending upon the conditions.

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