

RAIDER CONVEYOR BELT DATA - Imperial (AS OF Jan 2005)

	RAIDER	RAIDER
	220	330
Plies	2	3
Fabric Type*	P/P OR P/N	P/P OR P/N
Vulcanized & Fastener Rating (piw)	220	330
Impact index **	1	1.3
Carcass Gauge (in.)	.105 MINIMUM	.150 MINIMUM
Carcass Weight (lbs/sq.ft.)	0.72	0.98
Approx 1/32" cover wt (lbs/sq.ft.)	0.19	0.19
Avg. Permanent Elongation (%) **	0.80	0.80
Elastic modulus (piw)	22,000 TO 28,000	33,000 TO 42,000
Step Length (in.)	10	10
Recommended Plate Fastener	140	190
Hinge	R2	R2
Hinge	U35A	U35A

RAIDER rated belt tension can exceed 100%, with a maximum of 150%, during starting and stopping conditions.

Fastener size recommendation may vary due to cover thickness. *P/P = Polyester/Polyester P/N = POLYESTER/NYLON

**Impact index provides a relative impact absorption value on any Goodyear Construction assuming that the material size, material shape, drop height, impact idlers/bed, top cover and pulley cover on the same.

*** Average Permanent elongation values at 100% of rated belt tension are based on ISO 9856 test procedure. Consult Goodyear field sales or GAD for elastic & total elongation calculations specific to each system based on Minuteman 2000 calculations.

RAIDER LOAD SUPPORT (Maximum Belt Width) (in.)

Construction	Material Weight		0-40 lbs/cu.ft.			41-80 lbs/cu.ft.			81-120 lbs/cu.ft.			Over 120 lbs/cu.ft.		
		Idlers=	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg
RAIDER	220	2	48	42	36	48	36	36	42	36	30	36	30	NR
RAIDER	330	3	60	54	48	60	48	42	54	48	42	48	42	36

On systems with troughing idler spacing greater than 5 ft. OR idler roll gap greater than 1/2", consult Goodyear.

RAIDER TROUGHABILITY (Minimum Belt Width) (in.) (Table based on ISO 703 Testing Procedure)

	RAIDER	RAIDER
	220	330
	2	3
20 degree idlers	14	18
35 degree idlers	18	24
45 degree idlers	24	30

If top cover and pulley cover are balanced (ie. 3/16x3/16) or less than 1/16" differential (ie. 3/16x5/32), add 6" to the minimum belt width.

Additional break in time is required when the belt has been stored prior to insulation in ambient temperatures of less than 50 degrees Fahrenheit

RAIDER MINIMUM PULLEY DIAMETERS (in.)

	RAIDER	RAIDER
	220	330
	2	3
Over 80% Tension	16	18
60% to 80% Tension	14	16
40% to 60% Tension	10	12
Up to 40% Tension	10	12
Tails and Snubs	10	12