



## Technical

### CALCULATING HORSEPOWER - SLIDER BED

#### SLIDER BED BELT CONVEYORS

+ Product (Total Live Load)

+ Belt Weight (see below)

+ 250 Drive Weight

= Subtotal

x .30 Friction Factor

x 1.25 Contingency Factor

= Effective Belt Pull

x Speed of Conveyor

÷ 33,000 Horsepower Factor

÷ .95 Chain Reductions

÷ .85 GRE/ Reducer Losses

= Horsepower

### BELT WEIGHTS

BELT WIDTH	6"	12"	18"	24"	30"	36"	42"	48"
BELT	BELT WEIGHTS (lbs.) PER FOOT OF BELTING (Not Conveyor)							
PVC-120 (CxFS)	.51	1.02	1.53	2.04	2.55	3.06	3.57	4.08
PVC-120 (FSxFS)	.24	.48	.72	.96	1.20	1.44	1.68	1.92
PVC RUFF TOP	.45	.90	1.35	1.80	2.25	2.70	3.15	3.60

NOTE: PVC-150 (CxFS) is .241 #/ft. with 2-1/4" belt width.