

Mine Duty drum pulleys were originally designed for the underground coal industry for longwall mining. Longwall conveyors have belt tensions that change depending on the varying length of the conveyor. The conveyor gets longer as it is extended along the cut in the coal seam. The uncertainty in the loading conditions leads to a conveyor pulley design that is actually stronger than the shaft it is mounted on.

Because of their heavy duty construction and proven track record in the underground industry, mine duty pulleys are often used above ground to take advantage of their added service factor. VAN GORP® standard mine duty pulleys are available in diameters ranging from 12" to 60" and face widths to 76". Many types of lagging are available including SBR, Neoprene and Static Conductive Neoprene.

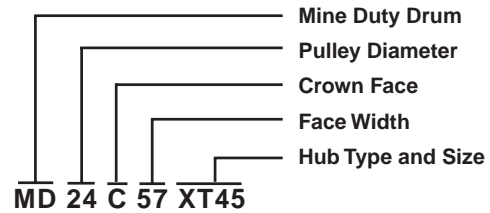
There are no ANSI/CEMA standards that govern the load ratings or material thickness of Mine Duty pulleys. The following chart compares the additional service factor that the VAN GORP® Mine Duty has compared to the ANSI/CEMA ratings for a standard pulley.



**Table No. 9**

Pulley Size	Shaft Diameter	Bearing Centers	ANSI/CEMA Load Rating	Mine Duty Service Factor
14 X 26	3 7/16"	32"	11,600	1.58
18 X 32	4 7/16"	40"	19,000	2.06
24 X 44	5 7/16"	54"	26,600	2.01
36 X 57	7"	69"	49,000	2.19

**Part Number Example**



NOTE: The ANSI/CEMA ratings represents the maximum load for the shaft for a 8,000 psi bending stress. The service factor represents the ratio of the pulley load rating to the shaft load rating.

