

Make a Change In Direction

Safely and efficiently re-direct your ropes using Thern Redline Vertical Lead Blocks.



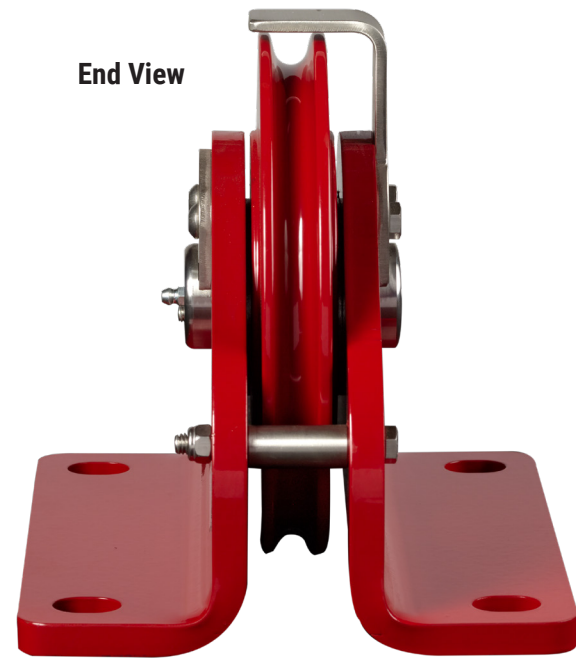
For Ropes 1/4" - 1/2" in Diameters

- Up to 7000 lbs Line Load
- Cable Keepers on Top and Sides of Sheave
- Versatile Configurations
- Design in Accordance with ASME B30.26
- Durable Powder Coat Finish



VERTICAL LEAD BLOCKS

The Redline Series is used to change the direction of the rope, so the winch can be mounted in a convenient location. The Redline Lead Block will control the path of the rope to avoid obstacles, reduce hazard, and extend rope life.



Large Diameter Sheaves

- Large D:d ratios
- Helps to reduce wear and tear to extend rope life

Steel Sheaves

- For added strength and long life

Top and Side Cable Keepers

- Provides additional security to prevent rope from jumping out of the sheave in slack line condition
- Allows for a variety of rope configurations

Sealed Needle Roller Bearings

- Provide smooth rotation with load bearing strength for larger loads, couples with easy maintenance
- Easily accessible grease fittings

Powder Coat Finish

- Provides durable corrosion resistance for harsh environments



Low Profile Design with Wide Mounting Base

- Provides strength and stability to support high load capacity in many configurations

MOUNTING FASTENERS

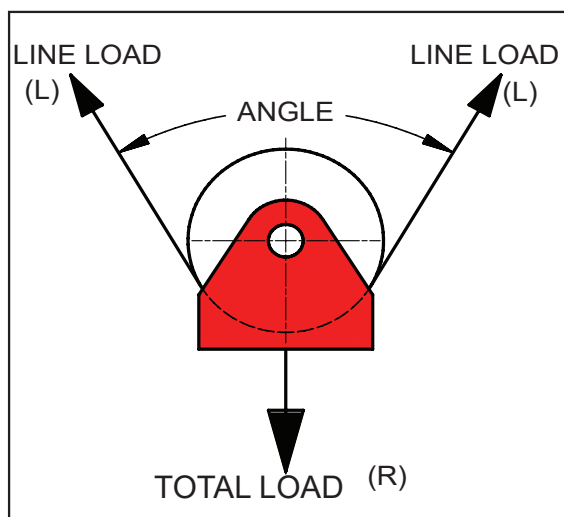
Model Number	
VLB-G25	7/16 inch Grade 5 min or M12 grade 8.8 min
VLB-G31	1/2 inch Grade 5 min or M12 grade 8.8 min
VLB-G38	5/8 inch Grade 5 min or M16 grade 8.8 min
VLB-G44	3/4 inch Grade 5 min or M20 grade 8.8 min
VLB-G50	3/4 inch Grade 5 min or M20 grade 8.8 min

Performance Specs

SPECIFICATION BY MODEL

Model Number	Sheave Outer Diameter (In)	Rope Diameter (In)	Total Working Load Limit, R	Line Load Limit, L (LBS)
VLB-G25	4 1/2 (114mm)	1/4 (6 mm)	4000 (1814 kg)	2000 (907 kg)
VLB-G31	6 (152 mm)	5/16 (8 mm)	6000 (2722 kg)	3000 (1361 kg)
VLB-G38	7 (178 mm)	3/8 (10 mm)	9600 (4354 kg)	4800 (2177 kg)
VLB-G44	8 (203 mm)	7/16 (11 mm)	11600 (5262 kg)	5800 (2631 kg)
VLB-G50	9 (229 mm)	1/2 (13 mm)	14000 (6350 kg)	7000 (3175 kg)

LOAD FACTOR DIAGRAM



When in service the Line Load Limit must not be exceeded. To calculate an applied Line Load from a known Total Load, the following formula can be used:

$$\text{Line Load} = \text{Total Load} / K$$

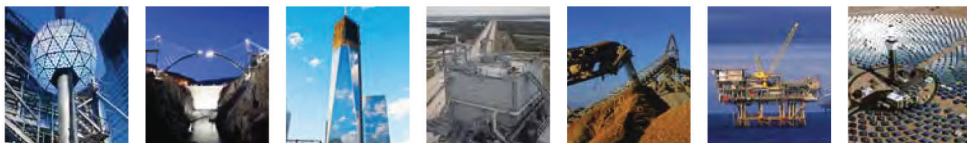
***IMPORTANT:** The applied Line Load must also not exceed the level appropriate for the utilized rope.

LOAD FACTOR

TABLE*

ANGLE (DEGREES)	FACTOR (K)
0	2.00
10	1.99
20	1.97
30	1.93
40	1.87
45	1.84
50	1.81
60	1.73
70	1.64
80	1.53
90	1.41
100	1.29
110	1.15
120	1.00
130	0.84
135	0.76
140	0.68
150	0.52
160	0.35
170	0.17
180	0.00

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