



Rigging Accessories

VERTICAL LEAD BLOCKS



thern.com
(507) 454-2996

VERTICAL LEAD BLOCKS



MAKE A CHANGE IN DIRECTION with THERN REDLINE VERTICAL LEAD BLOCKS

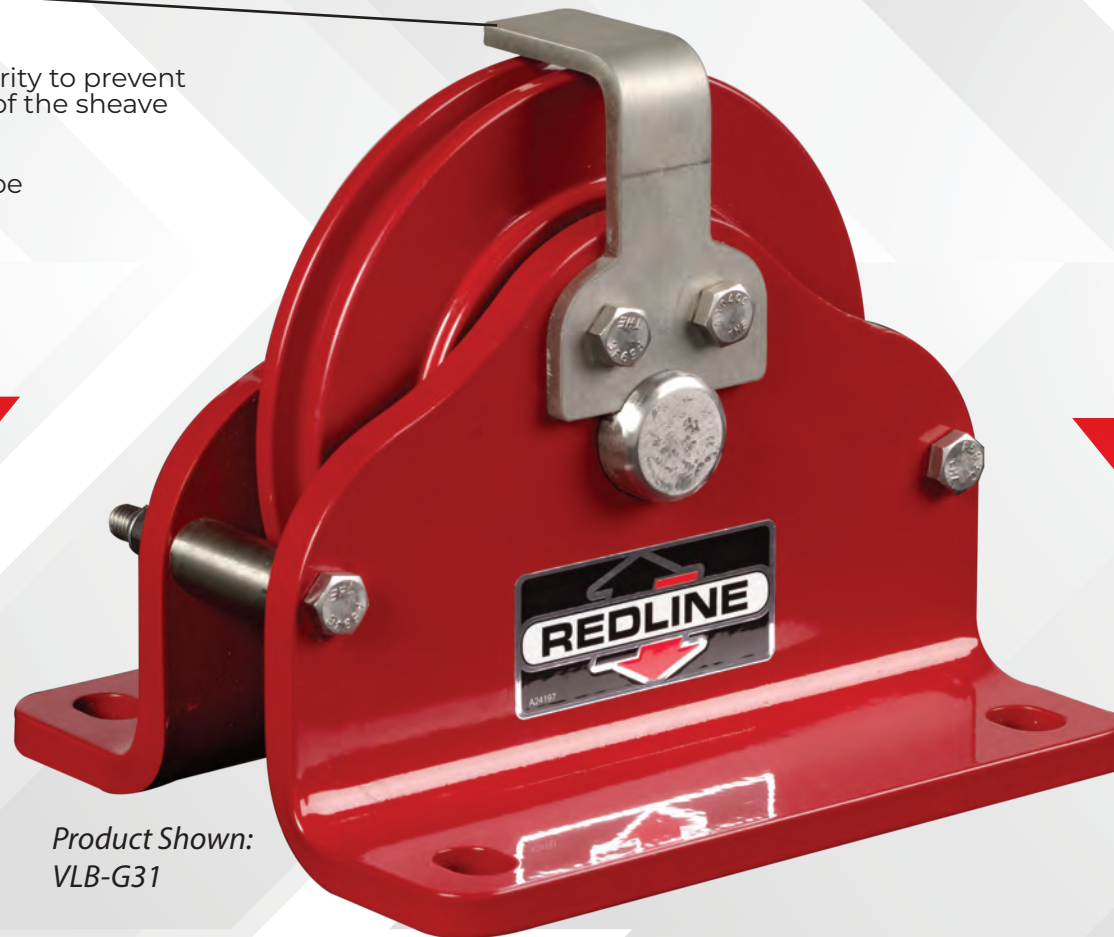
The Redline Series is used to change the direction of the rope, so the winch can be mounted in a convenient location. The Redline Lead Block will control the path of the rope to avoid obstacles, reduce hazard, and extend rope life.

Top and Side Cable Keepers

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

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



Product Shown:
VLB-G31

Low Profile Design with Wide Mounting Base

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

SEALED NEEDLE ROLLER BEARINGS

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

PERFORMANCE

Series	IMPERIAL				
	Sheave Outer Diameter	Rope Diameter	Total Working Load Limit, R	Line Load Limit, L	Finish
VLB-G25	4.5 in	1/4 in	4000 lbs	2000 lbs	Powder Coat
VLB-G31	6 in	5/16 in	6000 lbs	3000 lbs	Powder Coat
VLB-G38	7 in	3/8 in	9600 lbs	4800 lbs	Powder Coat
VLB-G44	8 in	7/16 in	11,600 lbs	5800 lbs	Powder Coat
VLB-G50	9 in	1/2 in	14,000 lbs	7000 lbs	Powder Coat

Series	METRIC				
	Sheave Outer Diameter	Rope Diameter	Total Working Load Limit, R	Line Load Limit, L	Finish
VLB-G25	114 mm	6 mm	1814 kg	907 kg	Powder Coat
VLB-G31	152 mm	8 mm	2722 kg	1361 kg	Powder Coat
VLB-G38	178 mm	10 mm	4354 kg	2177 kg	Powder Coat
VLB-G44	203 mm	11 mm	5262 kg	2631 kg	Powder Coat
VLB-G50	229 mm	13 mm	6350 kg	3175 kg	Powder Coat



NOTICE: These products are not for lifting people or things over people.

Refer to technical pages for detailed performance information.

TECHNICAL PERFORMANCE SPECIFICATIONS

VERTICAL LEAD BLOCKS

MOUNTING FASTENERS

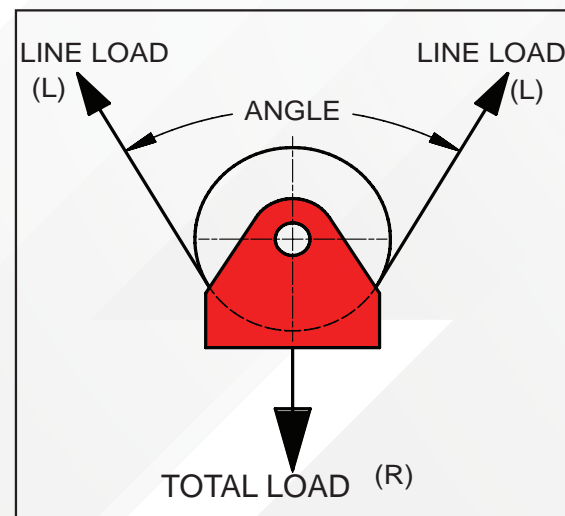
Model Number	
VLB-G25	7/16 inch Grade 5 min or M12 grade 8.8 min
VLB-G31	1/2 inch Grade 5 min or M12 grade 8.8 min
VLB-G38	5/8 inch Grade 5 min or M16 grade 8.8 min
VLB-G44	3/4 inch Grade 5 min or M20 grade 8.8 min
VLB-G50	3/4 inch Grade 5 min or M20 grade 8.8 min

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



MADE IN USA 

Thern, Incorporated

World Headquarters
5712 Industrial Park Road Winona, MN USA
Toll Free: 1-800-843-7648
Phone: 1-507-454-2996
www.thern.com

Thern Europe

Bedrijvenpark Twente 454e
7602 KM Almelo The Netherlands
Phone: +31-546-898-380
europa@thern.com