The Hogsback Kit

A lightweight system for moderate angle litter evacuations

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Developed

By

Portland Mountain Rescue on the South side of Oregon's Mount Hood

Using Dyneema rope

The Hogsback Kit

Designed for a moderate angle litter evacuation down a long snow slope.

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Influenced by the trend toward light and fast alpinism, PMR began to examine it's rescue systems with an eye toward faster rescues.

We decreased the weight of our rescue system from 90 pounds to 44 pounds while maintaining a 10:1 SSSF.

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The biggest benefit is speed in getting to the patient. Typically, our approach begins with a snow cat ride to 8400' then a climb to the Hogsback at 10,500'.

But there is a cost: The system is designed for moderate angle slopes, less than 30 degrees.

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Components include:

600’ of Mamutec Marlin paraloc rope

Four pickets

Two “webolettes”

Two brake bar racks

Two mini PMP’s

Three prusiks

Six locking biners

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In use, four rescuers serve as the belay.

The litter with four rescuers is lowered from the anchor while another rescuer is sent down 600' to set up the next anchor station.

An anchor station consists of two pickets a webolette, and a brake bar rack.

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Lowering from an anchor station.

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Properties of ropes we considered

	Hogsback rope comparison data					
MFG	**Rope size and name**	**Material and construction**	**MBS**	**Weight for 600 ft**	**Elongation @10% of MBS**	**Price for 600 ft.**
Sterling	8mm Personal Escape Rope	nylon	3754	17.4	Data not available	$ 295.00
Sterling	9mm HTP Static	poly sheath / poly core	5058	25.2	2.5	$ 312.00
Sterling	9mm Sterling nylon SuperStatic	nylon	4901	22.8	4.7	$ 366.00
CMC	8.2 mm Escape rope	Poly sheath / nylon core	4200	21	Data not available	$ 462.00
Samson	5/16" Warpspeed	Dyneema	6200	18	0.044	$ 768.00
Mamutec	9mm Paraloc, EN 1891 Rescue and Safety	PA?? Nylon	4400	20.57	3.5% at 330 Lbs	$ 792.00
Mamutec	8mm Marlin Paraloc (Marine)	Poly sheath/ Dyneema Core (interwoven)	4400	15	2.75% @ 1000 daN	$ 712.80

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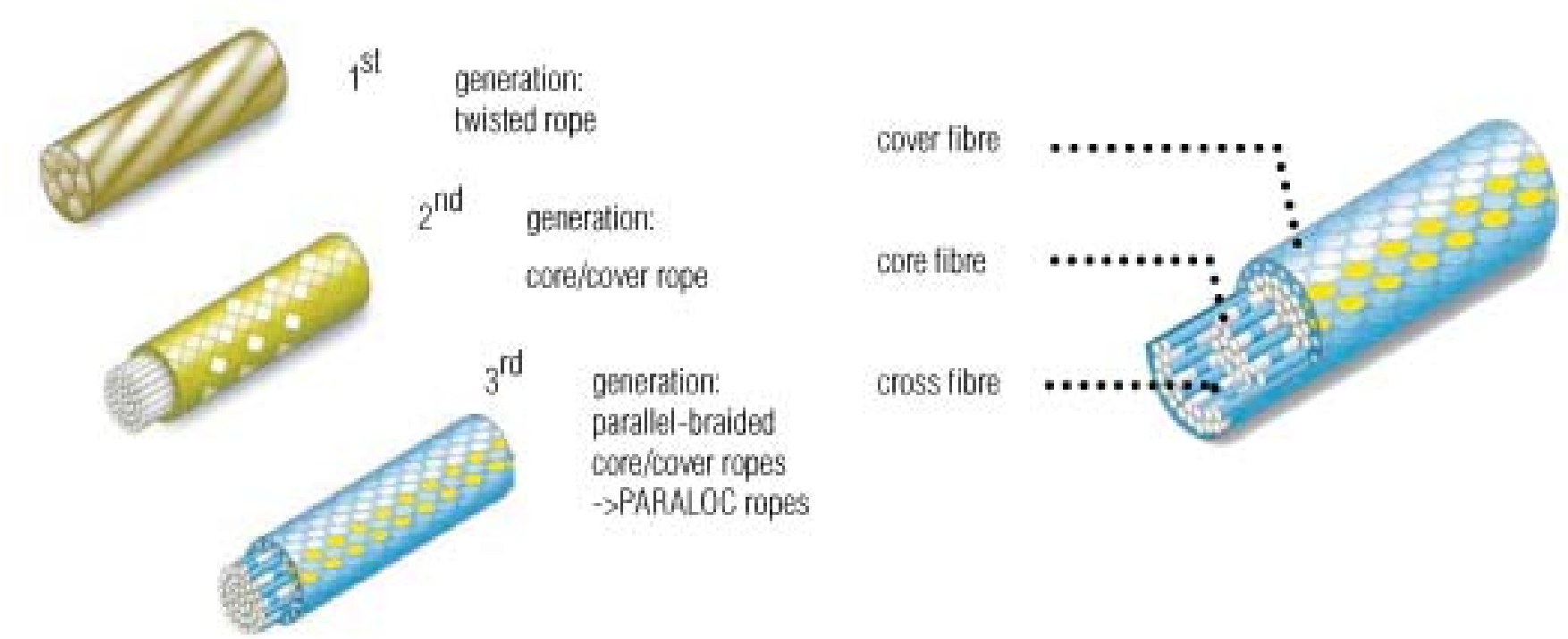

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For more information:

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