GHSC – LIFELINE EQUIPMENT LIST

Grain Handling Safety Coalition

Commercial Use – components are generally heavier duty to withstand more use in a harsher environment. Generally more expensive, with greater life expectancy. Can be used in both farm and commercial settings.	**Farm Use** – components are generally lighter duty and provide lower initial cost.

KNOT PASSING PULLEY & CLOTHESLINE COMPONENTS

Picture	Component	Rating Entity	Specifications	Description/Notes
	Stainless Steel Kootenay Knot Passing Pulley -	NFPA 1983/ANSI/OSHA	8,542 lbs	Commercial Use Pulley will allow the knots and carabiners of the lifeline to pass through the pulley during lifeline installation.
	Aluminum Knot Passing Pulley –	NFPA 1983/ANSI/OSHA	8,542 to 9000 lbs	Farm Use Pulley will allow the knots and carabiners of the lifeline to pass through the pulley during lifeline installation.
	Clothesline – rope or prusik cordage			Used to transfer lifeline through knot passing pulley.

	Stainless Steel Prusik Minding Pulley	NFPA 1983/ANSI/OSHA Strength Specs	MBS 8993 lbS WLL 899 lbs	Commercial Use – Non-load bearing use. Mounted at the bin eave, under the roof, by the roof manway access door for the clothesline (transfer line) to run through so it moves freely and easily. Prevents entanglement of the lifeline during installation/removal and so the clothesline (transfer line) operates smoothly and efficiently to install the lifeline.
	Aluminum Prusik Minding Pulley	NFPA 1983/ANSI/OSHA Strength Specs	MBS 8993 lbs WLL 899 lbs	Farm Use – Non-load bearing use Mounted at the bin eave, under the roof, by the roof manway access door for the clothesline (transfer line) to run through so it moves freely and easily. Prevents entanglement of the lifeline during installation/removal and so the clothesline (transfer line) operates smoothly and efficiently to install the lifeline.
	12mm ScrewLink	2007.08.02		Screwlinks are used to connect the pulleys to the anchors.
ANCHORS				
Picture	**Component**	**Rating Entity**	**Specifications**	**Description/Notes**
	Forged “D” Anchor Bracket	ANSI Z359.1 CSA Z259.12-00	MBS 5,000 lbs WLL 400 lbs	D-Forged Anchorage Connector, This anchor may be used as a permanent or portable anchor. It is specifically designed for fall protection, work positioning, or restraint.

	10K Swivel Anchor	ANSI Z359.1 CE EN 795	MBS 10,000 lbs WLL 5,000 lbs	This swivel anchor may be used as a permanent or portable anchor. It is specifically designed for fall protection, work positioning, restraint, tie back anchoring, four-man life line systems, and more. This anchor can be removed and used again. The steel bolt is designed to be used in steel.
	Beam Clamp Anchor	ANSI Z359.1 CSA	WLL 2,000 lbs	This anchorage is designed to fit I-beams from 3" to 9.25". Simple installation, removable. Meets ANSI, CSA, and OSHA anchorage requirements
BIN ENTRY COMPONENTS				
HARDWARE				
Picture	**Component**	**Rating Entity**	**Specifications**	**Description/Notes**
	Auto Locking Carabiners	NFPA 1983 G or ANSI Z359.1	MBS 15,737 lbs WLL 1574 lbs	Used to link components together. Should have several (4-6).
	Manufactured slings, or sewn loops, or	These pictured from Rescue Tech have a strength of 6745 lbs and WLL of 675 pounds. Meets CE, EN 354, ED 795B.	ANSI Z359 rope & webbing used in descent device must have minimum breaking strength ≥ 3,000 pounds (13.3kN). Rope & webbing used in hoist must have breaking strength ≥ 4500 pounds (20.0 kN)	There is no NFPA or ANSI rating for sewn loops. OSHA has a guide document & use chart: https://www.osha.gov/dsg/guidance/slings/synth-web.html

	Extractor CSR Pulley	– NFPA 1983 Gen Use & CE EN 12278	MBS 8993 lbs WLL 900 lbs	Commercial Use Auto locking rope grab. Operator lets go of string and the cam automatically activates and grabs the rope stopping the descent. Can be rigged to lower person in event of a rescue.
	Micro Extractor CSR Pulley	NFPA/ANSI/OSHA	MBS 7000 lbs WLL 700 lbs	Farm Use Auto locking rope grab. Operator lets go of string and the cam automatically activates and grabs the rope stopping the descent. Can be rigged to lower person in event of a rescue.
	RIG (Petzl) - compact self-braking descender	Certification(s): EN 341 class A, CE EN 12841 type C, NFPA 1983 Technical Use, EAC; UL. Descent control type 4	3147 lbs; WLL 330.6 lbs.	Farm Use Can be utilized as a belay device. Locks during a fall/jerk on the rope or if the operator changes the handle position to manually lock it up. May not auto lock during entrapment if fall/jerk does not exert enough rapid downward force and would require belayer to manually lock device to stop descent.
	I'D S (Petzl) - Self-braking descender with anti-panic function	Certification(s): EN 341 class A, CE EN 12841 type C, NFPA 1983 Technical Use, EAC; UL. Belay device. Descent control type 3;	Evacuation WLL 330.6 lbs	Farm Use Can be utilized as a belay device. Locks during a fall/jerk on the rope or if the operator changes the handle position to manually lock it up. May not auto lock during entrapment if fall/jerk does not exert enough rapid downward force and would require belayer to manually lock device to stop descent.

	I'D L (Petzl) - Self-braking descender for rescue, with anti-panic function	Certification(s): EN 341 classe A, CE EN 12841 type C, ANSI Z359.4, NFPA 1983 General Use, EAC	4945.8 lbs; Lowering 330.6 lbs - 600 lbs with the I'D L on the anchor; Belaying loads up to 600 lbs..	Commercial Use Can be utilized as a belay device. Locks during a fall/jerk on the rope or if the operator changes the handle position to manually lock it up. May not auto lock during entrapment if fall/jerk does not exert enough rapid downward force & would require belayer to manually lock device to stop descent.
	"Y"-Lanyard w/ Rebar Hooks	OSHA 1926 Subpart M; OSHA 1910; ANSI A10.32; ANSI Z359.1; CSA Z259.11, CSA Z259.12	5000 lbs	Used to secure the attendant if appropriate fall protection (railings, cages), is not present.
SOFTWARE				
Picture	**Component**	**Rating Entity**	**Specifications**	**Description/Notes**
	Class III Full Body Harness – Rescue rated	CSA Z259.10-06 / ANSI Z359.1, Z359.3, Z359.4 & A10.32 / OSHA 1926		Should have a front and back D-rings and suspension relief system
	Static Kernmantle Lifeline Rope	½" Rescue Lifeline - NFPA 1983 by UL 7/16" Rescue Lifeline – NFPA 1983 by UL	1/2" – MBS 9960 lbs 7/16" – MBS 7330 lbs	Commercial Use Farm Use