

NORTHERN STRANDS

Bin Safe System

Presented by Jesse Kope, Sales & Marketing Manger

The Northern Strands Group of Companies



Safety Share



About Northern Strands

- ▶ With health and safety in mind, Northern Strands has been supplying industry since 1970.
- ▶ Evolving into 6 major divisions, Northern Strands can offer the needed tools and technical knowledge in the following sectors:
 - ▶ Mine Hoisting & Attachments
 - ▶ General Rigging
 - ▶ Engineered Fall protection
 - ▶ Suspended Access
 - ▶ Grain Terminal Equipment & Services
 - ▶ Safety Training



What is the Bin Safe System?

- ▶ Patented Engineered Grain Bin Fall Protection System
- ▶ Cutting-Edge product designed to protect farm workers from a fall while climbing or accessing a grain bin for repairs or inspections

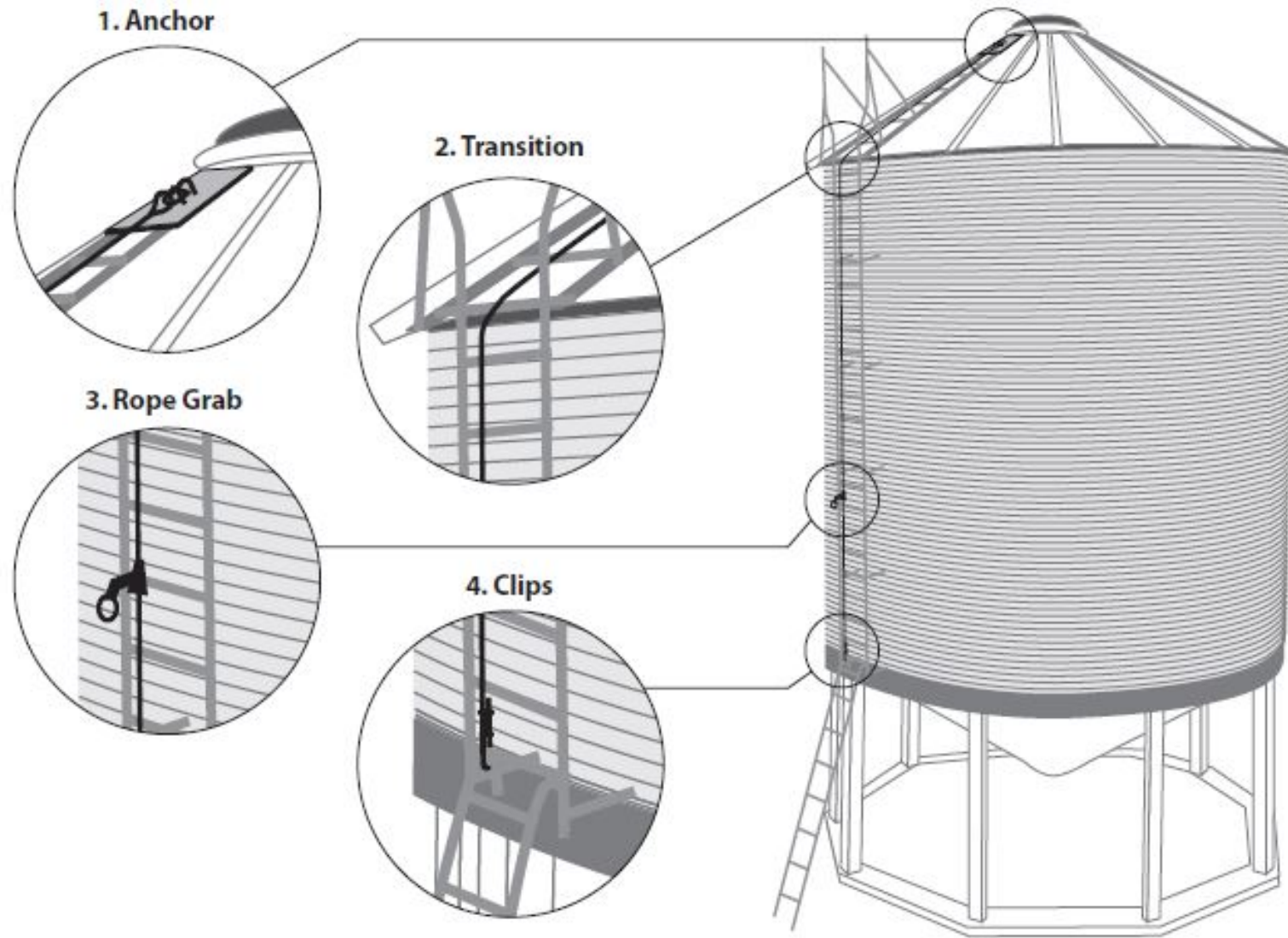


Components of the Bin Safe System

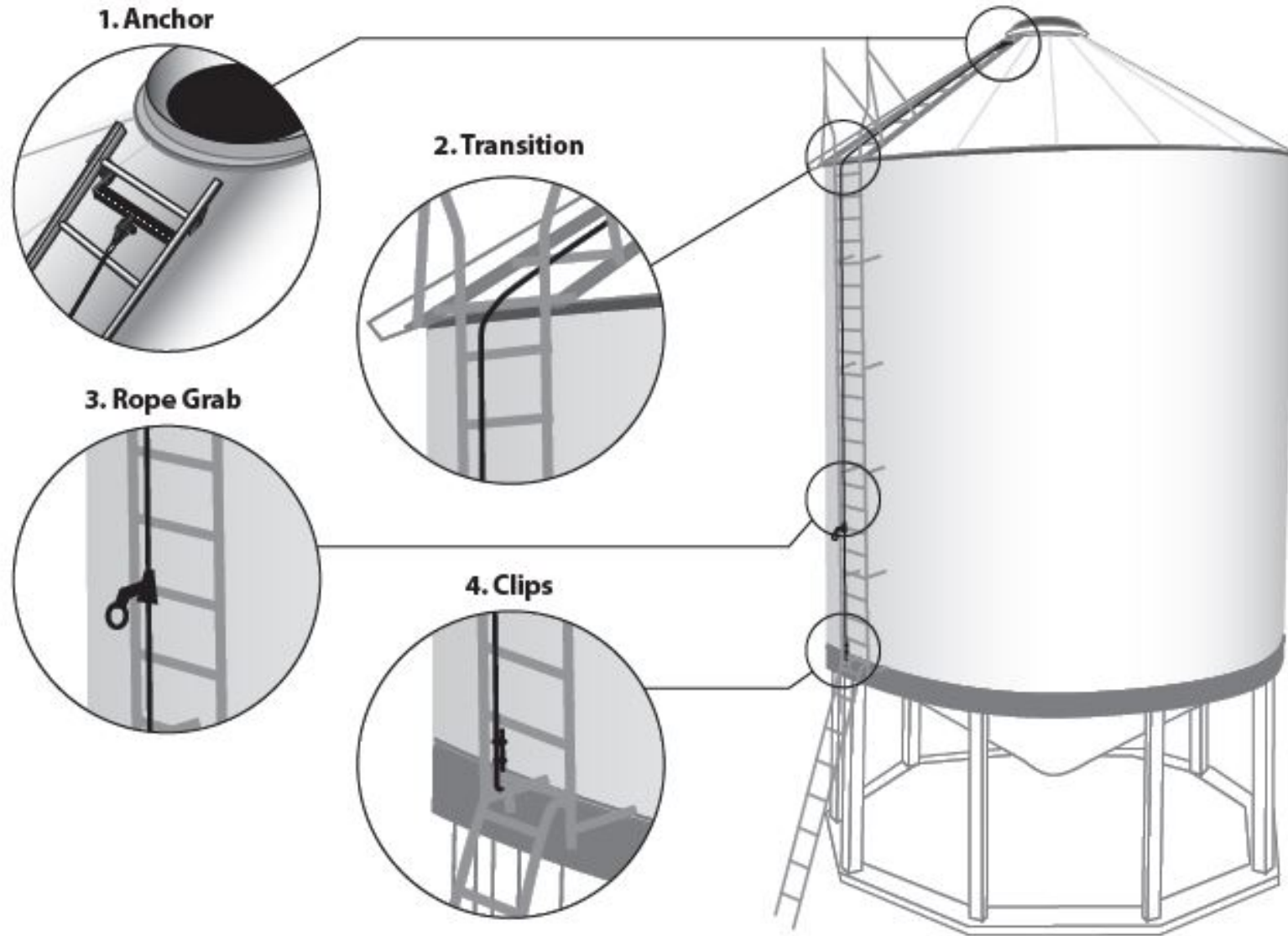
- ▶ Smooth & Corrugated Wall Bin Kits
 - ▶ 40', 60', or 80' wire rope
 - ▶ Bin Safe Anchor
 - ▶ All hardware needed for a single bin
- ▶ User Kit
 - ▶ Compatible with both smooth wall and corrugated bin kits
 - ▶ Includes a 3' lanyard, fall protection harness, and rope grab
 - ▶ One user kit will service all bins



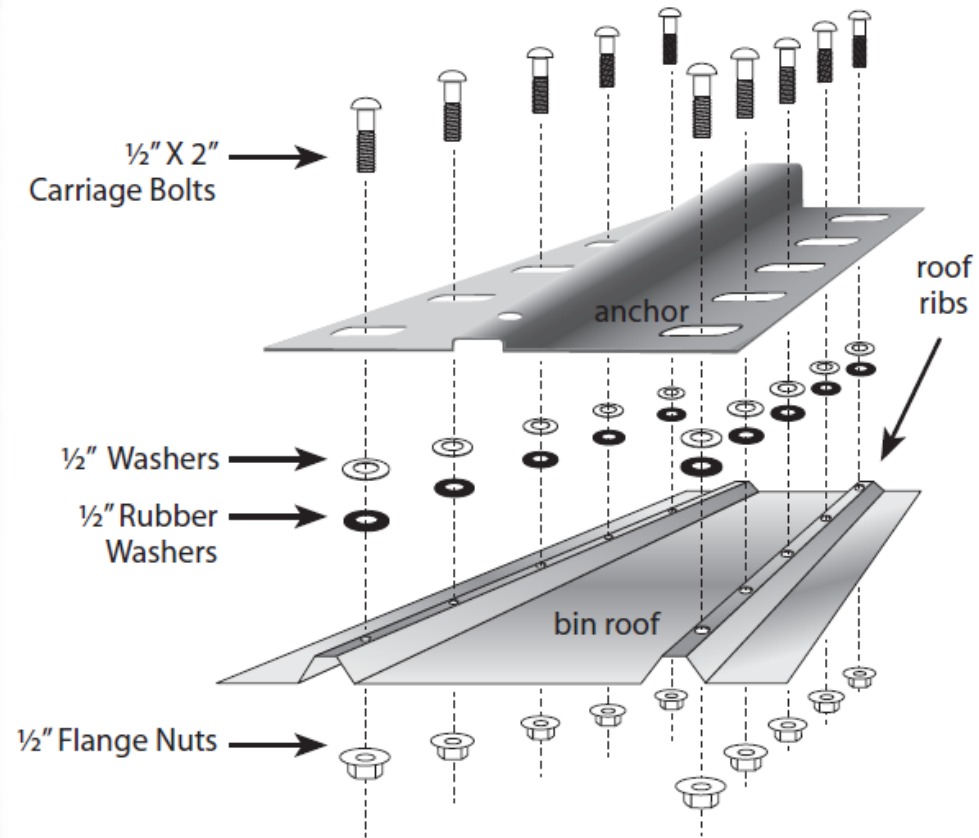
Bin Safe Installation Corrugated Wall Bins



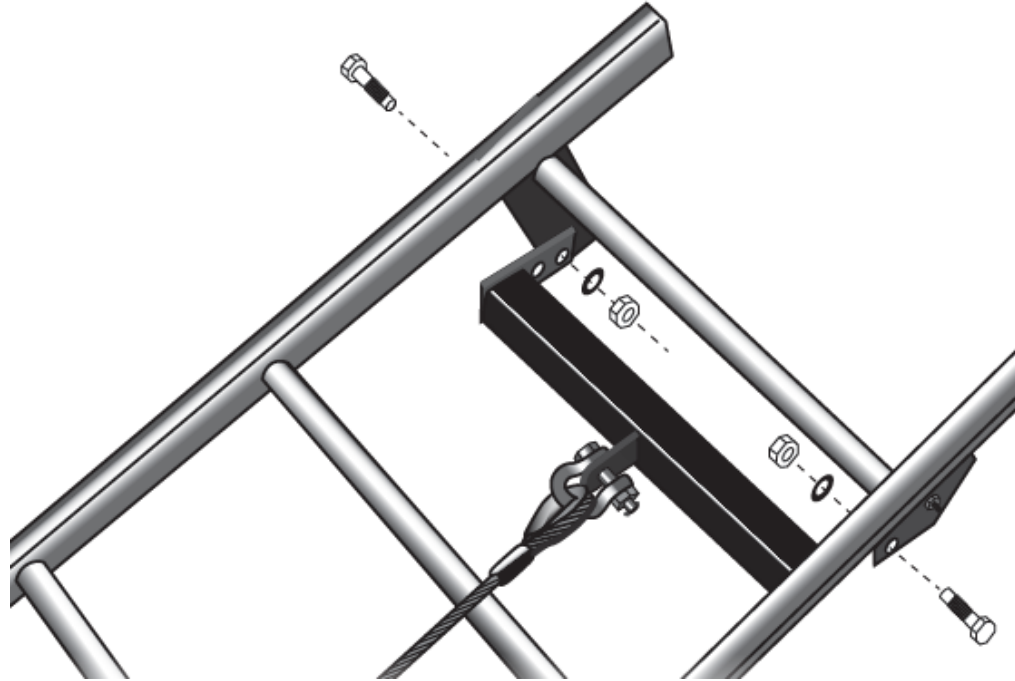
Bin Safe Installation Cont. Smooth Wall Bins



Components Cont. Corrugated Anchor

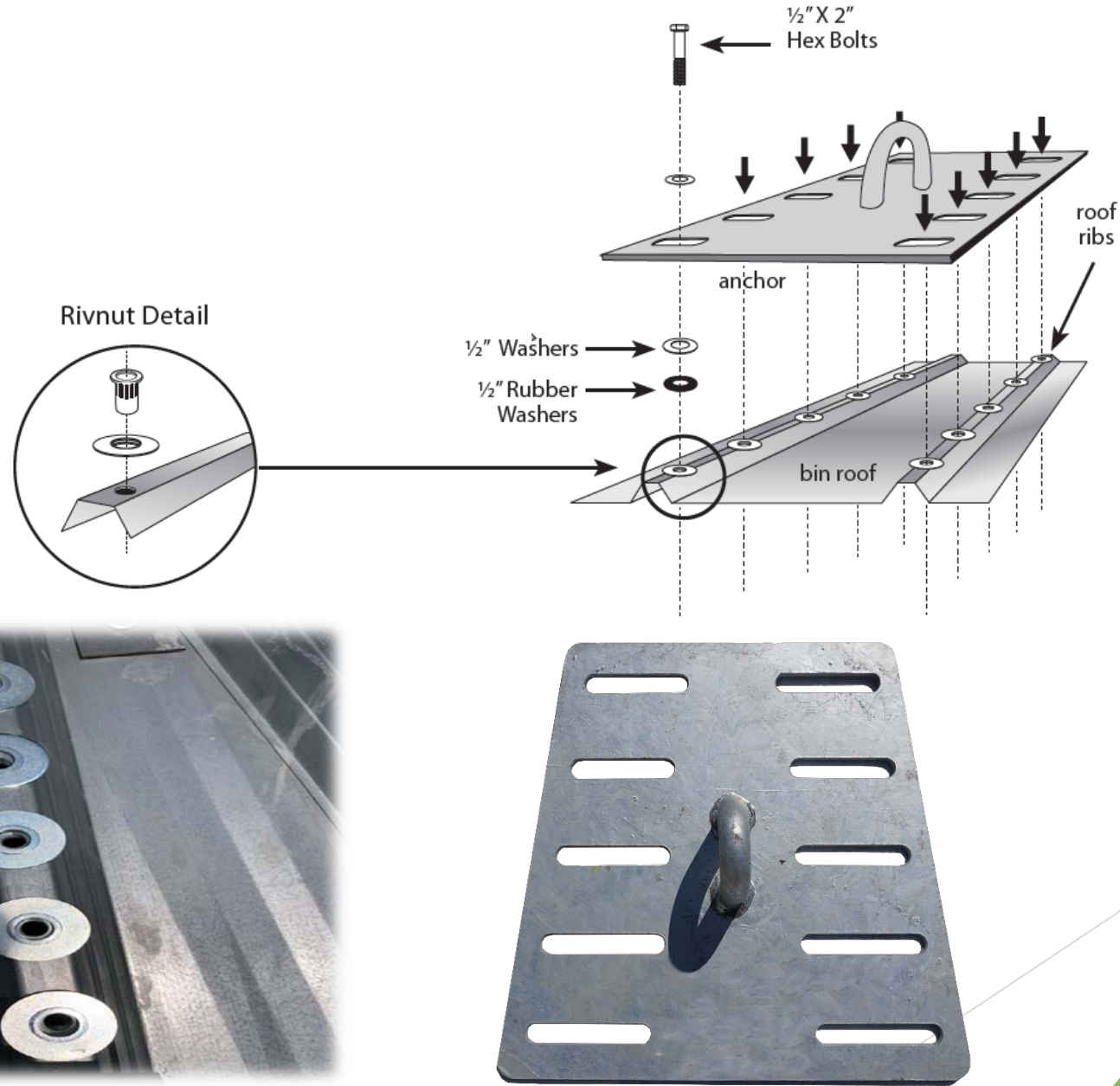


Components Cont. Smooth Wall Anchor



Components Cont. Blind Bolt Anchor

- The Blind Bolt Anchor is used when it is impossible to reach inside the bin opening to install the anchor.
- Ex. Darmani Bins



Components Cont. Standing Seam Anchor

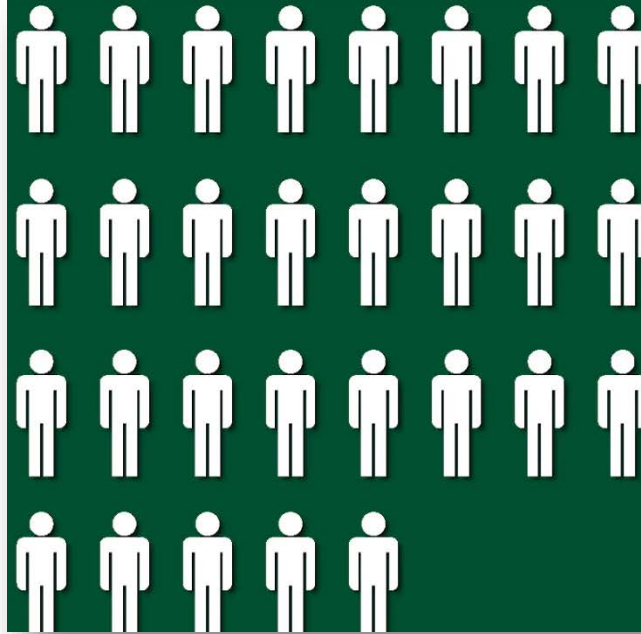
- ▶ The Standing Seam Anchor is designed for Corrugated Wall bins in instances where the typical anchor does not fit.
- ▶ Ex. Darmani Chief J-Rib



Why Did We Invent a Grain Bin Fall Protection System?

Did you know?

In 2015 there were 1,633 lost time injuries in Saskatchewan alone from workplace falls.
- WCB Saskatchewan



"37 Canadians died from asphyxiation from falling in grain bins and injuries from falling from grain bins between 2003 - 2012."

- Canadian Agriculture Injury Reporting

How did We Develop the Bin Safe System?

- ▶ Northern Strands has spent hundreds of hours on R&D, on site installations, and pull testing.
- ▶ Each engineered anchor developed has been pull tested to 5,000 lbs



Common Engineering Questions

- ▶ Is the Bin Safe System CSA Z259 compliant?
- ▶ What kind of fall arrest clearances are required by the system?
- ▶ Will Bin Safe work with a ladder cage?
- ▶ Is the bin roof strong enough? Doesn't it buckle before 5000lbs?
- ▶ What about the shock loads on the system?



Do Farmers Need Fall Protection by Law?

- ▶ In all provinces it is required that farms with employees abide by OH&S regulations. This means farm owners have an obligation to provide fall protection for paid employees.
- ▶ As of November 2018, grain bin cages no longer count as fall protection in the United States with the rest of the world to soon follow suit.



What is the Response from Farmers?

- Do farm workers want Bin Safe and other safety products on their farm?



Award Winning System



2018

First Place Winner

Ag Innovations

Award Winning System



2019
First Place Winner
Farm Safety Feature

Award Winning System



 **Ag in Motion**
Western Canada's Outdoor Farm Expo

2019

Innovation Award
Agriculture Equipment

Northern Strands

Media Coverage

- ▶ Bin Safe has received media coverage from a variety of sources including:
 - ▶ Alberta Farmer Express
 - ▶ Manitoba Co-Operator
 - ▶ Western Producer
 - ▶ Grain News
 - ▶ Winnipeg Free Press
 - ▶ Real Agriculture Online
 - ▶ Manitoba Ag Days
 - ▶ Agri-Trade
 - ▶ Farm News Now
 - ▶ Canada's Outdoor Farm Show
 - ▶ Glacier Media Group Podcast
 - ▶ CJWW Radio
 - ▶ CTV News
 - ▶ Ag in Motion





Questions?



Thank You.