Snow Removal Platform

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Introduction

• A snow removal platform is used to remove snow and ice from the roofs of trucks.
• Around the year 2000, due to some road accidents, the Quebec government made it mandatory to remove snow and ice from all vehicles prior to driving.
• Ariva quickly built a platform to comply with the new change.
• In 2012 an employee suffered an elbow injury on this platform and was on light duties for three days.
• Investigation found that it was built from an existing racking system next to a wall with a portable ladder welded to this system.
Introduction

- This platform did not meet the Working at Heights standards under the Occupational Health and Safety Act.
- Recommendation – to find a solution to safely clean snow from the top of trucks.
Market Research
Design – Stage 1

- Found a vendor and reviewed the Ariva Health & Safety and Operation requirements.
- A draft drawing was provided by an engineer.
Design – Stage 2

- Gate 1 - to prevent unauthorized access
- Gate 2 – to prevent falls from stairs
- Slope was designed to mimic staircase for easy ascending and descending
Design – Stage 3

- City approval was required due to zoning laws.
- Unable to install the platform at the front of the building
- Uneven pavement
- After 6 months of negotiation with the city the platform was installed.
Final Product

- Meets the regulation.
- Allows drivers to remove snow & ice while preventing falls.
- Prevents unauthorized access.
- Prevents being struck against

A roof rake is used to remove snow and ice which is stored on the platform.
In The Winter!!

- Galvanized steel to prevent rusting in cold and wet conditions
- Platform and steps are grated to prevent slips
- Shovel provided to clean snow near the gate
Cost and Results

• Platform - $20,000
• Pavement - $10,000
• Zero injuries after the installation
• Satisfied employees – recommended to changed the direction in which the gate opens
• Plan to install the same platform at another facility in the near future
That's all Folks!
Any Question?