

# DELTA

PREVENTION

A construction worker wearing a blue hard hat and a high-visibility yellow vest is crouching on a rooftop, working on a large HVAC unit. The worker is using a tool to adjust or repair the unit. The background shows a clear blue sky and some rooftop equipment. A large red diagonal graphic element is overlaid on the left side of the image.

## ROOF FALL PROTECTION SOLUTIONS & EQUIPMENT

**ECOLLECTIVE**  
Fall Protection



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The fall protection solution  
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## ABOUT DELTA PREVENTION

Delta Prevention is a Canadian manufacturer of permanent, collective and versatile fall arrest solutions. All our equipment is designed and manufactured to save lives and maintain the integrity of your building while respecting the environment. The only manufacturer to offer you an ECOLLECTIVE fall protection, Delta Prevention is proud to manufacture its products in Canada with eco-responsible and locally sourced materials. Beyond the equipment, we pay unique attention to our users, those workers who, every day, risk their lives by working just a few steps from the void. For them, we develop products that exceed industry standards in terms of durability, safety and use.

### OUR MISSION:

Provide companies with collective and permanent fall protection solutions that enable them to make their workplaces safe while preserving the integrity of their infrastructure.

### OUR VISION:

Saving lives by securing industrial, commercial and institutional infrastructure with eco-responsible and innovative solutions.



# THEY TRUSTED US

« System well thought-out, easy to install and which should last several years because it's made of aluminum. It saves time and increases efficiency when it's time to start and complete repair or maintenance work of the equipment. »

**Roch Beaulieu, OHS Manager**

« Agropur chose the Delta Prevention certified distributor to improve safety on their rooftops. First of all, the team impressed with its fast response, its professionalism, its wise advices and its very competitive offer. We were very satisfied with the installation service and by the communication. The team was proactive and found solutions for every challenge, from the quote to the installation. Thank you for supporting us in this project! »

**Yohann Archambault, projects Manager**

« The Delta Prevention certified distributor took charge of the project autonomously and professionally. The installation was done in time and their representatives were very available to us. »

**Marie-Ève Proulx, health and safety prevention supervisor**

« When Confab Laboratories wanted to improve safety on its rooftops, the Delta Prevention certified distributor identified its needs in a clear and specific roof survey. The team was effective and installed the railings on scheduled date. The project team was present from the quote to the post-installation visit. »

**Stéphane Cesaria, engineer**

## SOLUTIONS FOR ALL INDUSTRIES



Food industry



Industrial



Institutional



Aerospace



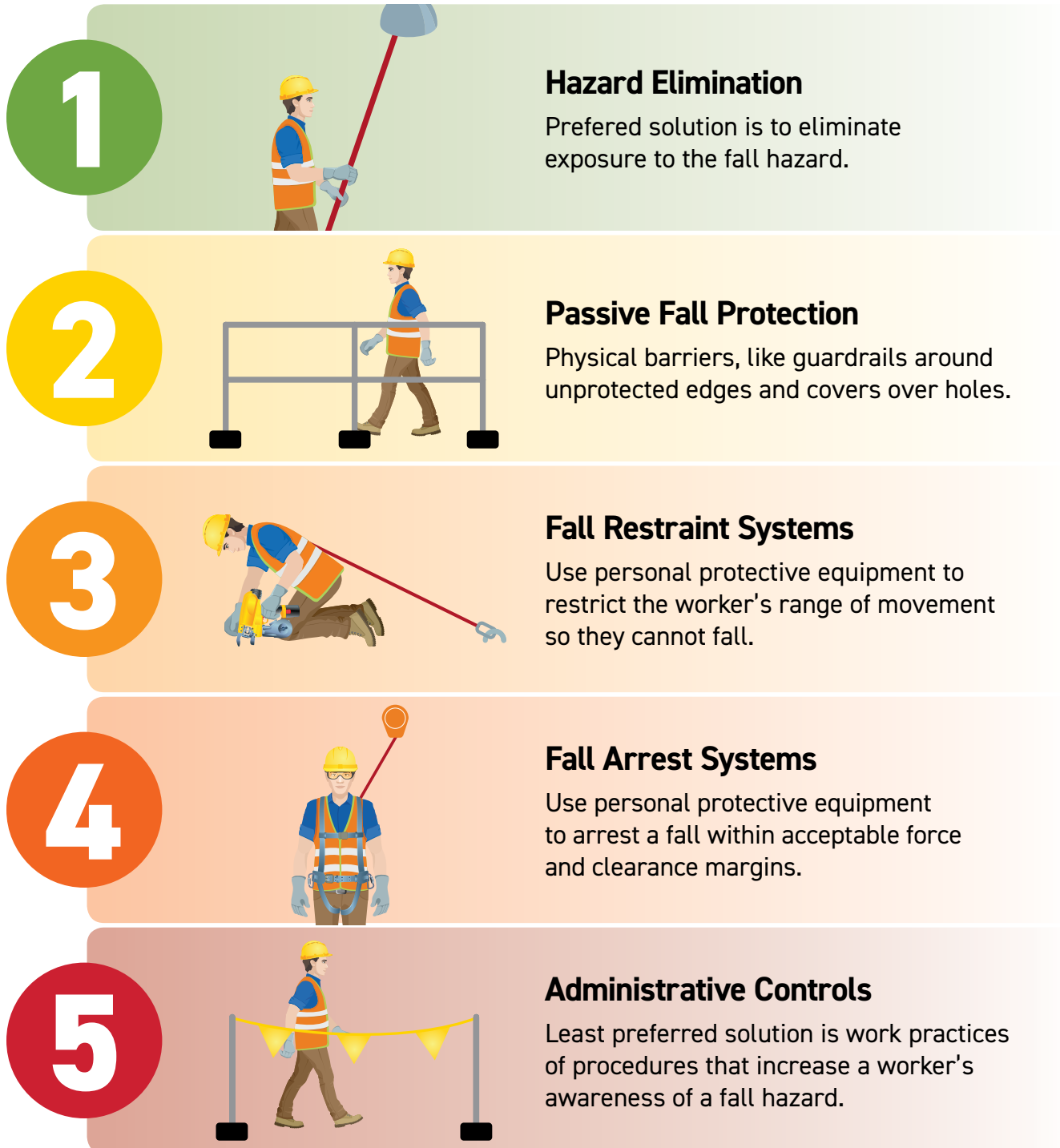
Mining



Telecommunication

# FREESTANDING GUARDRAILS: THE FALL PROTECTION SOLUTION CHOSEN BY THOUSANDS OF COMPANIES

When working at heights, wearing a harness is often the recommended solution. But did you know that the first step should be to question the task itself? If it's impossible to eliminate the risk at the source, a logical sequence of solutions must be evaluated: here is the hierarchy of fall protection.



## WHY CHOOSE US? DISCOVER THE VSS SYSTEM

These are the common values for all VSS fall protection solutions.  
All share the same DNA and can be described by the same word: innovative!



### ECO-CONSCIOUS

- Recycled rubber
- Eco-friendly
- Canadian aluminium
- Components from local sources



### DURABILITY

- DeltaMax™ Base made from recycled rubber
- High adhesion to roof membrane
- Can be installed directly on the membrane
- Molded handle for easy transport
- Anodized 6061-T6 aluminium railing
- Ultimate resistance to corrosion



### VERSATILE

- Shared components amongst configurations
- Possibility to convert warning line into guardrail.
- Flexible and modular system adapted to your needs
- Compatible with every type of flat roof



### PRESERVES YOUR BUILDING

- Corrosion resistant and no rust stain on the membrane
- No cracking and spilling of the filling material
- No risk of peeling paint
- Non-abrasive material, safe for the membrane

**ECOLLECTIVE**  
Fall Protection

**Delta Prevention is the first manufacturer to offer you a collective and eco-conscious fall protection system.**

- Recycled rubber
- Locally sourced material
- Product from clean energy



# ECOLOGICAL REPORT

## COMMITTED TO REDUCING OUR ECOLOGICAL FOOTPRINT.

Our green shift is real! As an environmentally conscious manufacturer, our ecological vision applies to every sector of the company. An ecological report will be provided for each project so that you too can be proud to have contributed to the purchase of responsible equipment.

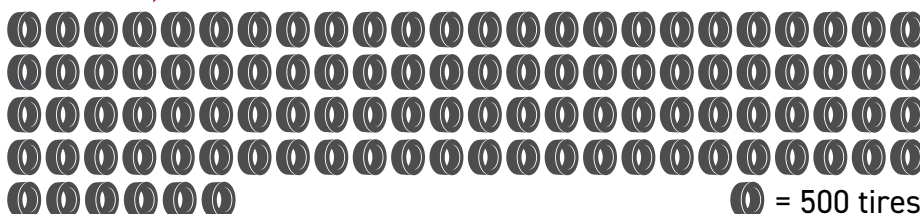
## WHY DID WE CHOOSE RECYCLED RUBBER FOR THE CREATION OF OUR PATENTED COUNTERWEIGHT BASE?



**3** recycled truck tires in each base

**51,273**

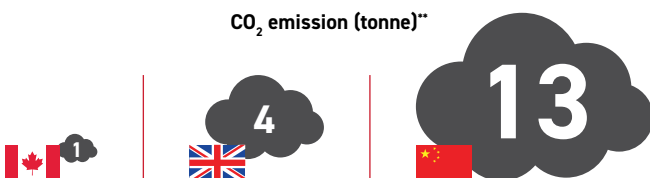
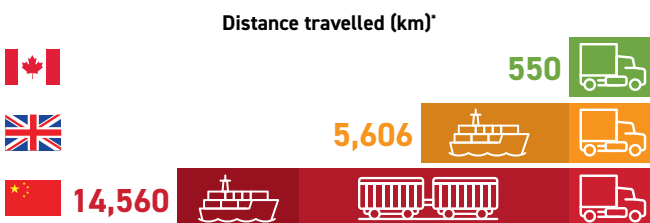
tires recycled since the creation of Delta Prevention



## CLEAN ENERGY PRODUCT

| Country of manufacture |                      |                     |          |
|------------------------|----------------------|---------------------|----------|
| Main energy source     | Hydroelectricity<br> | Natural gas/oil<br> | Coal<br> |

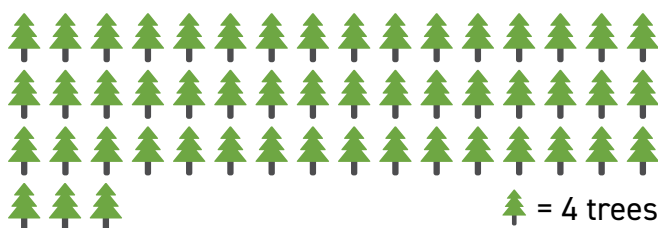
## A MINIMAL CARBON FOOTPRINT



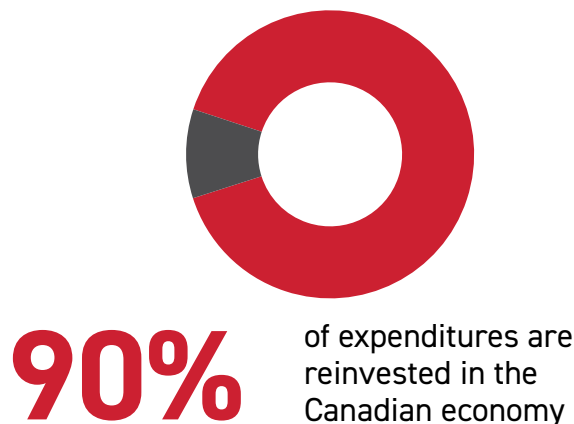
\* To ship the equivalent of a container of bases to Toronto  
\*\* Per 67.5 m<sup>3</sup> container

## BACK TO EARTH

**204** trees will be planted to offset our CO<sub>2</sub> emissions.



## GIVE BACK TO SOCIETY





# FREESTANDING GUARDRAILS

The roof guard rail system from Delta Prevention is extremely popular to eliminate permanently your roof fall hazards. Thanks to their multiple configurations, they are the most versatile on the market.



## FEATURES

- No damage to the roof because 100% freestanding
- Aluminum tubing preventing peeling paint
- High adhesion recycled rubber base that can be installed directly on the membrane
- Ultimate resistance to rust and deterioration caused by rain, temperature changes and acidic environments
- Quick and easy installation on roofs with or without parapet
- Compliance report included
- 10 year warranty
- Made in Canada
- Complies with CBNC, CNESST, OSHA standards

## VSS CLASSIC



Linear configuration to secure a minimum of 10 feet up to your entire perimeter without any full height return. An installation that is more in harmony with the visual aspect of the building to be protected.

### The best choice for:

- Long sections
- Roof without parapet
- Unintrusive appearance (low profile bases)

### Application:

- Medium-large HVAC
- Access ladder protection

## VSS COMPACT



Ideal configuration when floor space is reduced between the units to be protected and the parapet. A return of only 5 feet is required at each end, regardless of length, and at each 40 feet when there is no parapet.

### The best choice for:

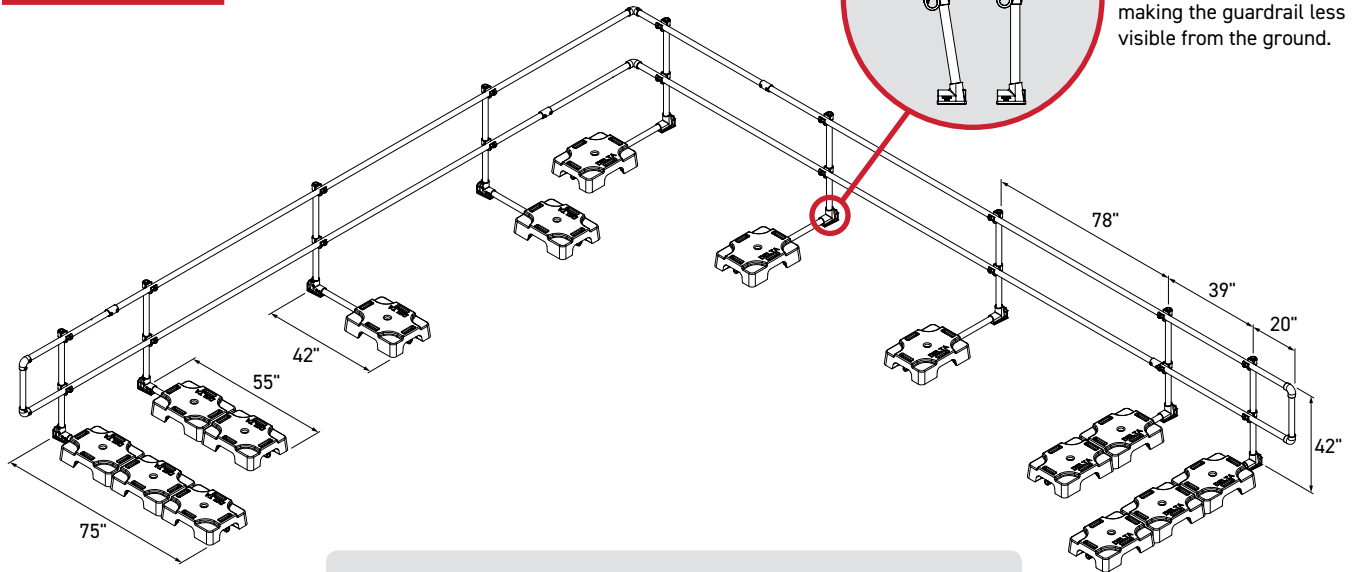
- Restricted space
- Use with permanent warning line
- Closed perimeter
- Temporary installation

### Application:

- Snow chutes
- Small HVAC
- Skylights

# TYPES OF INSTALLATION

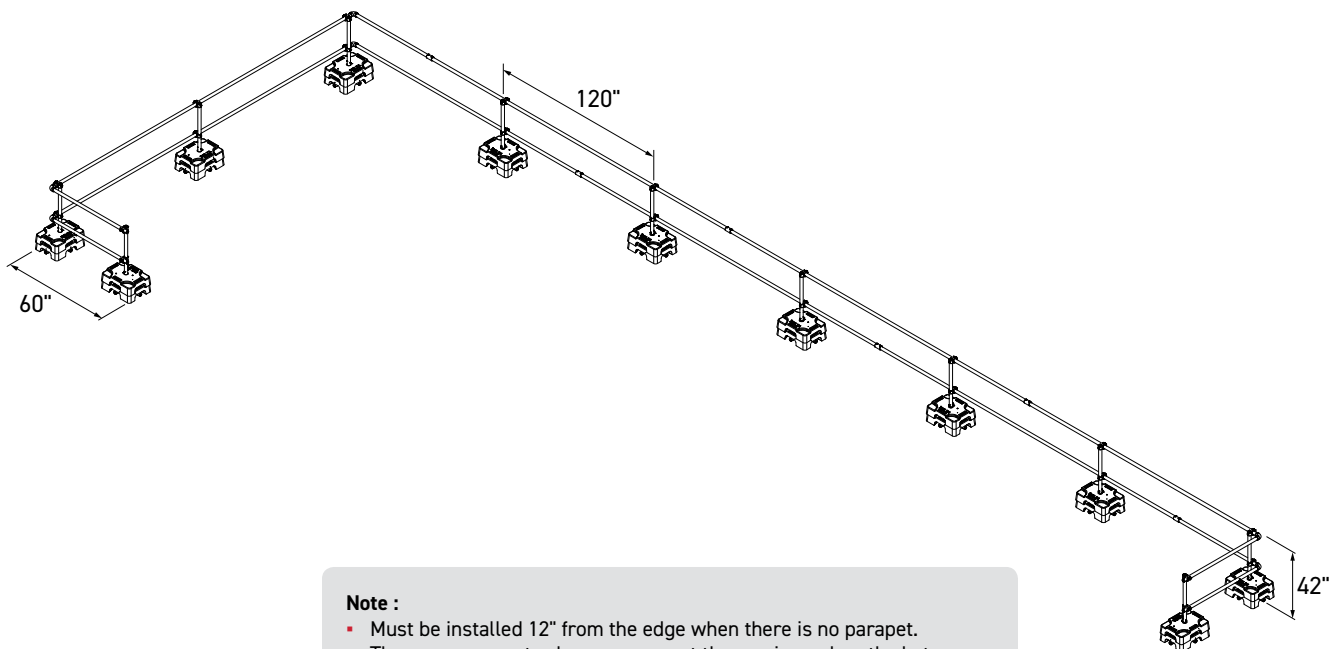
## VSS CLASSIC



### Note :

- The "D" finish allows a maximum extension of 20 inches.
- The ends of the Classic System are always composed of a DCS-3 and a DCS-2, located 39 inches apart.
- The measurements shown represent the maximum lengths between two vertical posts.
- Must be installed 12" from the edge when there is no parapet.

## VSS COMPACT



### Note :

- Must be installed 12" from the edge when there is no parapet.
- The measurements shown represent the maximum lengths between two vertical posts.



## TECHNICAL SHEET

|                                    | VSS Classic  | VSS Compact  |
|------------------------------------|--|--|
| Minimum length:                    | 120"   | 240"   |
| Height:                            | 42"  | 42"  |
| Max distance between upright:      | 78"  | 120"   |
| Full height return:                | none required  | at each end, at each 40' on roofs without parapet wall   |
| Counterweight:                     | 50 lb/base   | 50 lb/base   |
| Counterweight material:            | recycled rubber  | recycled rubber  |
| Railing & upright material:        | 6061-T6 anodized aluminum  | 6061-T6 anodized aluminum  |
| Railing & upright OD:              | 1,9"   | 1,9"   |
| Junction & clamp material:         | galvanized steel   | galvanized steel   |
| Hardware material:                 | stainless steel  | stainless steel  |
| Set screw torque:                  | 30 lb/ft (except CL201: 20 lb/ft)  | 30 lb/ft (except CL201: 20 lb/ft)  |
| Compatibility with VSS SafetyLine: | yes  | yes  |
| Usage:                             | permanent, temporary   | permanent, temporary   |
| Design patent:                     | #162620  | #162620  |
| Complies with:                     | CNESST : 2.9.2, 3.8.2<br>CNBC : 4.1.5.14<br>OSHA : 1926.502, 1926.501<br>Ontario Building Code : 4.1.5.14<br>WorkSafeBC : 11.2 | CNESST : 2.9.2, 3.8.2<br>CNBC : 4.1.5.14<br>OSHA : 1926.502, 1926.501<br>Ontario Building Code : 4.1.5.14<br>WorkSafeBC : 11.2 |
| Warranty:                          | 10 year  | 10 year  |

## ACCESSORIES



**Self-closing safety gate**

# ITEM: GATE24

Material: Aluminium



**Variable angle clamp**

# ITEM: CL125

Material: Galvanized steel



**Wall mount**

# ITEM: CL131

Material: Galvanized steel



**Toe board - VSS Classic**

# ITEM: KP120

Material: Aluminium

## COMMON APPLICATIONS



HVAC unit - VSS Classic



HVAC unit - VSS Compact



Narrow pathway - VSS Compact



Ballasted roof - VSS Classic



Roof drains - VSS Classic



Access staircase - VSS Classic



Sloping roof - VSS Classic



HVAC unit - VSS Compact



Roof passage - VSS Compact



Roof with angle - VSS Classic



# VSS SAFETYLINE PERMANENT WARNING LINE

The VSS SafetyLine is a warning line system used to delimit a visual protection perimeter between work zones at height. The VSS SafetyLine is 100% compliant with the CNBC, RSST and OSHA permanent warning line standards.



## FEATURES

- Permanent visual delimitation of a safety perimeter
- Modular: can be combined with Delta Prevention guardrails to secure the entire roof at a low cost
- Scalable: can be converted into a guardrail
- Freestanding: 100% without perforation
- Quick and easy installation
- Complies with OSHA, RSST and CSTC permanent warning line standards
- Compliance report included
- 10-year warranty

## MAIN COMPONENTS



Recycled rubber base

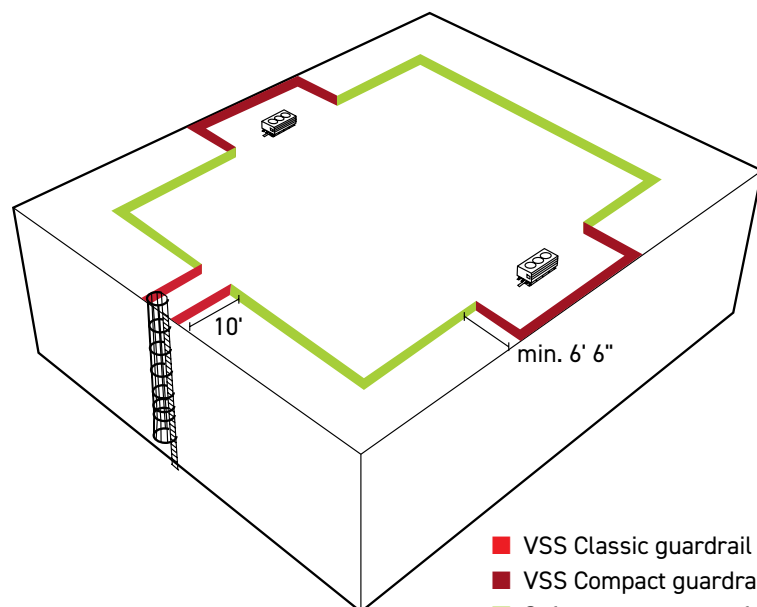


Nylon-coated steel cable and high visibility flag



Solid mounting with carabiners

## THE IDEAL ADDITION TO DELTA PREVENTION GUARDRAILS



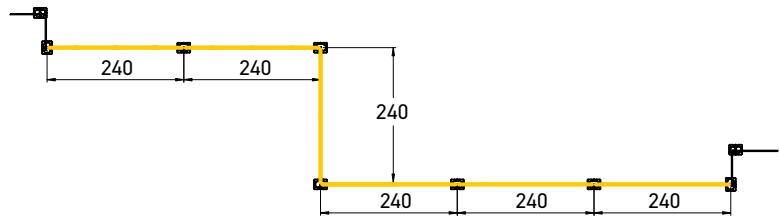
- VSS Classic guardrail
- VSS Compact guardrail
- Safety permanent safety line



## TYPES OF INSTALLATION

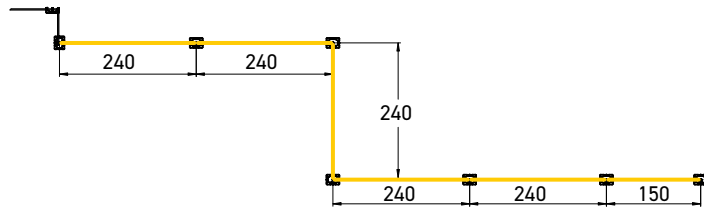
### TYPE G

The warning line is connected to a guardrail or wall anchor at both ends



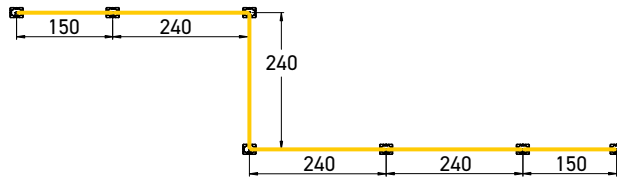
### TYPE S

The warning line is connected to a guardrail or wall anchor at one end only



### TYPE N

The warning line is not connected to any end



## TECHNICAL SHEET

|                               |  |
|-------------------------------|--|
| Max distance between upright: | 240"                                   |
| Max length of starter/ending: | 150"                                   |
| Cable highest point allowed:  | 39" from the ground                    |
| Cable lowest point allowed:   | 34" from the ground                    |
| Cable - material:             | yellow nylon coated looped steel cable |
| Cable - diameter:             | 1/4"                                   |
| Flag - material:              | yellow nylon                           |
| Max distance between flag:    | 72"                                    |
| Counterweight:                | 50 lb/base                             |
| Counterweight material:       | recycled rubber                        |
| Railing & upright material:   | 6061-T6 anodized aluminum              |
| Railing & upright OD:         | 1,9"                                   |
| Junction & clamp material:    | galvanized steel                       |
| Hardware material:            | stainless steel                        |
| Set screw torque:             | 30 lb/ft (except CL201: 20 lb/ft)      |
| Usage:                        | permanent, temporary                   |
| Design patent:                | #162620                                |
| Warranty:                     | 10 year                                |
| Complies with:                | CSTC : 2.9.4.1<br>OSHA : 1926.502(f)   |

## CONNECTORS



### Double connector

This dual connector connects two straight sections of a warning line.

# ITEM: CL167  
Material: galvanized steel



### 90° Connector

This connector connects two warning line sections and creates a 90° corner.

# ITEM: CL168  
Material: galvanized steel



### Simple connector

This connector is used at the beginning and end of each permanent warning line. It can be installed on an independent vertical pole or on a Delta Prevention guardrail section.

# ITEM: CL173  
Material: galvanized steel

# GUARDRAILS FOR ACCESS LADDER

The guardrail kit for access ladder improves safety around these very common access points. Delta Prevention has developed a set of guardrails that can be adapted to all ladders and type of roof.

## FEATURES

- No damage to the roof, as 100% without perforation
- No cutting, quick and easy installation
- Can be installed on roofs with or without a parapet
- Anodized aluminum finish prevents paint peeling
- Recycled rubber base provides the best grip without additional sacrificial membrane
- Compliance report included
- Ultimate resistance to rust and deterioration caused by rain, temperature changes and acidic environments
- 10-year warranty\*

## VSS CLASSIC INSTALLATION



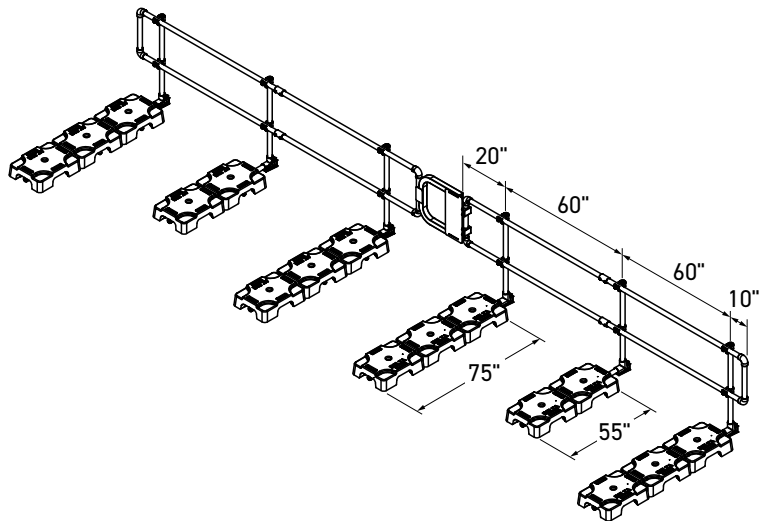
Access ladders for going up or down a roof of more than 10' inevitably place you in a risky position as described in all standards. Add to this the risks associated with descending backwards in the ladder and the loss of your bearings once at the top. Thanks to the access ladder guardrail, you protect 12'6" (3.81 m) on each side of the access ladder, ensuring the safety of your operations.

## VSS COMPACT INSTALLATION



The VSS Compact Access Ladder Guardrail protects you of 10' on each side of the access ladder and creates a traffic corridor leading to the center of the roof. Because they share the same components, the VSS Safetyline permanent warning line connects perfectly to the access ladder guardrail to create flawless fall protection.

## TYPES OF INSTALLATION



## TECHNICAL SHEET

### #ITEM VSS-LAD2S

|                                   |   |
|-----------------------------------|---|
| Length:                           | 12'6"/side  |
| Height:                           | 42"   |
| Width:                            | 75"   |
| Ladder safety gate opening width: | 22.75" - 34" (optional)   |
| Counterweight:                    | 50 lb/base  |
| Counterweight material:           | Recycled rubber   |
| Railing & upright material:       | 6061-T6 anodized aluminum   |
| Railing & upright OD:             | 1,9"  |
| Junction & clamp material:        | Galvanized steel  |
| Hardware material:                | Stainless steel   |
| Set screw torque:                 | 30 lb/ft (except CL201: 20 lb/ft)   |
| Usage:                            | Permanent   |
| Design patent:                    | #162620   |
| Shipping weight:                  | 1030 lb   |
| Complies with:                    | CNESST : 2.9.2, 3.8.2<br>CNBC : 4.1.5.1.4<br>OSHA : 1926.502, 1926.501<br>Ontario Building Code : 4.1.5.14<br>WorkSafeBC : 11.2 |

## ACCESSORIES

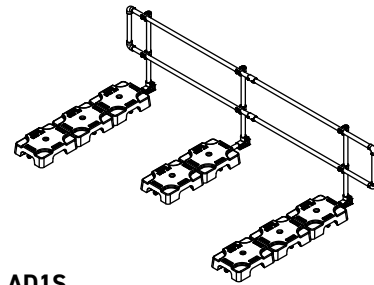


### Self-closing adjustable Safety Gate

The adjustable safety fence adds extra protection by closing behind you after use, blocking access to the ladder. Opening: 22.75" - 34"

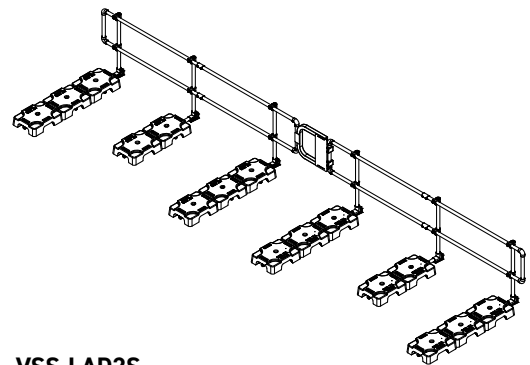
# ITEM: GATE24  
Material: Aluminum

## PRE-CONFIGURATIONS



### VSS-LAD1S

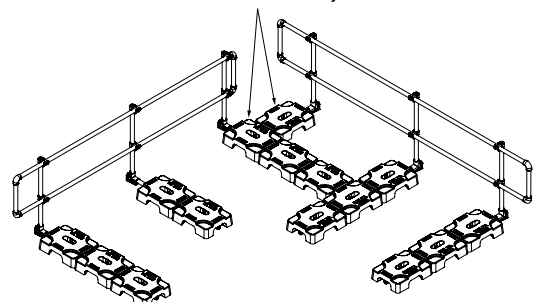
Kit for access ladder - 1 side (12'6")



### VSS-LAD2S

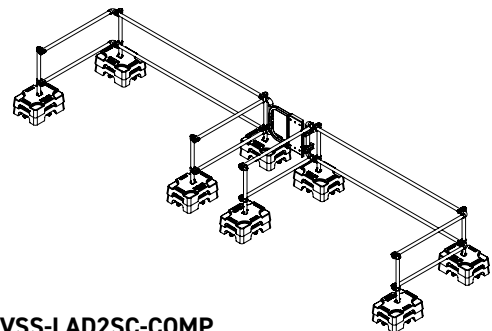
Kit access ladder - 2 sides (2 x 12'6")

Connected with a CL101 junction



### VSS-LAD2SC

Kit for access ladder - corner



### VSS-LAD2SC-COMP

Kit for access ladder - 2 sides (2 x 10')





# GUARDRAILS FOR ROOF ACCESS HATCH

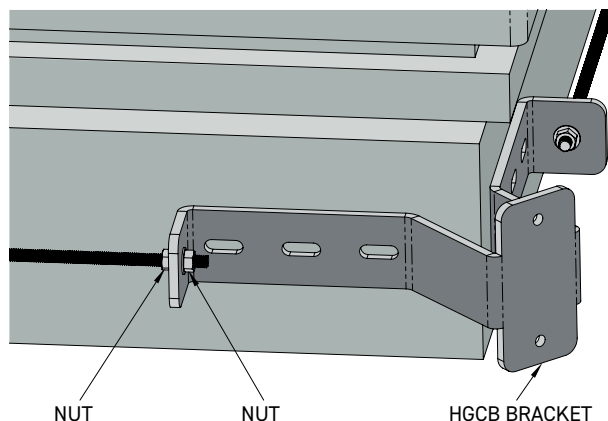
The roof access hatch guardrail protects access to the hatch, often installed at the edge of the roof. This guardrail also prevents falls into the hatch when it is left open.

## FEATURES

- Adapts to access hatches of all sizes
- Attaches to the hatch without damaging the roof membrane
- Lightweight and rust resistant aluminum railing
- Self-closing adjustable safety gate included
- Quick and easy installation
- Compliance report included
- 10-year warranty\*
- Made in Canada
- Complies with CBNC, OSHA standards

## HOW IT WORKS

Thanks to the design developed in-house exclusively for this application, the Delta Prevention's access hatch guardrail kit can be easily installed on access hatches of all style and size. The clamp-on installation is safe for the membrane and is 100% perforation-free. The same clamp also allows for bolted installation if necessary.



For access hatch with front access

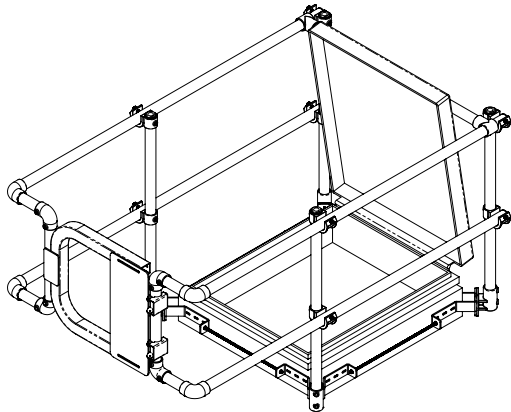


For access hatch with lateral access



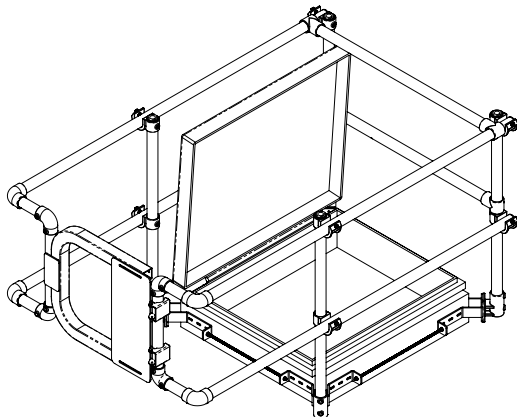
For overzeis access hatch with front access

## TYPES OF INSTALLATION



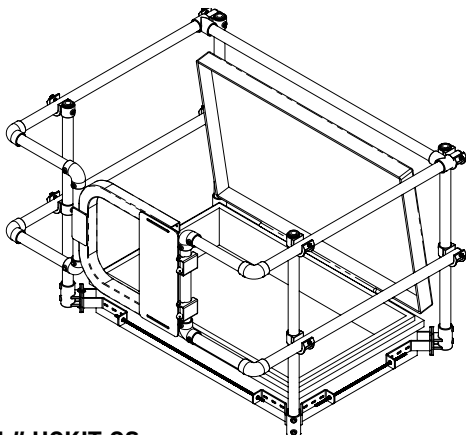
### ITEM # HGKIT-STS-FA

Guardrail kit for front access hatch of 36" x 36" maximum



### ITEM # HGKIT-STS-SA

Guardrail kit for side access hatch of 36" x 36" maximum



### ITEM # HGKIT-OS

Guardrail kit for oversized hatch with front access

## TECHNICAL SHEET

### ITEM # HGKIT-STS-FA

|                             |   |
|-----------------------------|---|
| Overall length:             | 75"   |
| Overall height:             | 42"   |
| Width:                      | 35.5"   |
| Entry lock width:           | 30"   |
| Ladder opening width:       | 22.75" - 26.5"  |
| Railing & upright material: | 6061-T6 anodized aluminum   |
| Railing & upright OD:       | 1.9"  |
| Junction & clamp material:  | Galvanized steel  |
| Hardware material:          | Stainless steel   |
| Set screw torque:           | 30 lb/ft (except CL201: 20 lb/ft)   |
| Usage:                      | Permanent   |
| Warranty:                   | 10 year   |
| Complies with:              | CNESST: 2.9.2, 3.8.2<br>CNBC: 4.1.5.14<br>OSHA: 1926.502, 1926.501<br>Ontario Building Code: 4.1.5.14<br>WorkSafeBC: 11.2 |

## ACCESSORIES



### Grab handle

The handle can be installed easily on the guardrail kit to enhance the safety when exiting or entering the ladder.

# ITEM: HGKIT-HANDLE

Material: Aluminum



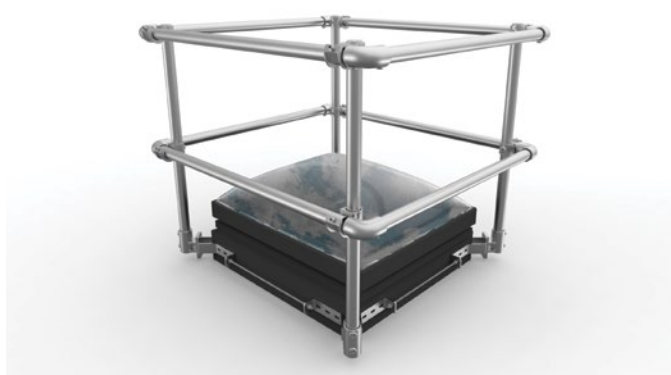
# GUARDRAILS FOR SKYLIGHTS

Installing a guardrail around skylights on your roof provides optimal safety for workers who need to visit the roof. In fact, according to CNBC standard 2.9.2 and OSHA 1926.501(b)(4)(i), all working/walking surface must be protected by a guardrail, including skylights. Are you compliant?

## FEATURES

- Tailor-made to your needs
- No damage to the roof because 100% freestanding
- Anodized aluminum railing
- Highly adherent recycled rubber base
- Can be installed directly on the membrane
- Ultimate resistance to rust and deterioration caused by rain, temperature changes and acidic environments
- Quick and easy installation
- Compliance report included
- 10-year warranty\*
- Made in Canada
- Complies with CBNC, OSHA standards

## TWO POSSIBILITIES



### CLAMPING

Economical and versatile, it can be installed on all skylights with a minimum vertical surface area of 2".



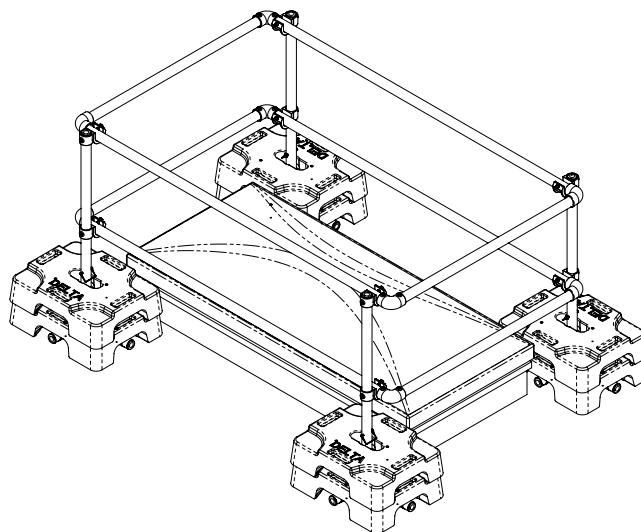
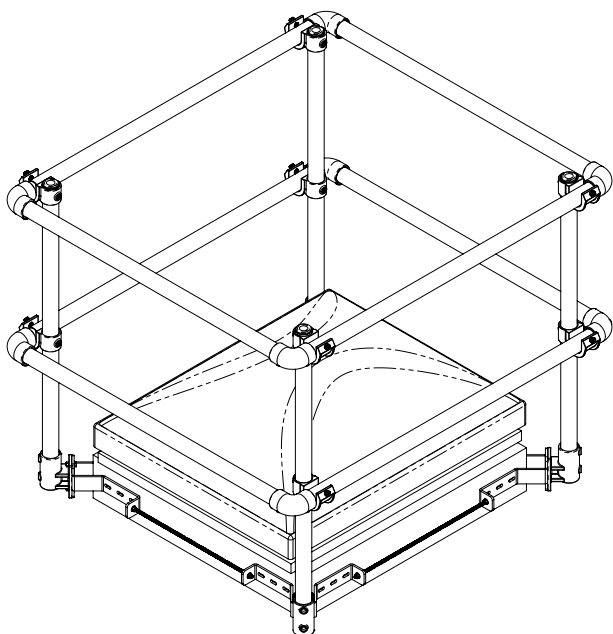
### ON COUNTERWEIGHT

Simple and quick to install, it provides safety around your low-profile skylights or when it is impossible to install our clamping system.



## TYPES OF INSTALLATION

| Clamp-on system |                 |                 | On counterweight  |                   |
|-----------------|-----------------|-----------------|-------------------|-------------------|
| Up to 29" x 29" | Up to 42" x 42" | Up to 62" x 62" | 34" X 55" maximum | 54" X 75" maximum |
| SKYKIT-TR-29    | SKYKIT-TR-42    | SKYKIT-TR-62    | SKYKIT-CW-55      | SKYKIT-CW-75      |



## TECHNICAL SHEET

|                               |                                  |
|-------------------------------|----------------------------------|
| Height:                       | 42"                              |
| Max distance between upright: | 120"                             |
| Counterweight:                | 50 lb/base                       |
| Counterweight material:       | Recycled rubber                  |
| Railing & upright material:   | 6061-T6 anodized aluminum        |
| Railing & upright OD:         | 1,9"                             |
| Junction & clamp material:    | Galvanized steel                 |
| Hardware material:            | Stainless steel                  |
| Set screw torque:             | 30 lb/pi (CL201: 20 lb/pi)       |
| Usage:                        | Permanent, temporary             |
| Design patent:                | #162620                          |
| Complies with:                | CNESST : 2.9.2, 3.8.2            |
|                               | CNBC : 4.1.5.14                  |
|                               | OSHA : 1926.502, 1926.501        |
|                               | Ontario Building Code : 4.1.5.14 |
| Warranty:                     | WorkSafeBC : 11.2                |
|                               | 10 year                          |





# STANDARDS

Delta Prevention meets and exceeds every Canadian fall protection standards for guardrails and warning line. Independently tested, all our fall protection systems are engineered to meet or exceed every National or Provincial regulations when installed according to the manufacturer's Installation Guide.

Every systems is delivered with:

- Compliance Report
- Installation Guide
- 10 year Manufacturer's Warranty (ask us for more details)

## NON PENETRATING GUARDRAIL STANDARD

### Ontario fall protection regulation

Source: Canadian National Building Code & Ontario Building Code

#### 4.1.5.14. Loads on Guards

(1) The minimum specified horizontal load applied inward or outward at the minimum required height of every required guard shall be,

- (a) 3.0 kN/m for open viewing stands without fixed seats and for means of egress in grandstands, stadium, bleachers and arenas,
- (b) a concentrated load of 1.0 kN applied at any point for access ways to equipment platforms, contiguous stairs and similar areas where the gathering of many people is improbable, and
- (c) 0.75 kN/m or a concentrated load of 1.0 kN applied at any point, whichever governs for locations other than those described in Clauses (a) and (b).

(2) Individual elements within the guard, including solid panels and pickets, shall be designed for a load of 0.5 kN applied over an area of 100 mm by 100 mm located at any point in the element or elements so as to produce the most critical effect.

(3) The loads required in Sentence (2) need not be considered to act simultaneously with the loads provided for in Sentences (1) and (4).

(4) The minimum specified load applied vertically at the top of every required guard shall be 1.5 kN/m and need not be considered to act simultaneously with the horizontal load provided for in Sentence (1).

(5) For loads on handrails, refer to Sentence 3.4.6.5.(12).

### BC fall protection regulations

Source: Worksafe BC

#### 11.2 Obligation to use fall protection

(1) Unless elsewhere provided for in this Regulation, an employer must ensure that a fall protection system is used when work is being done at a place

- (a) from which a fall of 3 m (10 ft) or more may occur, or
- (b) where a fall from a height of less than 3 m involves a risk of injury greater than the risk of injury from the impact on a flat surface.

(2) The employer must ensure that guardrails meeting the requirements of Part 4 (General Conditions) or other similar means of fall restraint are used when practicable.

(3) If subsection (2) is not practicable, the employer must ensure that another fall restraint system is used.

(4) If subsection (3) is not practicable, the employer must ensure that one of the following is used:

- (a) a fall arrest system;
- (b) a rope access system that meets the requirements of Part 34.

(5) If subsection (4) is not practicable, or will result in a hazard greater than if a fall arrest system or a rope access system was not used, the employer must ensure that work procedures are followed that are acceptable to the Board and minimize the risk of injury to a worker from a fall.

(6) Before a worker is allowed into an area where a risk of falling exists, the employer must ensure that the worker is instructed in the fall protection system for the area and the procedures to be followed.

(7) A worker must use the fall protection system provided by the employer.

### Alberta fall protection regulations

Source: Alberta Occupational Health and Safety Code 2009

#### Part 9 Fall Protection

139(1) Subject to subsections (3) through (8), an employer must ensure that a worker is protected from falling at a temporary or permanent work area if a worker may fall

- (a) a vertical distance of 3 metres or more,
- (b) a vertical distance of less than 3 metres if there is an unusual possibility of injury, or (c) into or onto a hazardous substance or object, or through an opening in a work surface.

139(3) To meet the requirement under subsection (1), an employer must install an engineering control such as a guardrail.

139(4) Despite subsection (3), an employer must ensure that a worker at a permanent work area is protected from falling by a guardrail if the worker may fall a vertical distance of more than 1.2 metres and less than 3 metres.

### Manitoba fall protection regulation

Source: Manitoba Workplace Safety and Health Act and Regulation 2014

#### Guardrail system requirements

14.3 Subject to section 14.6, an employer must ensure that a guardrail system is used where there is a risk of a worker falling in any of the circumstances set out in subsection 14.1(1).

#### Guardrail requirements

14.4(1) An employer must ensure that a guardrail

- (a) is at least 900 mm high and not more than 1,060 mm above the working surface, with an intermediate rail at between 450 and 530 mm above the working surface; and
- (b) is constructed and secured to resist a static load of 900 N in any direction in which the load may be applied at any point on the top rail and on any intermediate rail.

14.4(2) A guardrail must have a toe board securely fastened to the posts and extending from the surface of the working area to a height of at least 125 mm when there is a risk of falling objects.

14.4(3) If a guardrail is made from wood, it must

- (a) be free from splinters and protruding nails; and
- (b) have a top and mid rail of at least 38 mm × 89 mm securely supported on posts of at least 38 mm × 89 mm and spaced at not more than 2.4 m.

#### Temporary guardrail removal

14.5 An employer may temporarily remove a guardrail when it is necessary to do so to facilitate work in the immediate area. The employer must ensure that any worker in the area uses a fall protection system while the guardrail is removed.

## WARNING LINE STANDARDS

### Control zone

Source: Alberta Occupational Health and Safety Code 2009

#### Section 161 Control zones

The use of a control zone is an approach to fall protection that places special requirements on workers and work being performed on a nearly level working surface within 2 metres of an unguarded edge from which a worker could fall. Control zones can be used on surfaces having a slope of up to 4 degrees measured from the horizontal.

If a worker works within 2 metres of the control zone i.e. within 4 metres of the unguarded edge, a raised warning line or equally effective means is required. If a worker works within the control zone, then a travel restraint system must be used. A control zone cannot be used if the level working surface on which work is being performed is less than 4 metres wide. In such circumstances, one of the other methods of fall protection required by the OHS Code must be used.

#### Work away from unguarded edge

Situations may arise where, on a large flat roof for example, work is performed at a significant distance away from an unguarded edge e.g. at a penthouse near the centre of the roof. With the exception of when workers enter or leave the work area at an unguarded edge, workers have no contact with the edge. Upon accessing the roof, workers must proceed directly to their work area. Under such circumstances, a line defining a control zone is unnecessary, as are the remaining requirements for fall protection that would normally apply at the unguarded edge.

#### Line defining the control zone

If a worker works within 2 metres of the control zone i.e. within 4 metres of the unguarded edge, a raised warning line or equally effective means of alerting the worker to the unguarded edge is required (see Figure 9.25). The raised warning line or other equally effective means such as barricades must be placed at least 2 metres from the edge. The warning method provides a visual and physical reminder of the presence of the hazard.

For compliance purposes, a raised warning line can consist of ropes, wires or chains, and supporting stanchions, and should be

- (a) flagged or marked with highly visible materials at intervals that do not exceed 2 metres (6.5 feet),
- (b) rigged and supported so that the lowest point (including sag) is not less than 0.9 metres (34 inches) from the walking or working surface and its highest point is not more than 1.2 metres (45 inches) from the walking or working surface,
- (c) attached to each stanchion in such a way that pulling on one section of the line between stanchions will not result in slack being taken up in the adjacent section before the stanchion tips over, and
- (d) the rope, wire or chain must have a minimum tensile strength of 2.2 kN (500 lbs).

An "equally effective method" might be a substantial barrier e.g. pile of materials or supplies, tall parapet, building system pipes and ducts, etc. that is positioned between the worker and the unguarded edge, preventing the worker from getting to the edge. Since this substantial barrier is acting as a guardrail, it must at all time be at least 920 millimetres (36 inches) tall while the protected worker is using it.



# WARRANTY

Thank you for purchasing this Delta Prevention freestanding fall-protection system. In the event you need to use our warranty service on this product, we refer you to the terms and conditions set out below.



## 1. STANDARD CONDITIONS

Delta Prevention guarantees that this product will be in good working order during the warranty period. In the event that the product is defective during the warranty period, Delta Prevention will replace the defective product/component free of charge (freight charge will be at the customer's expense).

## 2. WARRANTY PERIOD

The following table describes the limited warranty period for our products. The warranty begins on the date of purchase by the end customer. Any installation of 12 months or less will be considered temporary. The rental of Delta Prevention products will automatically be considered as a temporary use.

| Type of product               | Permanent installation | Temporary installation |
|-------------------------------|------------------------|------------------------|
| VSS Classic/Compact Guardrail | 10 years               | 1 year                 |
| VSS SafetyLine                | 10 years               | 1 year                 |

## 3. LIMITATIONS

The Delta Prevention warranty does not cover:

- Damage or defects caused by improper use or handling of the product as mentioned in the user manual and/or relevant user documents, including, without limitation, improper storage, falling, excessive impact, corrosion, acidic environment, dirt, water or damage caused by sand.
- Discoloration caused by sunlight or chemicals.
- The use of spare parts that are not supplied by Delta Prevention or that are not compatible with the product.
- Cost incurred by periodic inspections, repairs, spare parts or maintenance caused by normal wear and tear.
- Defects caused by modifications made without Delta Prevention's approval.
- Accidents, disasters or any cause beyond Delta Prevention's control, including but not limited to lightning, water, fire or public disturbance.

# GET A QUOTE



Let's start the conversation! Contact our team of customer service experts to get a completely free budgetary quote.

## FALL RISK ANALYSIS

If you want to make your building safer and ensure that it is compliant, we can put you in touch with a Delta Prevention certified distributor who can help you analyze the falling hazards on your roofs and suggest the necessary equipment.

# A NORTH AMERICAN NETWORK

Our network of North American distributors ensures fast and efficient service in all regions. Contact us to find the Delta Prevention distributor nearest you!



## BECOME A SPECIALIST IN FALL PROTECTION SOLUTIONS

Follow us to see our latest projects, discover our new products, our special discounts and all the events where Delta Prevention showcases its solutions! We look forward to meeting you!



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[deltaprevention.com](https://deltaprevention.com)

# QUOTE REQUEST FORM

Tell us about your projects! Give us as much information as possible about the situation to be assessed and our team of experts will be happy to contact you to discuss it.

Your name: \_\_\_\_\_

Position: \_\_\_\_\_

Telephone number: \_\_\_\_\_

E-mail: \_\_\_\_\_

## PRODUCTS:

- ☐ Guardrail for Skylight
- ☐ Guardrail for Roof Access Hatch
- ☐ Roof Walkway
- ☐ Other

## FEATURES:

Is there a parapet? Yes ☐ No ☐ Type of roof covering: \_\_\_\_\_

## PROJECT DESCRIPTION:

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## SKETCH

A full-page sheet of white graph paper featuring a uniform grid of thin, light gray horizontal and vertical lines. The grid consists of small squares covering the entire area of the page.Unit of measurement: inches ☐ meters ☐





VSS  
Classic Guardrail



VSS  
Compact Guardrail



VSS Safety Line  
Permanent Warning Line



Guardrail for Access Ladder



Guardrail for Roof Access Hatch



VSS Compact Guardrail



Guardrail for Skylight



VSS Classic Guardrail



Guardrail for Roof Access Hatch