

# PRODUCT GUIDE

**NSAFE**  
FALL PROTECTION

ENGINEERING SAFE  
WORKPLACES



We offer safety solutions to fit your needs.

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We meet and exceed industry standards.

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We are a professional full service company.

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# ABOUT US



**NSAFE** has been engineering, designing, manufacturing, supplying, installing, and maintaining fall protection equipment in North America for 20 years. NSAFE has grown since 2003 to accommodate a full range of expertly developed products, professionally delivered services and custom fall protection design, supply and installation.

**NSAFE** is a certified Professional Engineering organization which provides comprehensive solutions while complying with industry standards and regulations. With a CWB certified manufacturing floor, NSAFE can provide timely and cost-effective solutions for any size project.

**ENGINEERING SAFE  
WORKPLACES**

## SERVICES

- Inspections/  
Certifications
- Engineering Services
- Training
- Rooftop Safety Audits
- Confined Spaces
- Metal Fabrication
- Rental
- System Installation





“Our mission is to engineer solutions that keep workers safe, while constantly innovating in order to evolve the fall protection industry. We strive for easy-to-use, safety-oriented systems that provide comfortable working conditions for workers.”



# FREEWALK® GUARDRAILING

Losing edge awareness is not an uncommon problem during roof work. As such, any unguarded or unprotected roof edge poses an obvious and significant fall hazard that could result in serious injury or fatality.

The Freewalk® Guardrail offers a superior solution to this significant industry hazard, all while eliminating the need for fall protection equipment such as harnesses and lanyards. An engineered counterbalance system, the Freewalk® Guardrail is compatible with all roof

surfaces and fully customizable to unique roof configurations, including slopes of up to 5 degrees. The non-penetrating modular design ensures a quick and easy installation with no damage to your roof seal, and the galvanized finish guarantees longevity and quality of product. The Freewalk® Guardrail protects workers accessing and egressing from a fixed ladder and effectively separates them from hazardous roof edges. Ensure the safety of your workers with a tried-and-true product that meets and exceeds industry standards.



## FEATURES

- Hot-dip galvanized pipe used for uprights, top rails and midrails
- Non – penetrating design – no need to make any holes in existing roof
- Low profile - reduces potential tripping hazard
- Outrigger style design reduces overall weight on rooftop
- Customizable to any roof shape and size
- Available colours to match building envelope
- Quick and easy installation
- Rubber base on all roof contact items prevent damage
- Can be used on roofs with no parapet
- LEED pavers are available as an option

# FREEWALK® ST GUARDRAILING

An alternate to the FreeWalk® Guardrailing - the FreeWalk® ST offers a compact base design that requires less space to install. Can be installed in narrower areas and in difficult to maneuver locations.

## FEATURES

- Hot-dip galvanized pipe used for uprights, top rails and midrails
- Non - penetrating design - no need to make any holes in existing roof
- Small ballast footprint eliminates any trip hazard
- Customizable to any roof shape and size
- Available colours to match building envelope
- Quick and easy installation
- Rubber base on all roof contact items prevent damage
- Can be used on roofs with no parapet





# GUIDEWALK® SKYLIGHT

Inadequately guarded skylights pose a significant fall hazard for workers on roofs, often resulting in critical injuries or fatalities. As such, OSHA regulations state that all skylights must be considered a fall hazard and thus have adequate controls in place to mitigate this risk.

Nsafe's Guidewalk® Skylight is a professionally engineered freestanding system meeting and exceeding the most stringent safety standards. With a non-penetrating soft rubber base, the system effectively protects workers from

potential falls all while minimizing damage to your roof seal. Furthermore, the Guidewalk® Skylight can be combined with the Freewalk® Guard Railing to provide a safe and seamless fall protection system.



## FEATURES

- Hot-dip galvanized pipe used for uprights, top rails and midrails
- Non – penetrating design – no need to make any holes in existing roof or skylight frame
- Small ballast footprint eliminates any trip hazard
- Customizable to any skylight size and shape
- Available colours to match building envelope
- Quick and easy installation
- Rubber base on all roof contact items prevent damage

# GUIDEWALK®

When accessing and/or leaving at roof level workers are inherently exposed to the dangers of an exposed edge. Nsafe's GuideWalk® protects against this exposure in a clean, compact and cost effective manner.

## FEATURES

- Hot-dip galvanized pipe used for uprights, top rails and midrails
- Non - penetrating design - no need to make any holes in existing roof
- Can be modified to adapt to any ladder size/opening
- Corrals workers towards ladder to ensure safe egress/ingress
- Cost effective compared to guard railing at either side of ladder
- Rubber base on all roof contact items prevent damage
- Can be used on roofs with no parapet
- Optional self-closing safety gate





# GUIDEWALK® HATCH

Roof hatches are common roof features that serve as access and egress points for various roof work and, although convenient, they are often overlooked as rooftop hazards. When left open and forgotten, roof hatches pose a significant fall hazard that make a guardrail around the hatch perimeter the only safe and effective option to mitigate this risk.

to roof. The system features a self-closing gate with built-in grab handles, offering additional safety and ensuring uninterrupted fall protection and support upon access and egress. An optional hoisting pulley promotes safe material handling to and from the roof.

The Guidewalk® Hatch is a guardrail system engineered to NBC and OHSA standards that protects workers from falling through open roof hatches and provides a smooth transition from ladder



## FEATURES

- Hot-dip galvanized pipe used for uprights, top rails and midrails
- Non – penetrating design – no need to make any holes in existing roof
- Small ballast footprint eliminates any trip hazard
- Customizable to any hatch size and shape
- Available colours to match building envelope
- Quick and easy installation
- Rubber base on all roof contact items prevent damage
- Does not require bolting to the roof hatch frame- independent of the hatch
- hatch is non structural and should not be used to support safety guard railing

# LADDER PORT®

Despite stringent regulations requiring that ladders be secured when used for access and egress between levels, inadequately secured ladders continue to be a major source of serious fall related injuries and fatalities in the workplace. OSHA Regulations specify that ladders used for access and egress be secured at the top and bottom to prevent movement and be extended at least 1 m (3 ft) above the landing platform. However, the typical method for securing extension ladders often requires that the ladder be tied off with a rope or strap to an anchor on the roof level, (not readily available at the required climb location). This method forces the worker to illegally climb the ladder to secure it at the top. It also carries the additional risk of an individual having to initially climb the unsecured ladder in order to secure it.

The Ladder Port® is a patented engineered solution for securing portable ladders using a fall protection guardrail with a non-penetrating design. This

system allows for a ladder to be extended the appropriate height through a portal at roof level, securing it against side-to-side and backwards movement without the limitations of traditional tie-off methods. At roof level a guard railing system is incorporated, protecting the workers and eliminating additional guard railings. The railing system corrals workers away from the roof edge. The Ladder Port® can be used on roofs with up to 5° slope and customized to various rooftop designs. Additional anchors may be installed at the bottom of the ladder to provide optimal stability. Ensure safe roof access and egress when using portable ladders with the superior engineered Ladder Port® solution. The Nsafe's Ladder Port® replaces the need to install a vertical ladder on the side of the building or a roof hatch, eliminating unauthorized roof access.

Nsafe's Ladder Port® Patents  
US 9,890,590 B2  
Can 2821754





# BUMPLINE

Bumplines are either a permanent or temporary delineation system installed at least 2m (6 ft) from any unprotected roof edge, visually alerting workers to a potential fall hazard. This system can enclose an entire work area and eliminate the need for additional fall protection measures when work is restricted to within the perimeter. Bumplines may also be used in addition to a guardrail or fall protection system for increased fall hazard awareness; however, they do not replace the need for guardrails or

fall protection where work is performed within 2m (6 ft) of a roof edge.

Nsafe's Bumplines are a flagged line, typically yellow or orange in colour for optimal visibility. They are quick and easy to set-up, hot-dipped galvanized for maximum corrosion resistance and available with permanent signage options. Ensure your workers are aware of fall hazards during roof work with our expertly designed and installed bumpline system.



# ROOF ANCHORS & HORIZONTAL LIFELINES (HLL)

Roof anchors are a critical component of many fall protection systems, providing a secure connection point for workers' personal fall arrest or fall restraint equipment. Often used in window cleaning operations or for general roof maintenance, roof anchors ensure workers are effectively protected from fall hazards.

Nsafe's permanent roof anchors are designed and built to meet and exceed NBC, OSHA and CSA requirements, including exceeding the minimum requirements for load capacity. The anchors can be designed as a simple, single-point solution or customized to more complex roof operations. In addition, Nsafe's roof anchors can be designed for mounting to any supporting structure, including wooden roofs and metal joists.

Horizontal lifelines are a common fall protection system used in conjunction with roof anchors, allowing for both fall arrest and fall restraint. They are often used when one or more workers requires freedom of movement and other fall safety systems are not feasible. Nsafe's Horizontal Lifelines are professionally engineered to provide continuous fall protection for workers exposed to fall hazards without restricting their mobility. This versatile system can be engineered to accommodate single or multiple users and installed overhead or at ground level. Ensure your workers are able to safely and confidently complete any roof task with Nsafe's Horizontal Lifeline System.





# LADDERS

Fixed access ladders are permanently fixed to a structure like the side of a building, stack or silo and specifically designed to allow workers frequent and safe access to perform elevated work. With the increased risk of falls from heights during ascending and descending fixed ladders, industry standards and regulations specify the requirements for ladder design, including the use of safety rails and cages.

Nsafe professionally engineers and installs vertical access ladders to suit a variety of needs, including ladders used for interior, exterior or underground applications. All ladders are designed to meet and exceed industry standards with appropriate cages and rest platforms as required. In addition, Nsafe offers unique ladder fall protection solutions, including vertical climbing protection for both fixed rail and cable systems. All ladder solutions are custom built and come with standard non-slip rungs. For a complete ladder safety system, Nsafe can incorporate additional products in the design such as a Guidewalk® or Freewalk® system.



# STAIRCASES, WALKWAYS AND PLATFORMS

Working on roofs is an inherently dangerous task for the obvious risk of fall hazards. However, various roof obstacles such as cable trays, pipes and changes in elevation create additional safety concerns for workers requiring access to these areas. Thus, professionally engineered staircases, walkways and platforms can provide workers with a safe and effective solution for navigating these complex roof features.

Nsafe's fully customizable staircase solutions are professionally engineered to allow workers to safely traverse over any roof obstacle and change in elevation. Available in modular and one-piece

fabrication, these staircases can be galvanized steel, stainless steel, or aluminum. In addition to staircases, Nsafe custom designs and fabricates complex walkways and platforms that allow safe access to various rooftop equipment without the need for roof penetration or damage. These walkways and platforms are specially designed to be slip-resistant and evenly distribute weight across any roof. Furthermore, all roof access solutions are specifically designed to your unique roof configuration and any applicable weight restriction, meeting and exceed OSHA, NBC and CSA standards.





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