

# PASSIVE SOLUTIONS FOR WORKING AT HEIGHTS

ROOFGUARD<sup>®</sup>

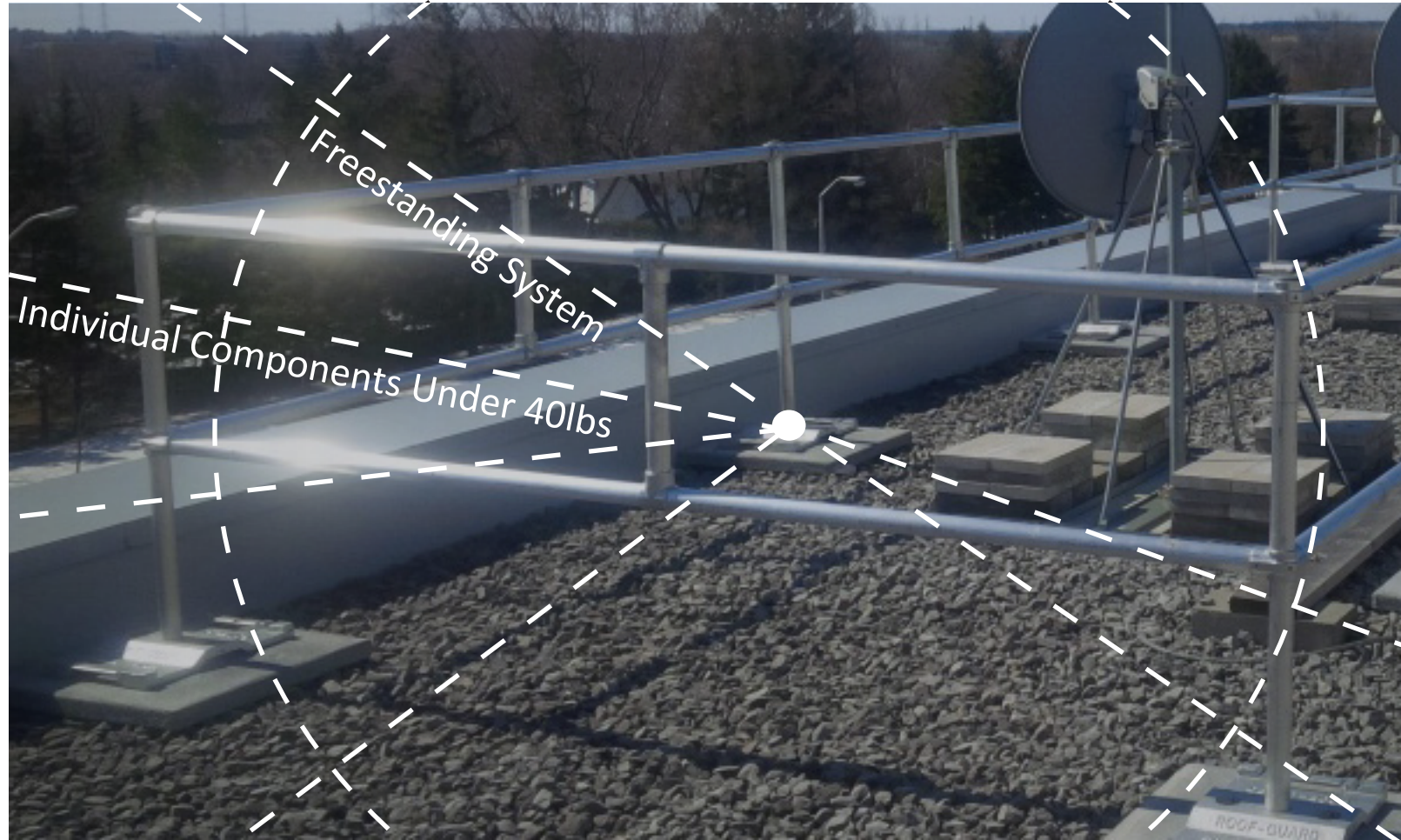


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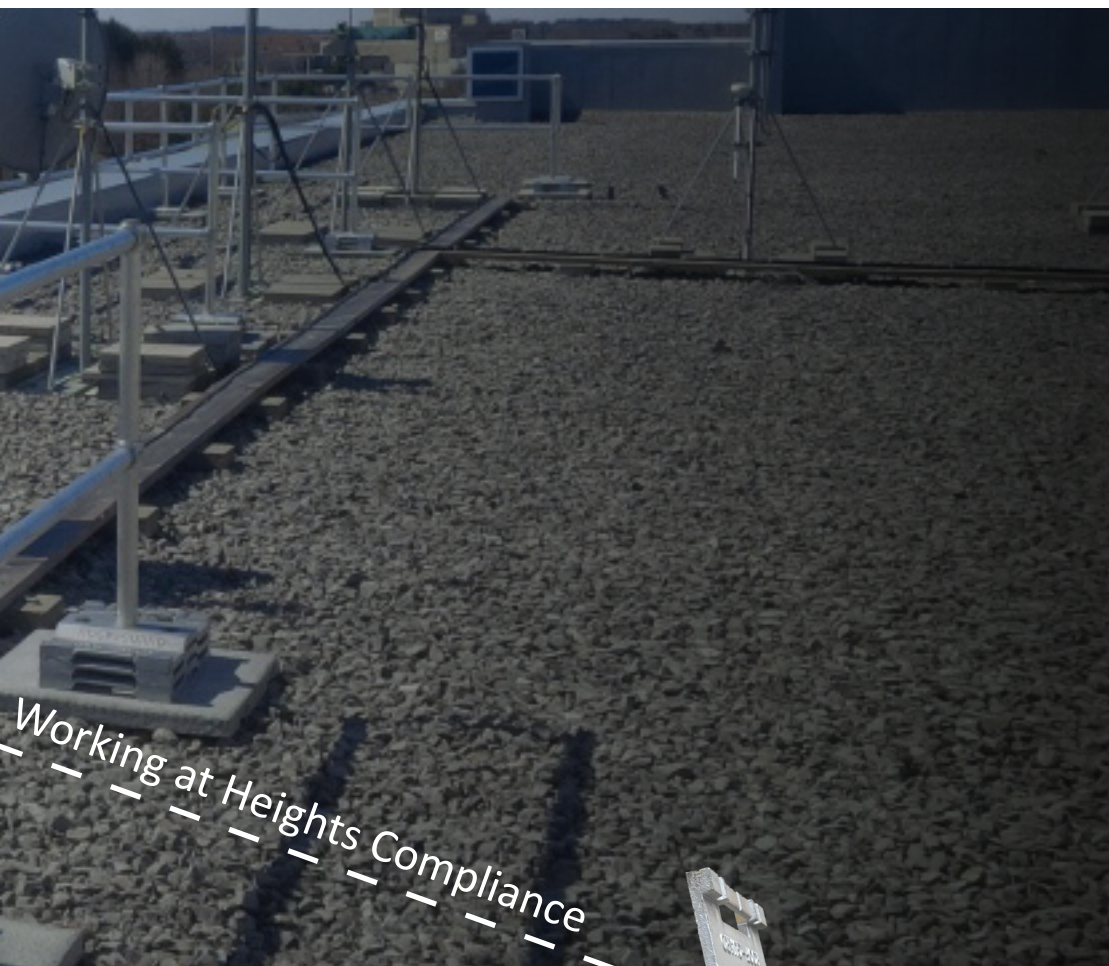
Freestanding System

Individual Components Under 40lbs

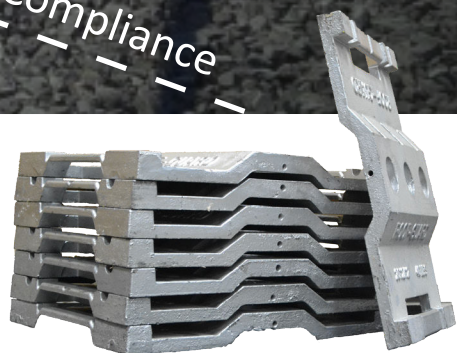
Easy Assembly

Leak Proof

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Counterweighted RoofGuard Baseplates



# CUSTOMIZED FALL PROTECTION SYSTEMS



## Engineered Passive Fall Protection

Guardrail systems eliminate the need for active fall protection equipment such as harnesses and lanyards, roof anchor systems, horizontal lifelines, and training. Reducing the extra costs associated with continual upkeep, fines, and employee non-compliance.

Each system comes with sign-off from our in-house engineering team.

**ROOFGUARD**<sub>LLC</sub>



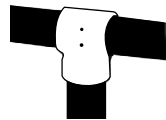
## One Tool to Assemble

Arguably the easiest rooftop system on the market to install, all kits come with everything required to assemble this elegantly simple system;

- allen wrench
- set screws



# DESIGNED BY ENGINEERS



## Fully Customizable

RoofGuard systems have been engineered with a modular, leak proof design that allows you to customize it to;

- fit any space and
- fit any configuration



## Ergonomically Designed Nesting Baseplates

The backbone of RoofGuard systems. Engineered specifically to eliminate the need for permanent attachment to rooftops.

- stackable
- lightweight (40 lbs. each)



# ROOFGUARD CLASSIC KITS



9' RoofGuard Classic Kit  
RGC-KIT-09

9 ft. of leading edge Fall Protection. It requires no rooftop penetration, and can be categorized as a passive Fall Protection solution.

This particular system is ideal for providing reliable Fall Protection around HVAC units, Vents, near Access Ladders, Antennas, Valves, Solar Panels, or simply near frequently travelled areas that require routine maintenance.



18' RoofGuard Classic Kit  
RGC-KIT-18V

Our most popular design offers 18 ft. of leading edge Fall Protection, with two 6 ft. sections for weighted ballast.

The hinged, variable fitting in the centre of the 18 ft. section allows for complete versatility when installing the system. It can be straight, at 90 degrees, or anything in between, depending on your requirements.





27' RoofGuard Classic Kit  
RGC-KIT-27V

27 ft. of leading edge Fall Protection with two 6 ft. sections for weighted ballast.

Two hinged fittings allow for complete versatility when installing the system. It can be straight, at 90 degrees, or anything in between, depending on your requirements.

ROOFGUARD CLASSIC KITS ON PAGE 21

## 3 STEPS TO FALL PROTECTION COMPLIANCE



### EVALUATE YOUR FALL PROTECTION NEEDS:

- PLAN AHEAD TO GET THE JOB DONE SAFELY.
- ASSESS AREAS ON YOUR ROOFTOP THAT REQUIRE ACCESS.

### ASSESS THE RISKS:

- ARE MY EMPLOYEES OR CONTRACTORS AT RISK OF A FALL?
- AM I EXPOSING MY COMPANY TO UNNECESSARY FINES?

### IMPLEMENT A SOLUTION:

- PROVIDE THE RIGHT FALL PROTECTION EQUIPMENT.



# HATCHGUARD GUARDRAIL



A standard spring-loaded gate ensures the gate always returns to the closed position, eliminating potential falls through the roof opening.

**ROOF**GUARD

A permanent freestanding Guardrail System, which is non-penetrating, and safely protects workers from falls through open roof hatches.

HatchGuard's simplicity allows for our system to be integrated with virtually any rooftop opening.

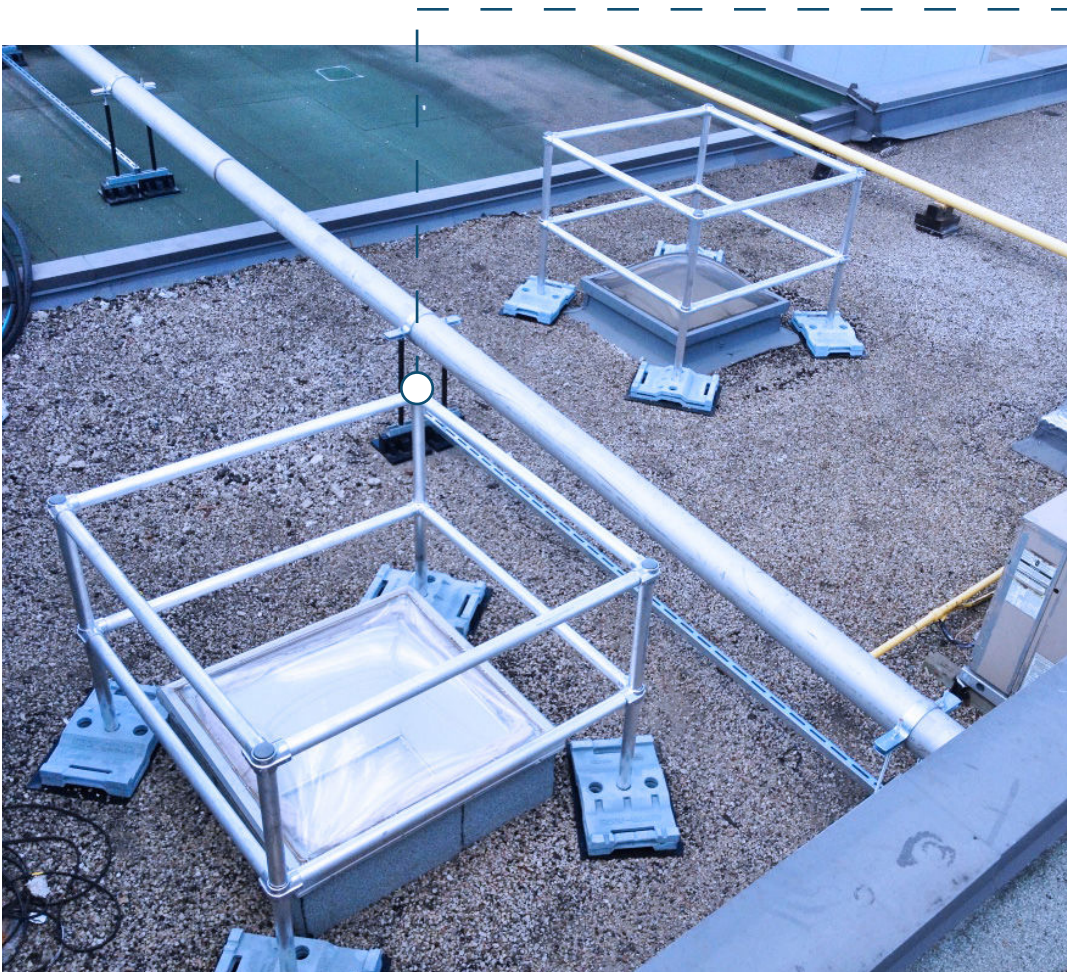
Our Roof Hatch System comes standard with a spring-loaded gate, ensuring the gate always returns to the safe closed position.

An optional fixed grab bar when exiting or entering the rooftop can be included as requested.

Custom sizes are available for non-standard hatches or rooftop openings.



# SKYLIGHT GUARDRAIL



Designed specifically to address fall protection concerns without minimizing light from your skylights, this rooftop guardrail system allows for the optimum use of your skylight while ensuring that it does not become a fall protection liability.

Our skylight guardrail systems are freestanding and utilize our counterweighted baseplates, eliminating the need for hardware connections to your rooftop.

With the addition of a skylight guardrail to your rooftop, you will be able to protect your employees and eliminate the fall danger that skylights present.

Custom sizes are available for non-standard skylights.

HATCHGUARD AND SKYLIGHT KITS ON PAGE 21

- Meets or Exceeds all Canadian and ANSI Safety Regulations
- Requires no Rooftop Penetration
- Available in both Kit and Custom Configurations
- Galvanized Finish is Corrosion Resistant



# ROOFSTEP LADDERS AND CROSSOVER PLATFORMS



Ladder Series (LD) RoofStep systems help workers move from one level to another, and have guardrails on the upper side to help prevent a fall to the lower level.

ROOFSTEP KITS ON PAGE 23

Crossover Series (XS) RoofStep systems help workers move up and over obstructions to similar roof levels, and have 45 degree bracing on both sides for stability.





# ROOFWALK



The RoofWalk system is designed to create a sure-footed walkway on your rooftop. This fully customizable platform made from non-slip materials and is installed above the roof membrane ensuring no damage is being done while it in use. Utilizing our counterweighted baseplates and RoofGuard rails, this system can be tailored to any flat roof application, providing safer access to any workspace by eliminating slipping and fall hazards.

Engineered for safety and built economically the RoofWalk system is a must on any rooftop where constant roof access is required.



# ROOFGUARD LINE OF PRODUCTS

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an investment in fall protection



Cost-effective  
working at heights  
safety solutions



Meets or exceeds all  
Canadian, provincial &  
ANSI safety standards  
& regulations



Reduces PPE and  
training requirements  
of staff and contractors



Safe and reliable  
engineered fall  
protection solution



Simple and quick  
installations that  
require only one tool



Protects employees from  
injury or death from  
potential accidents  
working at heights



Reduces the potential  
for costly fines and  
high insurance premiums



All individual  
components are  
40 lbs. or under

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ON THE LEADING EDGE OF SAFETY



# ROOFGUARD IN ACTION



## LEGEND

- 01 ROOFGUARD CLASSIC GUARDRAIL
- 02 HATCHGUARD
- 03 SKYLIGHT GUARDRAIL
- 04 ROOFSTEP CROSSOVER WALKWAY
- 05 LADDERGUARD GUARDRAIL
- 06 FIXED ACCESS LADDER

**CUSTOM ROOFTOP SOLUTIONS  
DESIGNED BY OUR  
IN-HOUSE TEAM OF ENGINEERS**

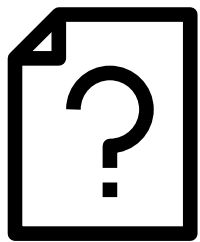


# LADDERS: LADDERGUARD AND FIXED ACCESS LADDERS

When you require access to your rooftop, but don't have a rooftop hatch, a fixed access ladder is one of the safest ways to access your rooftop.

Many regulations are in place in order to ensure that permanently fixed ladders are safe to use and to ensure they continue to be safe for the duration of their lifetime.

Offering full turn-key solutions from design to fabrication, as well as installation and specification, we ensure that all of our fixed access ladders meet or exceed provincial specifications and regulations.



**DOES YOUR FIXED ACCESS  
LADDER MAKE YOUR ROOF  
NONCOMPLIANT?**

**ROOFGUARD**





When you have created a regular access point to your roof or an elevated platform, you have created an unprotected leading edge. LadderGuard solves this potential problem with a system of guardrails designed to create an egress away from the leading edge of your rooftop.

# FALL ARREST AND RESTRAINT ANCHORS



Designed specifically for individuals working near the roof edge. These portable systems are non-penetrating counterweight anchors that allow the flexibility needed to place anchor points exactly where they are required to allow for safety compliance while working at heights.

<b>FALL ARREST</b>		<b>FALL RESTRAINT</b>
	<b>VS</b>	
STOPS A FALL THAT HAS ALREADY HAPPENED		DESIGNED TO PREVENT FALLS FROM HAPPENING







**COMMERCIAL AND RESIDENTIAL  
ROOFING APPLICATIONS**  
-  
**MEMBRANE ROOF**

**MANUFACTURING ROOFING APPLICATIONS**  
-  
**BALLAST ROOF**





## INDUSTRIAL ROOFING APPLICATIONS - METAL ROOF



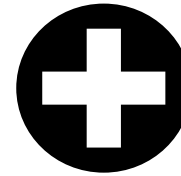
## MUNICIPAL AND EDUCATIONAL ROOFING APPLICATIONS - BALLAST ROOF





# SAFETY IN NUMBERS

"Falls are the second leading cause of accidental or unintentional injuries and deaths worldwide. Each year an estimated 646,000 individuals die from falls globally. Prevention strategies should emphasize education, training, creating safer environments, prioritizing fall-related research and establishing effective policies to reduce risk." - *World Health Organization (2018)*



## 100% Preventable Injuries

In Canada, an average of 42,000+ workers are injured each year from fall-related accidents.

- OHS Canada



## Direct Costs

According to WSIB, direct costs from fall-related workplace injuries averaged \$11,771 per injury.

- Workplace Safety and Insurance Board



## Lost Time

Over 42,000 workers get injured every year due to fall incidents. This number represents roughly 18% of the "time-loss" injuries across Canada.

- Association of Workers' Compensation Boards of Canada



## Fatalities

The second leading cause of workplace fatalities was due to falls. Accounting for an average of 15.49% of total traumatic fatalities per year from 2009 to 2018.

- Ontario Occupational Health and Safety Compliance

## Is cutting corners on safety requirements worth the risk?

RoofGuard is an investment in protecting your workforce that ends up saving you time, money, and liability. Short of eliminating rooftop hazards altogether, RoofGuard is an engineering control that meets or exceeds all provincial safety requirements.

**ROOFGUARD**

# WORKPLACE FALL HAZARDS



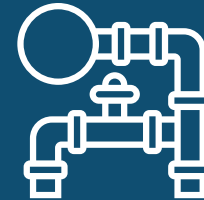
ELEVATED SURFACES



FLOOR OPENINGS



UNEVEN SURFACES



GROUND OBSTRUCTIONS



DANGEROUS MACHINERY



## AMP FINES

INCREASED MANDATE IN 2020

VERY SERIOUS  
VIOLATIONS **NOW CARRY A  
\$15,000  
MAXIMUM FINE**

CORPORATIONS MAY  
BE FINED UP TO **\$500,000**

## ACCIDENT COSTS

$$\left[ \begin{array}{l} \text{INCIDENT COSTS} + \text{INVESTIGATION COSTS} + \\ \text{PROPERTY DAMAGE} + \text{REPLACEMENT COSTS} + \\ \text{PRODUCTIVITY COSTS} \end{array} \right] \div \text{NET PROFIT \% BEFORE TAXES}$$

= GROSS SALES REQUIRED TO  
RECOVER ACCIDENT COST



THIS CALCULATION DOES NOT INCLUDE THE COST OF ELEVATED WSIB PREMIUMS. MORE IMPORTANTLY, IT CANNOT QUANTIFY THE EMOTIONAL COST OF THE INJURED WORKER, THEIR FAMILIES, THEIR FRIENDS, AND COWORKERS



# COMBINE AND CONFIGURE FOR ROOFTOP COMPLIANCE

SOME QUESTIONS TO CONSIDER...



ARE YOUR ROOFTOP OPENINGS PROPERLY GUARDED TO  
COMPLY WITH CURRENT WORKING AT HEIGHTS LAWS?



AM I, OR ANY OF MY STAFF WORKING WITHIN 6' OF THE ROOF EDGE  
AND REQUIRE FALL PROTECTION?



DO I NEED ACCESS TO MULTIPLE ROOFTOP ELEVATIONS?



ARE THERE TRIP HAZARDS ON MY ROOFTOP?



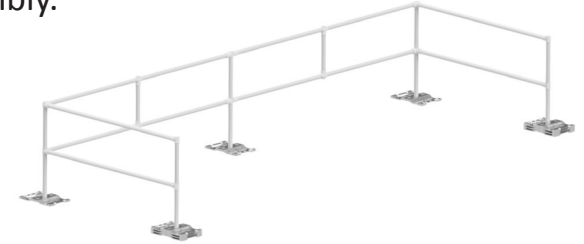
IS THERE FREQUENTLY ACCESSED EQUIPMENT ON MY  
ROOF THAT MAY POSE A RISK?

## ROOFGUARD CLASSIC KITS

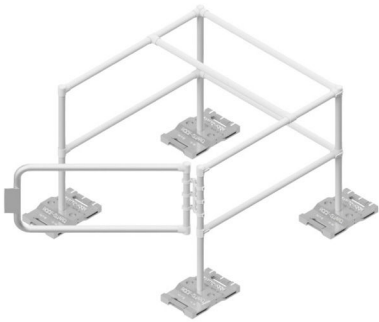
9', 12', 18' and 27' of leading edge fall protection. Kits come complete with baseplates, pre-assembled vertical rails, horizontal rails, installation instructions, and a single tool with set screws for assembly.

RoofGuard Classic Guardrail kits can be combined to reach desired linear coverage as needed in increments of 9' or 12'.

The kits are shipped on a single pallet. Shipping sizes and weights can be found below.



MODEL	DESCRIPTION	SHIPPING SIZE	WEIGHT
RGC-KIT-09	GUARDRAIL KIT - 9' OF LEADING EDGE FALL PROTECTION	9' - 4" X 15" X 18"	450 LBS
RGC-KIT-12	GUARDRAIL KIT - 12' OF LEADING EDGE FALL PROTECTION	9' - 4" X 15" X 18"	500 LBS
RGC-KIT-18V	GUARDRAIL KIT - 18' OF LEADING EDGE FALL PROTECTION	9' - 4" X 15" X 18"	525 LBS
RGC-KIT-27V	GUARDRAIL KIT - 27' OF LEADING EDGE FALL PROTECTION	9' - 4" X 15" X 18"	600 LBS



## HATCHGUARD AND SKYLIGHT GUARDRAIL KITS

HatchGuard kits are designed for standard roof hatch openings of 4' x 4' and 4' x 6'. Skylight Guardrail kits come in standard sizes of 4' x 4', 4' x 6', 6' x 6' and 9' x 9'.

Kits come complete with 8 baseplates for counterweight, pre-assembled vertical rails, horizontal rails, spring-loaded gate (for HatchGuard only), installation instructions, and a single tool with set screws for assembly.

The kits are shipped on a single pallet. Shipping sizes and weights can be found below.

MODEL	DESCRIPTION	SHIPPING SIZE	WEIGHT
HG-KIT-08	HATCH GUARDRAIL KIT - 4' X 4' WITH SELF CLOSING GATE	4' x 24" x 18"	450 LBS
HG-KIT-4X6	HATCH GUARDRAIL KIT - 4' X 6' WITH SELF CLOSING GATE	4' x 24" x 18"	500 LBS
RGC-KIT-SKY44	SKYLIGHT GUARDRAIL KIT - 4' X 4'	4' x 24" x 18"	450 LBS
RGC-KIT-SKY46	SKYLIGHT GUARDRAIL KIT - 4' X 6'	4' x 24" x 18"	500 LBS
RGC-KIT-SKY66	SKYLIGHT GUARDRAIL KIT - 6' X 6'	6' x 24" x 18"	550 LBS
RGC-KIT-SKY99	SKYLIGHT GUARDRAIL KIT - 9' X 9'	9' x 24" x 18"	600 LBS

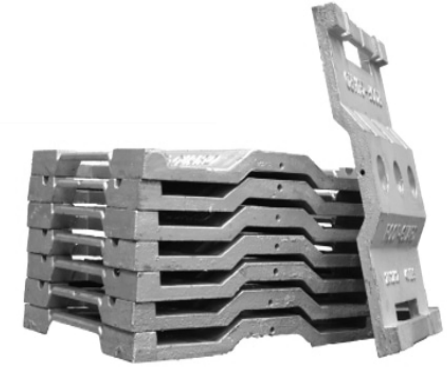


## ROOFGUARD ACCESSORIES

Leading edge fall protection accessories that integrate with your existing systems.

Ergonomically designed, stackable, 40 lb. baseplates and masticated rubber pads that are inserted below the baseplates.

Items shipped on a single pallet. Shipping sizes and weights can be found below.



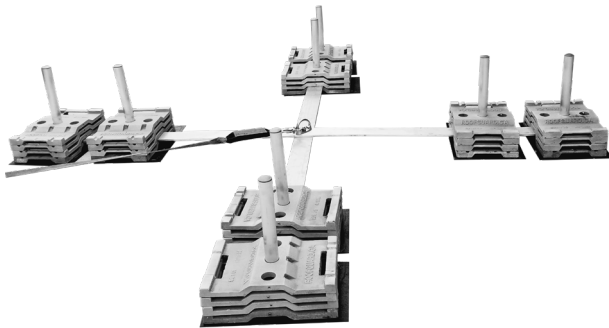
MODEL	DESCRIPTION	SHIPPING SIZE	WEIGHT
RG-BASEPLATE	ROOFGUARD STACKABLE BASEPLATE	12" x 18" x 2"	40 LBS
RG-PAD-RUBBER	MASTICATED RUBBER UNDERPAD	14" x 20" x 1/8"	3 LBS

## ROOFGUARD FALL ARREST AND FALL RESTRAINT ANCHORS

The Fall Arrest and Restraint Anchor kits are designed as a portable, counterweighted systems, which either catch or prevent individuals from falling from elevated surfaces.

The kits come complete with 12 or 32 baseplates, pre-assembled vertical posts, and a crossing horizontal attachment bracket with an anchor point and a single tool with set screws for assembly.

Kits are shipped on a single pallet. The shipping sizes and weights can be found below.



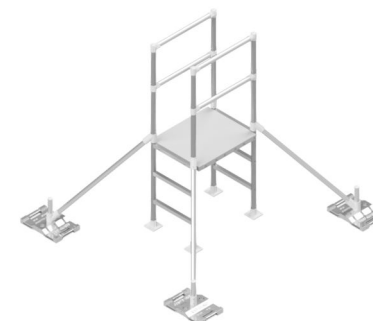
MODEL	DESCRIPTION	SHIPPING SIZE	WEIGHT
RG-ARRESTANCHOR-KIT	ROOFGUARD FALL ARREST ANCHOR KIT (32 BASEPLATES)	8' x 24" x 18"	1375 LBS
RG- RESTRAINTANCHOR-KIT	ROOFGUARD RESTRAINT ANCHOR KIT (12 BASEPLATES)	42" x 18" x 14"	500 LBS

## LADDER SERIES AND CROSSOVER PLATFORMS

Twelve distinct kits have been designed which include; pre-assembled vertical rails, horizontal rails, a parapet platform, installation instructions, baseplates, ladder rungs, and a single tool with set screws for assembly.

Upper elevation: Where a fall hazard exists from the upper elevation to the lower elevation, kits are supplied with additional fall protection guardrails.

Each kit is designed to account for typical parapet wall heights and common elevation changes found on most rooftops. Kits shipped on a single pallet. The shipping sizes and weights can be found below.



MODEL	DESCRIPTION	SHIPPING SIZE	WEIGHT
ROOFSTEP 5X5 XS	5' UP WALL FACE, 3' PLATFORM OVER PARAPET, 5' DOWN BACK	9'- 4"x 15"x 18"	450 LBS
ROOFSTEP 5X4 XS	5' UP WALL FACE, 3' PLATFORM OVER PARAPET, 4' DOWN BACK	9'- 4"x 15"x 18"	445 LBS
ROOFSTEP 5X3 LD	5' UP WALL FACE, 3' PLATFORM OVER PARAPET, 3' DOWN BACK	9'- 4"x 15"x 18"	515 LBS
ROOFSTEP 5X2 LD	5' UP WALL FACE, 3' PLATFORM OVER PARAPET, 2' DOWN BACK	9'- 4"x 15"x 18"	510 LBS
ROOFSTEP 5X1 LD	5' UP WALL FACE, 3' PLATFORM OVER PARAPET, 1' DOWN BACK	9'- 4"x 15"x 18"	500 LBS
ROOFSTEP 4X4 XS	4' UP WALL FACE, 3' PLATFORM OVER PARAPET, 4' DOWN BACK	9'- 4"x 15"x 18"	440 LBS
ROOFSTEP 4X3 LD	4' UP WALL FACE, 3' PLATFORM OVER PARAPET, 3' DOWN BACK	9'- 4"x 15"x 18"	500 LBS
ROOFSTEP 4X2 LD	4' UP WALL FACE, 3' PLATFORM OVER PARAPET, 2' DOWN BACK	9'- 4"x 15"x 18"	495 LBS
ROOFSTEP 4X1 LD	4' UP WALL FACE, 3' PLATFORM OVER PARAPET, 1' DOWN BACK	9'- 4"x 15"x 18"	490 LBS
ROOFSTEP 3X3 XS	3' UP WALL FACE, 3' PLATFORM OVER PARAPET, 3' DOWN BACK	9'- 4"x 15"x 18"	430 LBS
ROOFSTEP 3X2 LD	3' UP WALL FACE, 3' PLATFORM OVER PARAPET, 2' DOWN BACK	9'- 4"x 15"x 18"	495 LBS
ROOFSTEP 3X1 LD	3' UP WALL FACE, 3' PLATFORM OVER PARAPET, 1' DOWN BACK	9'- 4"x 15"x 18"	490 LBS





MADE IN CANADA

