

# GARGOYLE ROOFTOP GUARDRAIL SYSTEMS

## PASSIVE SOLUTIONS FOR WORKING AT HEIGHTS



MADE IN AMERICA

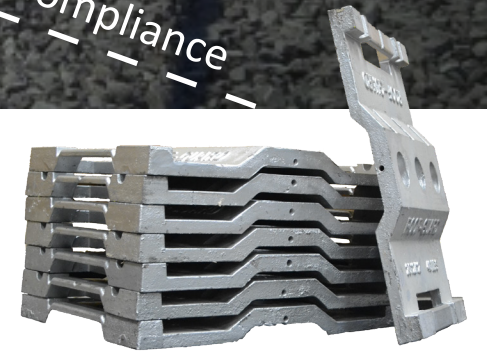
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Counterweighted Gargoyle Baseplates





# GARGOYLE ROOFTOP GUARDRAIL 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. Systems also reduce the extra costs associated with continual upkeep, fines, and employee non-compliance.

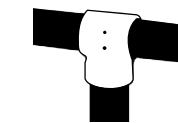
Each system comes with sign-off from our in-house engineering team.



## 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



## Fully Customizable

Gargoyle systems have been engineered with a modular, non-penetrating design that allows you to customize it to;

- fit any space
- fit any configuration



## Ergonomically Designed Nesting Baseplates

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

- stackable
- lightweight (40 lbs. each)

# DESIGNED BY ENGINEERS





# ROOFTOP GUARDRAIL



9' Gargoyle 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' Gargoyle 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' Gargoyle 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.

GARGOYLE 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.



# HATCH GUARDRAIL



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



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

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

The Gargoyle Hatch Guardrail 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.

HATCH AND SKYLIGHT GUARDRAIL KITS ON PAGE 21

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



# LADDER AND CROSSOVER SERIES



Ladder Series (LD) 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.

LADDER AND CROSSOVER SERIES KITS ON PAGE 23



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

# ROOFTOP WALKWAYS



The Rooftop Walkway system is designed to create a sure-footed walkway on your rooftop. This fully customizable platform is made from non-slip materials and is installed above the roof membrane ensuring no damage is being done while in use. Utilizing our counterweighted baseplates and Gargoyle Guardrails, 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 Rooftop Walkway system is a must on any rooftop where constant roof access is required.



# GARGOYLE LINE OF PRODUCTS

an investment in fall protection



Cost-effective working at heights safety solutions



Meets or exceeds all OSHA and ANSI safety standards and 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 under 40 lbs

**ON THE LEADING EDGE OF SAFETY**



# GARGOYLE IN ACTION



## LEGEND

- 01 GARGOYLE ROOFTOP GUARDRAIL
- 02 GARGOYLE HATCH GUARDRAIL
- 03 GARGOYLE SKYLIGHT GUARDRAIL
- 04 GARGOYLE CROSSOVER SERIES
- 05 GARGOYLE LADDER GUARDRAIL
- 06 FIXED ACCESS LADDER

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



# LADDERS: LADDER GUARDRAIL AND FIXED ACCESS LADDERS

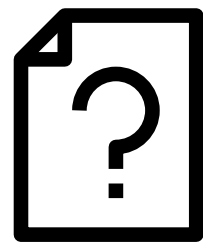
When you require access to your rooftop, but don't have a rooftop hatch, a fixed access ladder is one of the safest ways to access your rooftop.

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.



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



**DOES YOUR FIXED ACCESS LADDER MAKE YOUR ROOF NON-COMPLIANT?**





**GARGOYLE**  
rooftop guardrail

# WARNING LINES



The biggest difference between a guardrail and warning line is that a guardrail is intended to prevent a fall while a warning line is only a warning of an impending fall hazard and danger. Warning barriers and bump lines should be set up around the work area at least 2 metres (6 feet, 6 inches) from unprotected edges.

<p><b>GUARDRAILS</b></p>  <p>STOPS POTENTIAL FALLS FROM HAPPENING</p>	<p><b>VS</b></p>	<p><b>WARNING LINES</b></p>  <p>DESIGNED TO ACT AS A WARNING OF A HAZARD</p>
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**COMMERCIAL AND RESIDENTIAL  
ROOFING APPLICATIONS  
-  
MEMBRANE ROOF**

**MANUFACTURING ROOFING APPLICATIONS  
-  
BALLAST ROOF**



**MUNICIPAL AND EDUCATIONAL  
ROOFING APPLICATIONS  
-  
BALLAST ROOF**

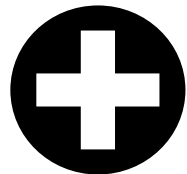
**INDUSTRIAL ROOFING APPLICATIONS  
-  
METAL ROOF**





# 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

An average of 233,176 workers were injured each year from fall related accidents from 2011 to 2019.  
- Bureau of Labor Statistics



### Lost Time

Fall injuries are the primary cause of lost time at work. Fall victims miss an average of 11 days of work and 22% of falls result in more than 31 days of missed work.  
- Bureau of Labor Statistics



### Direct Costs

Direct costs from fall related workplace injuries average \$46,592 per injury. This does not include lost time and profit.  
- National Council on Compensation Insurance



### Fatalities

The second leading cause of workplace fatalities was due to falls. This amounts to an average of 15.83% of workplace fatalities per year from 2009 to 2018.  
- National Safety Council

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

Gargoyle is an investment in protecting your workforce that ends up saving you time, money, and liability. Short of eliminating rooftop hazards altogether, Gargoyle Rooftop Guardrail is an engineering control that meets or exceeds OSHA requirements.



# WORKPLACE FALL HAZARDS



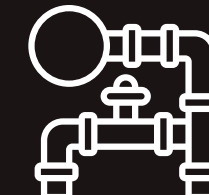
ELEVATED SURFACES



FLOOR OPENINGS



UNEVEN SURFACES



GROUND OBSTRUCTIONS



DANGEROUS MACHINERY



## OSHA FINES

1.8% INCREASE IN 2020

- FAILURE TO CORRECT **NOW CARRIES A**
- OTHER-THAN-SERIOUS **\$13,494**
- POSTING REQUIREMENT **MAXIMUM FINE**
- SERIOUS VIOLATION **MAXIMUM FINE**

**\$134,937** FOR WILLFUL AND REPEATED VIOLATIONS

## ACCIDENT COSTS

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

**=** GROSS SALES REQUIRED TO RECOVER ACCIDENT COST 

THIS CALCULATION DOES NOT INCLUDE THE COST OF ELEVATED INSURANCE 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 FT. 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?



## GARGOYLE ROOFTOP GUARDRAIL

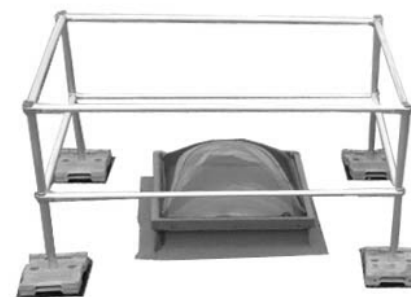
Standard kits of 9', 12', 18' and 27' of leading edge fall protection. Kits come complete with baseplates, pre-assembled vertical rails, horizontal rails, installation instructions, and a single tool with set screws for assembly.

Gargoyle Rooftop 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



## GARGOYLE SKYLIGHT GUARDRAIL KITS

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, 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
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

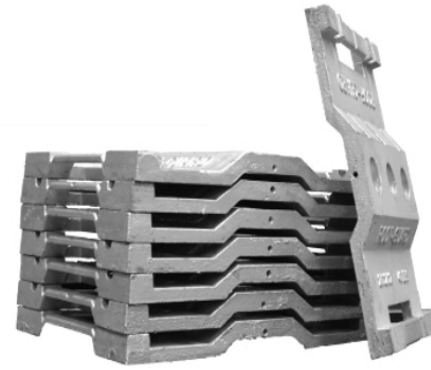


## GARGOYLE ACCESSORIES

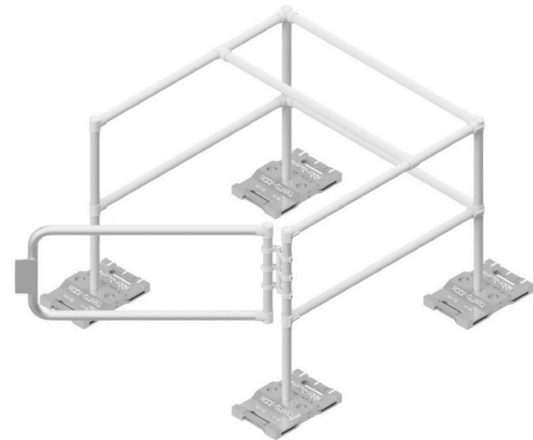
Leading edge fall protection accessories that integrate with your existing systems.

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	GARGOYLE STACKABLE BASEPLATE	12" x 18" x 2"	40 LBS
RG-PAD-RUBBER	MASTICATED RUBBER UNDERPAD	14" x 20" x 1/8"	3 LBS



## GARGOYLE HATCH GUARDRAIL KIT

Hatch Guardrail kits are designed for standard roof hatch openings of 4' x 4' and 4' x 6'.

Kits come complete with 8 baseplates for counterweight, pre-assembled vertical rails, horizontal rails, spring-loaded gate, 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

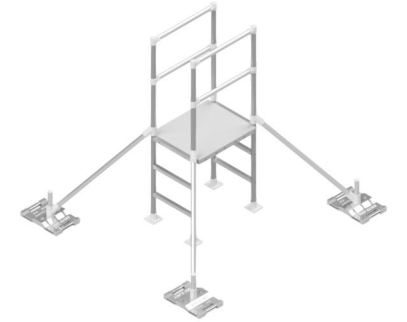


## LADDER AND CROSSOVER SERIES

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





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