



#### **Installation Manual:**

RoofGuard Rooftop Guardrail Systems Gargoyle Rooftop Guardrail Systems HatchGuard Guardrail Systems Gargoyle Hatch Guardrail Systems RoofGuard Skylight Guardrail Systems Gargoyle Skylight Guardrail Systems

#### **Rooftop Guardrail Systems**

Model Numbers:

RGC-KIT-09, RGC-KIT-12, RGC-KIT-18,

RGC-KIT-27, HG-KIT-08, HG-KIT-4X6,

HG-KIT-4X6-H, RGC-KIT-SKY44,

RGC-KIT-SKY64, RGC-KIT-SKY66,

RGC-KIT-SKY99

This Installation Manual is intended to meet the Manufacturer's Instructions requirements and should be used as part of an employee training program.

#### WARNINGS AND CONDITIONS

These instructions must be provided to the installer of this system. The installer must read and understand these instructions and follow.

Failure to follow these instructions or the details of the unique layout drawing provided may result in serious injury or death. If you have any questions about this system's use or care, please contact the manufacturer: 1-800-977-2005.

RoofGuard Rooftop Guardrail Systems, Gargoyle Rooftop Guardrail Systems, HatchGuard Guardrail Systems, Gargoyle Hatch Guardrail Systems, RoofGuard Skylight Guardrail Systems, Gargoyle Skylight Guardrail Systems Manual RGC-UM-1

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# **WARNING**

# IMPROPER USE OR INSTALLATION OF THIS EQUIPMENT MAY CAUSE INJURY OR DEATH

Failure to Read, Understand, and Follow the Installation Manual may result in injury or death

**DO NOT** lean on the railing

**DO NOT** stand or climb on the railing

**DO NOT** use rail as a tie-off point

**DO NOT** use rail for lifting or hoisting

**DO NOT** install railing within 10-feet of any electrical lines

**DO NOT** use if any component is found defective or damaged

**DO NOT** attach banners, signs, or equipment to rail.

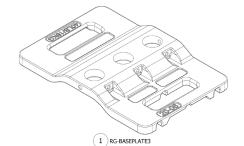
**DO NOT** apply an excess force to the top rail which could cause tipping

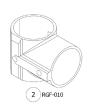
**DO** install on a clean, dry, flat surface per Installation Manual

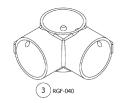
**DO** read and follow this document (Installation Manual) and details on System Drawing

Roofguard and Gargoyle systems are designed and are to be used only for their intended purpose. The use of these guardrail systems or their components for any other purpose **may** cause injury or death.

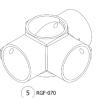
### Figure 1 - Component Identification

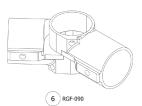


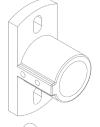








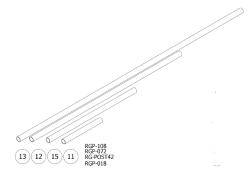












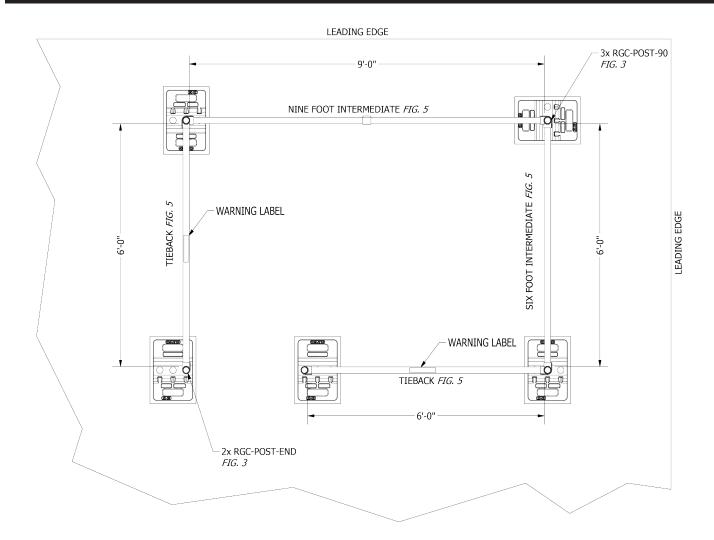




16         RG-TOOL-TBASIC         Allen Key 9" T-Handle 3/16" hex key - Basic 7391A76           15         RG-POST42         Aluminum Pipe 6061 42 LG           14         RG-PAD-RUBBER         Underpad, 1/8" Masticated Rubber, .125 X 14"x20"           13         RGP-108         RoofGuard Pipe, 108" Length (9 ft)           12         RGP-072         RoofGuard Pipe, 72" Length (6 ft)           11         RGP-018         RoofGuard Pipe, 18", Mid Spacer           10         RG-HATCH 48         4 ft GATE           9         RGF-CAP         Fitting, Plastic Plug for Open Pipe End, 10580           8         RGF-152ES         Fitting, Extruded Bracket, 1" Cut, 28610           7         RGF-100         Fitting, Base Flange, 28140           6         RGF-090         Fitting, Nu Rail, Adjustable Swivel, Mid or Top, 08530           5         RGF-070         Fitting, Side Outlet Cross E, Three Socket, 08180           4         RGF-060         Fitting, Cross E, Two Socket, 08100           3         RGF-040         Fitting, Side Outlet Tee-E, 90 deg., 08150           2         RGF-010         Fitting, Tee, Single Socket, 08060           1         RG-BASEPLATE3         RoofGuard, 3nd Generation Base Plate 40lb			
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The break and th	2	RGF-010	Fitting, Tee, Single Socket, 08060
# PART NUMBER DESCRIPTION	1	RG-BASEPLATE3	RoofGuard, 3nd Generation Base Plate 40lb
	#	PART NUMBER	DESCRIPTION



Figure 2 - Typical Layout



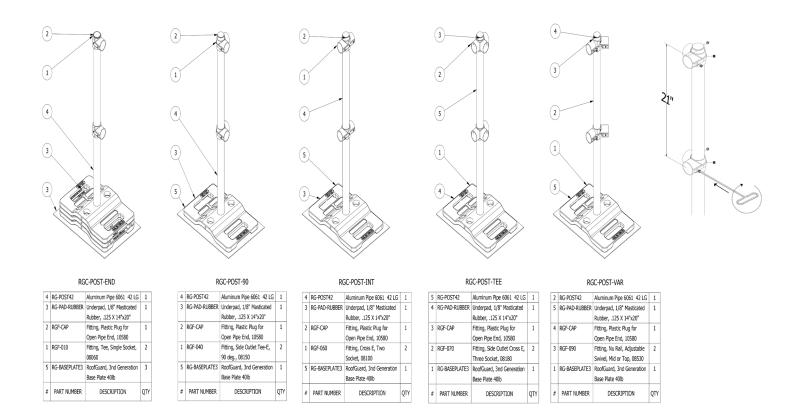
#### Typical Layout

- Install on a flat (5-degrees or less), clean, dry surface, only.
- Tie-back rails must be 6' (2.4m) from any parallel fall hazard/edge.
- If parapet wall/curb is not present contact manufacturer.
- Install tie-backs perpendicular to hazard edge, at ends of guardrail and at least every 27' (8.2m).
- Each system comes with a unique layout drawing with details specific to that system.
- No modifications or alterations are permitted to the layout without manufacturer's written approval.



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#### Figure 3 - Post Assembly

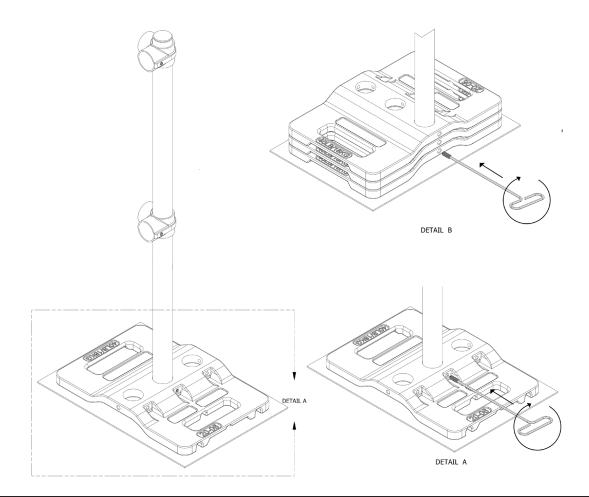


#### Post Assembly

- Set screws in all fittings should be tightened to approximately 18 ft-lbs. If torque wrench is not available, tighten set screw until it contacts pipe, then tighten one more full revolution.
- Plug open top with RG-Cap.



Figure 4 - Post/Base Connection



#### Post/Base Connection

Detail A - Post into base – at leading edge – single baseplate.

- Post may be installed in any of the 3 holes to prevent tripping or positioning base near existing features.
- One set-screw per baseplate required to be secured against post.
- Torque to 25 ft-lbs. If torque wrench is not available, tighten set screw until it contacts pipe, then tighten 1.5 more revolutions.

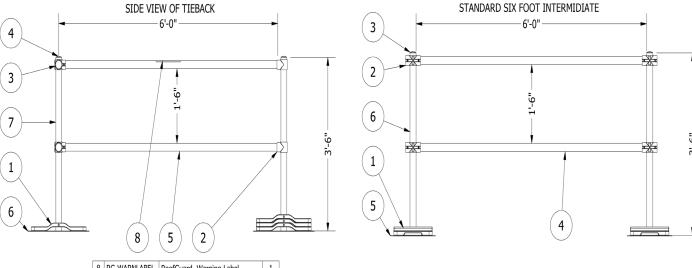
Detail B - 3 baseplates at tie-back for counterweight.

- Post may be installed in any of the 3 holes to prevent tripping or positioning base near existing features.
- For specific baseplate stacking, refer to unique layout drawing.
- One set-screw in the bottom baseplate required to be secured against post.
- Torque to 25 ft-lbs. If torque wrench is not available, tighten set screw until it contacts pipe, then tighten 1.5 more revolutions.



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#### Figure 5A - Horizontal Rails



8	RG-WARNLABEL	RoofGuard, Warning Label	1
7	RG-POST42	Aluminum Pipe 6061 42 LG	2
6	RG-PAD-RUBBER	Underpad, 1/8" Masticated	2
		Rubber, .125 X 14"x20"	
5	RGP-072	RoofGuard Pipe, 72" Length (6	2
		ft)	
4	RGF-CAP	Fitting, Plastic Plug for Open	2
		Pipe End, 10580	
3	RGF-070	Fitting, Side Outlet Cross E,	2
		Three Socket, 08180	
2	RGF-010	Fitting, Tee, Single Socket,	2
		08060	
1	RG-BASEPLATE3	RoofGuard, 3nd Generation Base	4
		Plate 40lb	
#	PART NUMBER	DESCRIPTION	QTY
πF	TAKT NOPIDEK	DESCRIPTION	QII

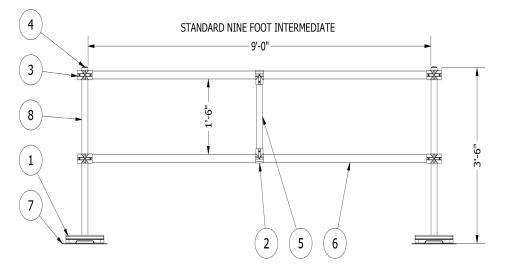
6	RG-POST42	Aluminum Pipe 6061 42 LG	2
5	RG-PAD-RUBBER	Underpad, 1/8" Masticated	2
		Rubber, .125 X 14"x20"	
4	RGP-072	RoofGuard Pipe, 72" Length (6	2
		ft)	
3	RGF-CAP	Fitting, Plastic Plug for Open	2
		Pipe End, 10580	
2	RGF-060	Fitting, Cross E, Two Socket,	4
		08100	
1	RG-BASEPLATE3	RoofGuard, 3nd Generation Base	2
		Plate 40lb	
#	PART NUMBER	DESCRIPTION	QTY

#### **Horizontal Rails**

- 6' rails between posts for tie-back counterweights or 6' spans of rail.
- Top of top rail should be 42" above walking surface.
- Center of Mid-Rail should be 21" above walking surface.
- Refer to unique layout drawing for your system for specific details.



#### Figure 5B - Horizontal Rails



8	RG-POST42	Aluminum Pipe 6061 42 LG	2
7	RG-PAD-RUBBER	Underpad, 1/8" Masticated	2
		Rubber, .125 X 14"x20"	
6	RGP-108	RoofGuard Pipe, 108" Length (9	2
		ft)	
5	RGP-018	RoofGuard Pipe, 18", Mid Spacer	1
4	RGF-CAP	Fitting, Plastic Plug for Open	2
		Pipe End, 10580	
3	RGF-060	Fitting, Cross E, Two Socket,	4
		08100	
2	RGF-010	Fitting, Tee, Single Socket,	2
		08060	
1	RG-BASEPLATE3	RoofGuard, 3nd Generation Base	2
		Plate 40lb	
#	PART NUMBER	DESCRIPTION	QTY

#### Figure 5B - Horizontal Rails

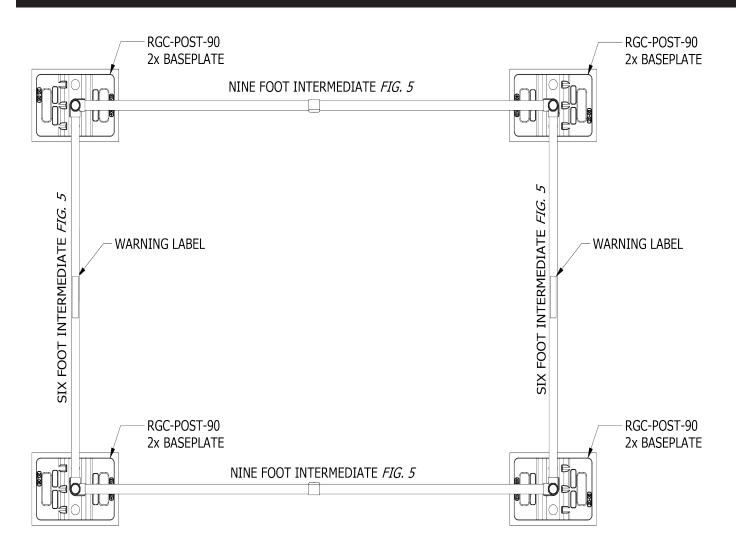
- 9' rails along leading edge.
- Use two RGF-010 and one RGP-018 to stiffen.
- Top of top rail should be 42" above walking surface.
- Center of Mid-Rail should be 21" above walking surface.

It is the user's responsibility to maintain the railing system in good working condition to ensure proper function of the railing system



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Figure 6 - Skylight Rails



### Figure 6 - Skylight Rails

- RGP-048 4' horizontal rails
- RGP-072 6' horizontal rails (see Figure 5A)
- RGP-108 9' horizontal rails (see Figure 5B)
- Posts get 2 baseplates each.
- Rails make complete enclosure for skylight
- Refer to unique layout drawing for your system for specific details.



Figure 7 - Hatch Rails

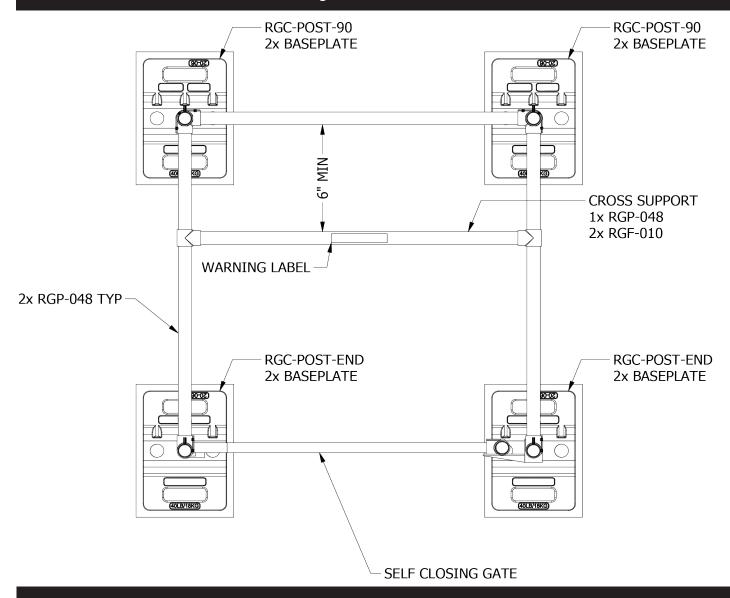


Figure 7 - Hatch Rails

- RGP-048 4' horizontal rails and back rails
- 48" Galvanized Self-Closing Gate
- Posts get 2 baseplates each.
- Top-Rail Stiffener should be 6" minimum from corner posts
- Refer to unique layout drawing for your system for specific details.



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## **WARNING**

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- **DO NOT** lean on the railing
- **DO NOT** stand or climb on the railing
- **DO NOT** use rail as a tie-off point
- **DO NOT** use rail for lifting or hoisting
- **DO NOT** install railing within 10-feet of any electrical lines
- **DO NOT** use if any component is found defective or damaged
- **DO NOT** attach banners, signs, or equipment to rail.
- **DO NOT** apply an excess force to the top rail which could cause tipping
- **DO** install on a clean, dry, flat surface per Installation Manual
- **DO** read and follow this document (Installation Manual) and details on System Drawing

Roofguard and Gargoyle systems are designed and are to be used only for their intended purpose. The use of these guardrail systems or their individual components for any other purpose may cause injury or death.

## **Fall Protection Warranty**

Please refer to website for product warranty information.

fallsafetysolutions.com/terms-conditions/

factorysupply.com/terms-conditions/



Liftsafe Fall Protection 409 Harmony Road Ayr, Ontario NOB 1E0 1(800) 977-2005 info@liftsafeinspections.com www.fallsafetysolutions.com



Factory Supply 8001 Tower Point Drive Charlotte, NC 28227 1(888) 242-3045 sales@factorysupply.com www.factorysupply.com