

# DrainNet

## TECHNOLOGIES



### Product Name

- Roof Guardian™

### Product Description

The Roof Guardian is a system that is intended to sit on the roof via four corner legs with multiple support legs in the center and provides a 360 degree protection around the exhaust fan. This system sits two inches off the rooftop to allow inspection of the roof between service intervals. The system uses an aluminum frame with additional aluminum hold down rods to hold the multi-layered fire/grease barrier system.

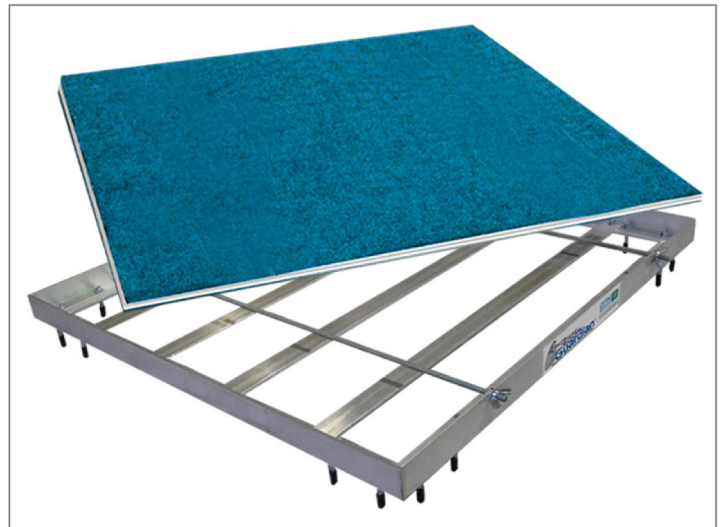
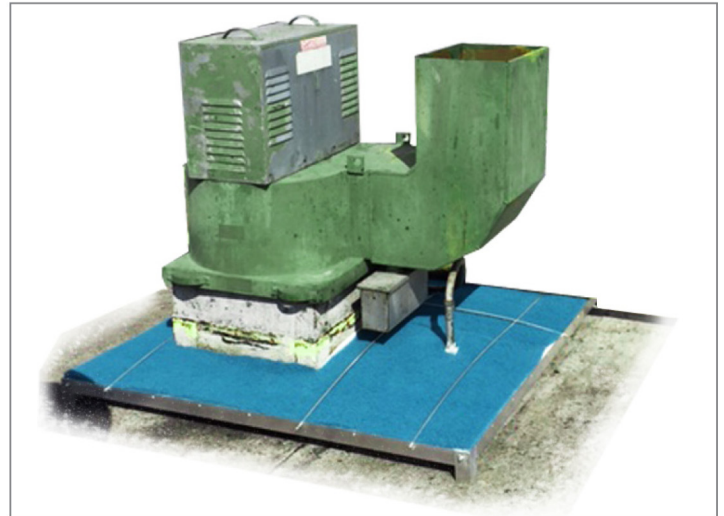
### Basic Use

The Roof Guardian is used in conjunction with rooftop fan ventilation systems to collect grease as it accumulates on and around the fan system during normal usage. This product is used where the OEM Fan grease receptacles and other aftermarket rooftop grease containment systems do not provide sufficient grease and fire protection. Part of the Roof Guardian grease containment system is the multi-layered grease filtration system which helps keep roofs free of grease.

### Composition and Materials

The Roof Guardian frame is composed of aluminum. The filter is composed of five layers: (see photo on page 2)

- The top layer is absorbent media with UV-resistant properties to disperse FOGs evenly to the absorbent second and third layers
- The second layer layers consists of a hydrophobic material that absorbs FOGs while allowing water to run through
- The third layer is an extra absorbent Air Matrix™ polypropylene backed layer



- The fourth layer is the same material as the top layer
- The fifth layer is an acrylic-coated, fiberglass woven fire-shield layer, Hytex® 1000-2025 Premium WL

### Benefits

- The Roof Guardian helps to keep fats, oils and grease, (FOG), off of roofs
- The Roof Guardian also helps keep FOG from contaminating rooftop water runoff
- It provides off-the-roof protection which makes preventative maintenance much easier
- The Roof Guardian is fire-resistant and assists an exhaust system in attaining NFPA 96 compliance; provided all other components of the system are compliant and correctly installed

**Note:** benefits provided that system is properly maintained and all other components are compliant and correctly installed.



### Dimensions

The Roof Guardian is four inches tall with two inches of rooftop clearance with a standard square platform size of 48, 60 or 72 inches.

### Product Limitations

If the product cannot be installed to manufacturer specification as defined in the manufacturer's installation documents, the unit should not be utilized.

### Technical Data

#### Applicable Standards

The Roof Guardian system provides grease protection at the base of a rooftop exhaust fan. Because the patented filter neutralizes FOGs and converts it into a solid, the system will not exceed one liquid gallon of grease, which is a requirement of NFPA 96. When the Roof Guardian and its absorbent media are used together and all other components of the system are compliant and correctly installed, the Roof Guardian and filter aid in a NFPA 96 compliant exhaust system.

#### Environmental Considerations

May assist in LEED points.

### Installation

#### Preparatory work

Measurement of duct and potential obstructions for proper product fitment.

Assure that installation area is free of any FOGs.

### Methods

Install by following exact manufacturer-supplied instructions.

### Precautions

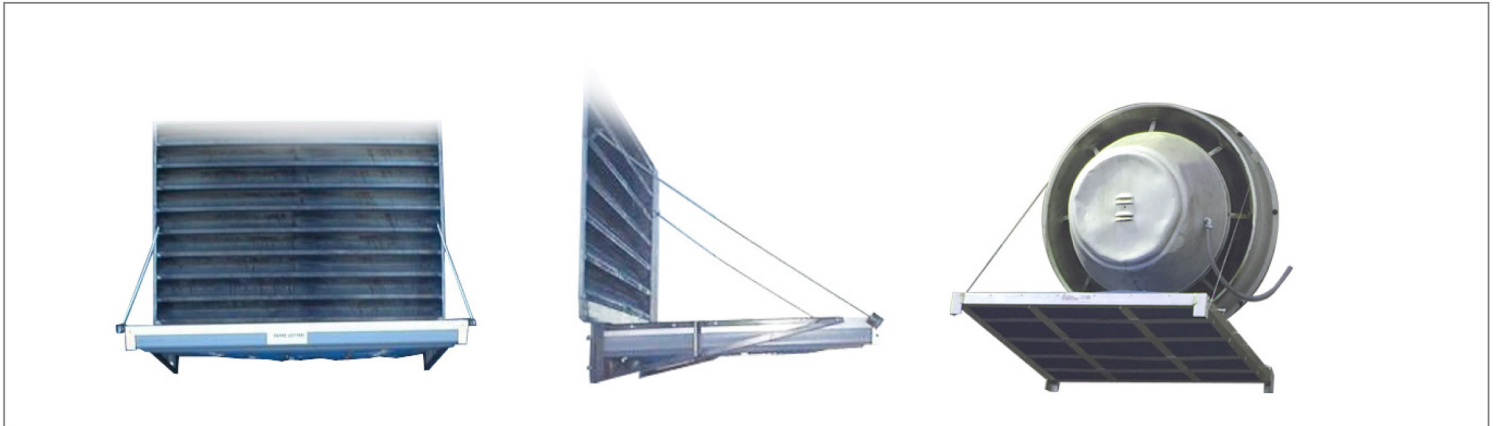
Eye protection and work gloves are required during installation and service of system.

### Installation Instructions

1. Attach the two angled pieces with the legs with the two angled pieces that do not have legs to form the perimeter of the box. Use the supplied  $\frac{1}{4}$  inch nut/bolt/washers combination to attach them. Place the box in the desired position around the fan and then bolt the final corner together.
2. Situate the flat stock around the fan so that there are no obstacles in the way and they are in a position to hold the filters. Using a  $\frac{1}{4}$  inch drill bit, *not supplied*, drill a hole into the bottom of the angled pieces so that the flat stock will attach. Use the supplied  $\frac{1}{4}$  inch nut/bolt/washer combination to fasten lower arms to the angled stock.
3. Next, systemically attach the supplied leg supports at junctions of the flat stock.
4. Install Filter:
  - a. First, lay down the fireshield layer.
  - b. Next, put down a layer of blue filters.
  - c. Install white filter sets, plastic-backed filters first with plastic side down.
  - d. Then lay down the quilted, white non-plastic backed absorbent, hydrophobic layer.
  - e. Finish with another set of blue filters.
  - f. Cut filter material however it needs to be cut in order for it to fit around any obstructions and fan itself. Use the cutout material doubled-up on any of the extra white non-plastic backed filter in the area that is dispensing the most grease. Using the pre-drilled holes, place the metal rods in the angled aluminum with the  $\frac{1}{4}$  inch drill bit in order to place metal rods through all four sides so that the rods crisscross and hold the filter media in place.

### Delivery, Storage and Handling

- Shipped via preferred shipping company
- No shelf life
- Shipped disassembled and boxed



Side mount kits available

## Warranty

Roof Guardian is warranted for the service life of the ventilator for which system was originally installed on. Misuse/improper maintenance voids warranty.

## Maintenance

Manufacturer recommends servicing system every 90 days or more frequently as determined by FOG output. Heavily soiled filters should be changed by qualified service professional. Contact manufacturer for names of professionals in your area.

## Filing Systems

- ConstructConnect
- Additional product information is available from the manufacturer upon request ↪