



## SECTION 211371 - SPRINKLER GUARDS

Contact for assistance in editing this specification: [info@sprinkguard.com](mailto:info@sprinkguard.com). (877) 274 7976.

EDITOR NOTE: SprinkGUARD sprinkler guards are designed to protect sprinkler heads from inadvertent activation or damage by foreign objects. This Section has been developed in accordance with Construction Specifications Institute (CSI) standards for formatting construction information. The technical contents of this Section may optionally be inserted into the sprinkler system specifications. NFPA 13 requires sprinkler head guards on heads susceptible to damage.

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes: Sprinkler guards.
- B. Referenced Sections:
  - 1. Section 211100 - Facility Fire-Suppression Water-Service Piping
  - 2. Section 211300 - Fire-Suppression Sprinkler Systems
  - 3. Section [ ] - [ ] Sprinkler Systems [ ]

#### 1.2 REFERENCED STANDARDS

EDITOR NOTE: Edit list below to standards that remain outside of this Article after editing the Section.

- A. Edition Dates: Current edition at Bid Date, with applicable appendices and supplements if any, unless otherwise indicated or adopted by authorities having jurisdiction.
- B. UL LLC, Underwriters Laboratories (UL) <https://www.ul.org>

#### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with the Work of other Sections for sequencing and scheduling to avoid delays.
  - 1. Section 211100 for sprinkler system piping.
  - 2. Section [211300][ ] for sprinkler systems.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: Manufacturer's descriptive literature for each type of product specified, marked to show specific products and options to be incorporated into the project.
- B. Color Samples: Complete line of color samples from manufacturer's selections.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Manufacturer's Instructions: Manufacturer's recommendations for installation of sprinkler guards.



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### 1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Provide products tested, labeled, and listed by UL or another qualified independent third-party testing agency acceptable to authorities having jurisdiction.

### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Conform to manufacturer's instructions. Deliver and store in original, unopened, protective containers and packaging with seals intact and labels clearly identifying product name and manufacturer. Store in a safe, protected location. Handle in a manner to protect from damage.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturer: Provide products from the following:
  - 1. SprinkGUARD, LLC, 5776 Grape Rd, Suite 51, PMB #161, Mishawaka IN 46545, (877) 2747976, info@sprinkguard.com.

EDITOR NOTE: Insert wording to allow substitutions if required.

### 2.2 SPRINKLER GUARDS, GENERAL

EDITOR NOTE: Products specified are standard. Custom designs are available to accommodate other applications as needed.

- A. High-strength sprinkler guards, designed to protect sprinkler heads from inadvertent activation or damage by foreign objects.
- B. UL certified/classified and approved.

### 2.3 SPRINKLER GUARDS

EDITOR NOTE: Sizes specified are standard. Custom sizes are available.

- A. Sprig/Drop SprinkGUARD: Part Number SG106. Designed to protect sprinkler heads found on a sprig-line or drop-line. Designed to protect sprinkler heads located in an open/ closed fire suppression system from inadvertent activation by foreign objects. Guard attaches directly to the fire suppression line or fitting.
  - 1. Cage:
    - a. Height: 3-1/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Width (Bottom): 5 inches.
    - d. Bar Thickness: 3/16 inch.
  - 2. Top Ring:
    - a. Thickness: 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  - 3. Mounting Brackets:
    - a. Thickness: 11 gauge.
    - b. Width: 1-7/16" inch.
    - c. Length: 5-1/4 inch.



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- d. Height: 1-3/8 inch.
  - e. Spacer Length: 3-1/4 inch.
  - f. Spacer Size 5/16 inch. Inside Dia.
- B. Flush Mount SprinkGUARD: Part Number SG101. Designed to protect sprinkler heads found in walls and ceilings within the fire suppression system line. Designed to protect sprinkler heads located in a ceiling from inadvertent activation by foreign objects.
1. Cage:
    - a. Height: 3-1/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Width (Bottom): 5 inches.
    - d. Bar Thickness: 3/16 inch.
  2. Ring:
    - a. Thickness: 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  3. Baseplate:
    - a. Thickness: 11 gauge.
    - b. Width: 5 inches.
    - c. Length: 5 inches.
    - d. Hole Width: 3-1/2 inch.
- C. Sidewall SprinkGUARD: Part Number SG104. Designed to protect sidewall sprinkler heads found in walls within the fire suppression system line. Designed to protect sprinkler heads located in a wall from inadvertent activation by foreign objects.
1. Cage:
    - a. Height: 2 inches.
    - b. Width (Top): 4 inches.
    - c. Width (Bottom): 4-1/4 inch.
    - d. Bar Thickness: 1/4 inch.
  2. Baseplate:
    - a. Thickness: 11 gauge.
    - b. Inside Diameter: 3-3/4 inch.
    - c. Outside Diameter: 5 inch.
- D. Inline SprinkGUARD: Part Number SG102. Designed to protect sprinkler heads located in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line.
1. Cage:
    - a. Height: 3-3/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Width (Bottom): 3-5/8 inch.
    - d. Bar Thickness: 3/16 inch.
  2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  3. Baseplate:
    - a. Thickness: 11 gauge.
    - b. Width: 3-1/2 inch.
    - c. Length: 5-3/4 inch.
    - d. Hole Width: 1-5/8 inch.
    - e. Hole Length: 2-1/2 inch.



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- E. Endline SprinkGUARD: Part Number SG103. Designed to protect sprinkler heads located in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line.
1. Cage:
    - a. Height: 3-3/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Bar Thickness: 3/16 inch.
  2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  3. Baseplate:
    - a. Thickness: 11 gauge.
    - b. Width: 3-1/2 inch.
    - c. Length: 7 inches.
    - d. Hole Width: 1-5/8 inch.
    - e. Hole Length: 2-1/2 inch.
- F. ThreadGUARD: Part Number TG123. Designed to protect sprinkler heads located in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line fitting.
1. Cage:
    - a. Height: 3-3/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Width (Bottom): 3-5/8 inch.
    - d. Bar Thickness: 3/16 inch.
    - e. Plate Thickness: 7 gauge.
    - f. Plate Hole: 2-1/4 inch.
  2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  3. Baseplate:
    - a. Thickness: 7 gauge.
    - b. Width: 2-1/4 inch.
    - c. Length: 3-1/2 inches.
    - d. Thread Size: Sub-Component-TGB3412: 1/2"x 3/4", TGB112: 1/2"x1", TGB134: 3/4"x1".
- G. WeldGUARD: Part Number WG123. Designed to protect sprinkler heads in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line. Guards are intended to be welded on the fire line during fabrication or installation of the fire suppression pipe.
1. Cage:
    - a. Height: 3-3/4 inch.
    - b. Width (Top): 2-5/8 inch.
    - c. Width (Bottom): 3-3/8 inch.
    - d. Bar Thickness: 3/16 inch.
    - e. Plate Thickness: 7 gauge.
    - f. Plate Hole: 2-1/4 inch.
  2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 2-1/4 inch by 2-5/8 inch.
  3. Baseplate:
    - a. Thickness: 7 gauge.



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- b. Width: 1-9/16 to 2-1/8 inch.
  - c. Length: 3-1/2 inch.
  - d. Thread Size: Sub-Component-WGB012: 1/2", WGB001: 1", WGB034: 3/4".
- H. ESFR ThreadGUARD: Part Number TG520. Designed to protect ESFR sprinkler heads located in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line fitting.
- 1. Cage:
    - a. Height: 5 inches.
    - b. Width (Top): 4-1/2 inch.
    - c. Width (Bottom): 5 inch.
    - d. Bar Thickness: 1/4 inch.
    - e. Plate Thickness: 7 gauge.
    - f. Plate Hole: 2-1/2 x 3 inch.
  - 2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 3-11/16 inch by 4-1/2 inch.
  - 3. Baseplate:
    - a. Thickness: 7 gauge.
    - b. Width: 2-1/4 inch.
    - c. Length: 3-1/2 inches.
    - d. Thread Size: Sub-Component- TGB134: 3/4"x1", TGB1141: 1"x1 1/4".
- I. ESFR WeldGUARD: Part Number WG520. Designed to protect ESFR sprinkler heads in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line. Guards are intended to be welded on the fire line during installation of the fire suppression pipe.
- 1. Cage:
    - a. Height: 5 inches.
    - b. Width (Top): 4-1/2 inch.
    - c. Width (Bottom): 5 inch.
    - d. Bar Thickness: 1/4 inch.
    - e. Plate Thickness: 7 gauge.
    - f. Plate Hole: 2-1/2 x 3 inch.
  - 2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top): 3-11/16 inch by 4-1/2 inch.
  - 3. Baseplate:
    - a. Thickness: 7 gauge.
    - b. Width: 2-1/8 inches.
    - c. Length: 3-1/2 inches.
    - d. Thread Size: Sub-Component-WGB012: 1/2", WGB001: 1", WGB034: 3/4".
- J. ESFR Inline Guard: Part Number SG511. Designed to protect ESFR sprinkler heads located in an open fire suppression system from inadvertent activation by foreign objects. For sprinklers in gyms, pallet racks, etc. within the fire suppression system. Guard attaches directly to the fire suppression line.
- 4. Cage:



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- a. Height: 5 inches.
  - b. Width (Top): 4-1/2 inch.
  - c. Width (Bottom): 4-1/2 inch.
  - d. Bar Thickness: 1/4 inch.
  - e. Plate Thickness: 11 gauge.
  - f. Plate Hole: 3-7/8 inch.
2. Ring:
    - a. Thickness (Top): 1/4 inch.
    - b. Width (Top) 3-11/16 inch. by 4-1/2 inch.
  3. Baseplate:
    - a. Thickness 11 gauge.
    - b. Width: 5 inches.
    - c. Length: 6 inches.

### MATERIALS

EDITOR NOTE: Mild grade steel is standard. Revise to stainless steel if required, e.g. Type 304 for corrosive environments, or Type 316 for more corrosive environments.

- J. Laser cut, 1/4 inch & 3/16 inch round  mild grade steel  Type 304 stainless steel  Type 316 stainless steel .

### 2.4 FINISHES

EDITOR NOTE: Delete metals and finishes not used. White is stock color.

- A. Steel: Powder coat finish.
  1. Color:  White  Custom .
- B. Stainless Steel:  Type 304  Type 316 .

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine systems and surfaces to receive sprinkler guards. Notify Architect/Engineer in writing of conditions that are not acceptable.
- B. Do not begin work of this Section until unacceptable conditions have been corrected.

### 3.2 INSTALLATION

- A. Install sprinkler guards in accordance with manufacturer's printed instructions, and requirements of Contract Documents.
- B. Accurately fit, align, securely fasten and install free from distortion or defects.

END OF SECTION