

City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420



Notice

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to copyright protection
pursuant to Federal Law:
17 United States Code
Section 106.**

Fm Global "signoff" of
installed FM Rack
sprinklers.

RSN 502496



November 18, 2009

FM Global
1301 Atwood Avenue
P.O. Box 7500 Johnston, RI 02919 USA
T: +1 (1)401 275 3000 F: +1 (1)401 275 3029 www.fmglobal.com

Mr. Jim Roberts
Facilities Manager
The Kroger Company
"King Soopers DC-CO"
1933 Tower Road
Aurora, CO 80011

Dear Jim:

On November 17, 2009, I conducted the field acceptance examination of the ceiling sprinkler system and in-rack sprinkler system installed in Area E of the King Soopers DC-CO. All sprinkler systems passed the required hydrostatic testing. The ceiling sprinkler system was installed in accordance with the FM Global plan review letter dated September 22, 2009. There were no obvious installation deficiencies noted for the ceiling installation and it is considered satisfactory. The in-rack sprinkler system was installed in accordance with the FM Global plan review letter dated November 11, 2009. There were no obvious installation deficiencies noted for the in-rack sprinkler system installation and it is considered satisfactory.

Best regards,

A handwritten signature in black ink, appearing to read "St. Tyler", written over a light blue horizontal line.

Steven A. Tyler
Senior Consultant Engineer
FM Global St. Louis Operations – Field Engineering
Steven.tyler@fmglobal.com

SAT/amd/2

cc: LE, FC, EJW, SAT
cc: FM Global Seattle Operations – Attention: Michael Malina, Account Engineer
cc: Mr. Russ Tharp
Bluestone Construction
russ.tharp@bluestoneconstruct.com
cc: Mr. Jim Knapp
Premier Fire Protection
Jim.knapp@premierfireprot.com

09 434143



Permit Application: BUILDING~FENCE~ SIGN

Building Division ~15151 E Alameda Pkwy ~ Aurora, CO 80012~ (303) 739-7420

Project Address: 1411 S. POTOMAC Unit # 300 Zip code: 80012
 Project Name/Subdivision: Cornerstone Family Practice
 Contractor: JACOBS FIRE PROTECTION Phone: 303-871-1190 Fax: 303-698-1389
 Contact Person: Jeff Smith Email: jsmith@jacobsfire.net
 Phone: _____ Fax: _____

Owner: (Required for CO) Cornerstone
 Owner address: 1411 S. POTOMAC Valuation / FDA: \$ \$650
 Email: _____

REQUIRED FOR PROJECTS USING AN ARCHITECT and/or ENGINEER:

Architect or Engineer Name: Keeney Design Email: _____
 Phone #: 303-871-1970 Fax #: _____

DESCRIBE THE WORK YOU WILL BE DOING: *

MODIFY EXISTING WET FIRE SPRINKLER SYSTEM PER NFPA 13 2002
FOR CORNERSTONE FAMILY PRACTICE - UNIT #300
3 Relocate - 2 Add

SIGN PERMIT: Sign type: Ground ☐ Wall ☐ Window ☐ Other ☐ Number of existing signs
 Monument sign? ☐ Y ☐ N Is height from grade more than 6': ☐ Y ☐ N Sign Features: Illuminated ☐ Y ☐ N
 New circuit? Y ☐ N ☐ Require separate electrical permit. If yes * see above. Number of faces on sign
 Total area all sides: _____ SF | Total SF existing signs: _____ Bldg/Tenant frontage: _____ ft
 Electrician: _____ (Required for any illuminated sign) Any existing waivers ☐ Y ☐ N If yes provide copy

FENCE PERMIT: Style/Type: * Describe work above ☐ Corner lot ☐ Interior lot Use Zone:
 Height _____ in. Greater than 50% open: ☐ Less than 50% open: ☐ Post size: ☐ x ☐ Post spacing: _____

NEW HOME CONSTRUCTION ONLY:

Model #: _____ Elevation: _____ Foundation Type: _____ Basement Type: _____ Unfinished: _____
 Number of Deck(s): _____ Covered: _____ Uncovered: _____ Size of Deck (s): _____ Concrete Patio(s): _____
 Covered: _____ Uncovered: _____ Size of Patio Cover: _____ GFA - Qty: _____ BTU's: _____ /
 Gas range/BBQ/oven/cook top: _____ BTU's Qty _____ AC/Cooler/CFM/Ton: _____ Fireplace(qty): _____
 BTU's: _____ / Misc: _____ Shower #: _____ Lavatory #: _____ Bathtub #: _____ Water Closet #: _____
 Water heater type: _____ BTU'S: _____ # _____ Electrical Svc AMP: _____ Other: _____

BOARD OF APPEALS - Contractor's Appeals and Standards Board. Applicants have the right to have the board hear appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of the building code. Any application for appeal to the board shall be based on a claim that the true intent of the code or the rules legally adopted there under have been incorrectly interpreted, the provisions of the building code do not fully apply or an equally good or better form of construction is proposed.

◆◆◆ THIS SPACE FOR OFFICE USE ONLY ◆◆◆

Fee Determination Assessment: \$ _____

Change of occupancy/use: Y ☐ N ☐

REVIEWS

- ☐ Sign
- ☐ Structural
- ☐ Mechanical
- ☐ Plumbing
- ☐ Electrical
- ☐ Life Safety

INSPECTIONS

- ☐ Structural
- ☐ Mechanical
- ☐ Plumbing
- ☐ Electrical
- ☒ Life Safety

Intake Date: _____

Water pre-approval: _____
 Zoning pre-approval: _____
 Parent Permit RSN: 512570
 Parent Plan Location _____
 Permit Type: Counter Jmp
 Sub Type: 4x Sprinkler
 Plans Examiner: Jmi
 Verify Homeowner: _____
 RSN: 517304
 Permit #: _____
 Balance Due: \$ _____

Sprinkler & Alarm permits must be brought in as separate submittals. "FDA" is NOT included in main permit.

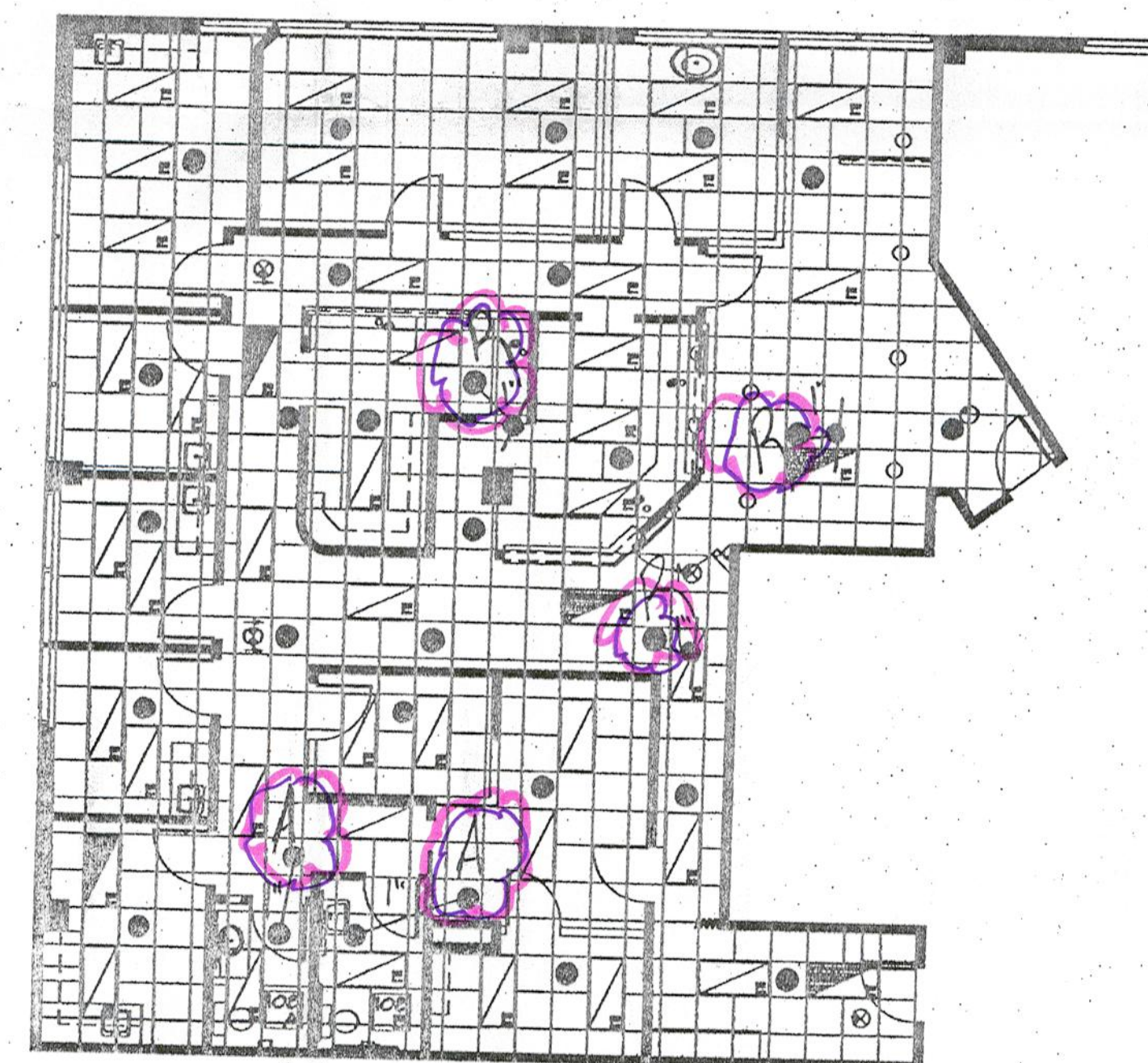
Jeff Smith
 Print Name:

Signature: _____

1-22-2010
 Date:

2006 International Fire Code (IFC)
2006 International Building Code (IBC)
2002 National Fire Protection Association (NFPA) Standard 13/13D/13R
2003 National Fire Protection Association (NFPA) Standard 14

- This project consists of a 3 story building, constructed of JI and used as Dr. Office (per 2006 IBC, Chapter 5).
- Type of construction II.
- Building occupancy classification per the 2006 IBC B.
- System #1 is a wet system designed to the 2002 NFPA 13 edition.
- All branch line pipe to be Sched 40.
- All fittings 3/4" through 2" to be thread type fittings.
- All fittings 2-1/2" & larger to be victaulic grooved type fittings.
- All hangers to be in accordance with 2002 NFPA 13 edition.
- All material to meet 2002 NFPA 13 edition.
- All underground pipe to be tested and flushed prior to connecting the overhead piping system.
- Maximum square footage per head is 196 sq. ft.
- Sprinkler heads are not to be located in the center of ceiling tile or aligned with light/ceiling fixtures.
- Sprinkler contractor to begin work at 7 am.
- The authority having jurisdiction is the Aurora Building Codes Division/Life Safety.
- Scope of work is in accordance with 2002 NFPA 13 edition.
- Owner is responsible for providing heat, above 40 degrees Fahrenheit, adequate enough to prevent freezing of the sprinkler piping.
- All valves controlling the water supply to 20 or more sprinkler heads must be supervised. At the time of final inspection, fire safety systems must be supervised by an approved UL-Listed monitoring agency.
- The contractor (or designee) must provide all necessary testing equipment and perform all testing required by the life safety inspector.
- All new or existing fire alarm systems must be interconnected with the flow switch of the fire sprinkler systems outside horn and strobe.
- Installation of interior alarms activated by the fire sprinkler water flow will be required per 2006 IFC, 903.4.2. Approved audible devices shall be connected to every automatic fire sprinkler system.
- Important: In the event that a concealed space is not shown on the plan submittal and is discovered in the field, the installing contractor must comply with 2002 NFPA 13, section 8.14.1.
- All water supply valves and water flow switches shall be electrically supervised, IFC 2006, 903.0.
- Electrical exterior horn and strobe shall be listed for outdoor use, IFC 903.4.2. Outside horn and strobe will activate upon both general alarm and flow switch activation. When fire alarm panel is silenced, the interior and exterior strobes will continue until fire alarm panel is reset.
- All control valve(s) within the riser room must be accessible, 2002 NFPA Section 8.15.1.1.7.
- Pressure gauges are required on the system side of the main valve and on the supply side of the backflow preventer.
- Both new and existing fire sprinkler systems must be equipped with approved Knox caps.
- The fire department connection must be located not less than 18" and not more than 4' - 0" above the level of the adjacent grade or access level. 2003 NFPA 24, section A.5.9.
- Knox caps will be required on all existing fire department connections.



☁ = Scope

RSN 517364
OK for Counter JMP
CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 1/22/10
NFPA 13(102)

10-449924

3RD Floor Fire Protection
1/8" = 1'-0" +/- 2,485 SQ.FT.

LEGEND

- PENDENT SPRINKLER.
 - 1. ● SPRINKLER TO REMAIN.
 - 2. ● SPRINKLER TO BE RELOCATED.
 - 3. ● SPRINKLER TO BE PLUGGED.
 - 4. ● R RELOCATED SPRINKLER.
 - 5. ● A ADDED SPRINKLER.
- * ALL PIPE USED FOR RELOCATES AND ADDS SHALL BE 1".
* SPRINKLERS - TYCO RFI - STANDARD RESPONSE - 8.0K - 1/4" 155"

- **Notes:
1. Pipe used will be Schedule 40, 1" ID - 1.049"
 2. Pipe fittings to be Star cast.
 3. The fire sprinkler system will not be out of service for more than 8 hours in a 24 hour period.
 4. No more than 2 heads to be taken off of 1" outlet.

NATIONAL INSTITUTE FOR CERTIFICATION
IN ENGINEERING TECHNOLOGIES

LeRoy F. Jacobs

SENIOR ENGINEERING TECHNICIAN
LEVEL 4
CERTIFICATION NUMBER 065125

By: [Signature]
Date: 1/22/10

JACOBS FIRE PROTECTION, INC.

STATE REGISTRY : #002
1169 S. HURON STREET DENVER, COLORADO 80223
303-698-1190 303-698-1389 (FAX)

CORNERSTONE FAMILY PRACTICE

141 SOUTH POTOMAC STREET
3RD FLOOR - SUITE 300
AURORA, COLORADO
FPI OF I

10-6482 1/8"=1'-0" 1/21/2010 JDS
RELOCATE =3, ADDS =2, PLUGS =0
PER NFPA 13 - 2007 EDITION

Series RFII — 5.6 K-factor "Royal Flush II" Pendent Concealed Sprinklers Quick & Standard Response, Standard Coverage

General Description

The Series RFII Quick Response (3 mm bulb) & Standard Response (5 mm bulb), 5.6 K-Factor, "Royal Flush II" Concealed Pendent Sprinklers are decorative sprinklers featuring a flat cover plate designed to conceal the sprinkler. It is the best choice for architecturally sensitive areas such as hotel lobbies, office buildings, churches, and restaurants.

Each unit includes a Cover Plate Assembly that conceals the sprinkler operating components above the ceiling. The separable two-piece design of the Cover Plate and Support Cup Assemblies allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling. They also permit removal of suspended ceiling panels for access to building service equipment without having to first shut down the fire protection system and remove sprinklers. Also, the separable two-piece design of the the Sprinkler provides for 1/2 inch (12,7 mm) of vertical adjustment, to reduce the accuracy to which the length of fixed pipe drops to the sprinklers must be cut.

The Series RFII Sprinklers are shipped with a Disposable Protective

Cap. The Protective Cap is temporarily removed for installation, and then it can be replaced to help protect the sprinkler while the ceiling is being installed or finished. The tip of the Protective Cap can also be used to mark the center of the ceiling hole into plaster board, ceiling tiles, etc. by gently pushing the ceiling product against the Protective Cap. When the ceiling installation is complete the Protective Cap is removed and the Cover Plate Assembly installed.

As an option, the Series RFII Standard Response (5 mm bulb) "Royal Flush II" Concealed Pendent Sprinklers may be fitted with a silicone Air and Dust Seal (Ref. Fig. 5). The Air and Dust Seal is intended for sensitive areas where it is desirable to stop air and dust travel through the cover plate from the area above the ceiling.

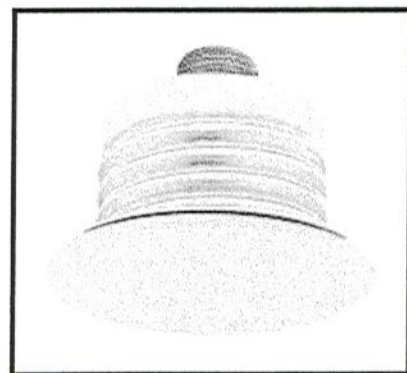
WARNINGS

The Series RFII Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Model/Sprinkler Identification Numbers

TY3551 (5mm bulb) & **TY3531** (3 mm bulb): maximum 175 psi (12,1 bar) by UL, C-UL, FM, LPCB and NYC.
TY3504 (5 mm bulb) & **TY3505** (3 mm bulb): maximum 250 psi (17,3 bar) by



UL, C-UL, and NYC. Maximum 175 psi (12,1 bar) by FM.

Technical Data

Approvals for Series RFII

UL and C-UL Listed. FM Approved. NYC under MEA 353-01-E. LPCB (Ref. No. 094a/09 for TY3551 & 094a/10 for TY3531) Approved.

The approvals apply only to the service conditions indicated in the Design Criteria section and maximum pressure ratings indicated in the Model/Sprinkler Identification Numbers section.

Approvals for Air & Dust Seal (Part #10908100)

UL and C-UL Listed for use with the RFII (TY3551 & TY3504) Standard Response Concealed Sprinkler.

Temperature Ratings

155F/68C Sprinkler - 135F/57C Plate
200F/93C Sprinkler - 165F/74C Plate

Discharge Coefficient

K = 5.6 GPM/psi^{1/2} (80,6 LPM/bar^{1/2})

Adjustment

1/2 inch (12,7 mm)

Finishes

Cover Plate: Chrome Plated, Brass Plated, or White Painted (Custom paint matches and colors other than white are available on request.)

Physical Characteristics

Frame Bronze
Support Cup Chrome Plated Steel
Guide Pins Stainless Steel
Deflector Bronze
Compression Screw Brass
Bulb Glass
Cap Bronze or Copper
Sealing Assembly Beryllium Nickel w/Teflon*
Cover Plate Brass
Retainer Brass
Ejection Spring Stainless Steel

Patents

U.S.A. 4,014,388

Operation

When exposed to heat from a fire, the Cover Plate, which is normally soldered to the Retainer at three points, falls away to expose the Sprinkler Assembly. At this point the Deflector supported by the Guide Pins drops down to its operational position.

The glass Bulb contains a fluid that expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass Bulb, activating the sprinkler and allowing water to flow.

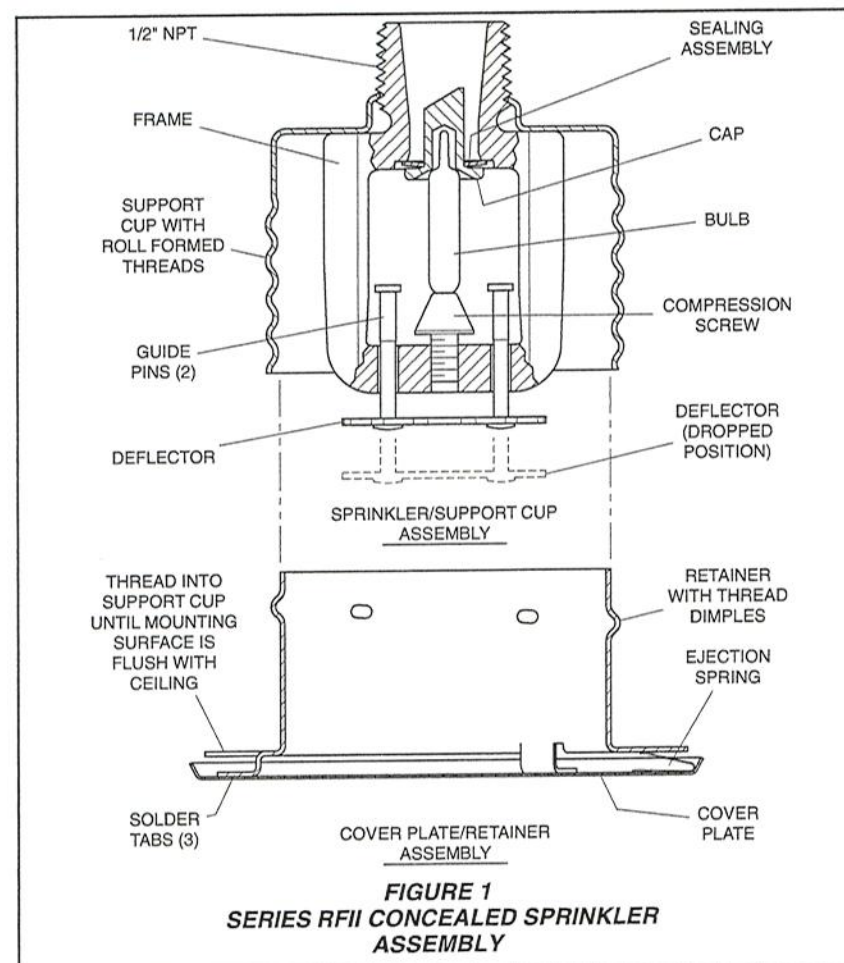
Design Criteria

The RFII (TY3551 & TY3504), 5 mm Bulb Type, Concealed Pendent Sprinklers are UL and C-UL Listed as standard response - standard spray sprinklers for use in accordance with the current NFPA standard. They are FM Approved as standard response - standard spray sprinklers for use in accordance with the current FM Loss Prevention Data Sheets.

The RFII (TY3531 & TY3505) 3 mm Bulb Type, Concealed Pendent Sprinklers are UL and C-UL Listed as quick response - standard spray sprinklers for use in accordance with the current NFPA standard. They are FM Approved as standard response - standard spray sprinklers for use in accordance with the current FM Loss Prevention Data Sheets.

The Series RFII Concealed Pendent Sprinklers are only listed and approved with the Series RFII Concealed Cover Plates having a metallic or white painted finish.

The Series RFII must not be used in applications where the air pressure above the ceiling is greater than that below. Down drafts through the Support Cup could delay sprinkler operation in a fire situation.



Installation

The Series RFII must be installed in accordance with the following instructions:

NOTES

Do not install any bulb type sprinkler if the bulb is cracked or there is a loss of liquid from the bulb. With the sprinkler held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1/16 inch (1,6 mm) for the 155°F/68°C and 3/32 inch (2,4 mm) for the 200°F/93°C temperature ratings.

A leak tight 1/2 inch NPT sprinkler joint should be obtained with a torque of 7 to 14 ft.lbs. (9,5 to 19,0 Nm). A maximum of 21 ft.lbs. (28,5 Nm) of torque is to be used to install sprinklers. Higher levels of torque may distort the sprinkler inlet with consequent leakage or impairment of the sprinkler.

Do not attempt to compensate for insufficient adjustment in the Sprinkler Assembly by under- or over-tightening the Sprinkler/Support Cup Assembly. Readjust the position of the sprinkler fitting to suit.

Step 1. The sprinkler must only be installed in the pendent position and with the centerline of the sprinkler perpendicular to the mounting surface.

Step 2. Remove the Protective Cap.

Step 3. With pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting.

Step 4. Wrench tighten the sprinkler using only the RFII Sprinkler Wrench (Ref. Figure 3). The RFII Sprinkler Wrench is to be applied to the Sprinkler as shown in Figure 3.

Step 5. Replace the Protective Cap (Ref. Figure 4) by pushing it upwards until it bottoms out against the Support Cup. The Protective Cap helps prevent damage to the Deflector and Arms during ceiling installation and/or during application of the finish coating of the ceiling. It may also be used to locate the center of the clearance hole by gently pushing the ceiling material up against the center point of the Protective Cap.

NOTE

As long as the Protective Cap remains in place, the system is considered to be "Out of Service".

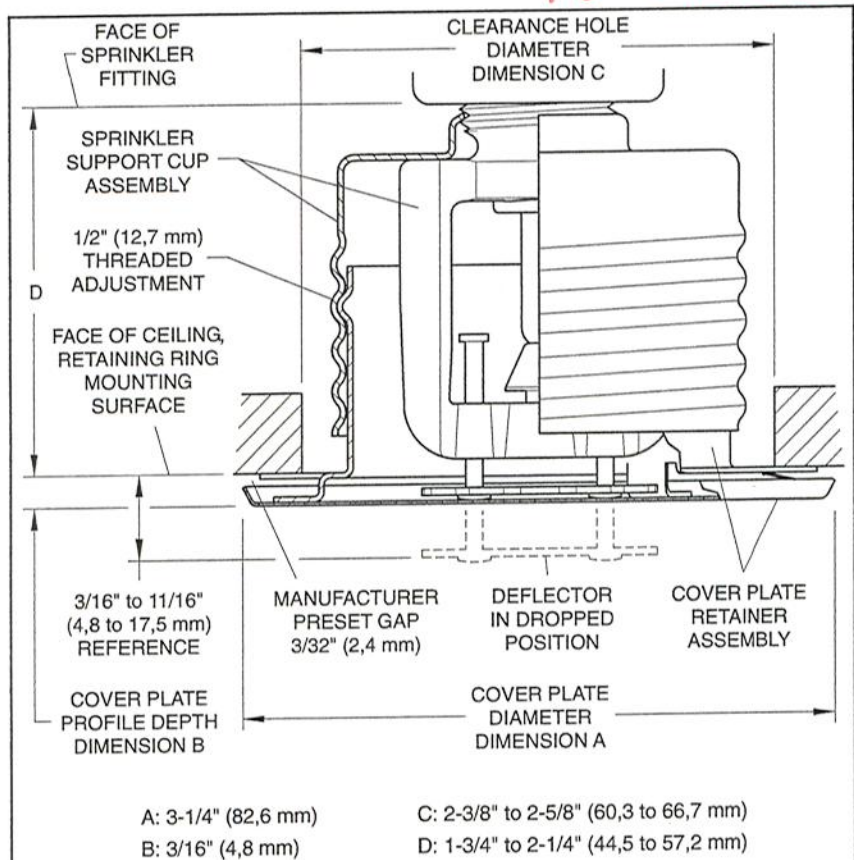


FIGURE 2
SERIES RFII CONCEALED SPRINKLER
INSTALLATION DIMENSIONS

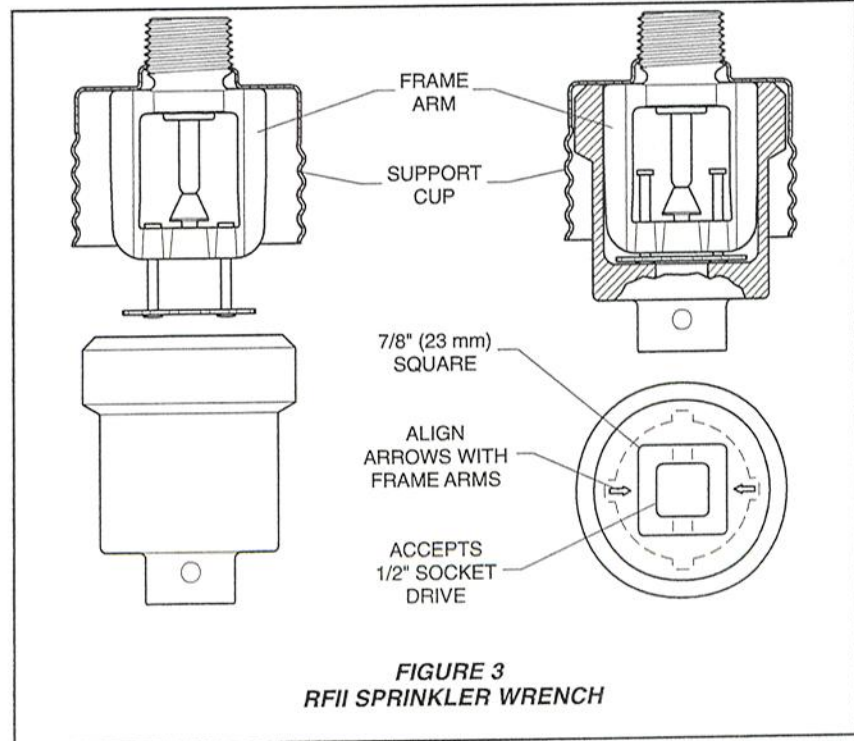
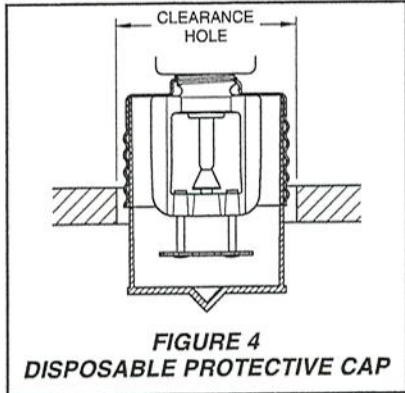


FIGURE 3
RFII SPRINKLER WRENCH



Step 6. After the ceiling has been completed with the 2-1/2 inch (63,5 mm) diameter clearance hole and in preparation for installing the Cover Plate Assembly, remove and discard the Protective Cap, and verify that the Deflector moves up and down freely. If the Sprinkler has been damaged and the Deflector does not move up and down freely, replace the entire Sprinkler assembly. Do not attempt to modify or repair a damaged sprinkler.

Step 7. When installing an Air and Dust Seal, refer to Figure 5, otherwise proceed to Step 8. To attach the Air and Dust Seal, verify the angle of the outside edge of the seal is oriented according to Figure 5. Start the edge of the Retainer in the grooved slot of the Air and Dust Seal and continue around the retainer until the entire Air and Dust Seal is engaged.

NOTE
The Air and Dust Seal is only to be installed on the periphery of the Retainer.

Step 8. Screw on the Cover Plate/Retainer Assembly until the Retainer - Figure 2 (or Air and Dust Seal - Figure 5) contacts with the ceiling. Do not continue to screw on the Cover Plate/Retainer Assembly such that it lifts a ceiling panel out of its normal position. If the Cover Plate/Retainer Assembly cannot be engaged with the Support Cup or the Cover Plate/Retainer Assembly cannot be engaged sufficiently to contact the ceiling, the Sprinkler Fitting must be repositioned.

Care and Maintenance

The Series RFII must be maintained and serviced in accordance with the following instructions:

NOTES
Absence of the Cover Plate Assembly may delay sprinkler operation in a fire situation.

When properly installed, there is a nominal 3/32 inch (2,4 mm) air gap between the lip of the Cover Plate and the ceiling, as shown in Figure 2. This air gap is necessary for proper operation of the sprinkler. If the ceiling is to be repainted after the installation of the Sprinkler, care must be exercised to ensure that the new paint does NOT seal off any of the air gap.

Factory painted Cover Plates MUST NOT be repainted. They should be replaced, if necessary, by factory painted units.

Do not pull the Cover Plate relative to the Enclosure. Separation may result.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, permission to shut down the affected fire protection system must be obtained from the proper authorities and all personnel who may be affected by this action must be notified.

Sprinklers that are found to be leaking or exhibiting visible signs of corrosion must be replaced.

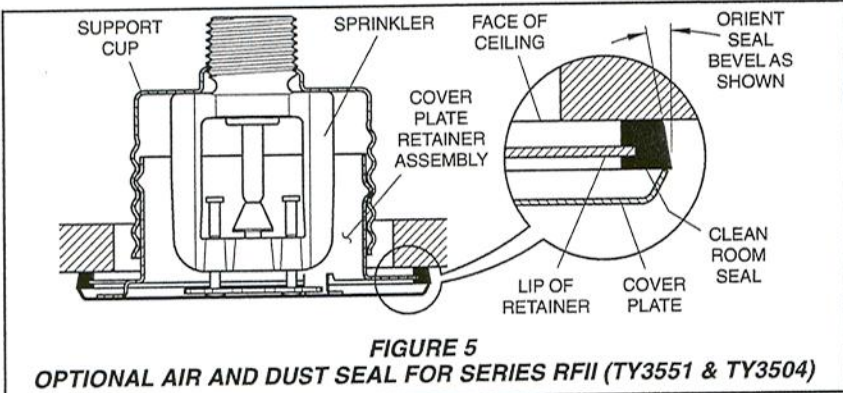
Automatic sprinklers must never be painted, plated, coated or otherwise altered after leaving the factory. Modified sprinklers must be replaced. Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers - before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Ref. Installation Section).

If a sprinkler must be removed, do not reinstall it or a replacement without reinstalling the Cover Plate Assembly. If a Cover Plate Assembly becomes dislodged during service, replace it immediately.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. The installing contractor or sprinkler manufacturer should be contacted relative to any questions.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified



Inspection Service in accordance with local requirements and/or national codes.

Limited Warranty

Products manufactured by Tyco Fire Products are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by Tyco Fire Products. No warranty is given for products or components manufactured by companies not affiliated by ownership with Tyco Fire Products or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by Tyco Fire Products to be defective shall be either repaired or replaced, at Tyco Fire Products' sole option. Tyco Fire Products neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. Tyco Fire Products shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

IN NO EVENT SHALL TYCO FIRE PRODUCTS BE LIABLE, IN CONTRACT, TORT, STRICT LIABILITY OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR CHARGES, REGARDLESS OF WHETHER TYCO FIRE PRODUCTS WAS INFORMED ABOUT THE POSSIBILITY OF SUCH

DAMAGES, AND IN NO EVENT SHALL TYCO FIRE PRODUCTS' LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE.

THE FOREGOING WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Ordering Procedure

When placing an order, indicate the full product name. Contact your local distributor for availability.

Sprinkler Assembly:
Specify: (SIN), (specify temperature rating) Series RFII Concealed Pendant Sprinkler, P/N (specify).

	155F/68C	200F/93C
TY3551	51-790-1-155	51-790-1-200
TY3504	51-796-1-155	51-796-1-200
TY3531	51-792-1-155	51-792-1-200
TY3505	51-797-1-155	51-797-1-200

Separately Ordered Cover Plate:
Specify: (specify temperature rating) Series RFII Concealed Cover Plate with (specify finish), P/N (specify).

	135F/57C(a)	165F/74C(b)
Brass	56-792-1-135	56-792-1-165
Bright Brass	56-792-2-135	56-792-2-165
Chrome	56-792-9-135	56-792-9-165
Brushed Chrome	56-792-8-135	56-792-8-165
White	56-792-0-135	56-792-0-165
White (RAL9010)*	56-792-3-135	56-792-3-165
Bright White	56-792-4-135	56-792-4-165
Off White	56-792-5-135	56-792-5-165
Black	56-792-6-135	56-792-6-165
Custom	56-792-X-135	56-792-X-165

(a) For use with 155F/68C sprinklers.
(b) For use with 200F/93C sprinklers.
* Eastern Hemisphere sales only.

Sprinkler Wrench:
Specify: RFII Sprinkler Wrench, P/N 56-000-1-075.

Air and Dust Seal:
Specify: Air and Dust Seal, P/N 56-908-1-001.