Technical Data Sheet: Sprinkler Escutcheons

1. DESCRIPTION

Minimax Fire Protection sprinkler escutcheons are ornamental plates used with ½" NPT (15 mm BSP)*, and ¾" NPT (20 mm BSP)* pendent sprinklers. The escutcheons are installed between the sprinklers and the ceiling for a pleasing appearance. They are available with several finish options to meet design requirements.

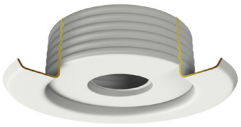
Minimax Fire Protection recessed and adjustable escutcheons provide a low-profile decorative recessed sprinkler installation. The M-7 Recessed Escutcheon may be recessed up to 5/8" (16 mm). The two-piece design of Minimax Fire Protection's recessed and adjustable escutcheons allows installation and testing of the sprinklers prior to installing the ceiling or wall. Minimax Fire Protection's Model M-7 Escutcheons feature a slip-on design, while the Model M-8 and M-9 escutcheons are threaded (outer cup threads onto the adapter).

The Minimax Fire Protection adjustable and recessed escutcheons are made to allow for minor adjustments due to pipe or ceiling pitch. These escutcheons can be removed and reinstalled, allowing access above removable ceiling panels for servicing building equipment without shutting down the sprinkler system and removing the sprinkler.

Minimax Fire Protection standard 1/8" (3 mm) style flat escutcheons have a one-piece design.

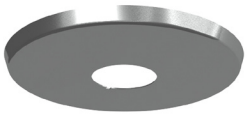
*Refer to the specific sprinkler technical data page for the escutcheon(s) listed and approved for use with the sprinkler.

M-7 Escutcheon



M-8 Escutcheon

M-9 Escutcheon



Flat Surface Mount Escutcheon

WARNING: Cancer and Reproductive Harm- www.P65Warnings.ca.gov

2. LISTINGS AND APPROVALS

Refer to the specific sprinkler technical data pages for sprinkler listings and approvals. Sprinklers must be specifically listed and/or approved for recessed installation. When using Minimax Fire Protection Model M-7, M-8, and M-9 escutcheons for recessed applications, refer to technical data describing the sprinkler model to be used to verify whether the sprinkler is listed and/or approved for recessed installations. NOTE: Minimax Fire Protection's thread-on style Model M-8 and M-9 Recessed Escutcheons carry the same listings and approvals as the slip-on style Model M-7 Recessed Escutcheons. Model M-9 Recessed Escutcheon also meets IBC-ASCE/SEI 7 Codes for Seismic Areas C, D, and E.

3. TECHNICAL DATA

Specifications:

A. Slip-on Style Model M-7 Recessed Escutcheons
Depth of Outer Cup: 1-1/16" (27 mm)
Outside Diameter of Outer Cup: 3-1/16" (78 mm)
Depth of Center Adapter Ring: 11/32" (9 mm) +/- 1/32" (1 mm)
Adjustment Range: Flush to 5/8" (16 mm) recessed
NOTE: Escutcheon adapter is stamped "Model M-7".

B. Threaded Style Model M-8 Recessed Escutcheons
Depth of Outer Cup: 13/16" (21 mm)
Outside Diameter of Outer Cup: 3-1/8" (80 mm)
Depth of Center Adapter Ring: 21/32" (17 mm)
Adjustment Range: 27/32" (21 mm) total adjustment with ½" (13 mm) maximum recess available.
NOTE: Face of escutcheon adapter may extend up to 11/32" (9 mm) beyond edge of escutcheon cup.

C. Threaded Style Model M-9 Recessed Escutcheons
Depth of Outer Cup: 13/16" (21 mm)
Outside Diameter of Outer Cup: 5-1/8" (130 mm). (See Figure 4)
Depth of Center Adapter Ring: 21/32" (17 mm)
Adjustment Range: 27/32" (22 mm) total adjustment with ½" (13 mm) maximum recess available.
NOTE: Face of escutcheon adapter may extend up to 11/32" (9 mm) beyond edge of escutcheon cup.

D. Standard Flat Surface-Mounted Escutcheons
Depth of Escutcheons: Flat: 1/8" (3 mm)

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Material Standards:

A. Slip-on Style Model M-7 Recessed Escutcheons: Cold Rolled Steel UNS-G10080 or Stainless Steel UNS-S30400

B. Threaded Style Model M-8 and M-9 Recessed Escutcheons: 24 ga. (1 mm) thick 1010-1018 mild steel

C. Standard Flat Surface-Mounted Escutcheons: Cold Rolled Steel UNS-G10080.

4. INSTALLATION

A. If the proposed installation of Model M-7, M-8, or M-9 Escutcheons requires recessing any of the heat-sensitive operating element, some Authorities Having Jurisdiction may limit the use, depending on the occupancy classification. Refer to the Authority Having Jurisdiction prior to installation. The use of quick response sprinklers may also be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.

B. All escutcheon styles are made to thread onto the sprinkler head prior to installing the sprinkler into the fitting. The escutcheon must be attached to the sprinkler prior to applying pipe-joint compound or PTFE tape to the sprinkler threads. NOTE: Sprinklers with protective caps or bulb shields must be contained within the caps or shields before applying pipe-joint compound or tape.

C. Refer to the appropriate sprinkler technical data page for additional warnings and installation instructions and then install the escutcheons according to the following sequence.

D. Model M-7, M-8, and M-9 Recessed Escutcheons: (Refer to Figures 1-2.)

1. Install all piping and cut the sprinkler nipple so that the reducing coupling is at the desired location and centered in a minimum 2-5/16” (59 mm) to a maximum 2-1/2” (64 mm) diameter opening in the ceiling or wall for Model M-7 or M-8 Escutcheons, or 2-5/16” (59 mm) to 4-1/2” (115mm) for Model M-9.
2. Secure the escutcheon adapter onto the sprinkler by hand turning the adapter clockwise onto the sprinkler threads. The face of the adapter should rest on the shoulder of the sprinkler wrench boss.
3. Apply a small amount of pipe-joint compound or PTFE tape to the external threads of the sprinkler only, taking care not to allow a build-up of compound in the sprinkler inlet. **NOTE**: Sprinklers with protective caps or bulb shields must be contained within the caps or shields before applying pipe-joint compound or tape.
4. Install the sprinkler into the coupling using the special recessed sprinkler wrench only, taking care not to over-tighten or damage the sprinkler operating parts. DO NOT use the escutcheon, sprinkler deflector, or fusible element to start or thread the sprinkler into a fitting.
5. Test the system as required and repair all leaks. If a thread leak occurs, normally the unit must be removed, new pipe-joint compound or PTFE tape applied, and then reinstalled. This is due to the fact that when the joint seal leaks, the sealing compound or tape is washed out of the joint.
6. **Remove plastic protective sprinkler caps and bulb shields AFTER the wall or ceiling finish work is completed where the sprinkler is installed and there no longer is a potential for mechanical damage to the sprinkler operating elements.** To remove the bulb shields, simply pull the ends of the shields apart where they are snapped together. To remove caps from frame style sprinklers, turn the caps slightly and pull them off the sprinklers. **SPRINKLER CAPS AND BULB SHIELDS MUST BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE!** Retain a protective cap in the spare sprinkler cabinet.
7. After installing the ceiling or wall with the required opening size, press on or thread on (depends on the style of escutcheon used) the outer escutcheon cup until the flanges touch the surface of the ceiling or wall.
   NOTE: If the optional escutcheon expansion plate is used, first slide it onto the escutcheon cup. The flange on the expansion plate should touch the surface of the ceiling or wall.)
   NOTE: DO NOT modify the unit. If necessary, re-cut the sprinkler drop nipple as required.

E. Standard Flat Surface-Mounted Escutcheons:

1. Install all piping and cut the sprinkler nipple so that the reducing coupling is at the desired location and centered in a maximum 2-1/2” (64 mm) diameter opening in the ceiling or wall.
2. Secure the escutcheon onto the sprinkler by hand turning the escutcheon clockwise onto the sprinkler threads. (The convex surface of the escutcheon must face toward the deflector of the sprinkler.)
3. Apply a small amount of pipe-joint compound or PTFE tape to the external threads of the sprinkler only, taking care not to allow a build-up of compound in the sprinkler inlet. **NOTE**: Sprinklers with protective caps or bulb shields must be contained within the caps or shields before applying pipe-joint compound or tape.
4. Install the sprinkler into the coupling using the special sprinkler wrench only, taking care not to over-tighten or damage the sprinkler operating parts. DO NOT use the escutcheon, sprinkler deflector, or fusible element to start or thread the sprinkler into a fitting.
5. After installation, the entire sprinkler system must be tested. The test must be conducted to comply with the installation standards. Make sure the sprinkler is properly tightened. If a thread leak occurs, normally the unit must be removed, new pipe-joint compound or tape applied, and then reinstalled. This is due to the fact that when the joint seal leaks, the sealing compound or tape is washed out of the joint.
6. **Remove plastic protective sprinkler caps and bulb shields AFTER the wall or ceiling finish work is completed where the sprinkler is installed and there no longer is a potential for mechanical damage to the sprinkler operating elements.** To remove the bulb shields, simply pull the ends of the shields apart where they are snapped together. To remove caps from frame style sprinklers, turn the caps slightly and pull them off the sprinklers. **SPRINKLER CAPS AND BULB SHIELDS MUST BE REMOVED FROM SPRINKLERS BEFORE PLACING THE SYSTEM IN SERVICE!** Retain a protective cap in the spare sprinkler cabinet.
   NOTE: DO NOT modify the unit. If necessary, re-cut the sprinkler drop nipple as required.

F. Disassembly:

The outer cups of Minimax Fire Protection adjustable and recessed escutcheons can be removed and reinstalled without removing the sprinklers to allow access above the ceiling or to replace it, if necessary.

1. For slip-on style Model M-7 Recessed Escutcheons, remove the outer cup simply by pulling it outward and away from the wall or ceiling.
2. To remove the outer cup of the threaded style Model M-8 and M-9 Recessed Escutcheons, turn it counterclockwise to unthread it from the adapter.

If it is necessary to remove the entire unit, the system must be removed from service. Refer to maintenance instructions on the appropriate sprinkler technical data page and follow all warnings and instructions**.**

5. OPERATION

Refer to the applicable sprinkler's technical data page.

6. INSPECTIONS, TESTS, AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

Minimax Fire Protecion sprinklers and escutcheons are available through a network of domestic and international distributors. See The Minimax Fire Protection web site for the closest distributor or contact Minimax Fire Protection.

8. GUARANTEE

For details of warranty, refer to the current list price schedule or contact us directly.

⚠WARNING

Minimax Fire Protection products are manufactured and tested to meet the rigid requirements of the approving agency. The sprinklers are designed to be installed in accordance with recognized installation standards. Deviation from the standards or any alteration to the sprinkler after it leaves the factory including, but not limited to: painting , plating, coating, or modification, may render the sprinkler inoperative and will nullify the approval and any guarantee made by The Minimax Fire Protection Corporation.

IMPORTANT

Always refer to Bulletin Form No. FX_091699 - Care and Handling of Sprinklers. Also refer to the appropriate sprinkler data page. Minimax Fire Protection sprinklers are designed to be installed in accordance with the latest edition of Minimax Fire Protection technical data, the latest standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable. The use of certain types of sprinklers may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.

Per the current edition of NFPA 13: "Escutcheons used with recessed, flush-type, or concealed sprinklers shall be part of a listed sprinkler assembly." The Minimax Fire Protection Corporation will not authorize the sale of unlisted recessed sprinkler assemblies nor assume any liability involving recessed sprinkler assemblies that are not considered cULus Listed, FM Approved, or in full compliance with NFPA requirements".

Listings and approvals vary, depending on the sprinkler model, temperature rating, finish, and occupancy classification.

TABLE 1: ORDERING INFORMATION					
Base Part Number	**Material**	**Style**	**Sprinkler Thread Size**	**Available Finishes**	**Outside Diameter**
Standard Flat and Raised Surface-Mounted Escutcheons					
61391	Steel	Flat	1/2” (15 mm)	B, F	3-5/16” (84 mm)
61392	Steel	Flat	3/4” (20 mm)	F	3-5/16” (84 mm)
61393	Steel	Flat	1/2” (15 mm)	B, F, M/W, M/B	2-3/4” (70 mm)
61394	Steel	Flat	3/4” (20 mm)	B, F, M/W	2-3/4” (70 mm)
M-7 Slip-on Style Recessed Escutcheon Packages (includes adapter and outer cup)					
61906	Steel	Recessed Slip-on	1/2” (15 mm)	B, F, M/W, M/B	3-1/16” (78 mm)
61907	Stainless Steel	Recessed Slip-on	1/2” (15 mm)	F, M/W, JN	3-1/16” (78 mm)
61908	Steel	Recessed Slip-on	3/4” (20 mm)	B, F, M/W, M/B	3-1/16” (78 mm)
61909	Stainless Steel	Recessed Slip-on	3/4” (20 mm)	F, M/W, JN	3-1/16” (78 mm)
M-8 Threaded Style Recessed Escutcheon Packages (includes adapter and outer cup)					
61910	Steel	Recessed Threaded	1/2” (15 mm)	F, M/W	3-1/8” (79 mm)
61911	Steel	Recessed Threaded	3/4” (20 mm)	F, M/W	3-1/8” (79 mm)
M-9 Threaded Style Recessed Escutcheon Packages (includes adapter and outer cup)					
61912	Steel	Recessed Threaded	1/2” (15 mm)	F, M/W	5 -1/8” (130mm)
61913	Steel	Recessed Threaded	3/4” (20 mm)	F, M/W	5 -1/8” (130mm)
[1] Also available in Brass (non-magnetic material). Contact the manufacturer for more details.					

Escutcheon Finishes

Other Colors are availble on request with the same listings and approvals as the standard colors.
See Sherwin-Williams® Color Answers™ Interior Color Selection color chart.

B	F	M/W	M/B	JN
Bright Brass	Polished Chrome	White Polyester	Black Polyester	Electroless Nickel PTFE (ENT)
B/A	B/B	F/B	E/B	
Antique Brass	Brushed Brass	Brushed Chrome	Brushed Copper	

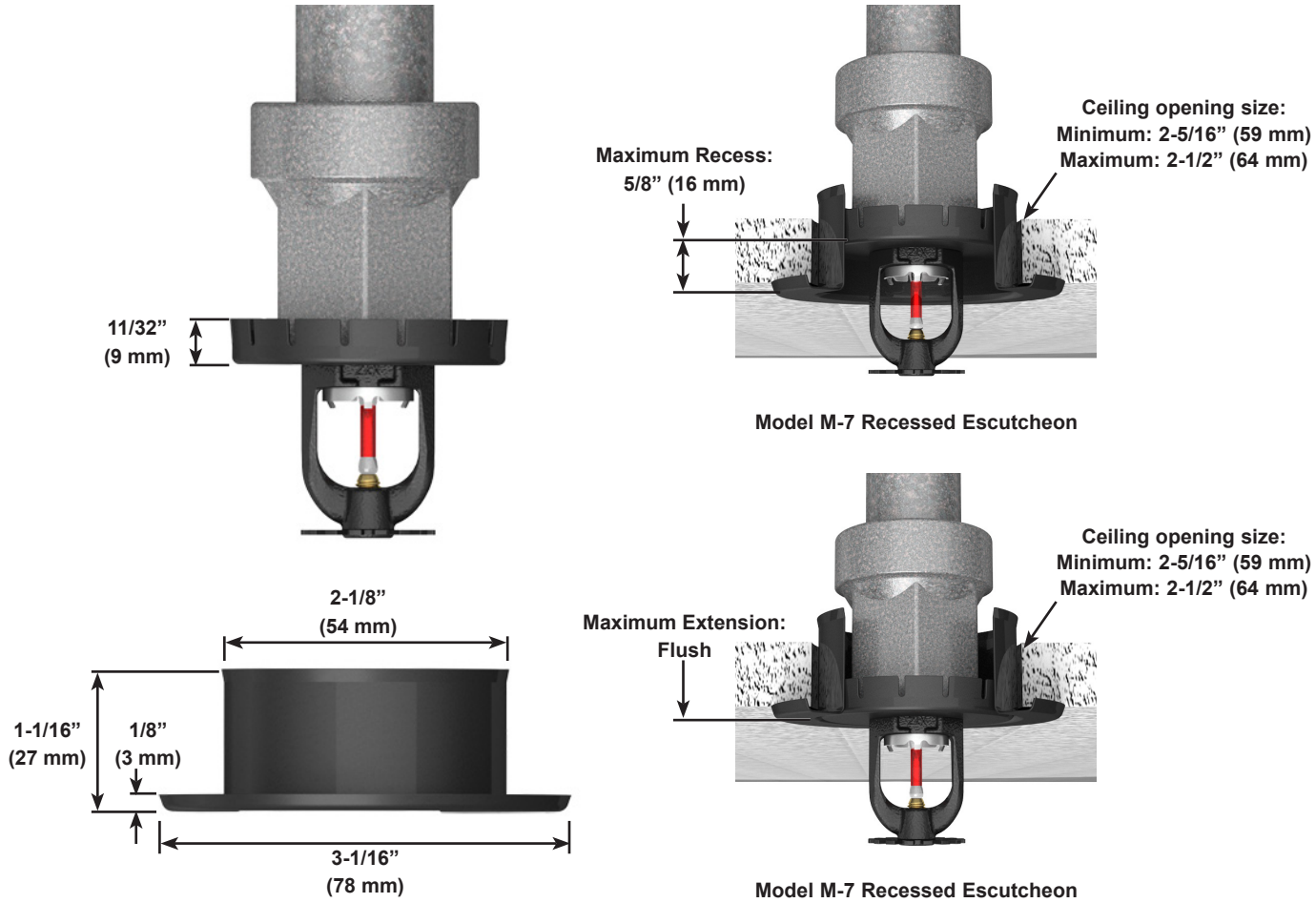

Figure 1: M-7 Escutcheon Dimensions and Limits

Model M-9 Recessed Escutcheon meets IBC-ASCE/SEI 7 Codes for Seismic Areas C, D, and E

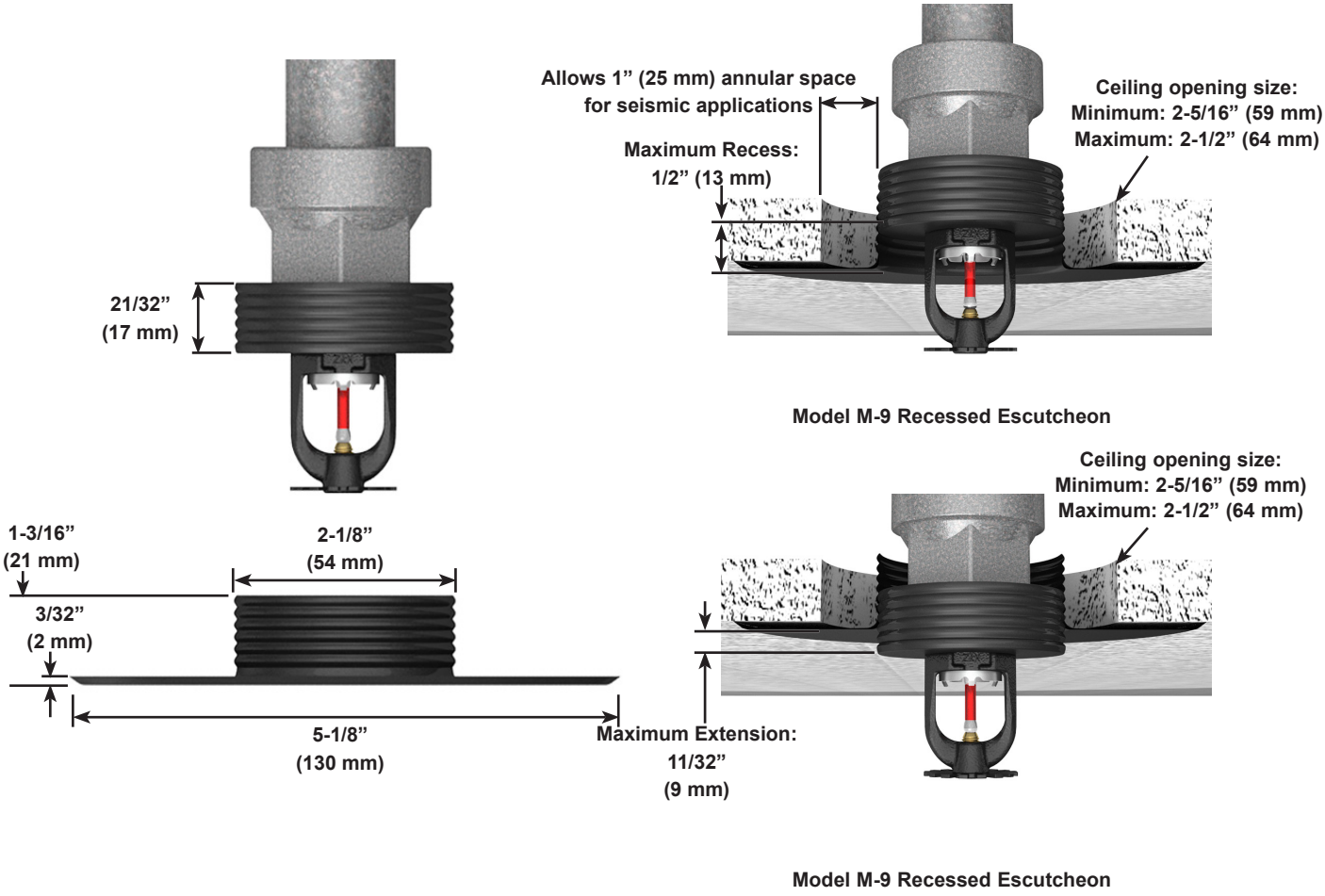

Figure 2: M-9 Escutcheon Dimensions and Limits

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