



Residential Sprinkler Wall Wetting Patterns

The wall wetting patterns presented in this bulletin illustrate the general wall areas wetted by Reliable residential sprinklers under the test conditions. Tests were conducted under a smooth, flat, horizontal ceiling without obstructions or vents. Variations from the test conditions may impact the wall wetting pattern produced by the sprinkler. The graphs provide an estimate of the wall wetting pattern produced during the test and are not a guarantee of performance under specific installation conditions. Reliable residential sprinklers are listed for compliance with UL 1626, which includes requirements for wall wetting under prescribed test conditions.

Reliable residential sprinklers are listed for installation in accordance with NFPA 13, NFPA 13R, or NFPA 13D. In addition, national or local codes and standards may include additional requirements for sprinkler system installation. Wall wetting patterns are provided for information only and do not modify requirements to comply with all applicable codes and standards, including NFPA 13, NFPA 13R, and NFPA 13D.

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- 11-1 18 ftx20 ft, 20 ftx20 ft coverage area (4-6" deflector to ceiling distance)
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- 11-4 16 ftx24 ft, 14 ftx26 ft coverage area (6-12" deflector to ceiling distance)

12. RFC 30 Flat Concealed Pendent

- 12-1 12 ftx12 ft, 14 ftx14 ft coverage area

13. RFC 43 Flat Concealed Pendent

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- 13-2 16 ftx16 ft, 18 ftx18 ft, 20 ftx20 ft coverage area

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- 14-2 16 ftx16 ft, 18 ftx18 ft, 20 ftx20 ft coverage area

15. RFC 56 Flat Concealed Pendent

- 15-1 16 ftx16 ft coverage area

16. RFS 42 Flat HSW

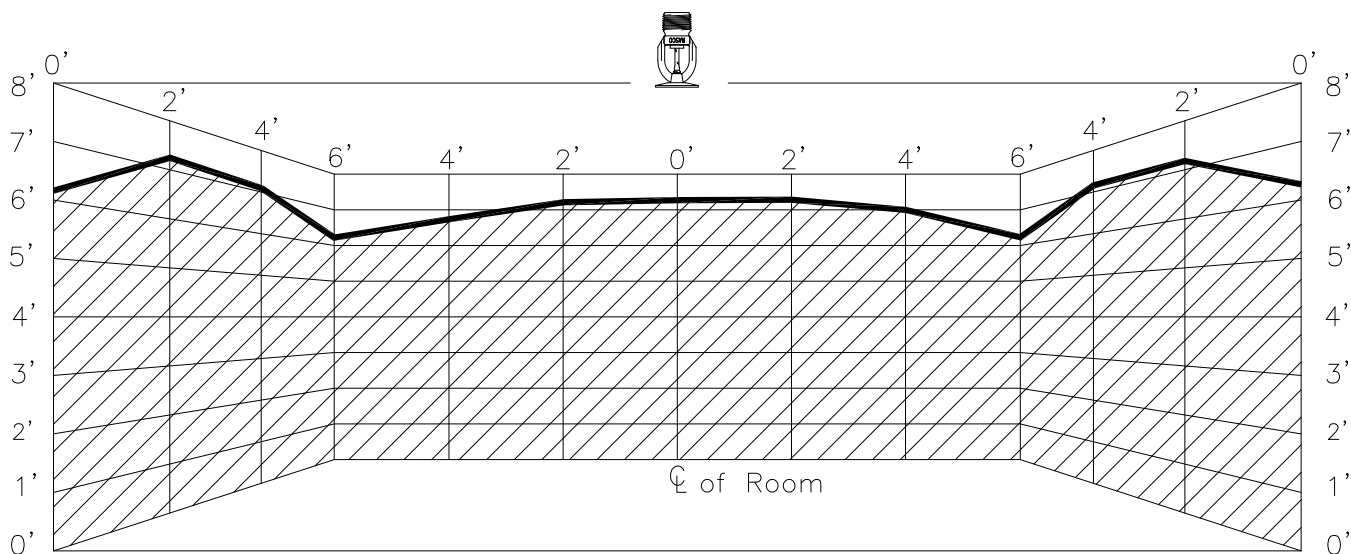
- 16-1 12 ftx12 ft, 14 ftx14 ft coverage area (4-6" deflector to ceiling distance)
- 16-2 16 ftx16 ft, 16 ftx18 ft, 16 ftx20 ft coverage area (4-6" deflector to ceiling distance)
- 16-3 12 ftx12 ft, 14 ftx14 ft, 16 ftx20 ft coverage area (6-12" deflector to ceiling distance)
- 16-4 16 ftx16 ft, 16 ftx18 ft coverage area (6-12" deflector to ceiling distance)

F1 Res 30 Pendent & Recessed Pendent Wetting Patterns:

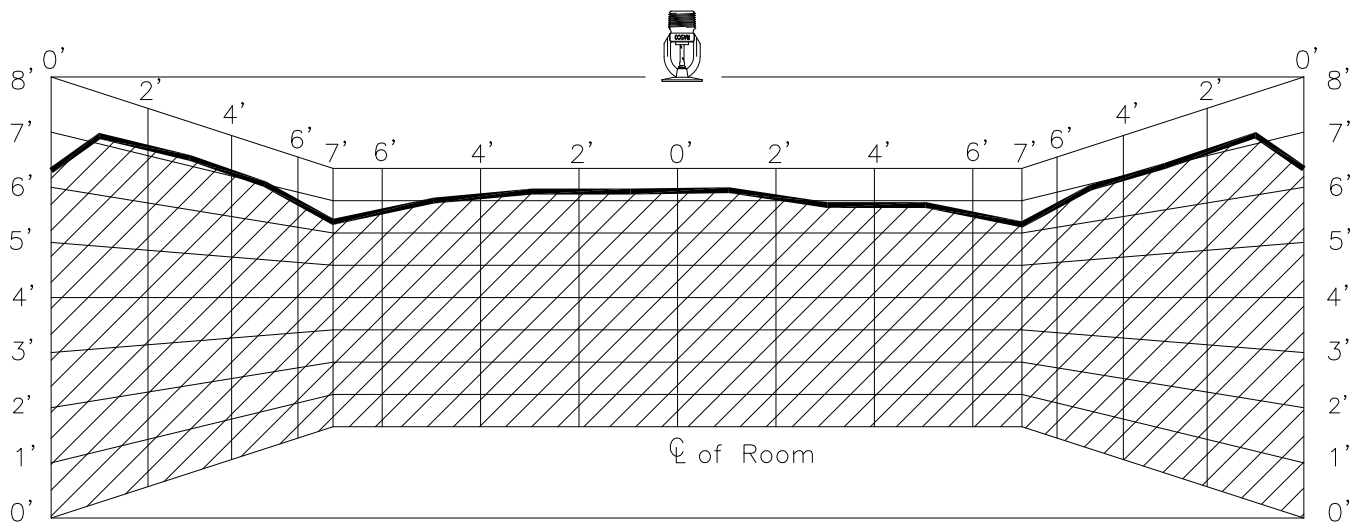
F1 Res 30 Pendent



F1 Res 30 Recessed Pendent /F1

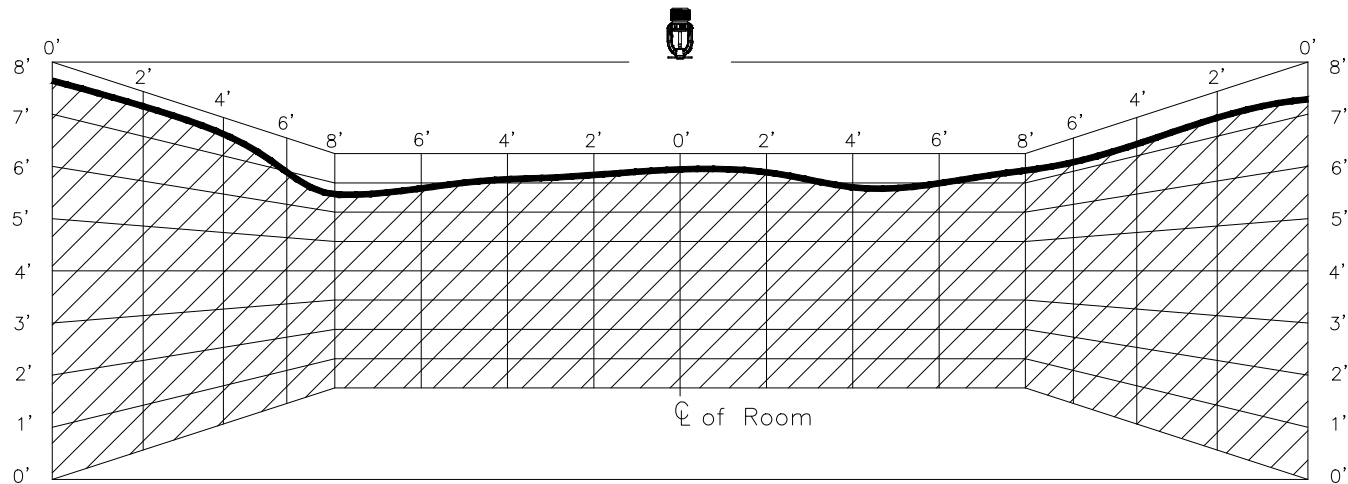


F1 RES30-PEND-12 *FI RES30 PENDENT* 8 gpm
 12 ft x 12 ft COVERAGE AREA



F1 RES30-PEND-14 *FI RES30 PENDENT* 10 gpm
 14 ft x 14 ft COVERAGE AREA

F1 Res 30 Pendent & Recessed Pendent Wetting Patterns (cont.):



F1RES30-PEND-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

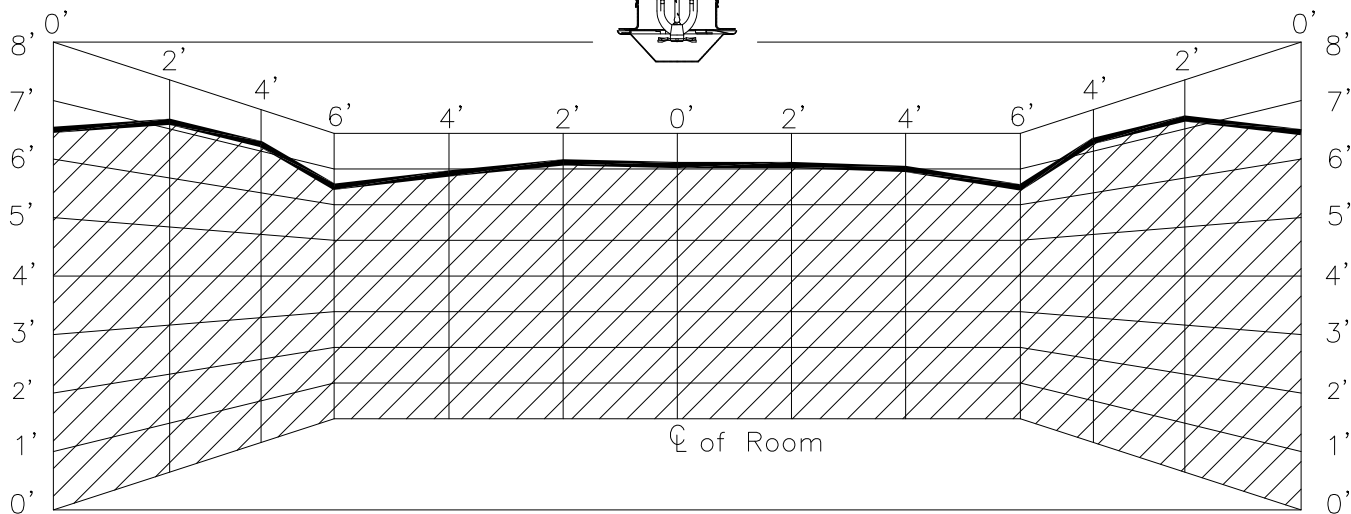
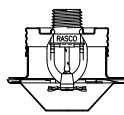
13 gpm

F1 Res 30 CCP & F1 Res 30 Recessed Pendant/FP Wetting Patterns:

F1 Res 30 CCP



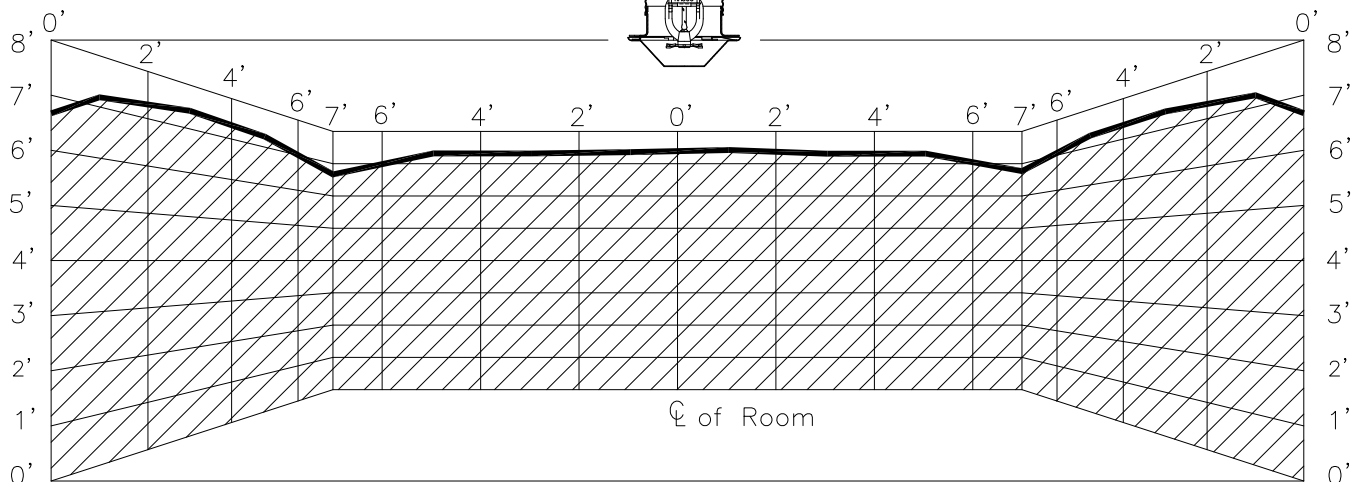
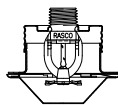
F1 Res 30 Recessed Pendant /FP



F1 RES30 CCP-PEND-12

F1 RES30 CCP
12 ft x 12 ft COVERAGE AREA

8 gpm



F1 RES30 CCP-PEND-14

F1 RES30 CCP
14 ft x 14 ft COVERAGE AREA

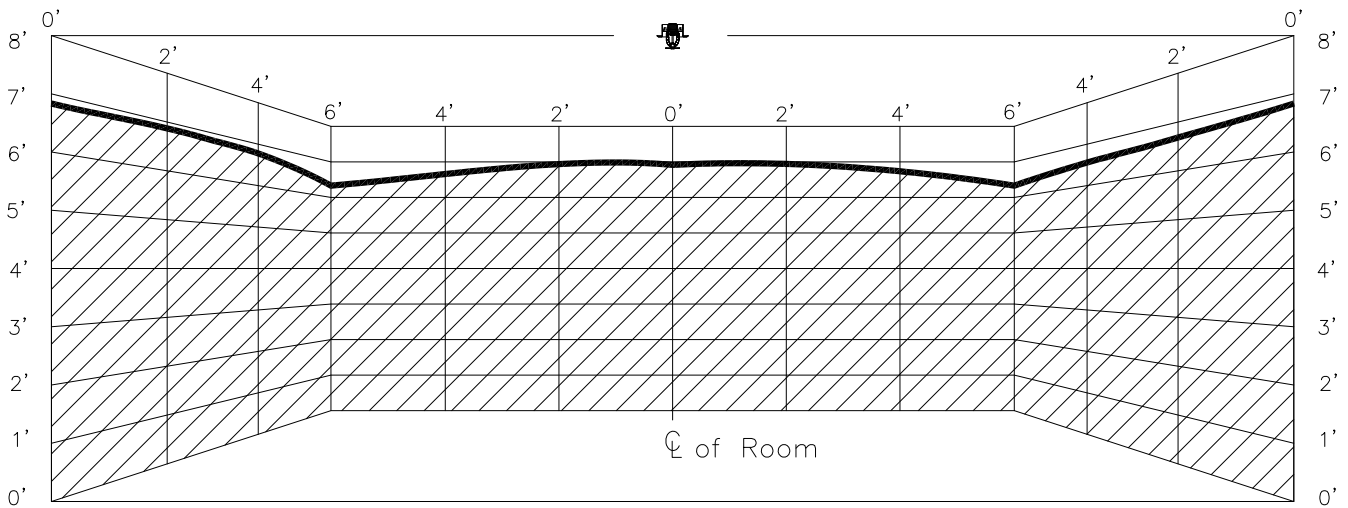
11 gpm

F1 Res 49 Pendant & Recessed Pendant Wetting Patterns:

F1 Res 49 Pendant



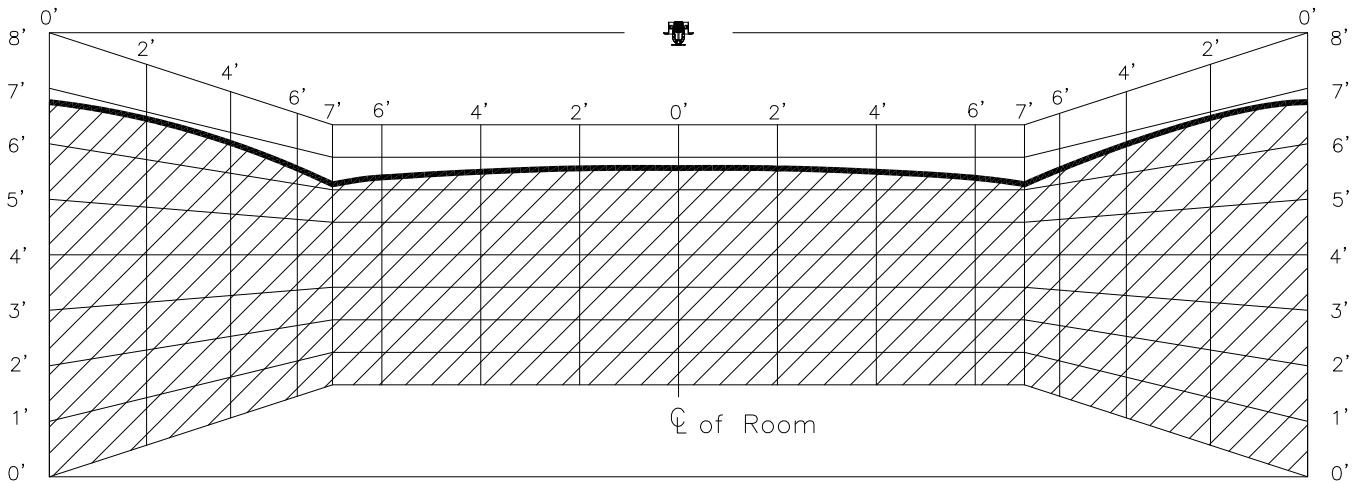
F1 Res 49 Recessed Pendant /F1



F1RES49_PEND-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

1 13 gpm

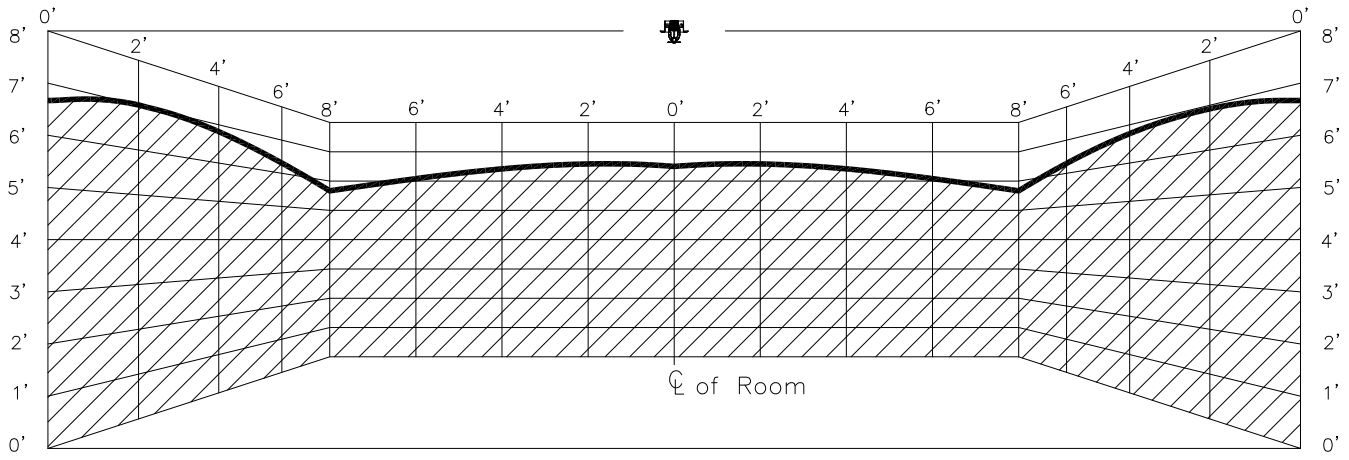


F1RES49_PEND-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

1 13 gpm

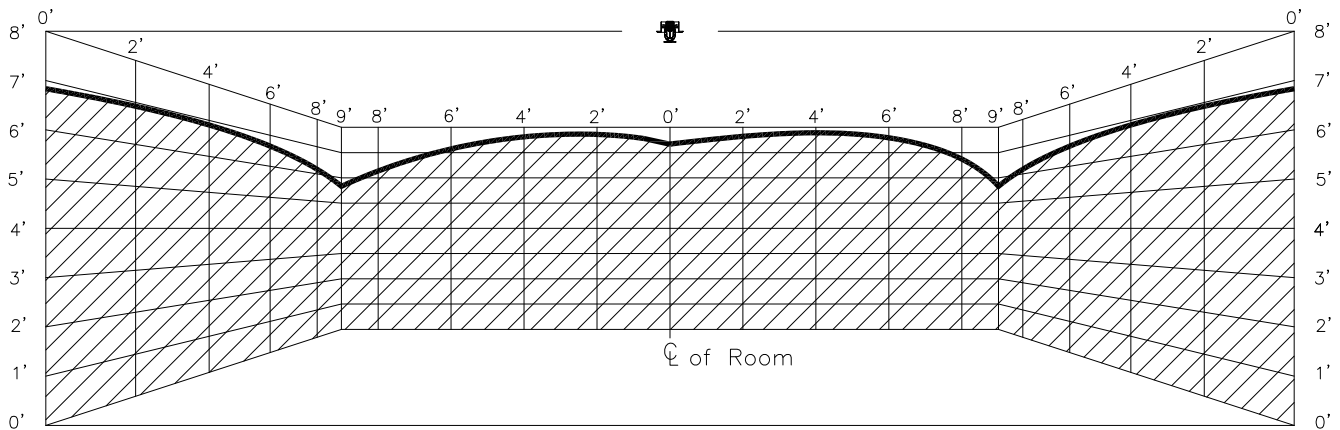
F1 Res 49 Pendent & Recessed Pendent Wetting Patterns (cont.):



F1RES49_PEND-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

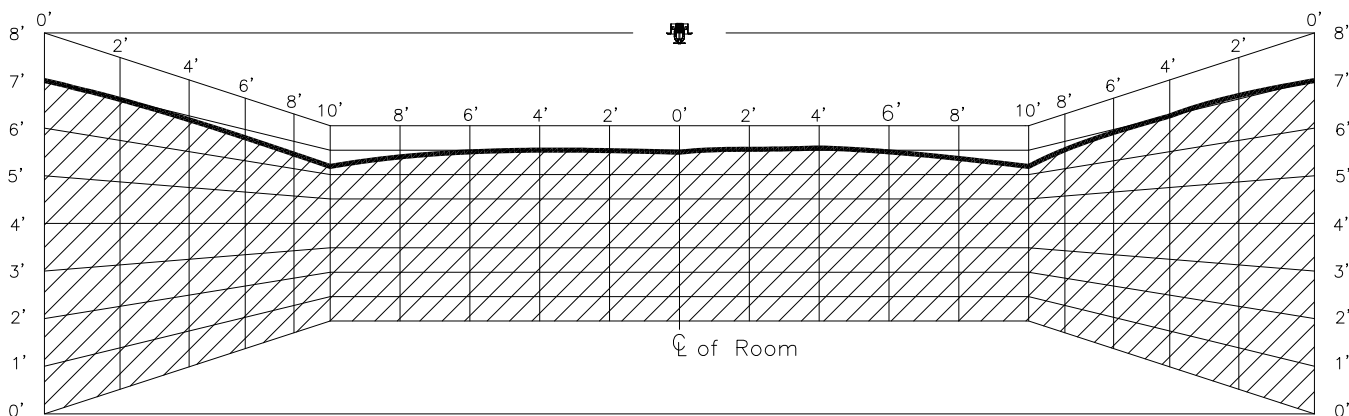
13 gpm



F1RES49_PEND-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

17 gpm



F1RES49_PEND-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

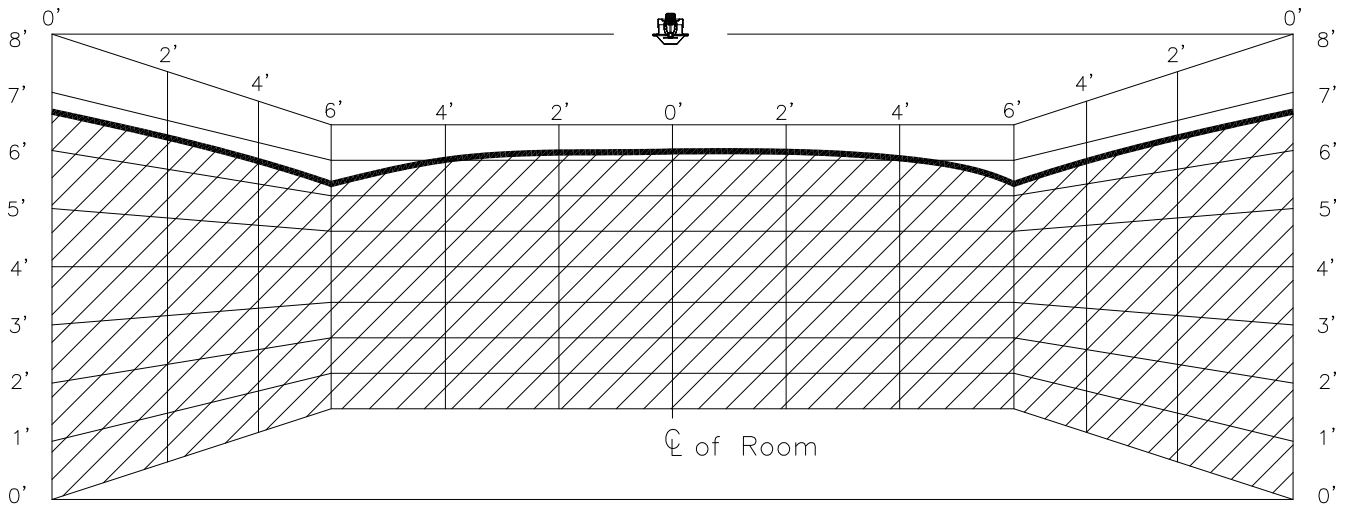
20 gpm

F1 Res 49 CCP & F1 Res 49 Recessed/FP Wetting Patterns:

F1 Res 49 CCP Pendant



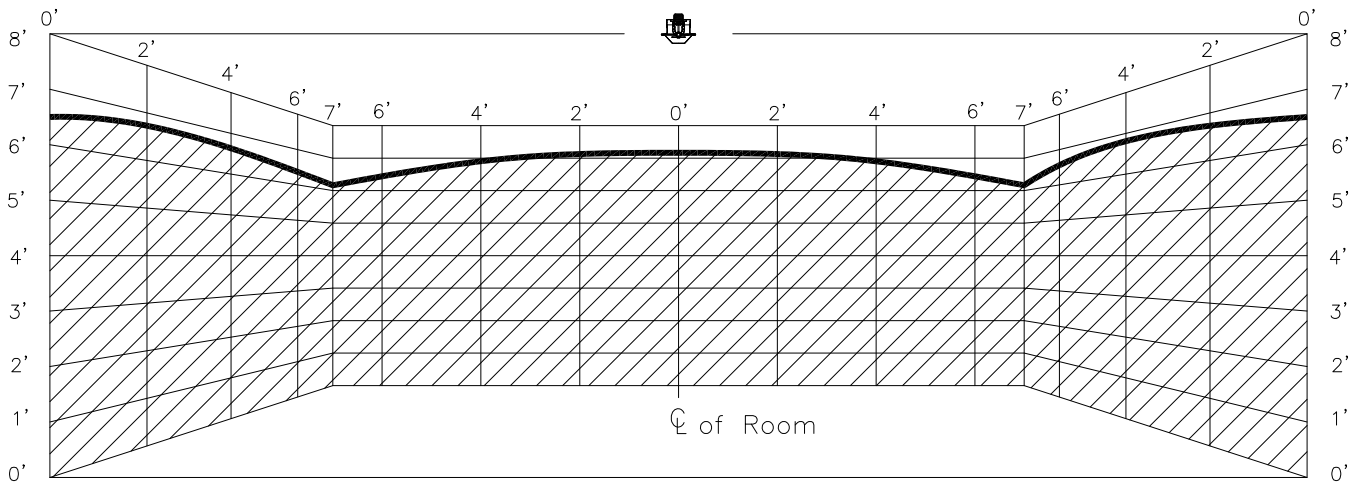
F1 Res 49 Recessed Pendant /FP



F1RES49_CCP-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

13 gpm

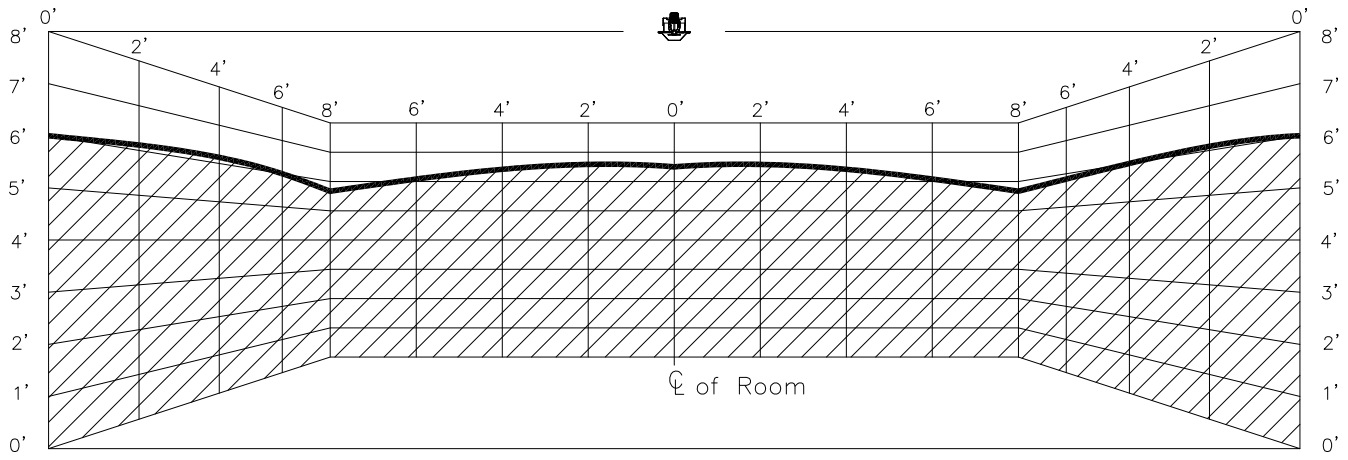


F1RES49_CCP-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

13 gpm

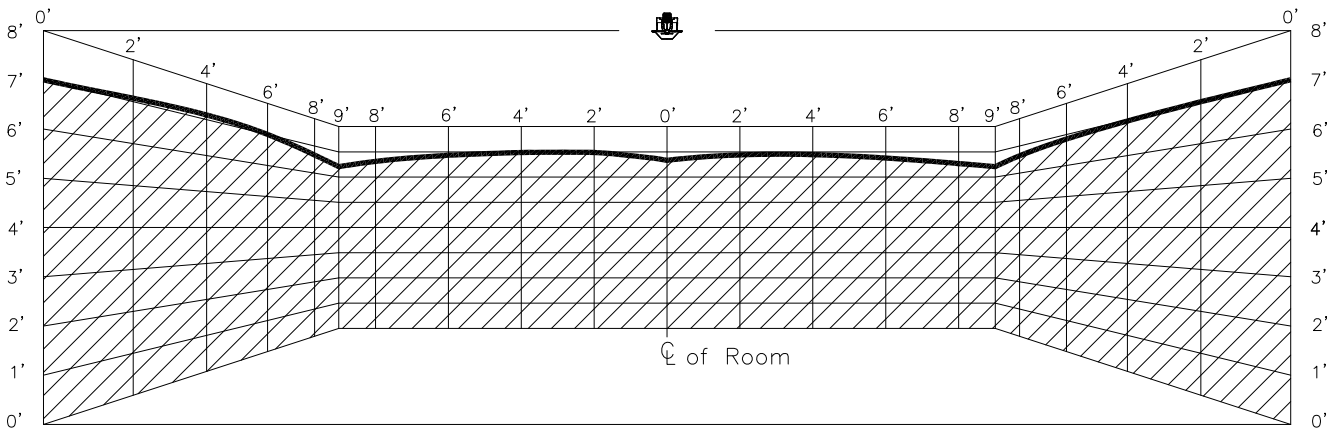
F1 Res 49 CCP & F1 Res 49 Recessed/FP Wetting Patterns (cont.):



F1RES49_CCP-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

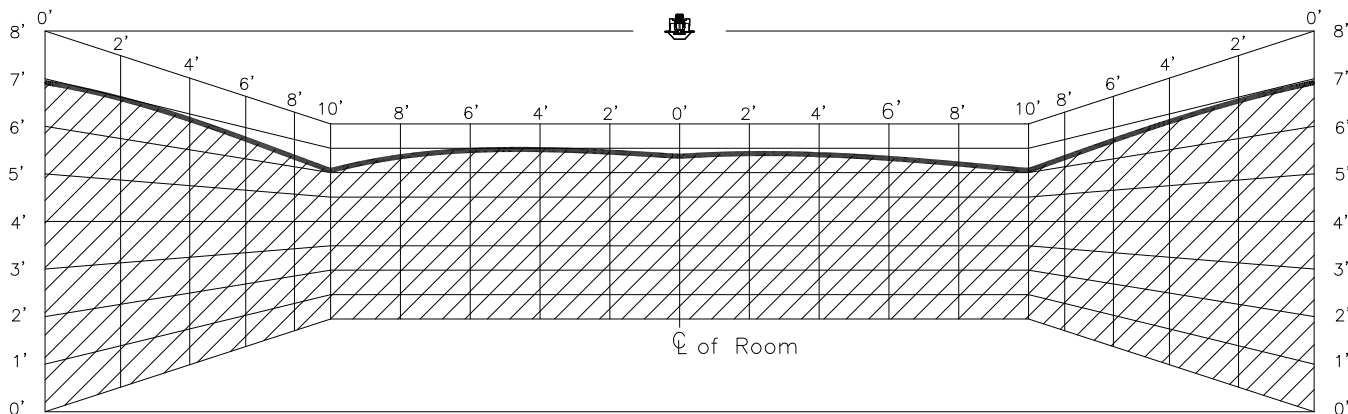
14 gpm



F1RES49_CCP-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

18 gpm



F1RES49_CCP-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

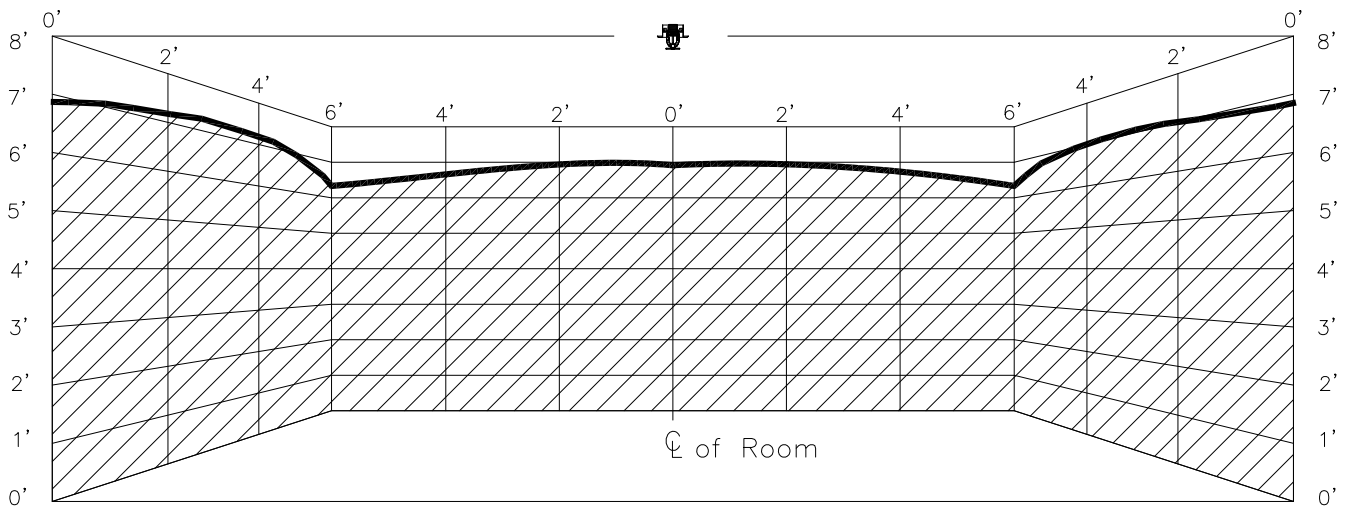
20 gpm

F1 Res 58 Pendant and Recessed Pendant:

F1 Res 58 Pendant



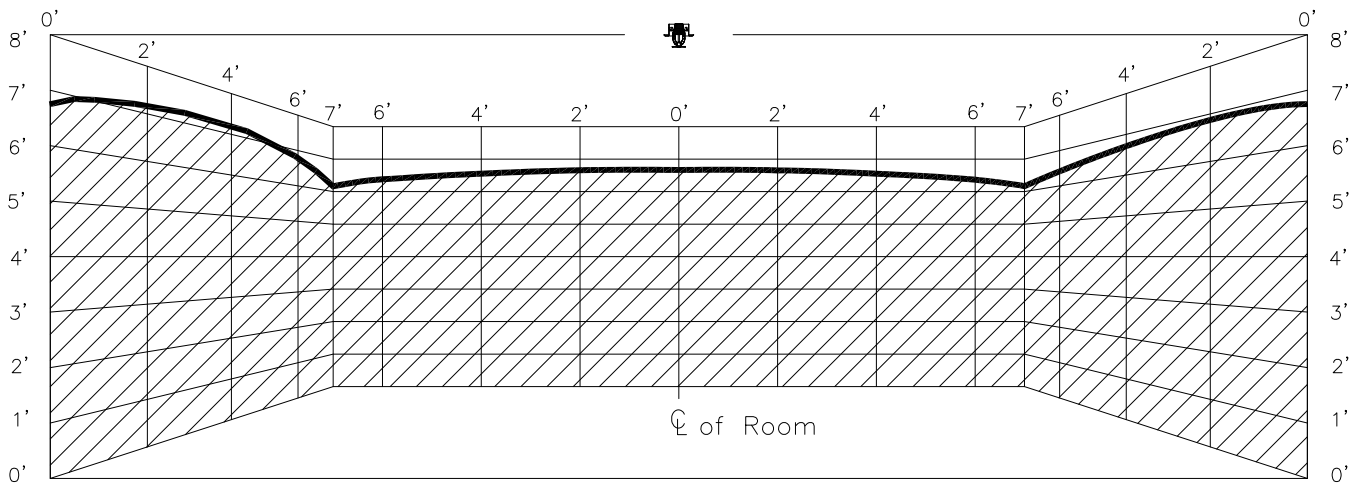
F1 Res 58 Recessed Pendant /F1



F1RES58PEND-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

16 gpm

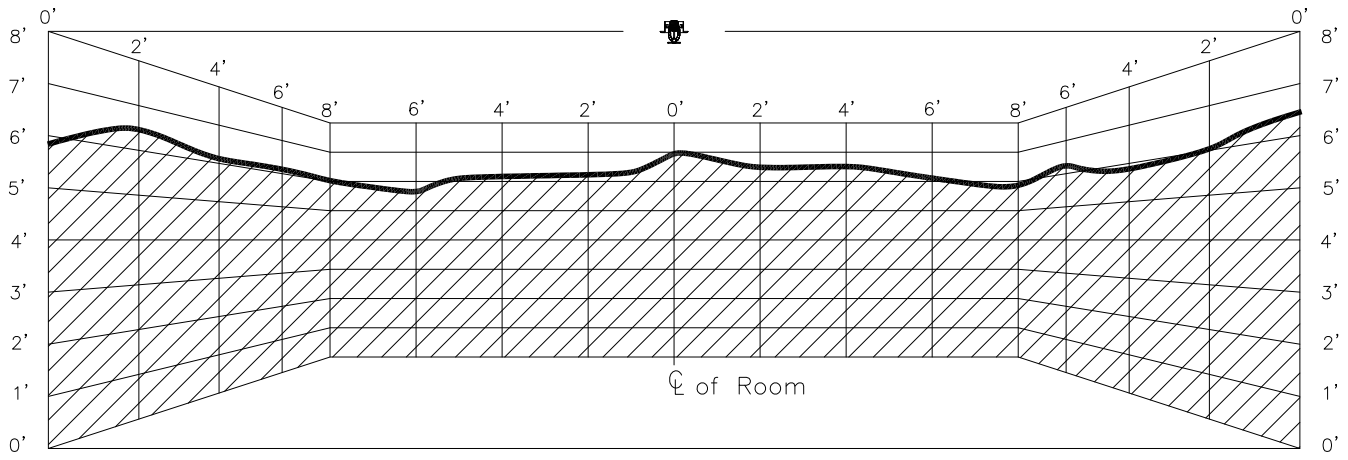


F1RES58PEND-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

16 gpm

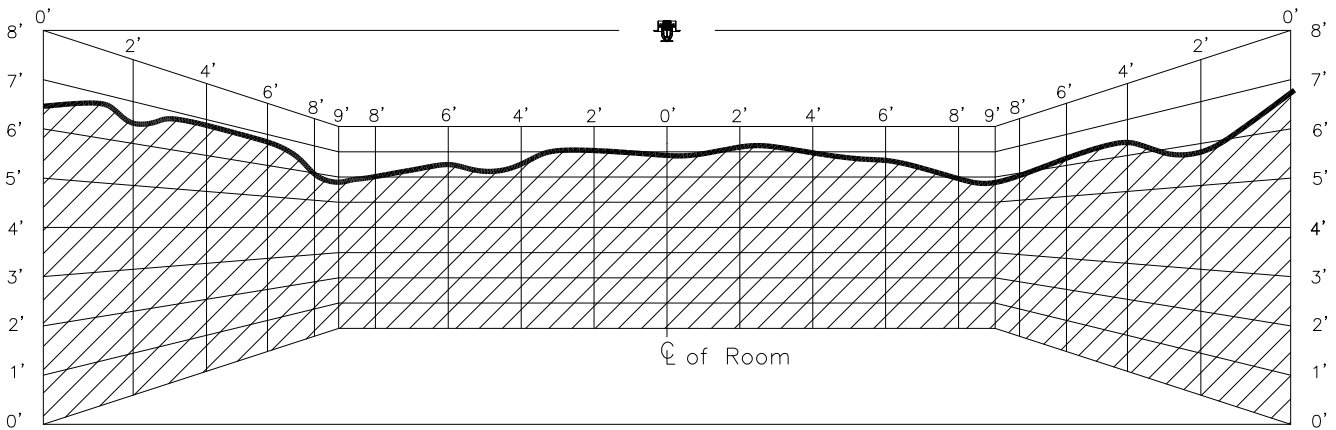
F1 Res 58 Pendent and Recessed Pendent (cont.):



F1RES58PEND-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

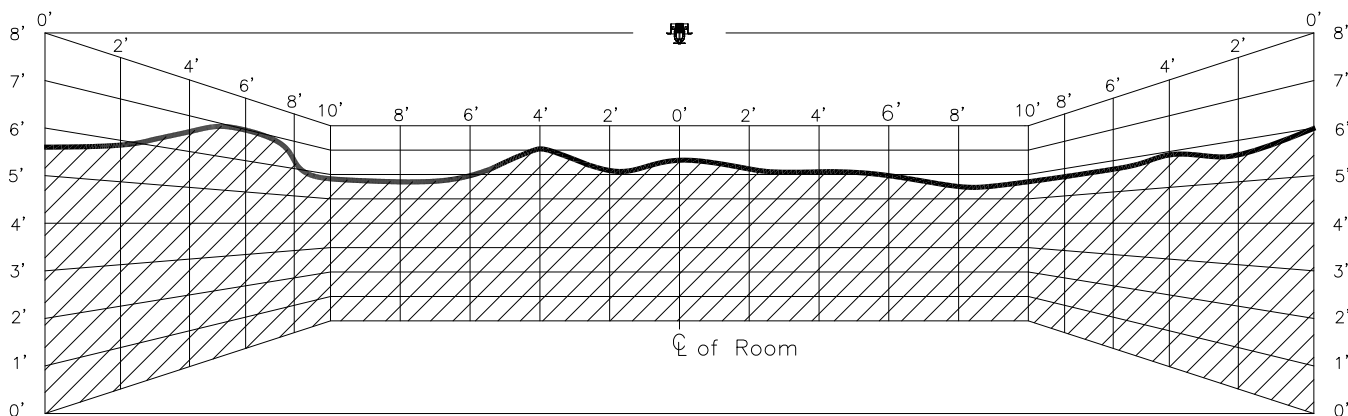
16 gpm



F1RES58PEND-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

18 gpm



F1RES58PEND-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

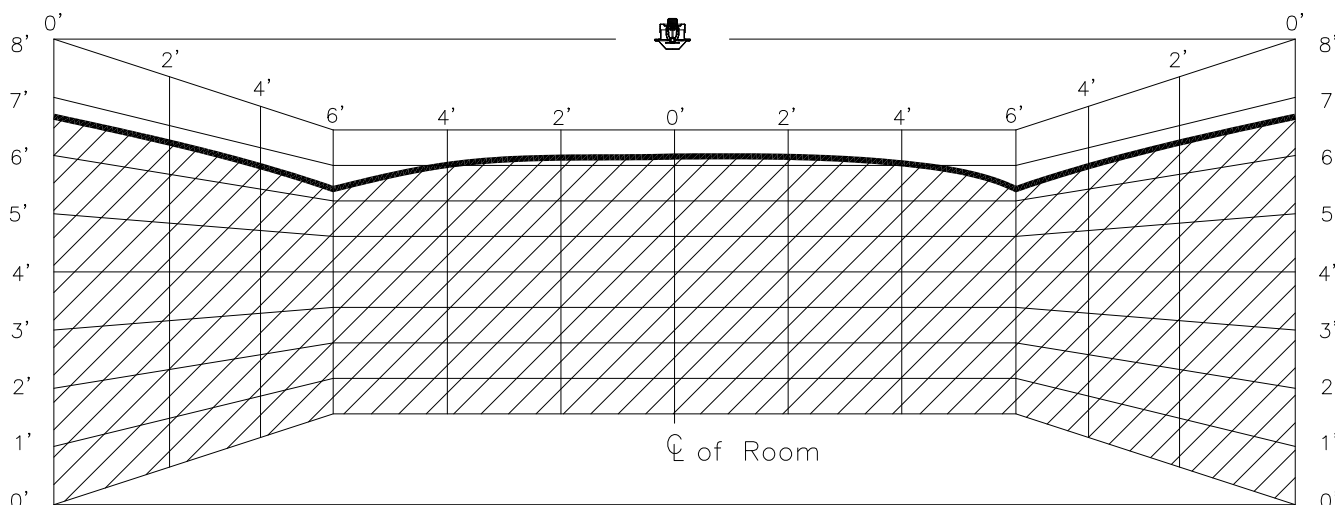
20 gpm

F1 Res 58 CCP & F1 Res 58 Recessed Pendant /FP:

F1 Res 58 CCP



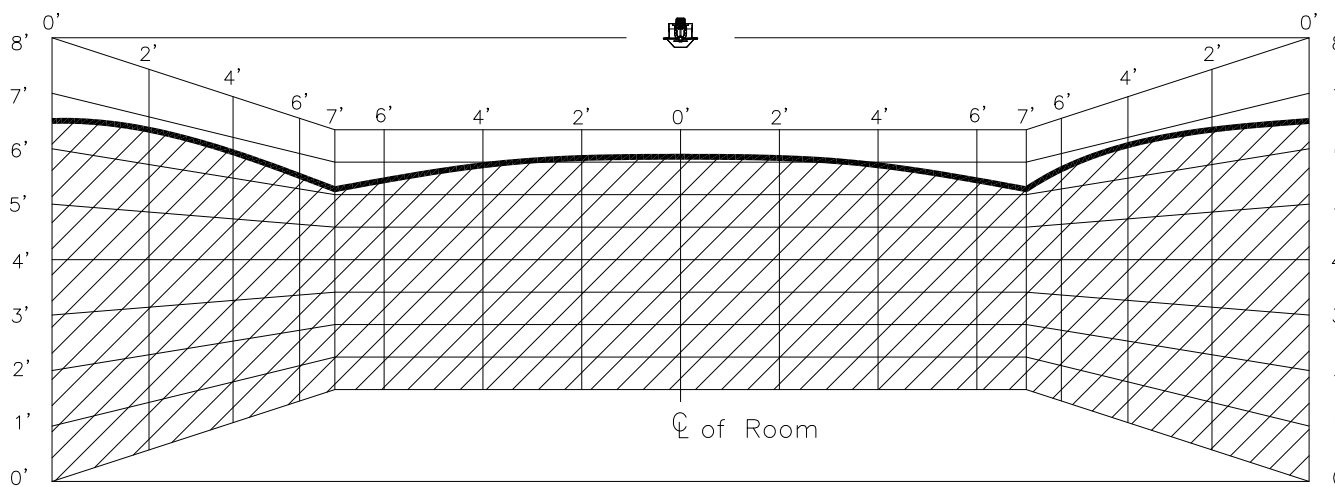
F1 Res 58 Recessed Pendant /FP



F1RES58_CCP-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

16 gpm

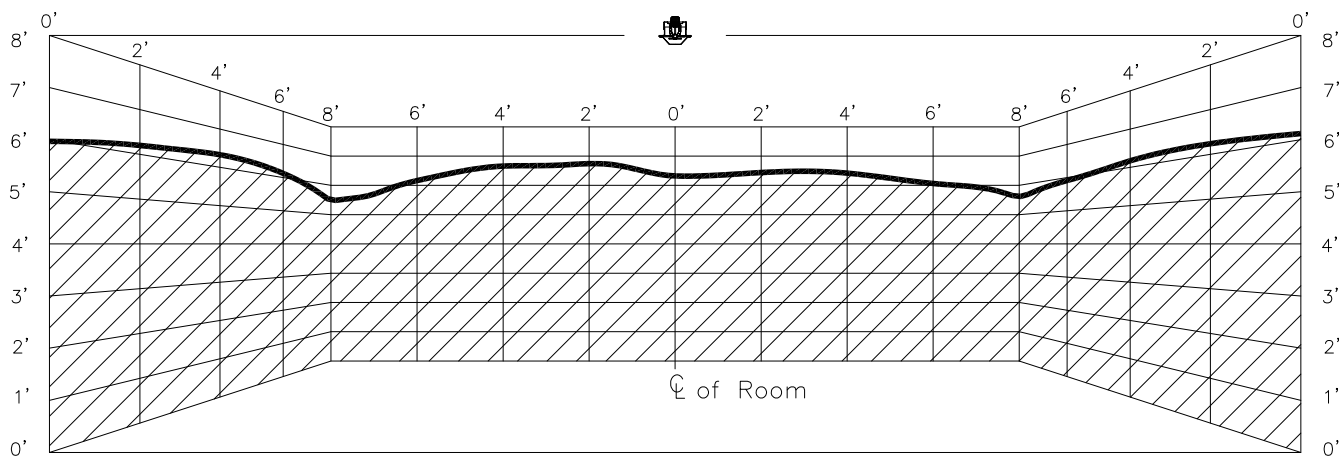


F1RES58_CCP-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

16 gpm

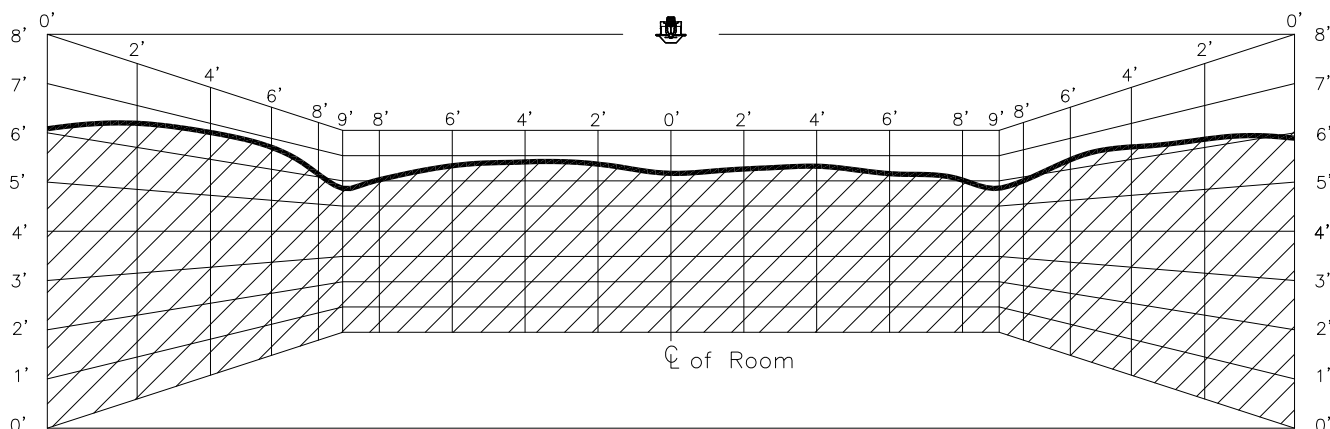
F1 Res 58 CCP & F1 Res 58 Recessed Pendant /FP (cont.):



F1RES58_CCP-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

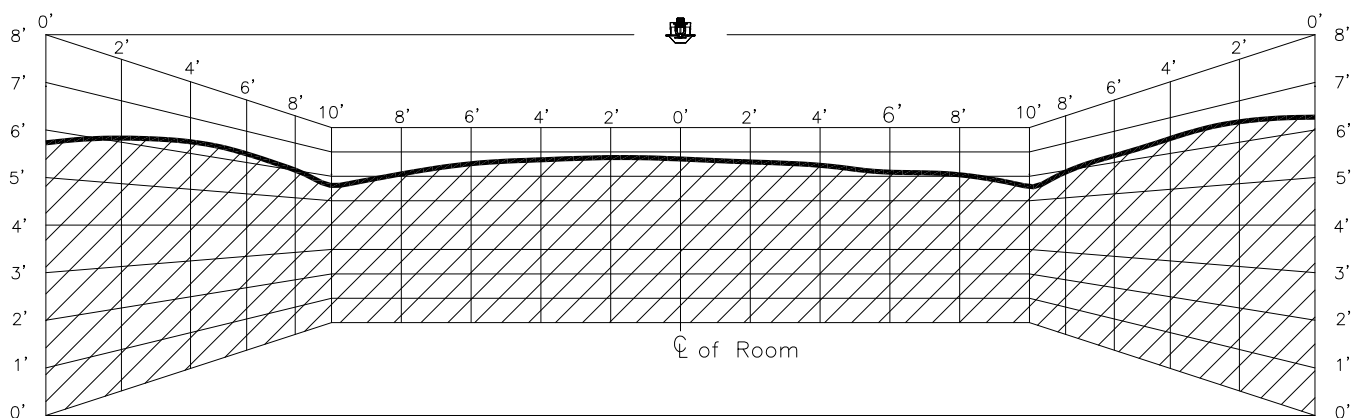
16 gpm



F1RES58_CCP-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

10 gpm



F1RES58_CCP-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

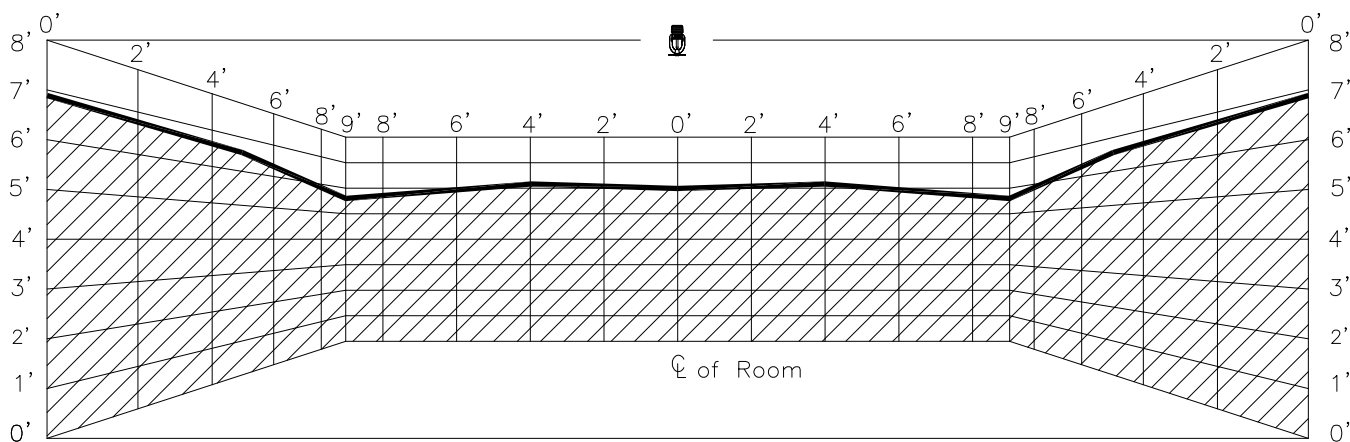
22 gpm

F1 Res 76 Pendant & Recessed Pendant:

F1 Res 76 Pendant



F1 Res 76 Recessed Pendant

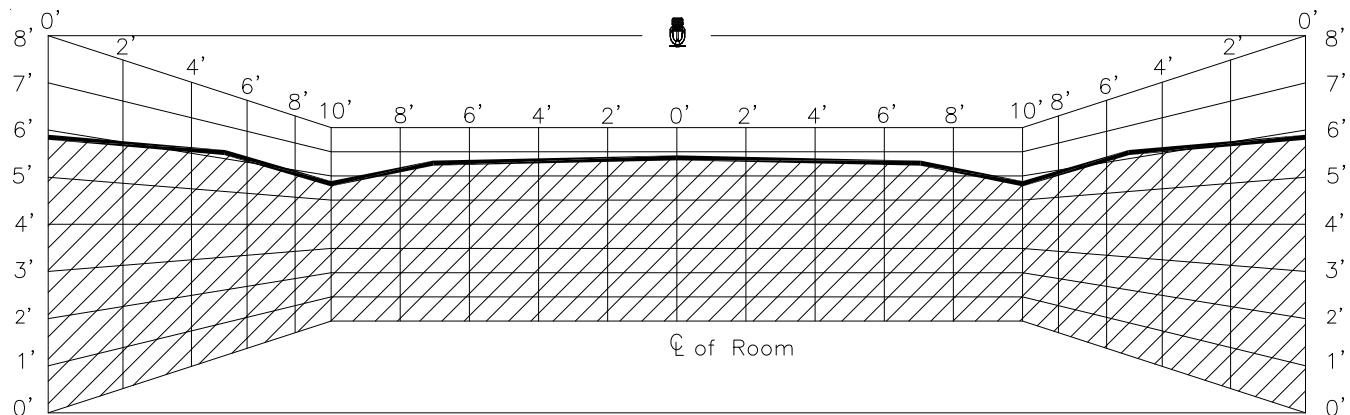


RES76-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

21 gpm

SPRINKLER DISTRIBUTION PATTERN



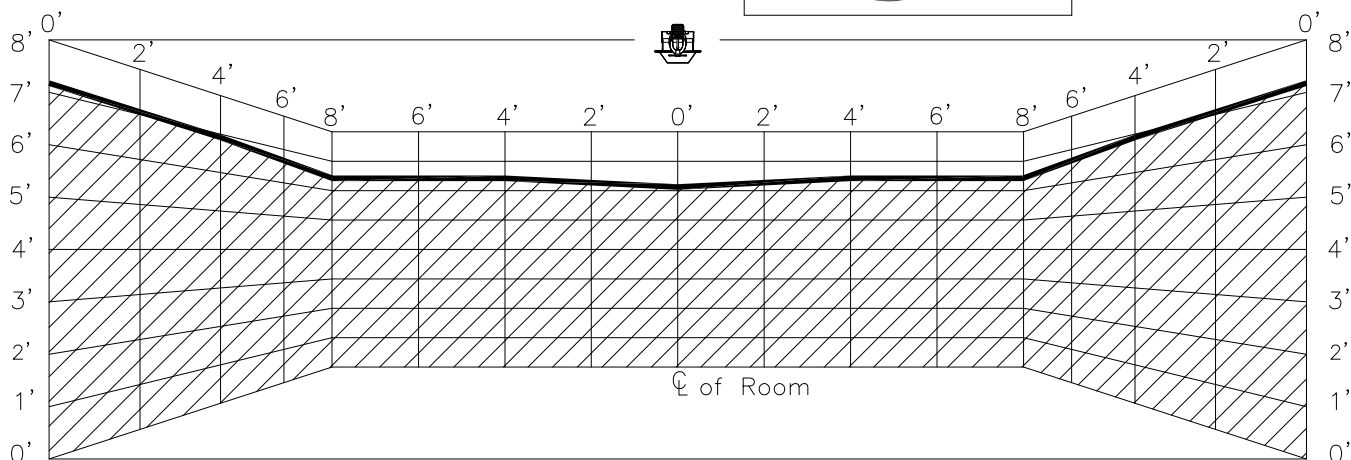
RES76-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

23 gpm

F1Res 76 CCP Pendant:

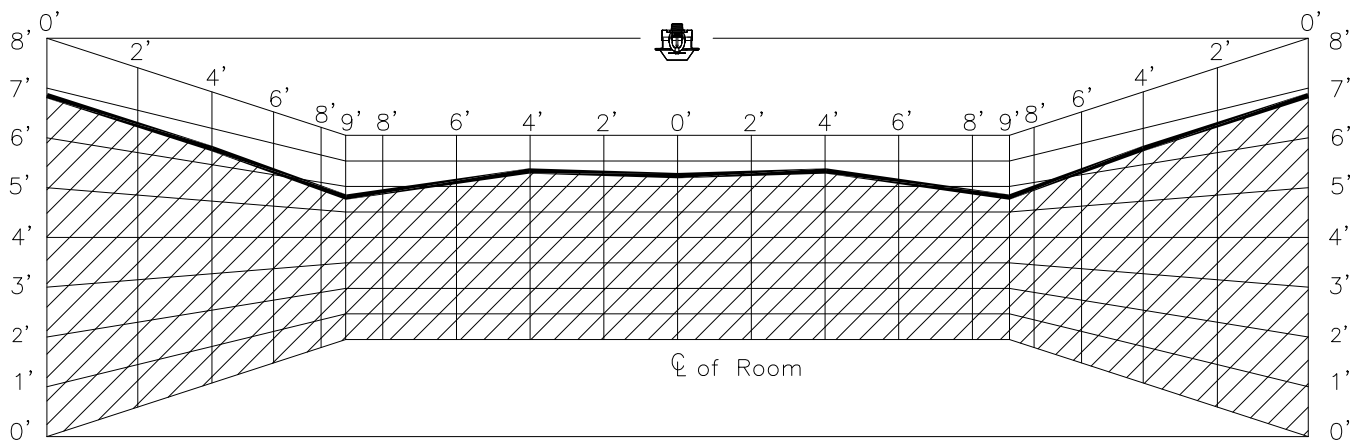
F1 Res 76 CCP Pendant



RES76_CCP-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

21 gpm

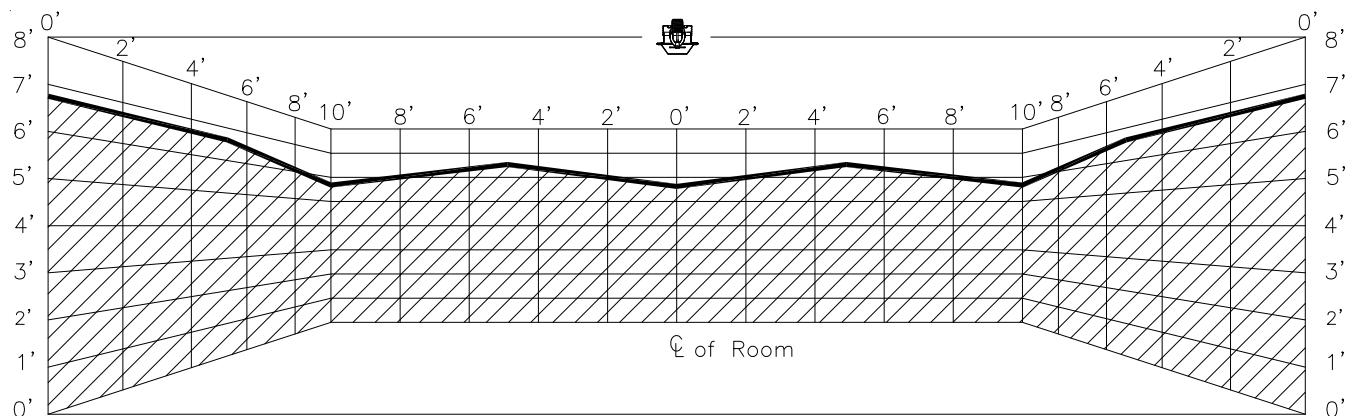


RES76_CCP-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

22 gpm

SPRINKLER DISTRIBUTION PATTERN



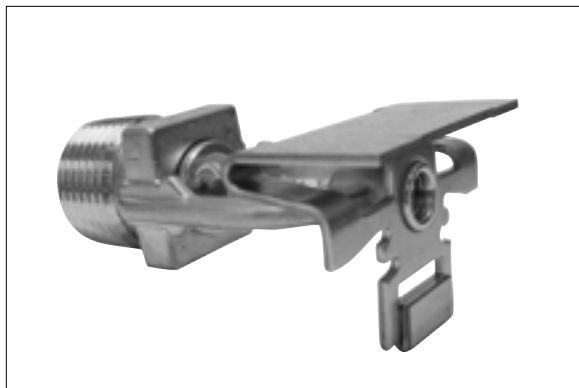
RES76_CCP-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

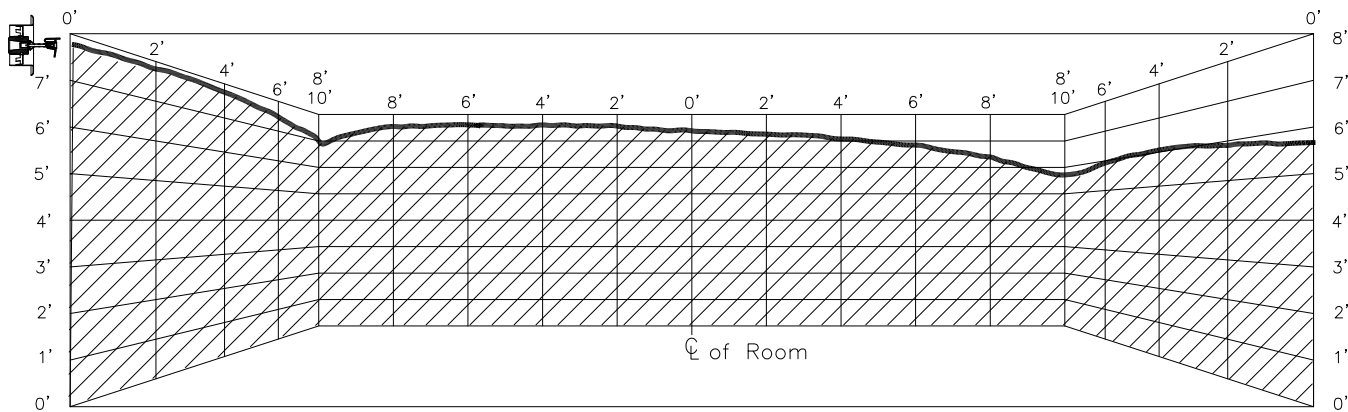
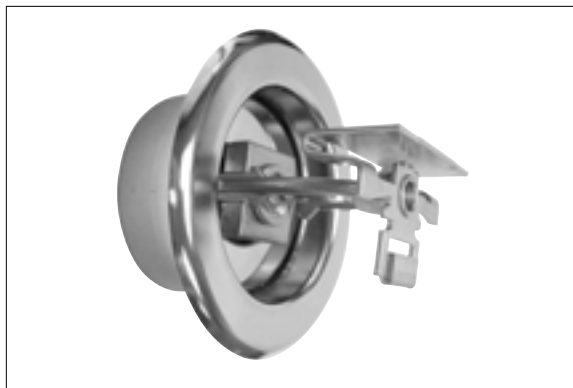
25 gpm

F1 Res 44 HSW & F1 Res 44 Recessed HSW/F2 Wetting Patterns:

F1 Res 44 HSW



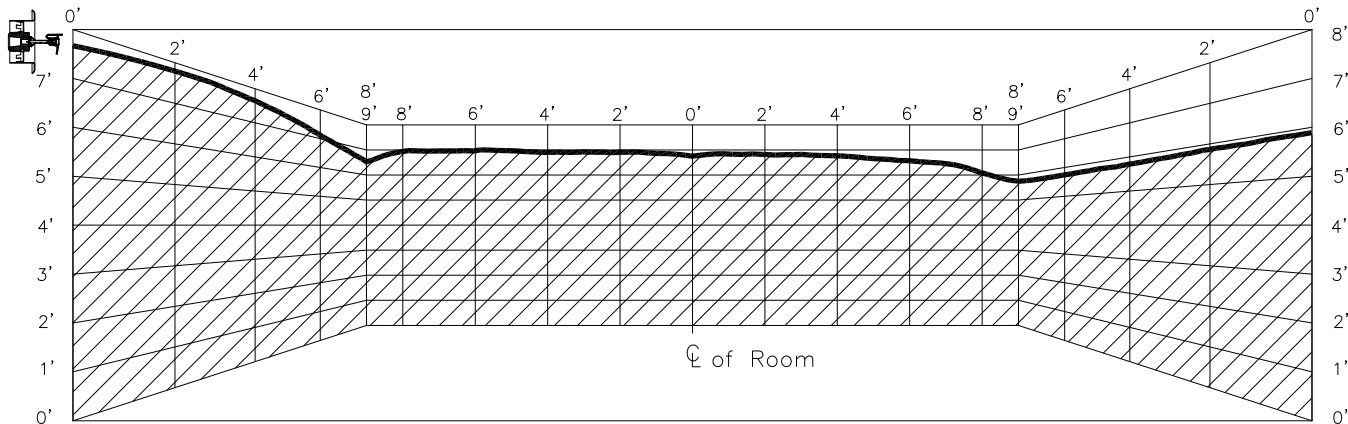
F1 Res 44 Recessed HSW/F2



F1RES44_HSW-16x20-4

NOMINAL WETTING PATTERN
 16 ft x 20 ft COVERAGE AREA (OR LESS)
 4 - 6" DEFLECTOR TO CEILING DISTANCE

23 gpm

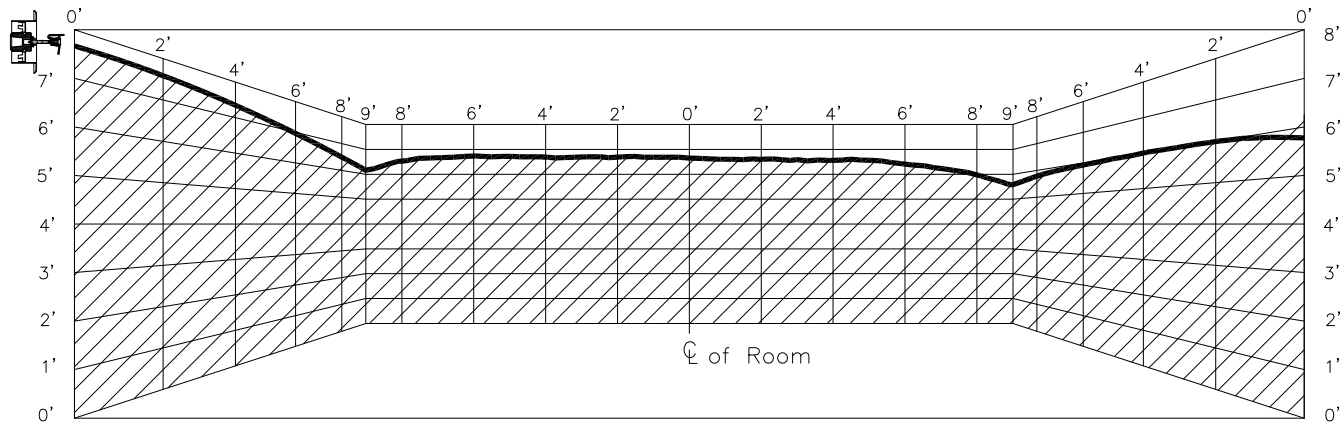


F1RES44_HSW-16x18-4

NOMINAL WETTING PATTERN
 16 ft x 18 ft COVERAGE AREA
 4 - 6" DEFLECTOR TO CEILING DISTANCE

18 gpm

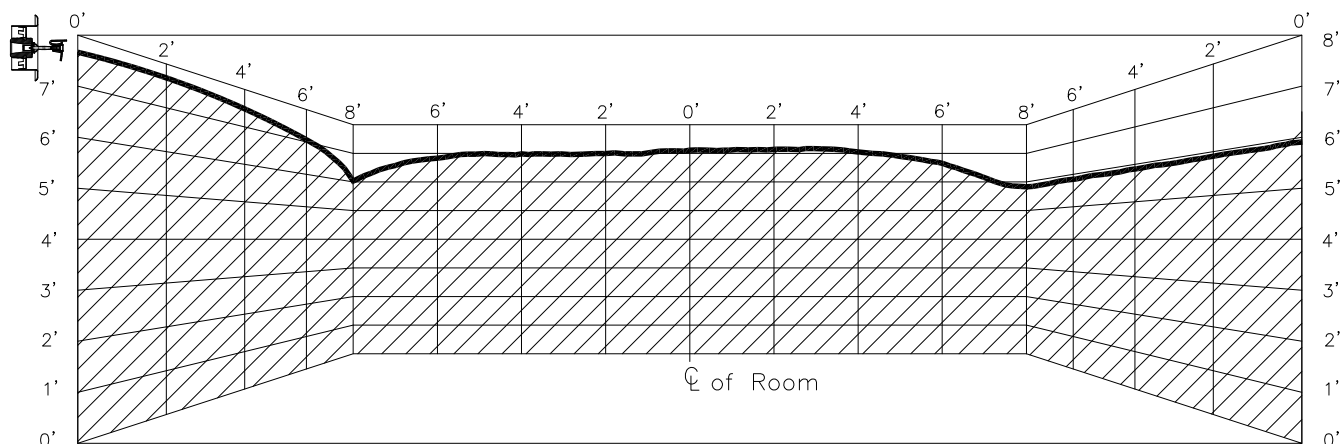
F1 Res 44 HSW & F1 Res 44 Recessed HSW/ F2 Wetting Patterns (cont.):



F1RES44_HSW-18x18-4

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

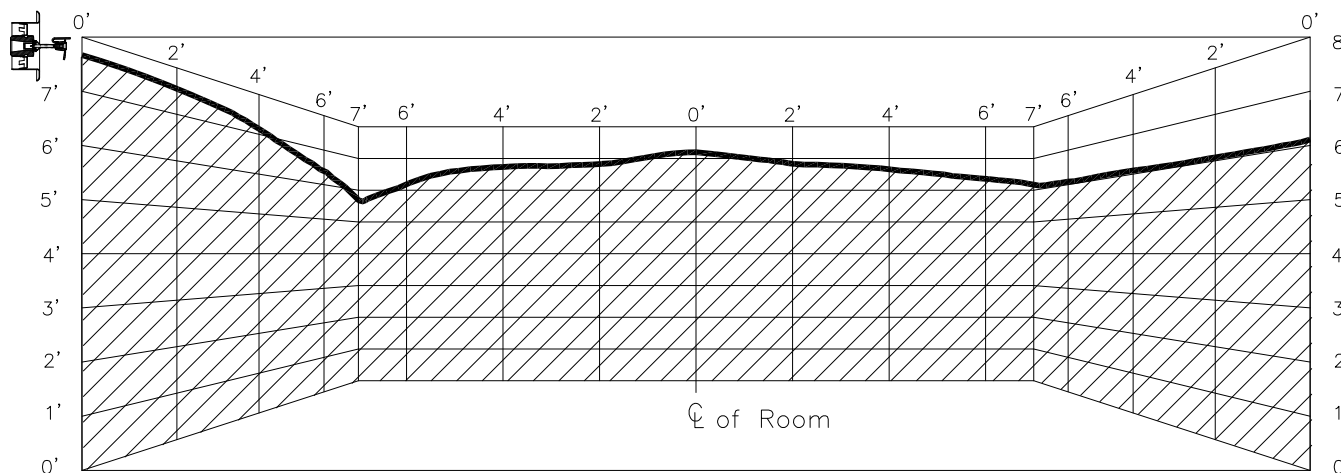
19 gpm



F1RES44_HSW-16x16-4

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

16 gpm

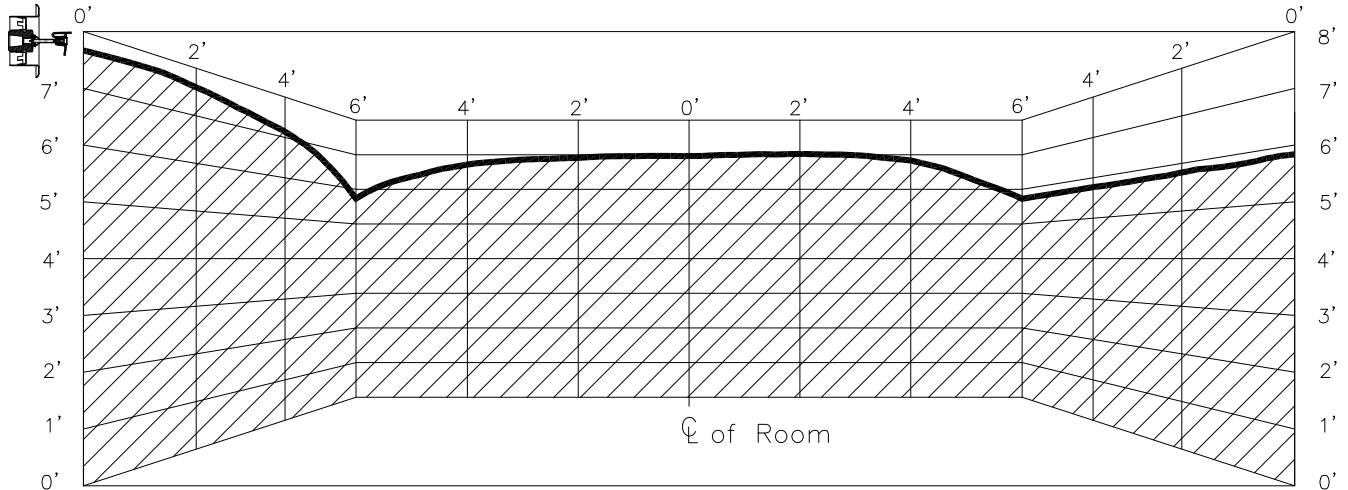


F1RES44_HSW-14x14-4

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

14 gpm

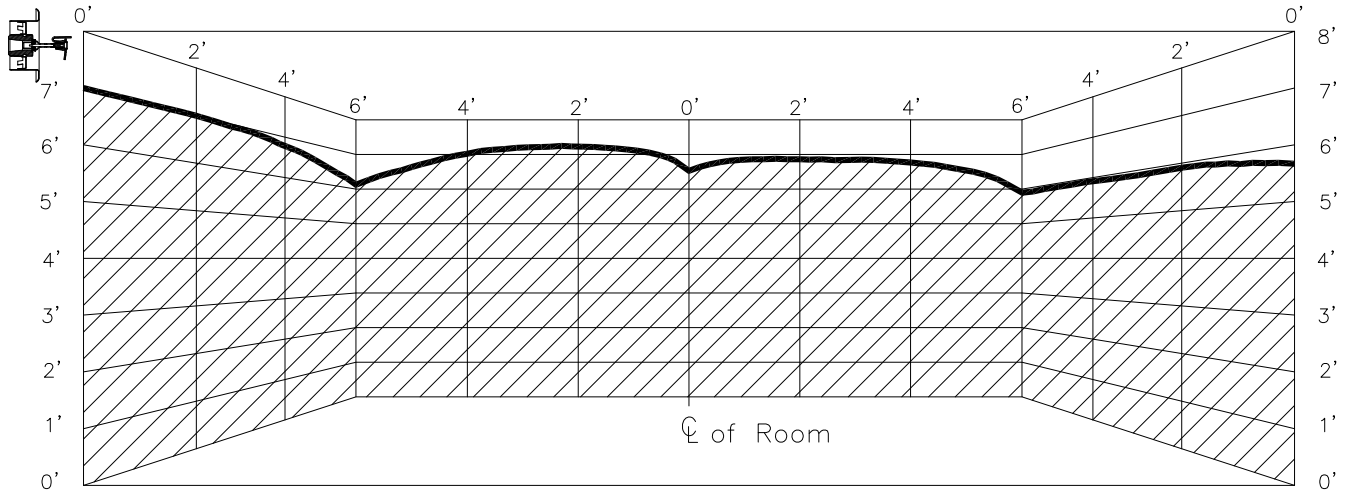
F1 Res 44 HSW & F1 Res 44 Recessed HSW/ F2 Wetting Patterns (cont.):



F1RES44_HSW-12x12-4

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)
4 - 6" DEFLECTOR TO CEILING DISTANCE

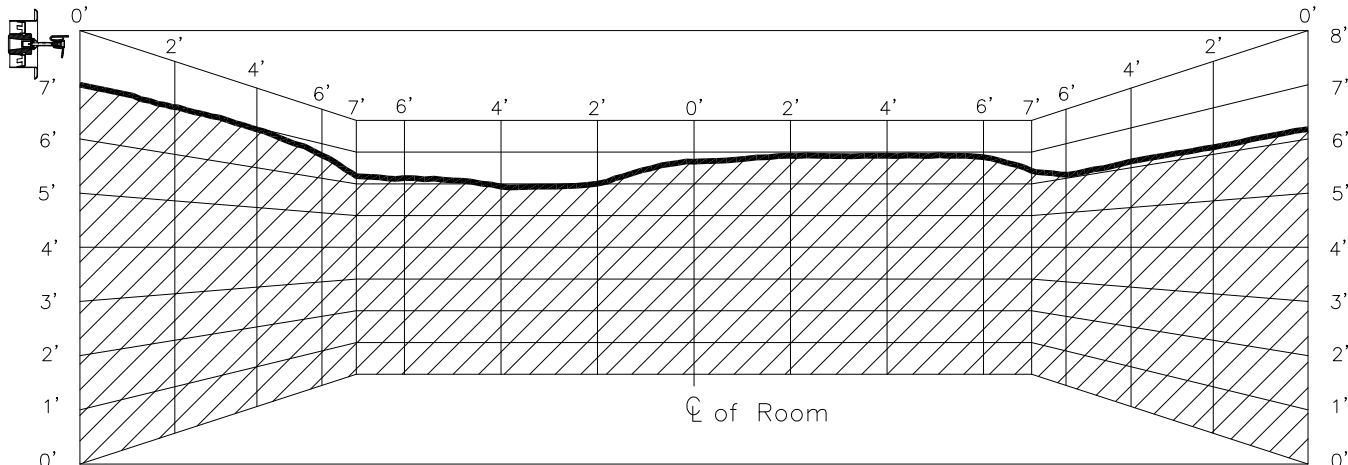
12 gpm



F1RES44_HSW-12x12-6

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)
6 - 12" DEFLECTOR TO CEILING DISTANCE

14 gpm

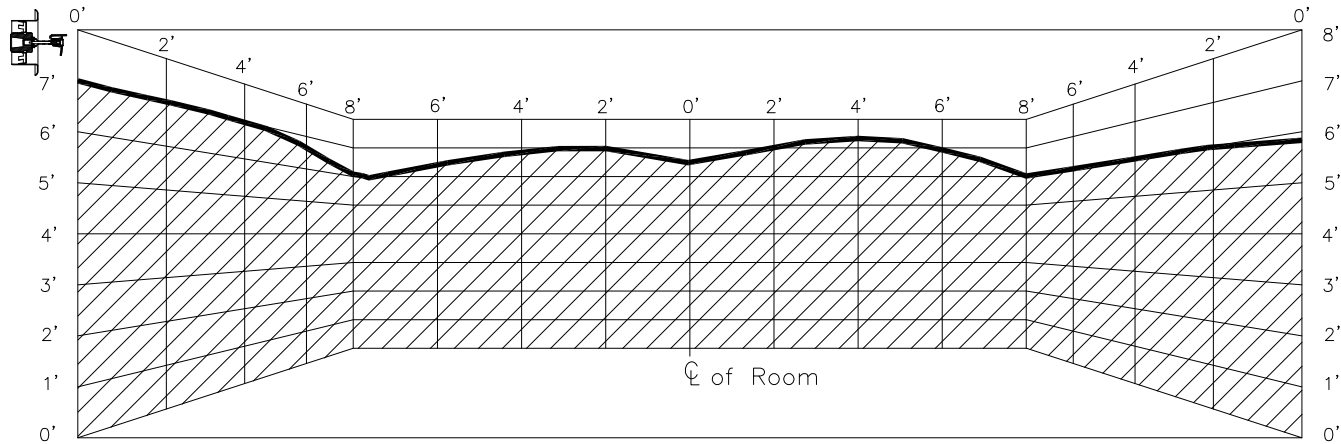


F1RES44_HSW-14x14-6

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA
6 - 12" DEFLECTOR TO CEILING DISTANCE

16 gpm

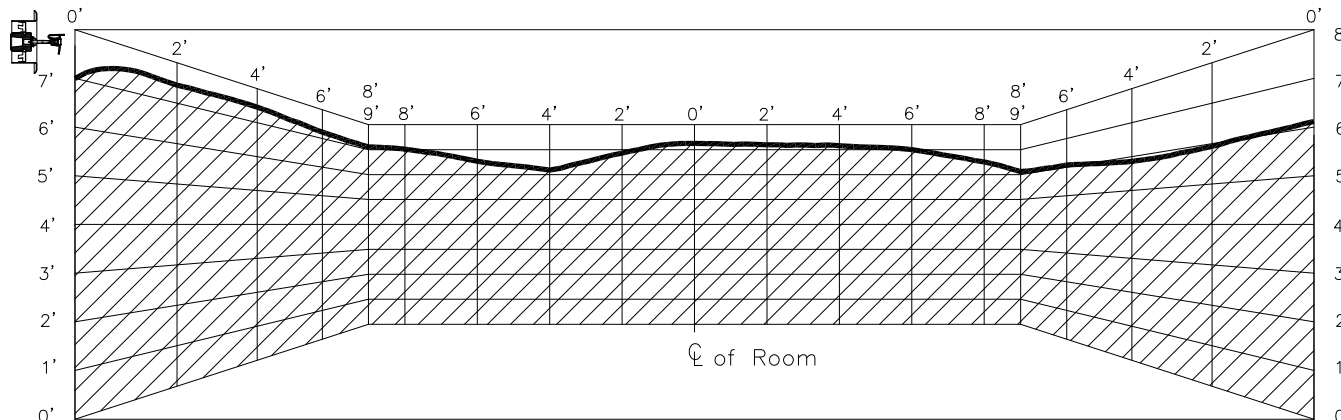
F1 Res 44 HSW & F1 Res 44 Recessed HSW/ F2 Wetting Patterns (cont.):



F1RES44_HSW-16x16-6

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA
6- 12" DEFLECTOR TO CEILING DISTANCE

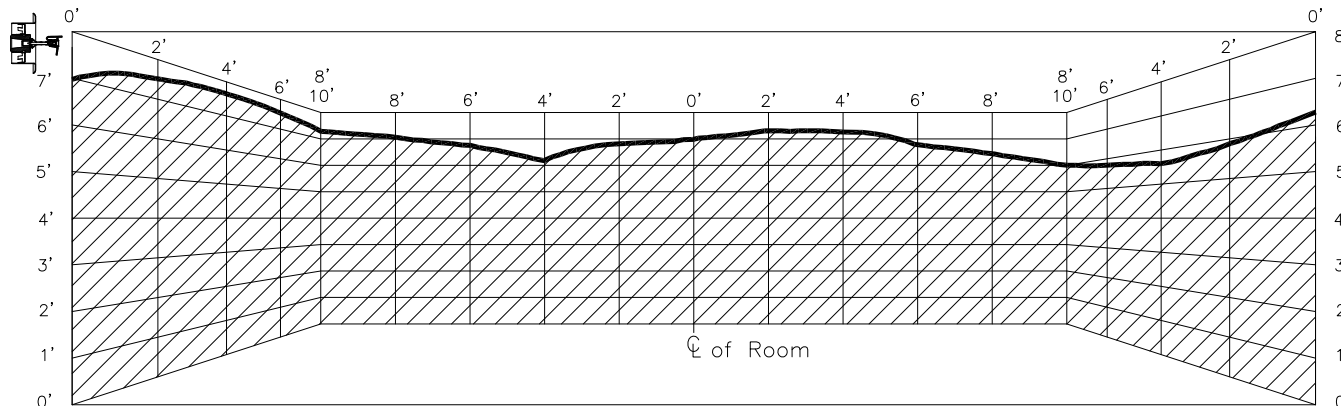
17 gpm



F1RES44_HSW-16x18-6

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA
6- 12" DEFLECTOR TO CEILING DISTANCE

20 gpm



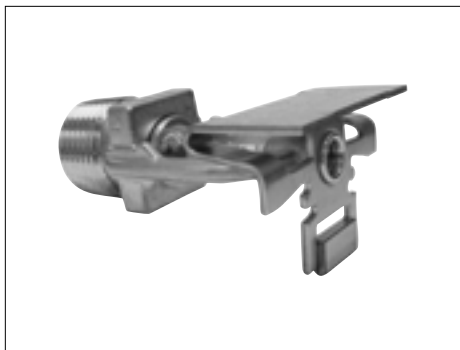
F1RES44_HSW-16x20-6

NOMINAL WETTING PATTERN
16 ft x 20 ft COVERAGE AREA
6- 12" DEFLECTOR TO CEILING DISTANCE

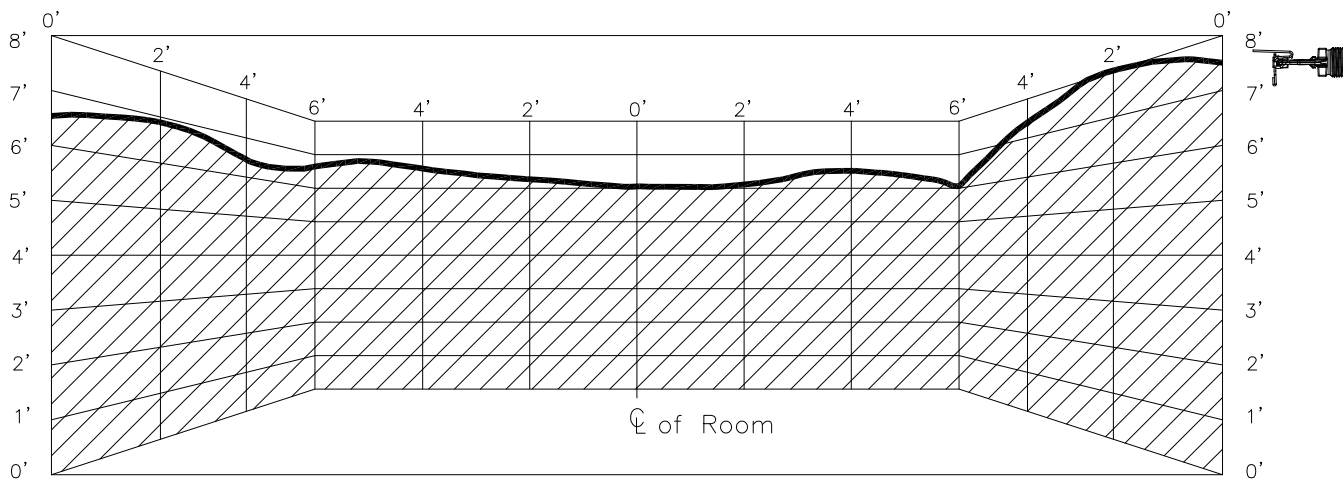
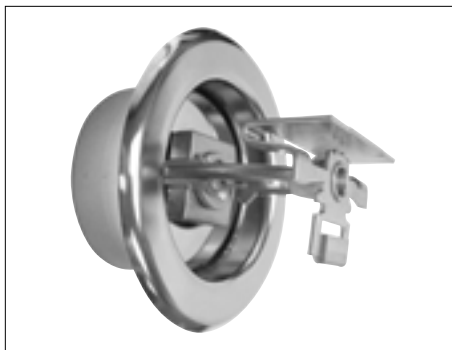
23 gpm

F1 Res 58 HSW & Recessed HSW/F2:

F1 Res 58 HSW



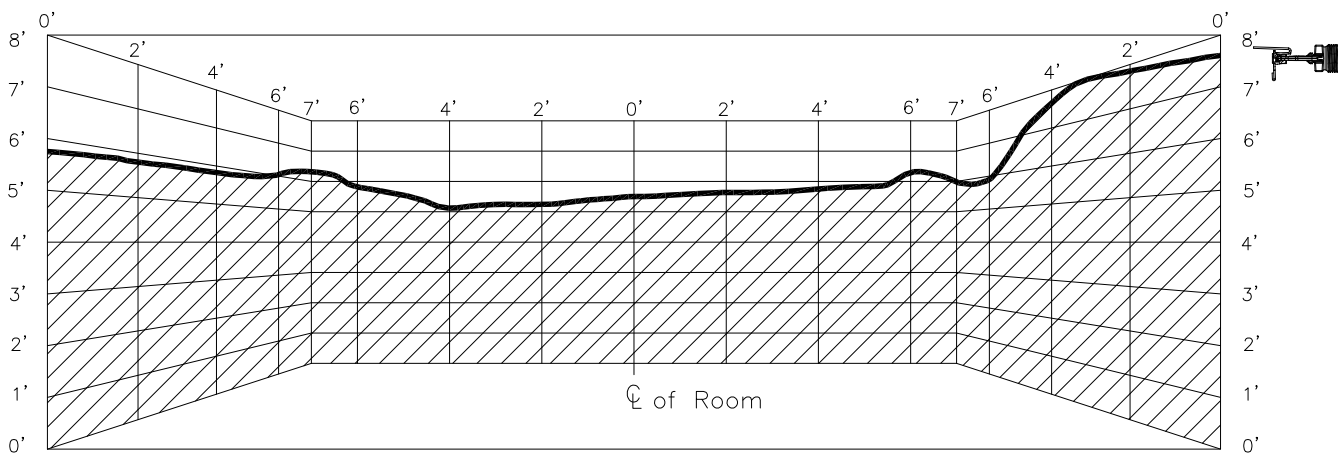
F1 Res 58 Recessed HSW/F2



F1RES58_HSW-12x12-4

NOMINAL WETTING PATTERN
 12 ft x 12 ft COVERAGE AREA (OR LESS)
 4- 16" DEFLECTOR TO CEILING DISTANCE

16 gpm

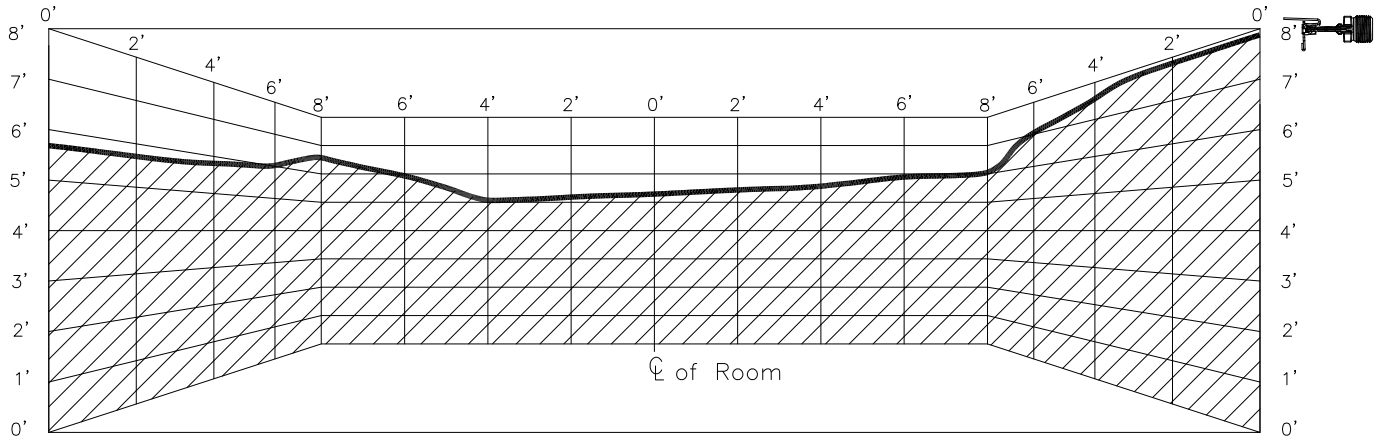


F1RES58_HSW-14x14-4

NOMINAL WETTING PATTERN
 14 ft x 14 ft COVERAGE AREA
 4- 6" DEFLECTOR TO CEILING DISTANCE

18 gpm

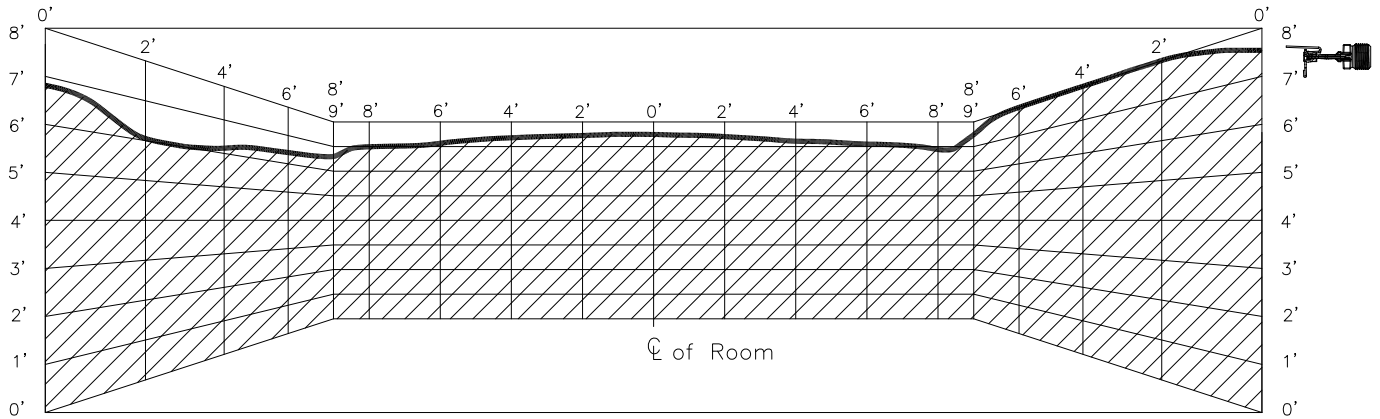
F1 Res 58 HSW & Recessed HSW/F2 (cont.):



F1RES58_HSW-16x16-4

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

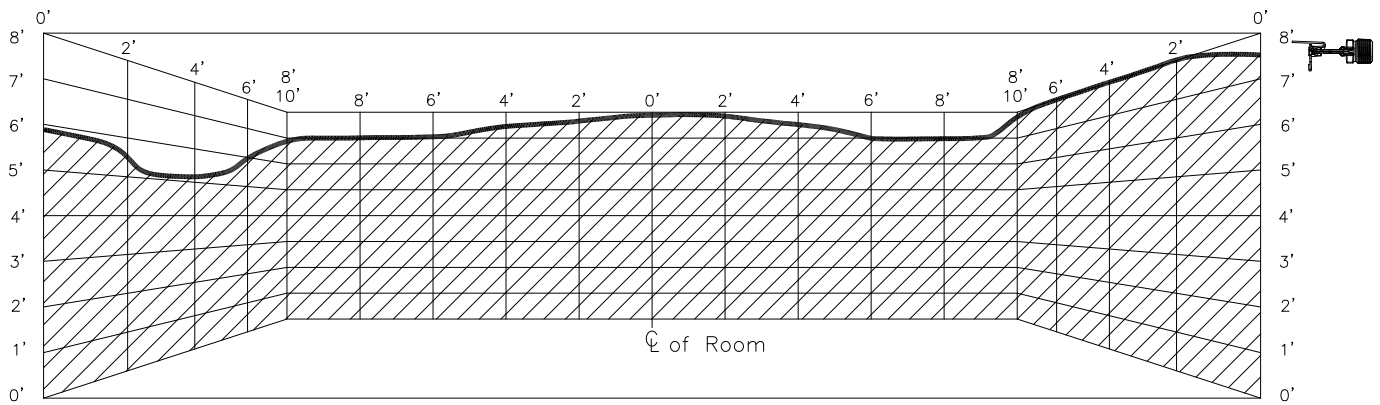
21 gpm



F1RES58_HSW-16x18-4

NOMINAL WETTING PATTERN
16 ft x 18 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

25 gpm

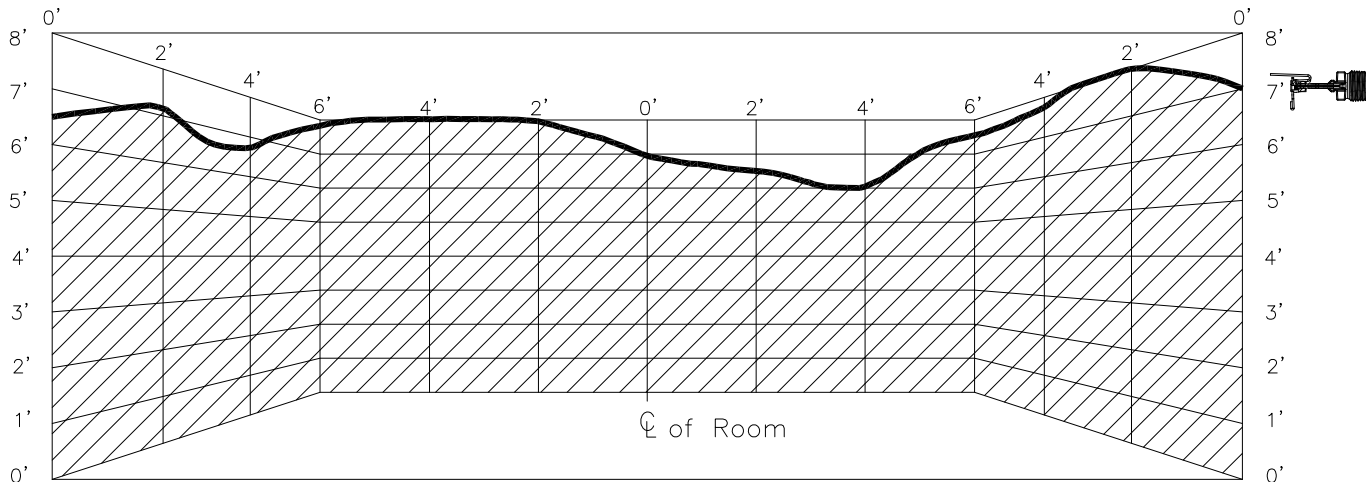


F1RES58_HSW-16x20-4

NOMINAL WETTING PATTERN
16 ft x 20 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

29 gpm

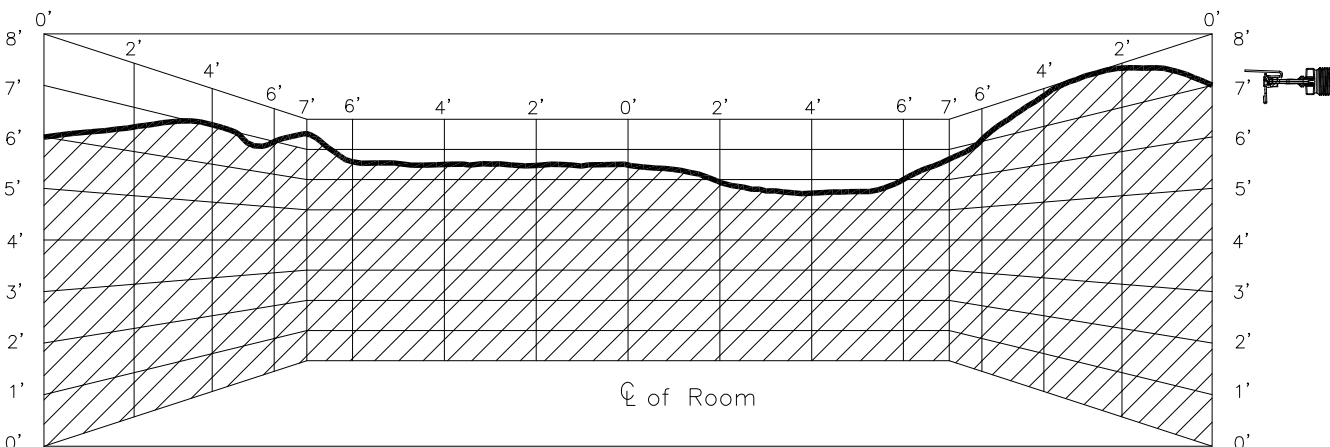
F1 Res 58 HSW & Recessed HSW/F2 (cont.):



F1RES58_HSW-12x12-6

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)
6 - 12" DEFLECTOR TO CEILING DISTANCE

22 gpm

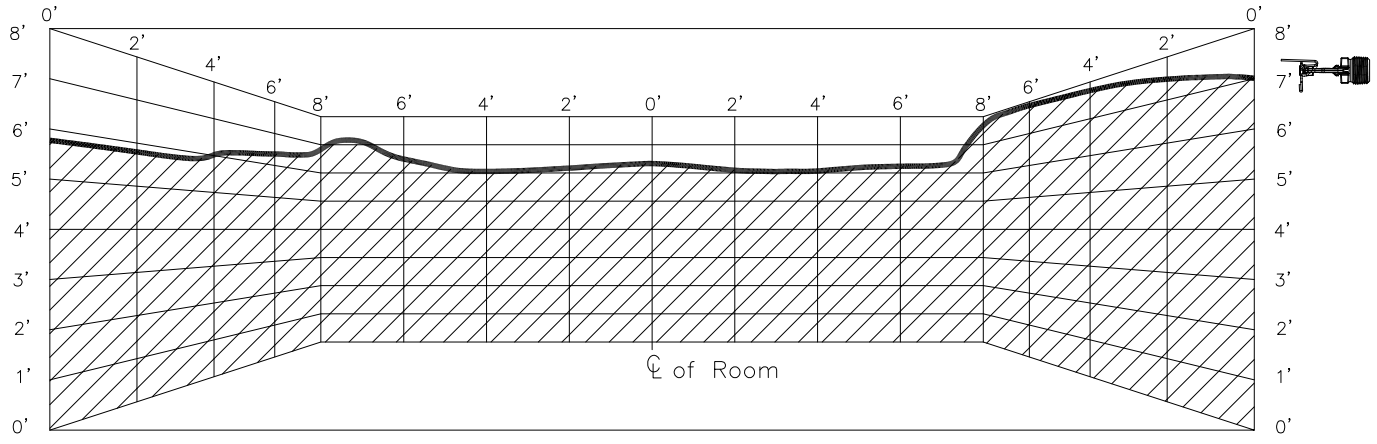


F1RES58_HSW-14x14-6

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA
6 - 12" DEFLECTOR TO CEILING DISTANCE

22 gpm

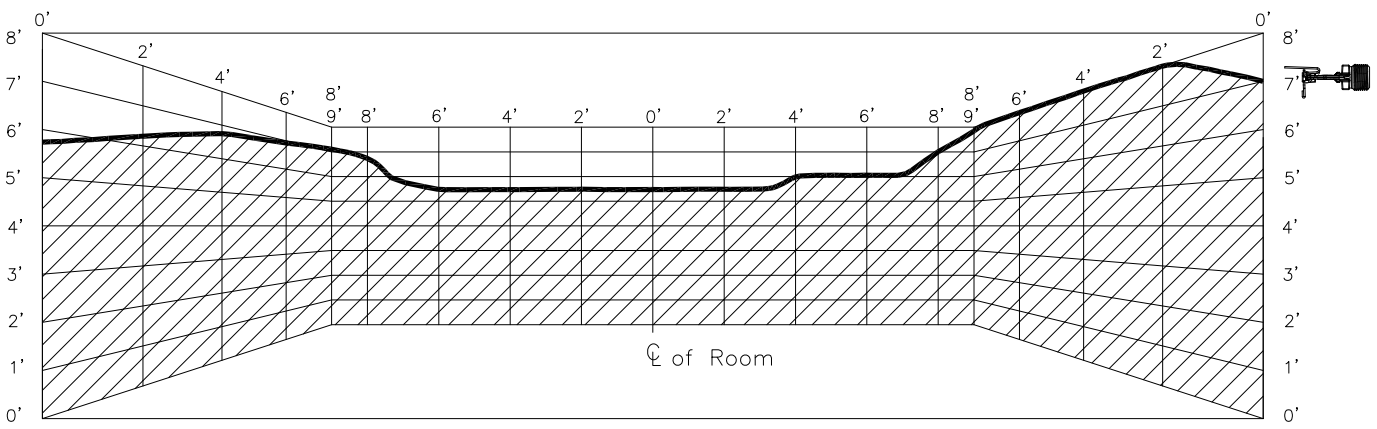
F1 Res 58 HSW & Recessed HSW/F2 (cont.):



F1RES58_HSW-16x16-6

NOMINAL WETTING PATTERN
 16 ft x 16 ft COVERAGE AREA
 6- 12" DEFLECTOR TO CEILING DISTANCE

26 gpm



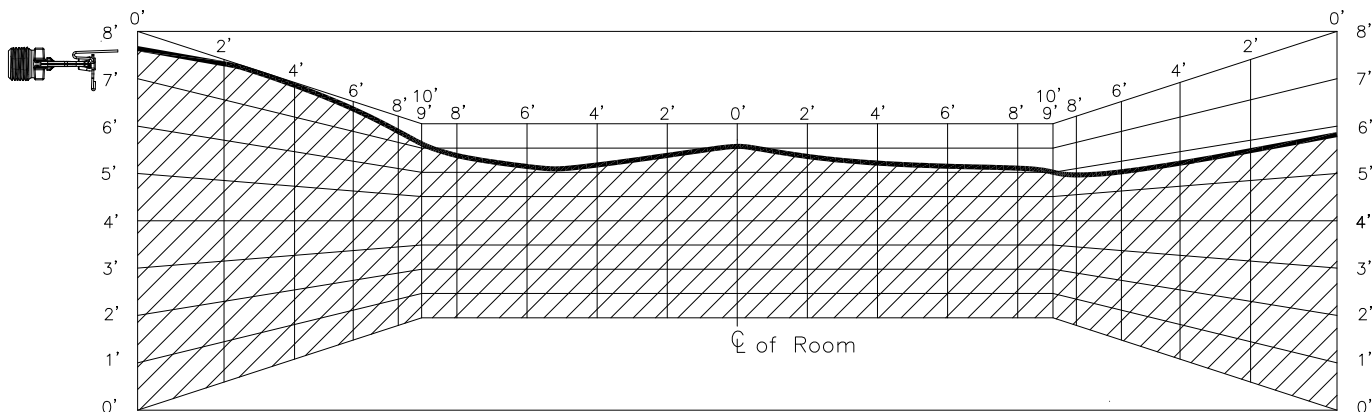
F1RES58_HSW-16x18-6

NOMINAL WETTING PATTERN
 16 ft x 18 ft COVERAGE AREA
 6- 12" DEFLECTOR TO CEILING DISTANCE

31 gpm

F1 Res 58 HSWX & Recessed HSWX/F2:

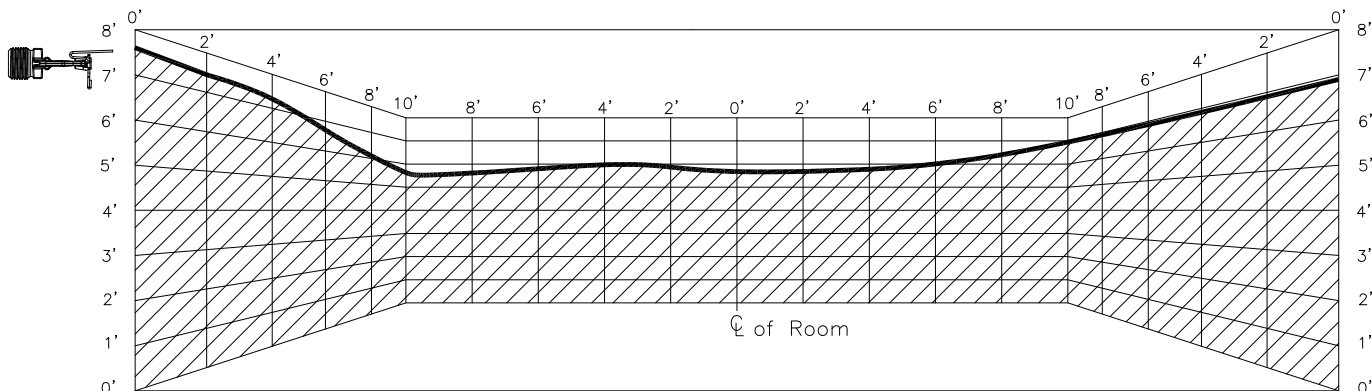
F1 Res 58 HSWX Recessed HSWX/F2



F1RES58HSWX_18_29

NOMINAL WETTING PATTERN
18 ft x 20 ft COVERAGE AREA (OR LESS)
4 - 16" DEFLECTOR TO CEILING DISTANCE

29 gpm

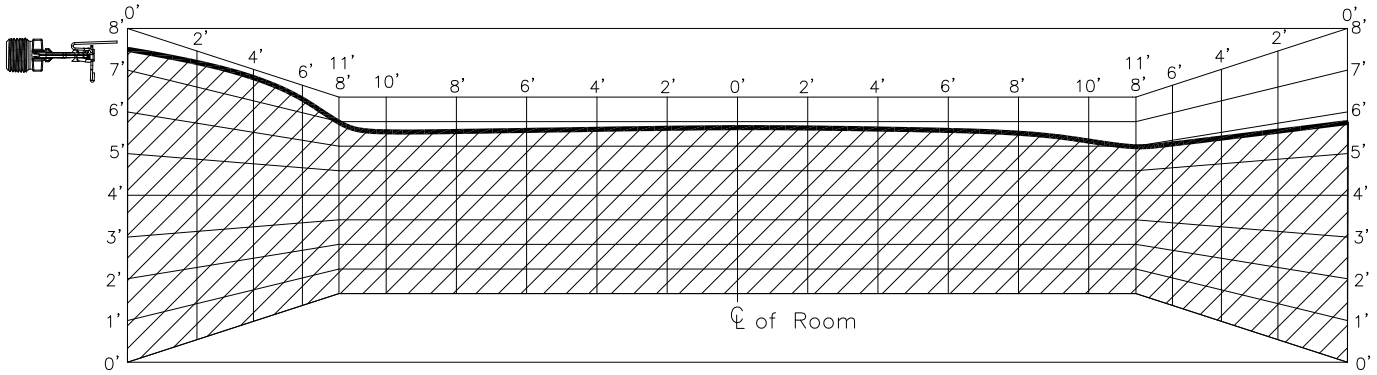


F1RES58HSWX_20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

30 gpm

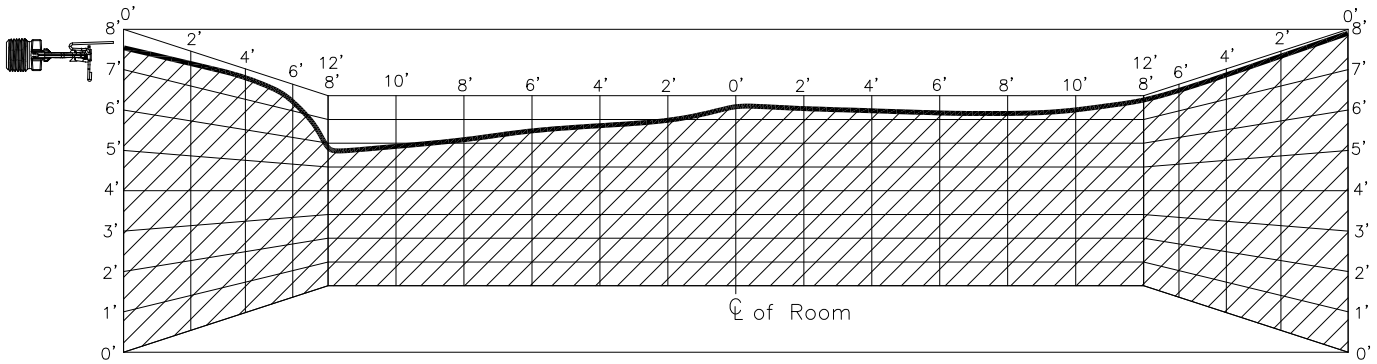
F1 Res 58 HSWX & Recessed HSWX/F2 (cont.):



F1RES58HSWX_16x22_33

NOMINAL WETTING PATTERN
16 ft x 22 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

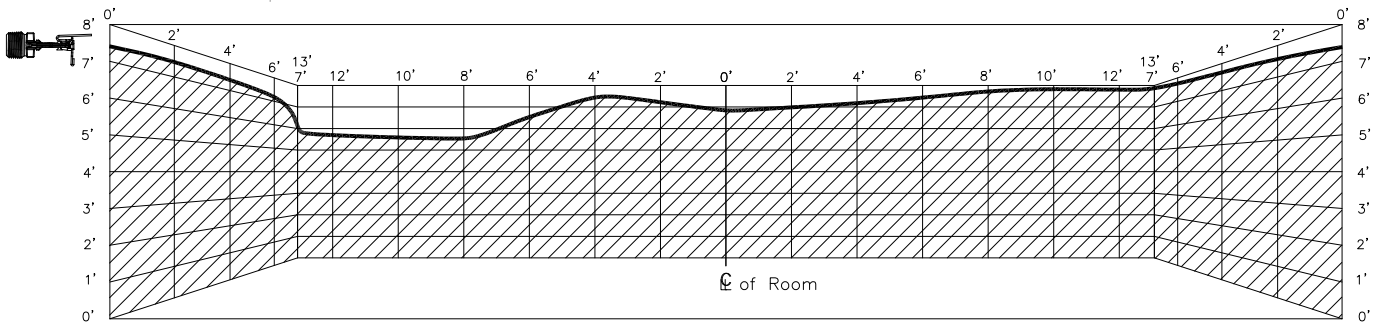
33 gpm



F1RES58HSWX_16x24_38

NOMINAL WETTING PATTERN
18 ft x 24 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

38 gpm

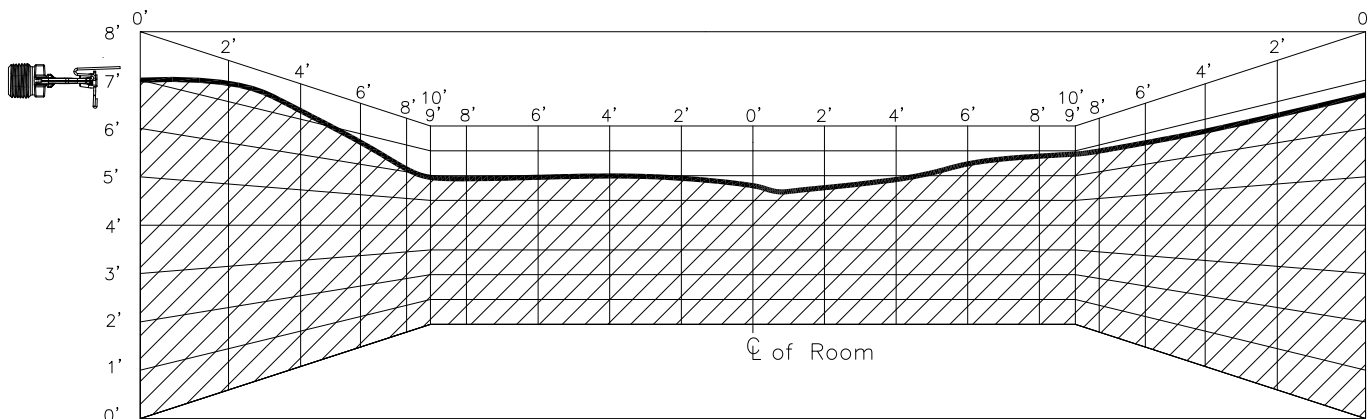


F1RES58HSWX_14x26_42

NOMINAL WETTING PATTERN
14 ft x 26 ft COVERAGE AREA
4 - 6" DEFLECTOR TO CEILING DISTANCE

47 gpm

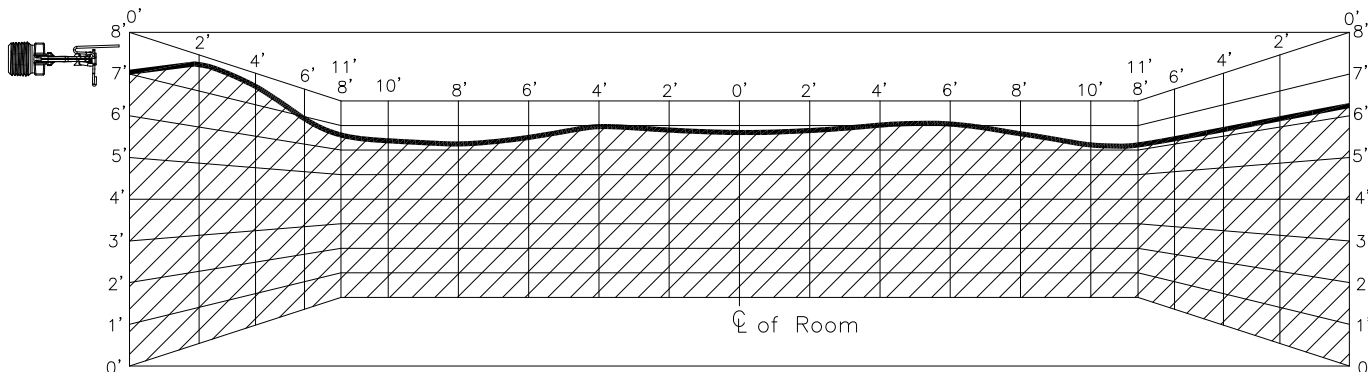
F1 Res 58 HSWX & Recessed HSWX/F2 (cont.):



F1RES58HSWX_18_35

NOMINAL WETTING PATTERN
18 ft x 20 ft COVERAGE AREA
6 - 12" DEFLECTOR TO CEILING DISTANCE

35 gpm

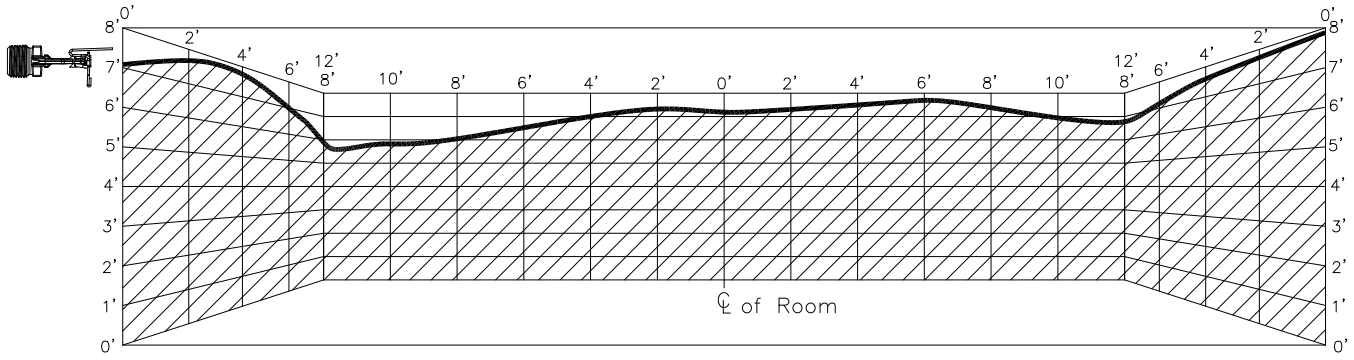


F1RES58HSWX_16x22_38

NOMINAL WETTING PATTERN
16 ft x 22 ft COVERAGE AREA
6 - 12" DEFLECTOR TO CEILING DISTANCE

38 gpm

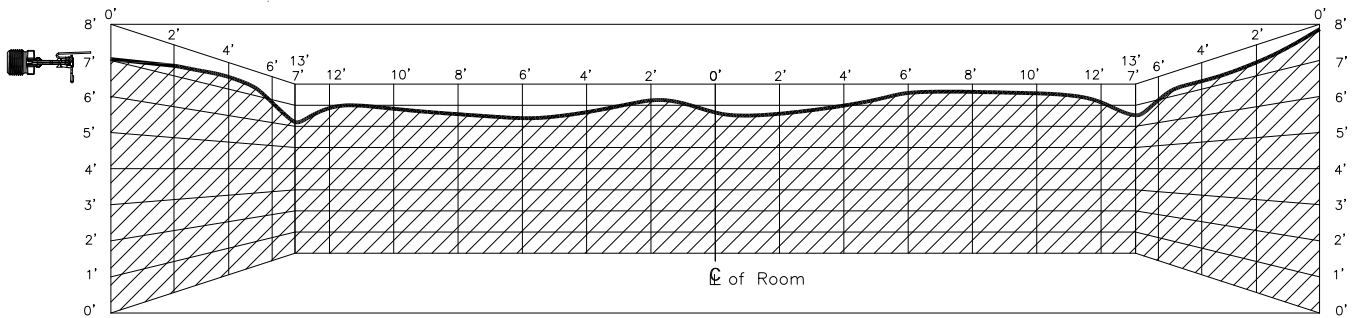
F1 Res 58 HSWX & Recessed HSWX/F2 (cont.):



F1RES58HSWX_16x24_42

NOMINAL WETTING PATTERN
 16 ft x 24 ft COVERAGE AREA
 6 - 12" DEFLECTOR TO CEILING DISTANCE

42 gpm



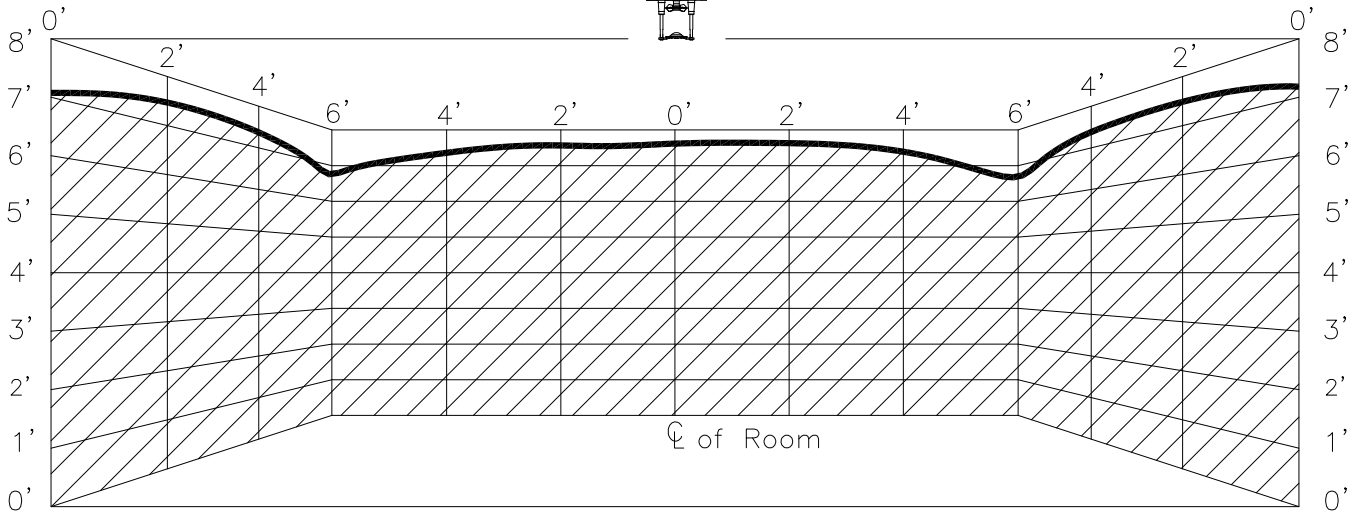
F1RES58HSWX_14x26_46

NOMINAL WETTING PATTERN
 14 ft x 26 ft COVERAGE AREA
 6 - 12" DEFLECTOR TO CEILING DISTANCE

46 gpm

RFC 30 Flat Concealed Pendant:

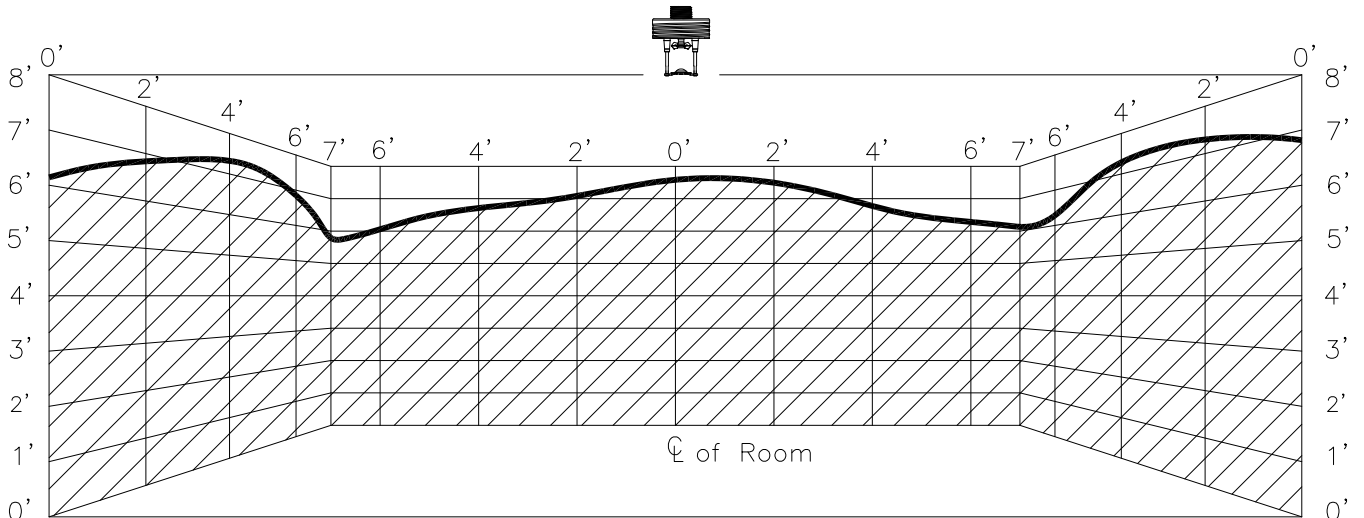
RFC 30 Flat Concealed Pendant



RFC30 FC PEND-12

RFC30 FLAT CONCEALED PENDENT
12 ft x 12 ft COVERAGE AREA

8 gpm



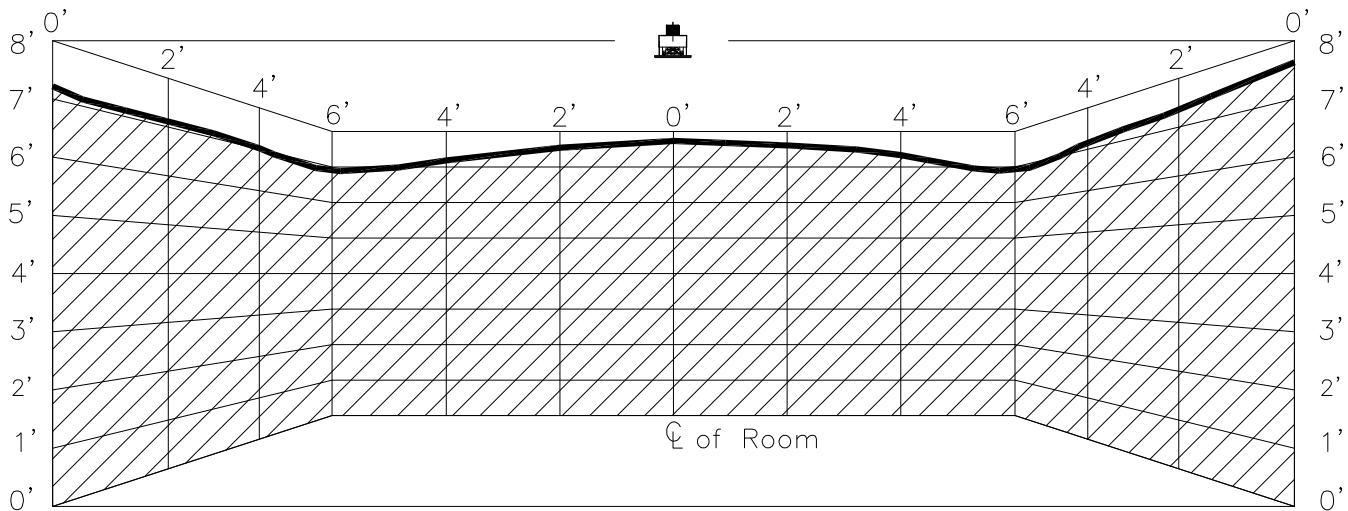
RFC30 FC PEND-14

RFC30 FLAT CONCEALED PENDENT
14 ft x 14 ft COVERAGE AREA

9 gpm

RFC 43 Flat Concealed Pendant Wetting Patterns:

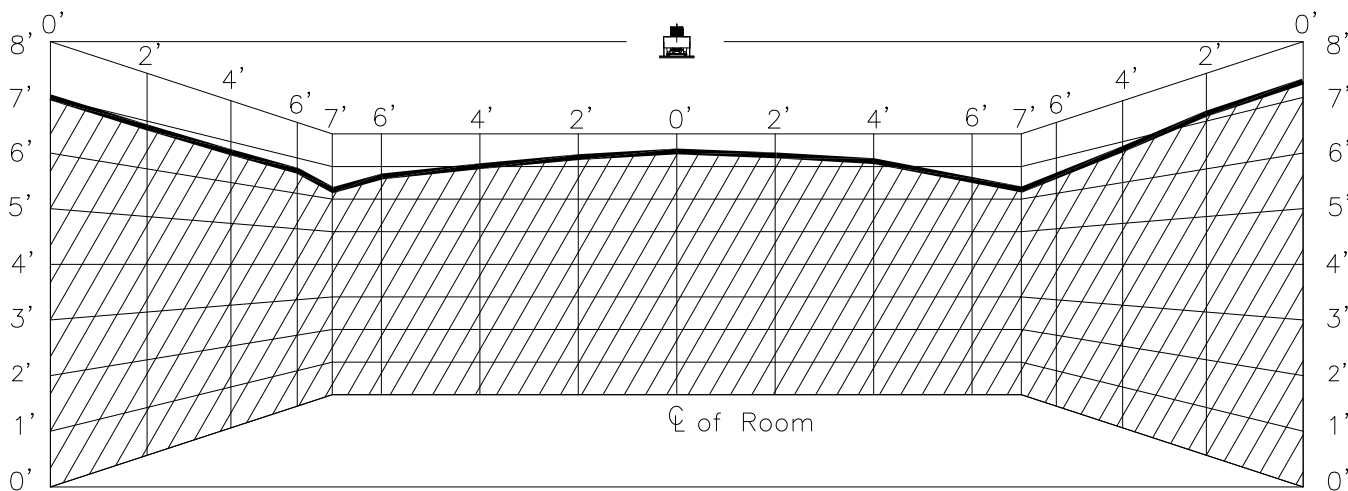
RFC 43 Flat Concealed Pendant



FILE NAME
RFC43-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

12 gpm

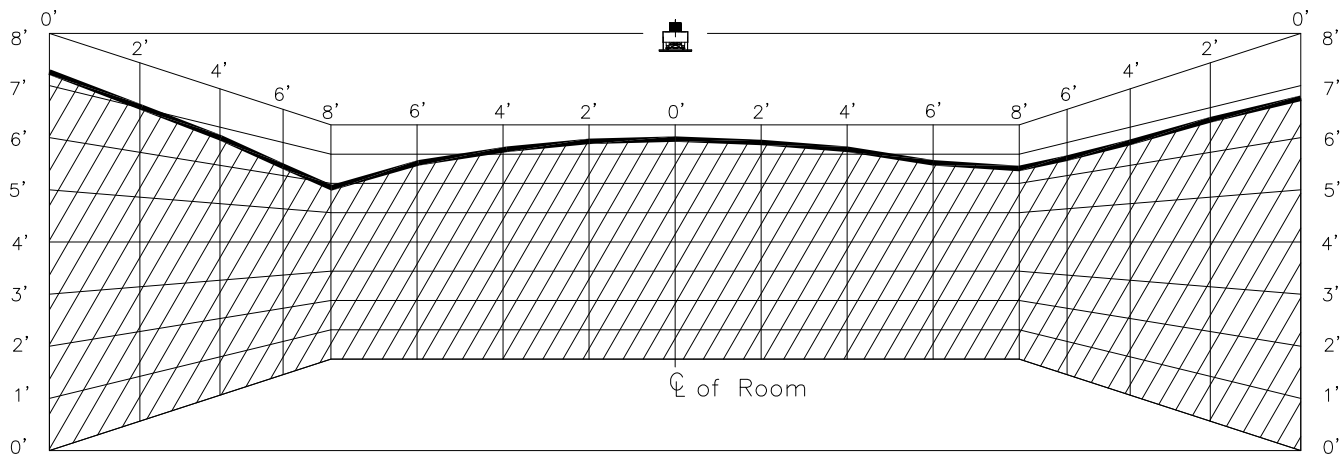


FILE NAME
RFC43-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

13 gpm

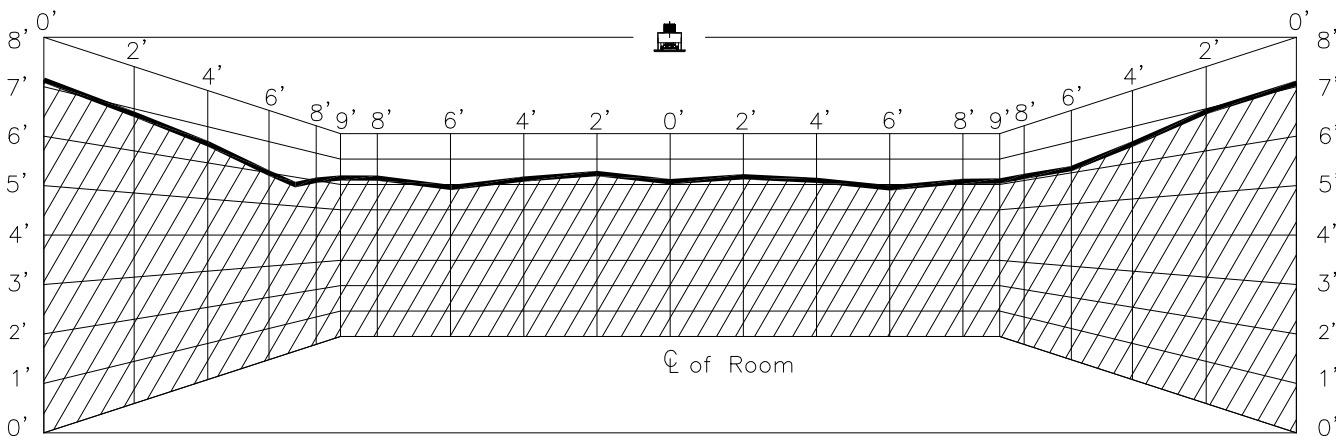
RFC 43 Flat Concealed Pendent Wetting Patterns (cont.):



FILE NAME
RFC43-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

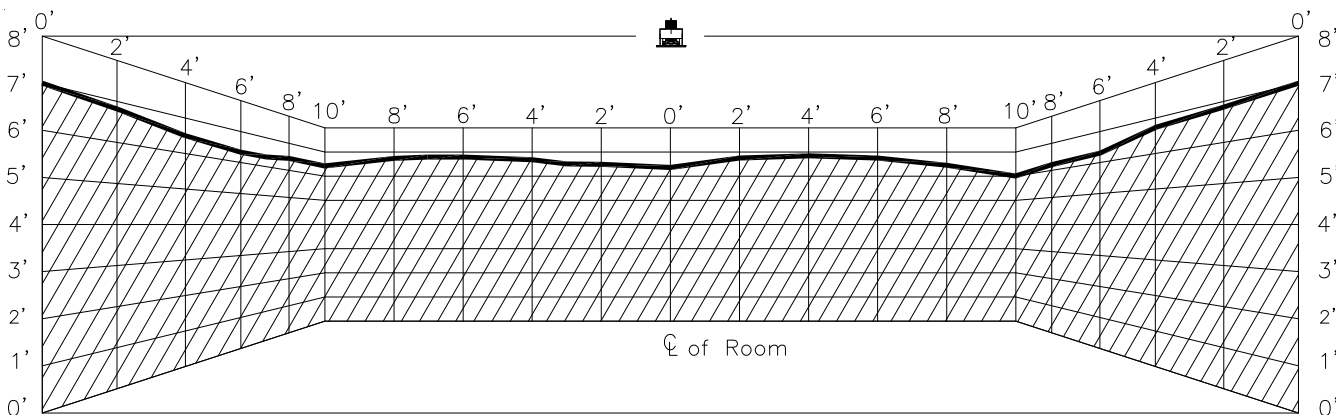
13 gpm



FILE NAME
RFC43-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

18 gpm



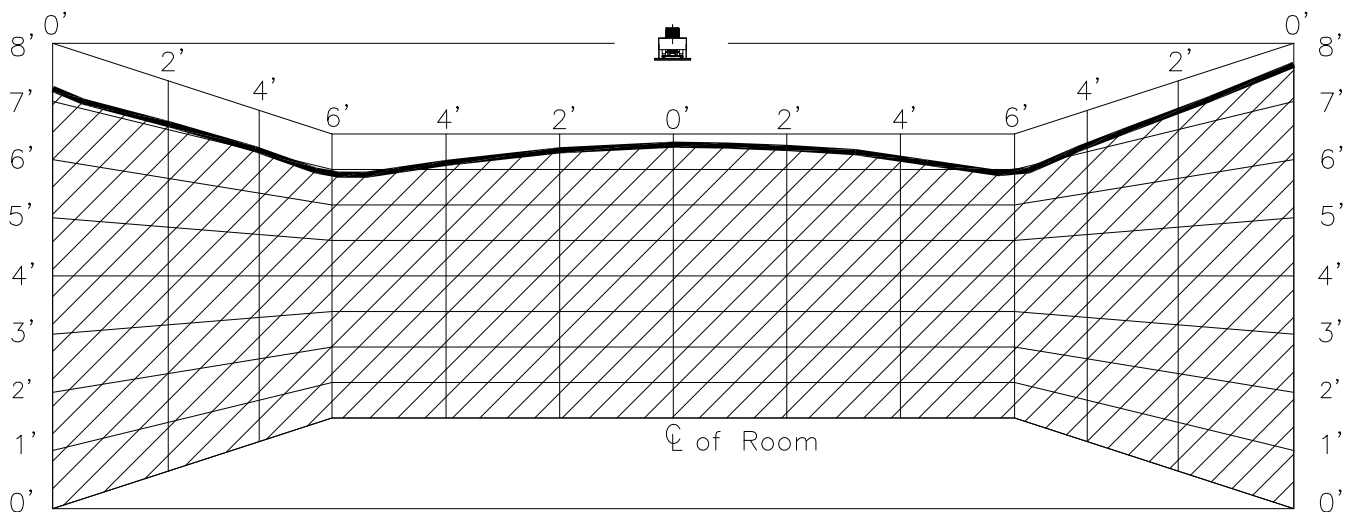
FILE NAME
RFC43-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

21 gpm

RFC 49 Flat Concealed Pendant Wetting Patterns:

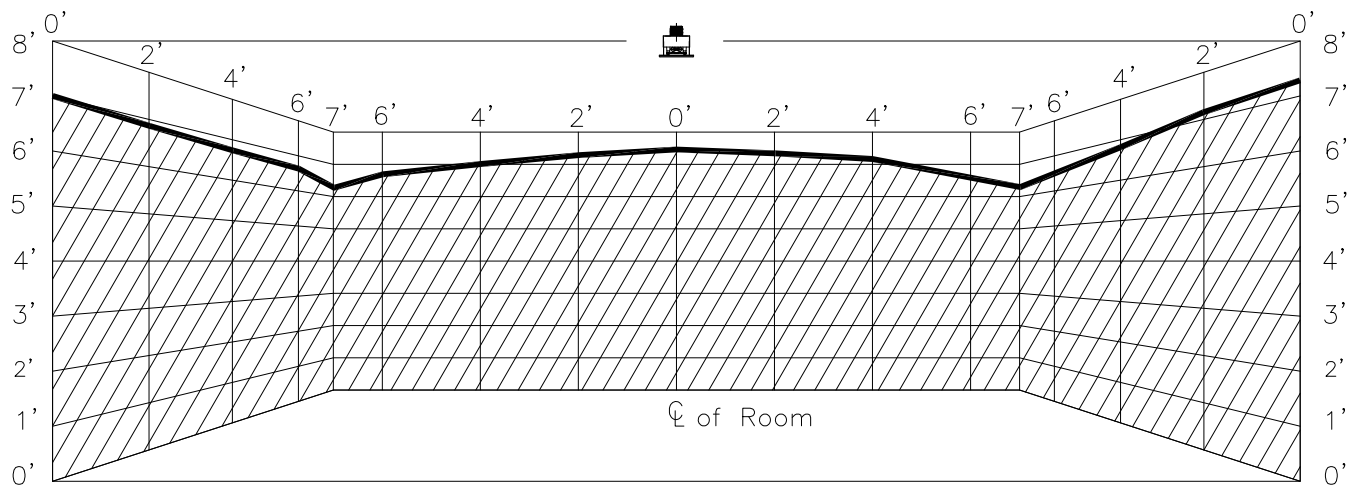
RFC 49 Flat Concealed Pendant



FILE NAME
RFC49-12

NOMINAL WETTING PATTERN
12 ft x 12 ft COVERAGE AREA (OR LESS)

13 gpm

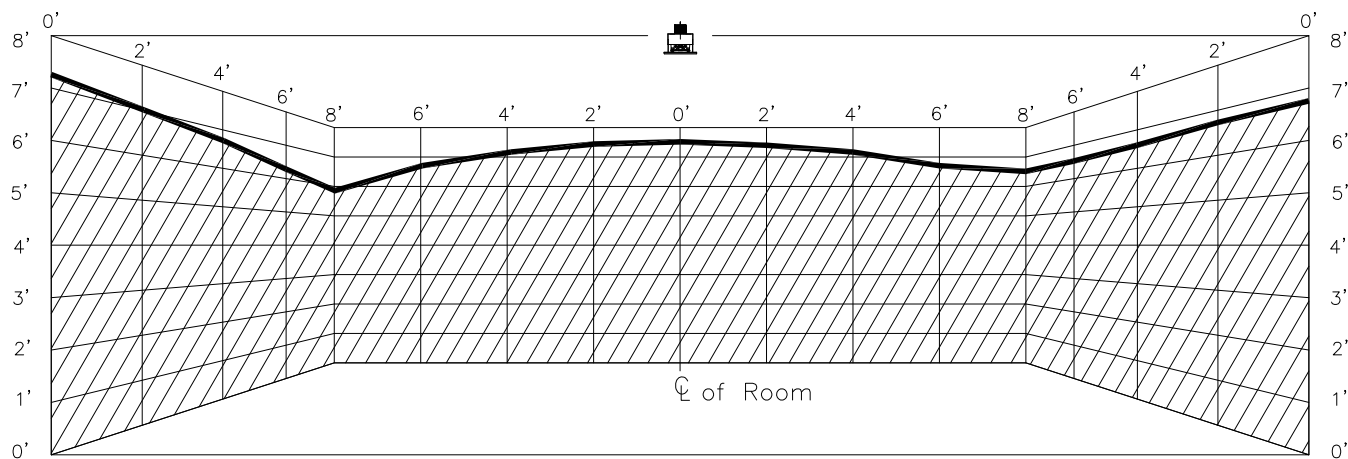


FILE NAME
RFC49-14

NOMINAL WETTING PATTERN
14 ft x 14 ft COVERAGE AREA

13 gpm

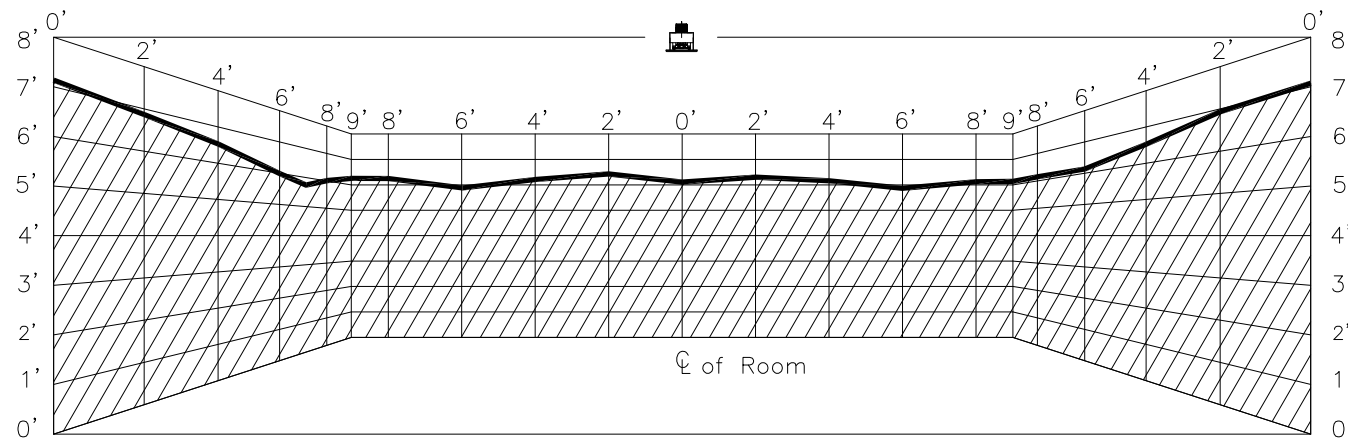
RFC 49 Flat Concealed Pendent Wetting Patterns (cont.):



FILE NAME
RFC49-16

NOMINAL WETTING PATTERN
16 ft x 16 ft COVERAGE AREA

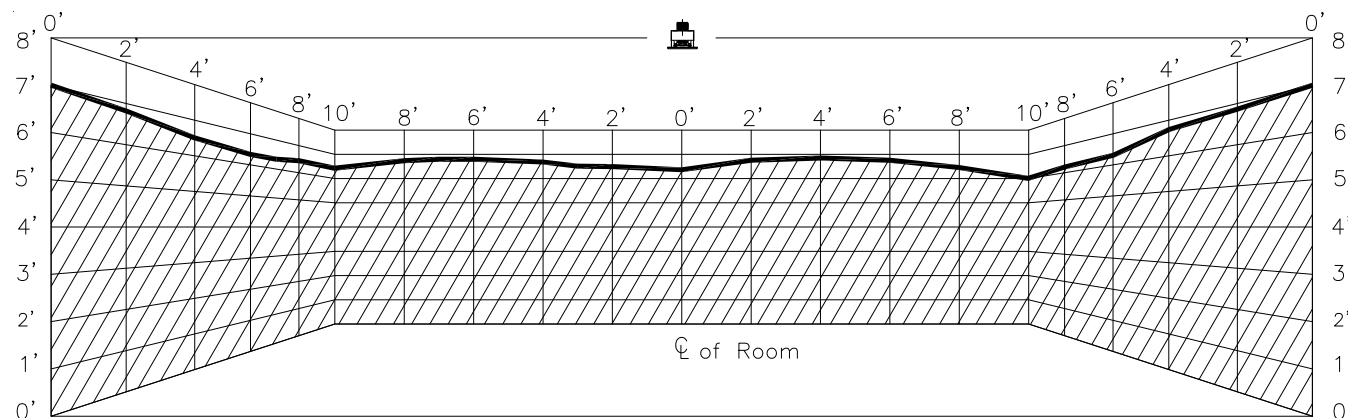
13 gpm



FILE NAME
RFC49-18

NOMINAL WETTING PATTERN
18 ft x 18 ft COVERAGE AREA

17 gpm



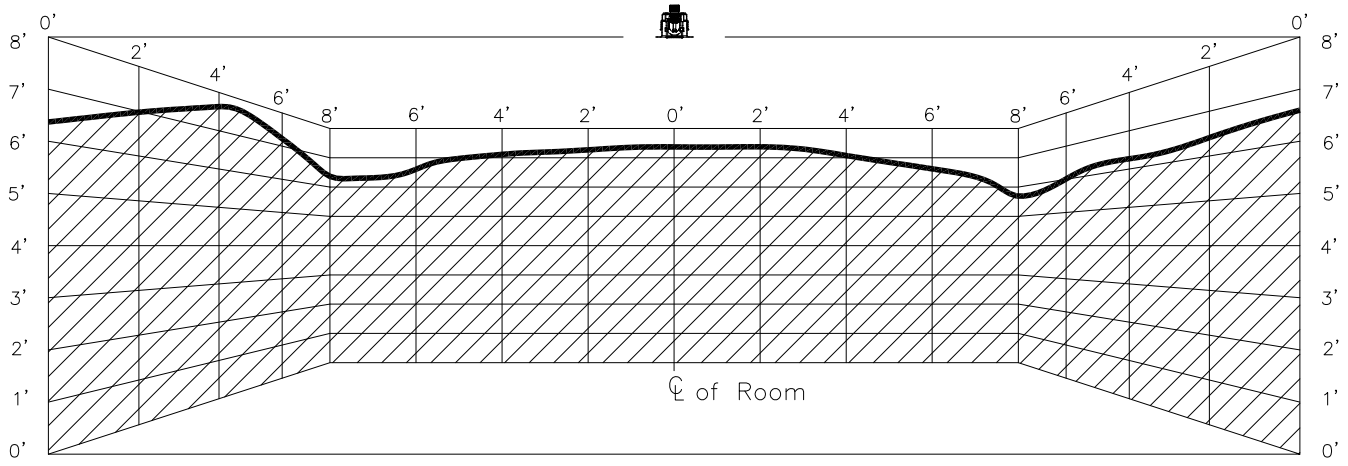
FILE NAME
RFC49-20

NOMINAL WETTING PATTERN
20 ft x 20 ft COVERAGE AREA

20 gpm

RFC 56 Flat Concealed Pendant:

RFC 56 Flat Concealed Pendant



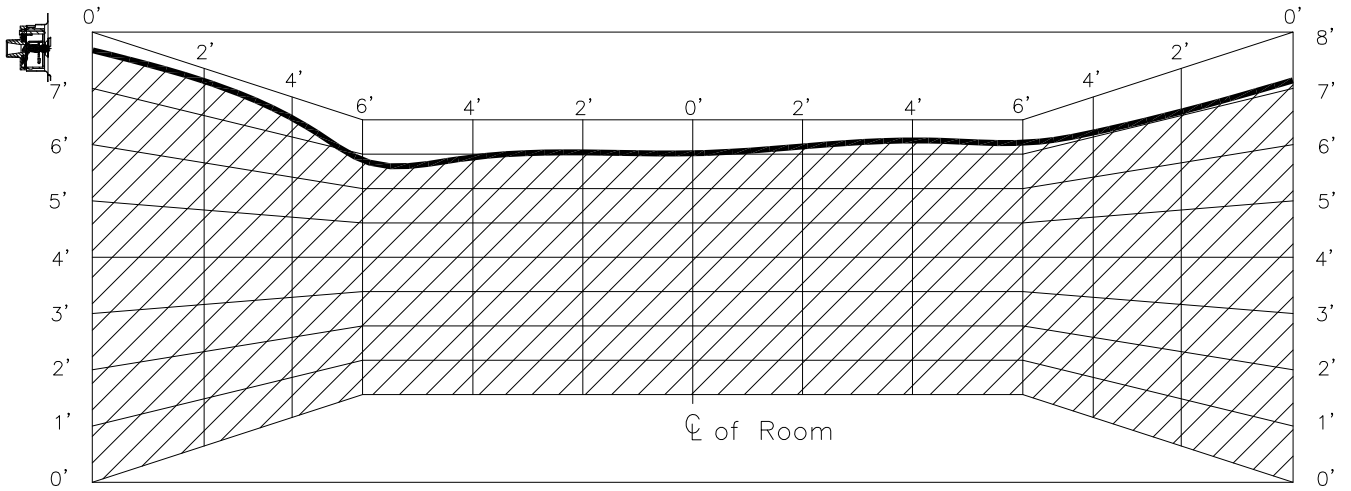
RFC56 PEND-16

RFC56 PENDENT
16 ft x 16 ft COVERAGE AREA

26 gpm

RFS 42 Flat HSW:

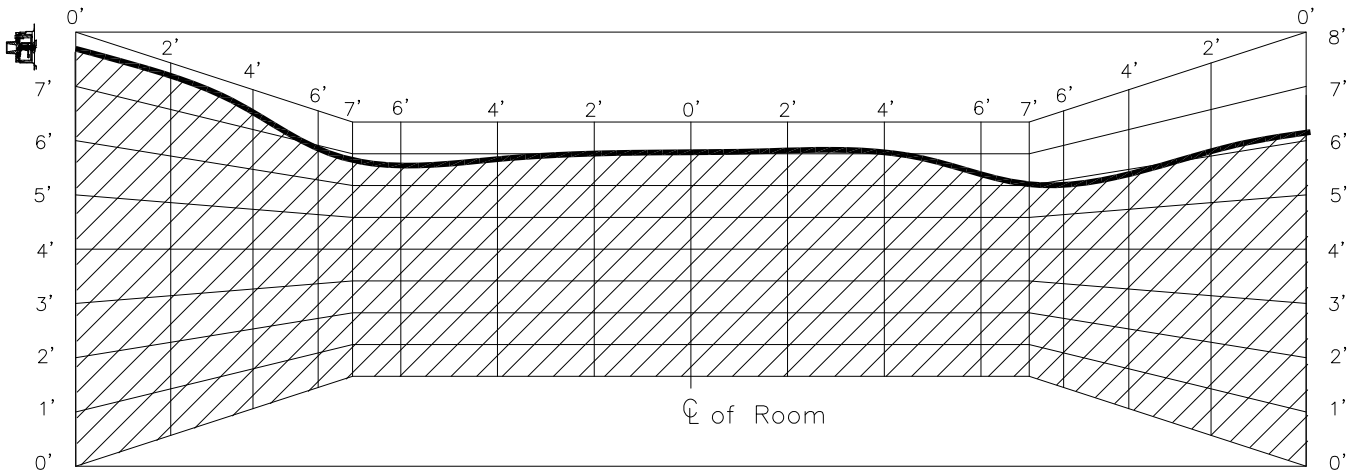
RFS 42 Flat HSW



RFS42_HSW-12x12-4

NOMINAL WETTING PATTERN
 12 ft x 12 ft COVERAGE AREA (OR LESS)
 4-6" DEFLECTOR TO CEILING DISTANCE

12 gpm

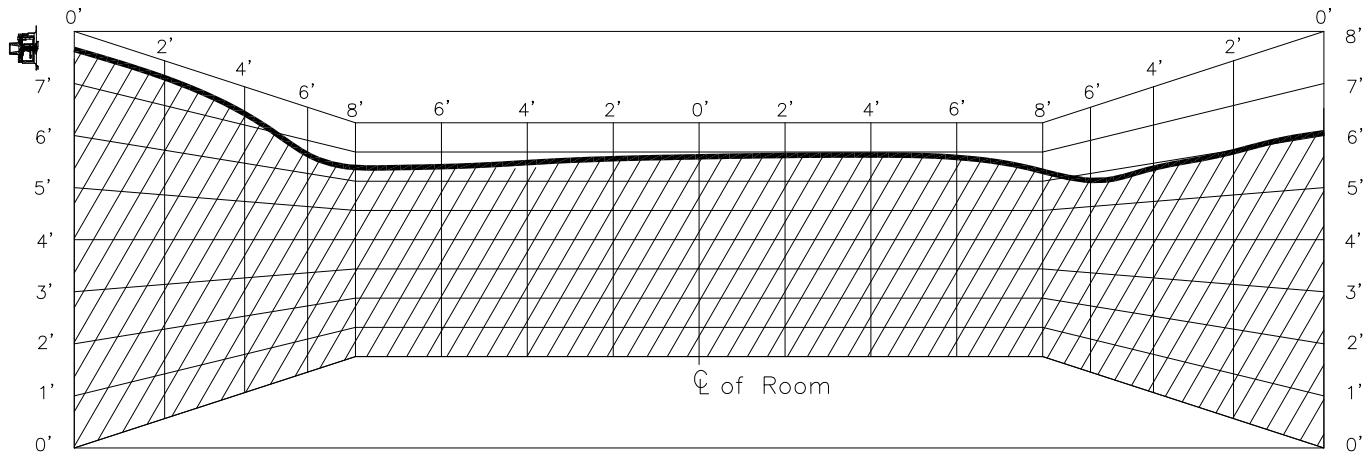


RFS42_HSW-14x14-4

NOMINAL WETTING PATTERN
 14 ft x 14 ft COVERAGE AREA (OR LESS)
 4-6" DEFLECTOR TO CEILING DISTANCE

12 gpm

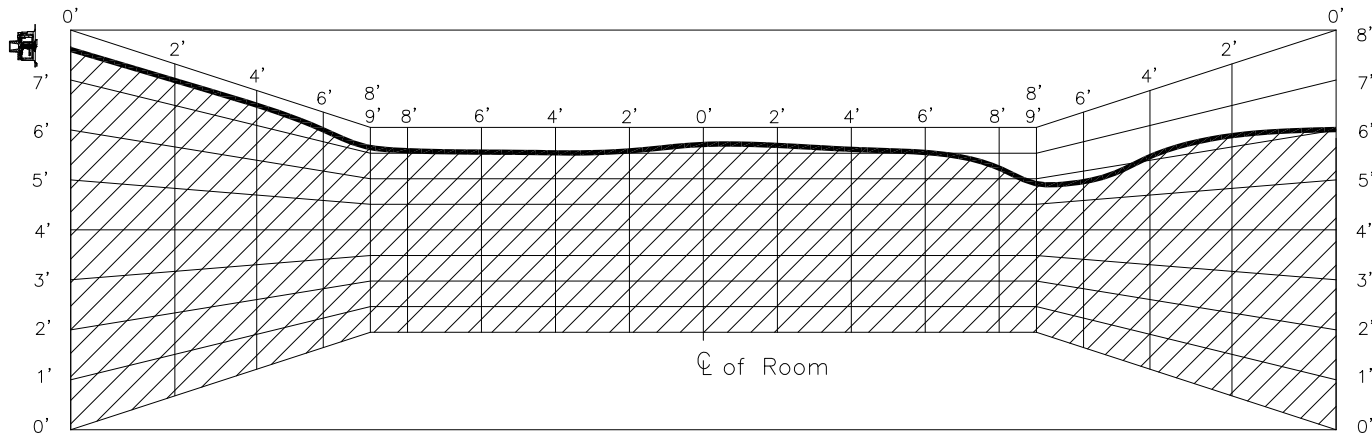
RFS 42 Flat HSW (cont.):



RFS42_HSW-16x16-4

NOMINAL WETTING PATTERN
 16 ft x 16 ft COVERAGE AREA
 4" DEFLECTOR TO CEILING DISTANCE

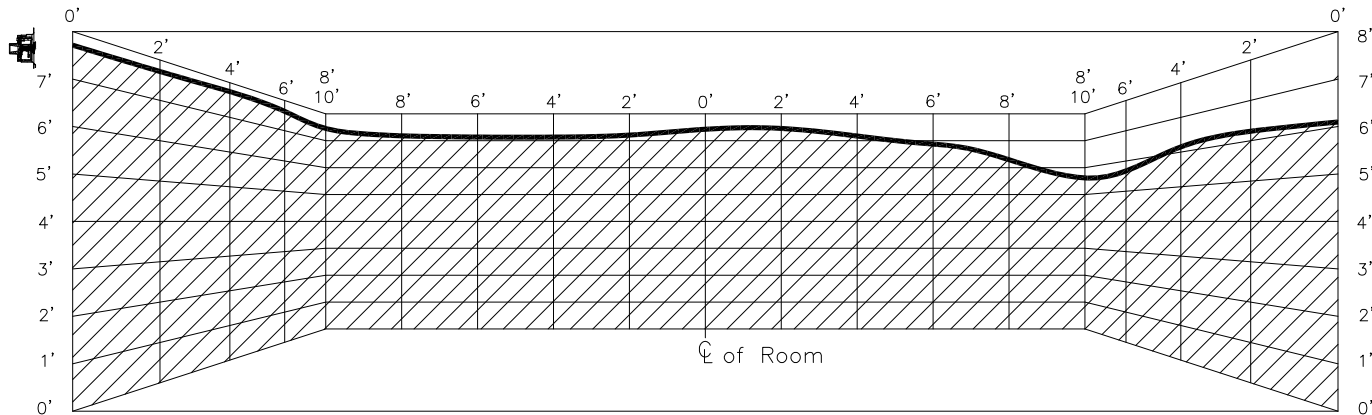
16 gpm



RFS42_HSW-16x18-4

NOMINAL WETTING PATTERN
 18 ft x 28 ft COVERAGE AREA
 4" DEFLECTOR TO CEILING DISTANCE

18 gpm

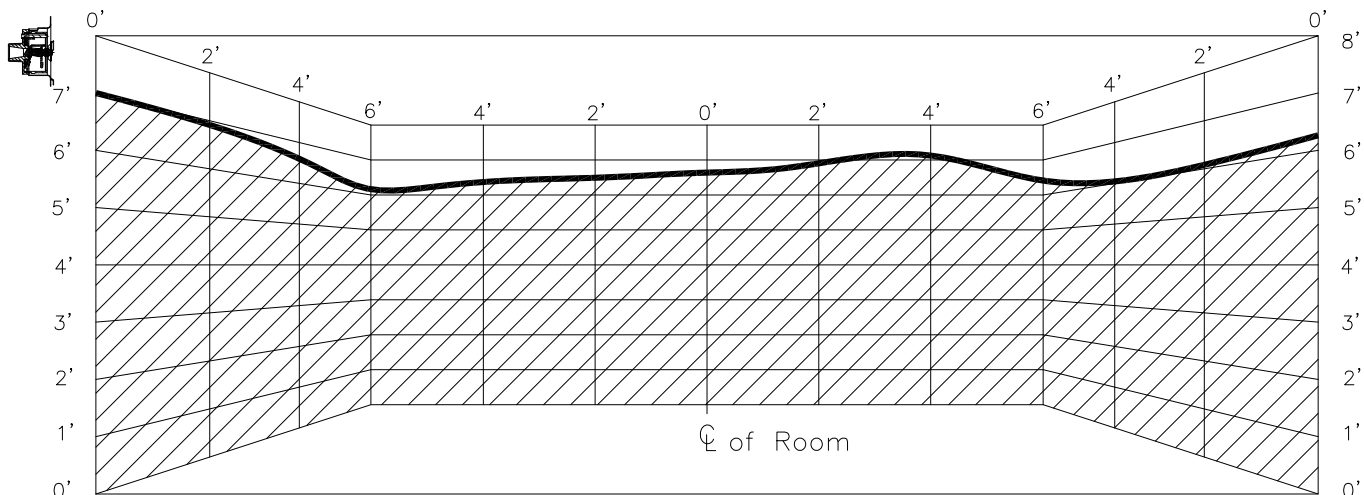


RFS42_HSW-16x20-4

NOMINAL WETTING PATTERN
 16 ft x 20 ft COVERAGE AREA
 4 - 6" DEFLECTOR TO CEILING DISTANCE

22 gpm

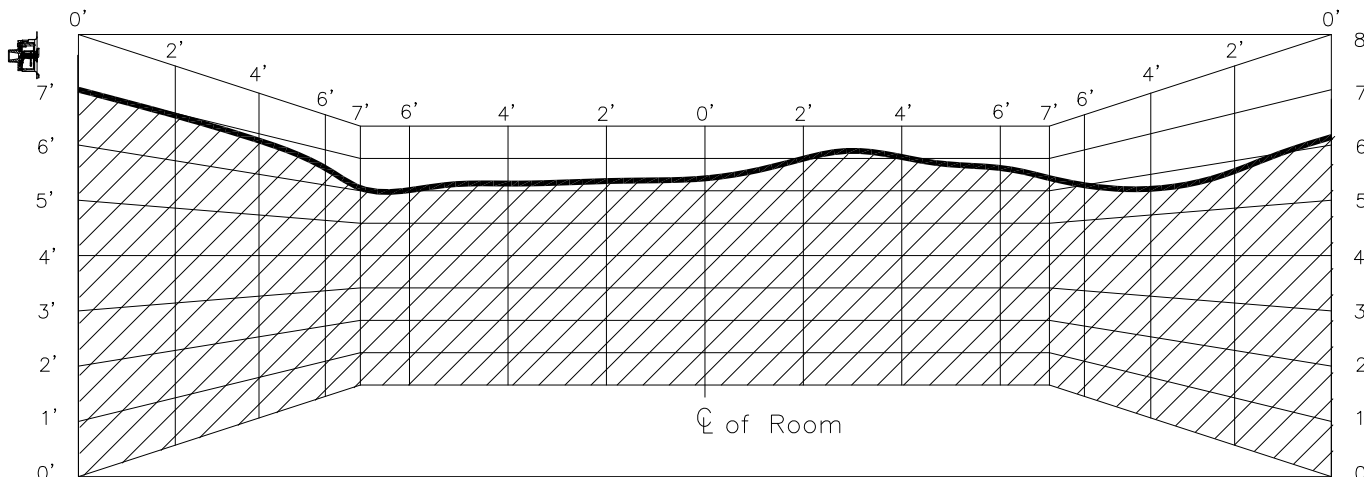
RFS 42 Flat HSW (cont.):



RFS42_HSW-12x12-12

NOMINAL WETTING PATTERN
 12 ft x 12 ft COVERAGE AREA
 6 - 12" DEFLECTOR TO CEILING DISTANCE

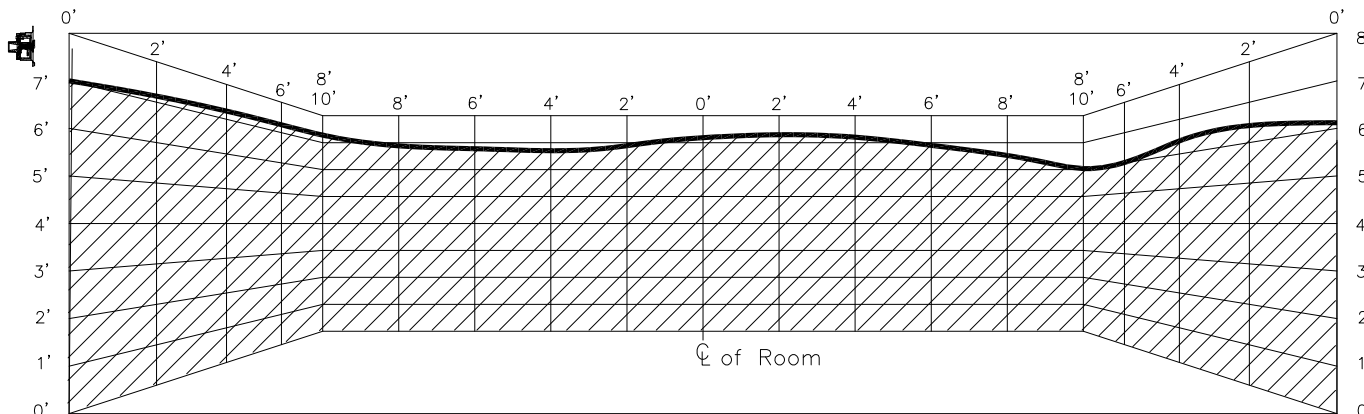
13 gpm



RFS42_HSW-14x14-12

NOMINAL WETTING PATTERN
 14 ft x 14 ft COVERAGE AREA
 6 - 12" DEFLECTOR TO CEILING DISTANCE

14 gpm

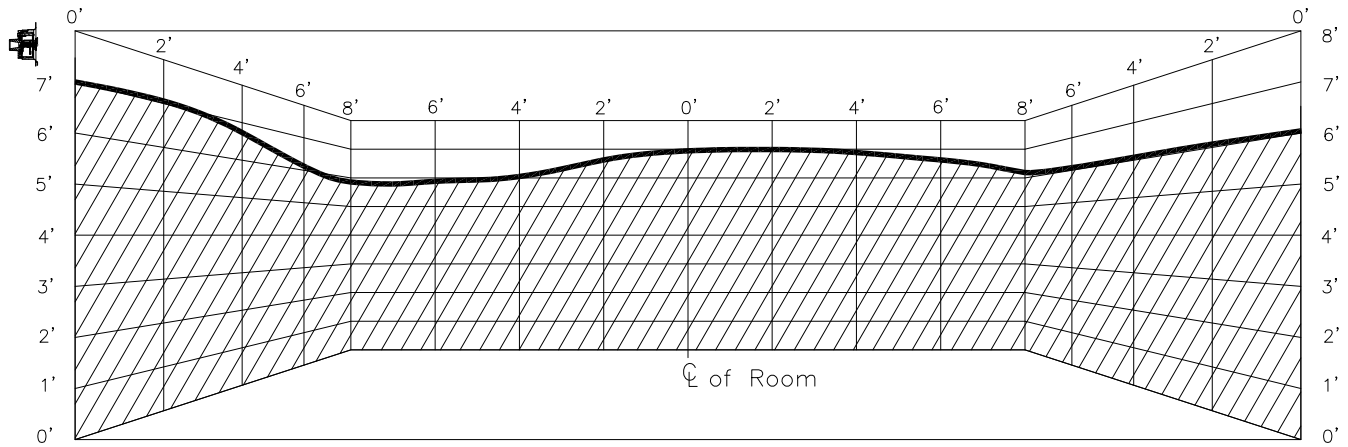


RFS42_HSW-16x20-12

NOMINAL WETTING PATTERN
 16 ft x 20 ft COVERAGE AREA
 6 - 12" DEFLECTOR TO CEILING DISTANCE

23 gpm

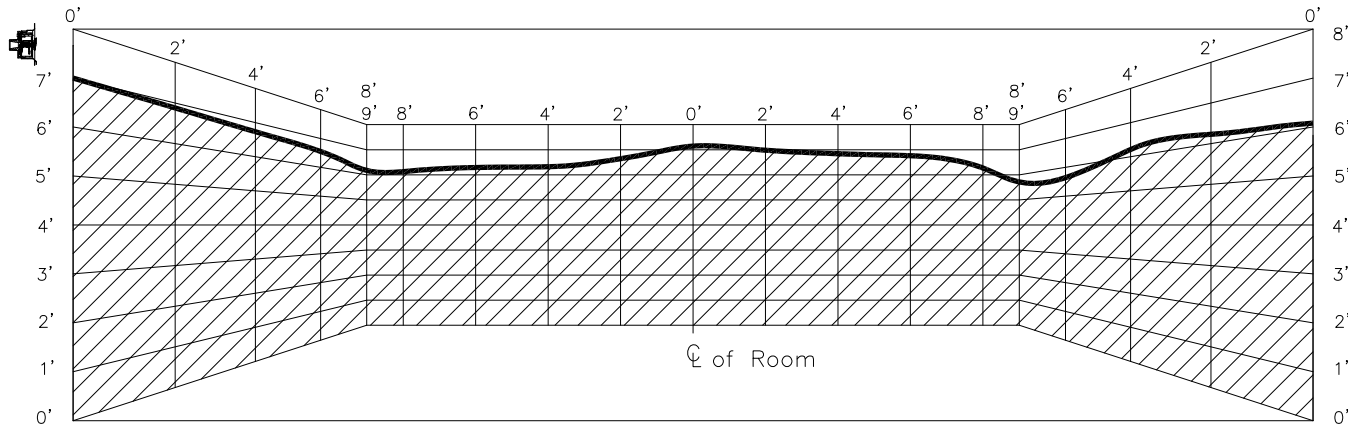
RFS 42 Flat HSW (cont.):



RFS42_HSW-16x16-12

NOMINAL WETTING PATTERN
 16 ft x 16 ft **COVERAGE AREA**
 12" DEFLECTOR TO CEILING DISTANCE

16 gpm



RFS42_HSW-16x18-12

NOMINAL WETTING PATTERN
 16 ft x 18 ft **COVERAGE AREA**
 12" DEFLECTOR TO CEILING DISTANCE

18 gpm

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. Products manufactured and distributed by Reliable have been protecting life and property for over 90 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

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