RSPA51 - Grille RSPA52 - Register RSPA53 - Grille with Fire Damper RSPA54 - Register with Fire Damper

Application

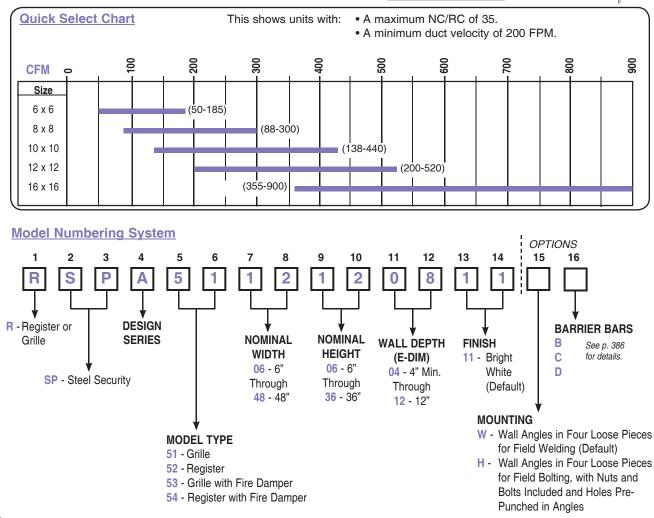
The RSPA 51 group is used in security applications where there is a concern that the occupant may attempt suicide. The 3/16" perforated hole pattern is designed to deter passage of any string through the face and back. This hole pattern also prevents any chance to hide contraband. This is not a substitute for proper security practices. Because of the perforated hole pattern, the opposed blade damper needs to be accessed from the back side.

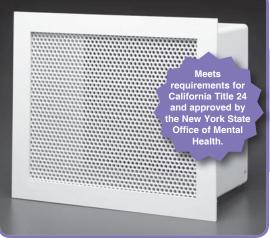
Standard Features

- Face and sleeve are 3/16" hot-rolled steel.
- Hole pattern is 3/16" round holes on staggered 9/32" centers.
- 2" x 2" x 3/16" wall angles are provided as standard, in four loose pieces for field welding.
- Standard finish is electrocoat acrylic baked enamel.
- Standard color is #11 bright white.
- Minimum wall depth for RSPA53 is 5", to conform to UL listing.
- Minimum wall depth for RSPA54 is 7", to conform to UL listing.

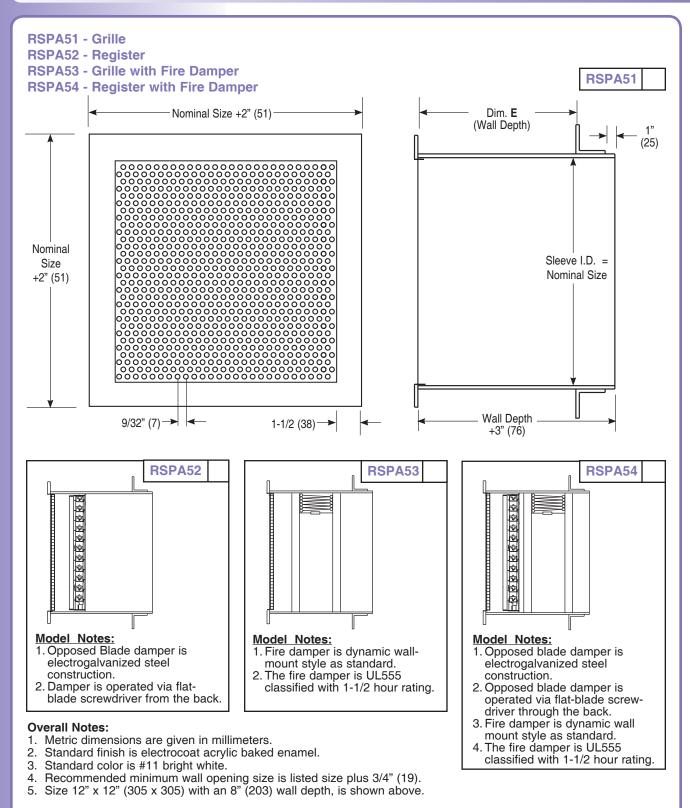
Optional Features

 When specified, Option "H" provides the wall angles in four loose pieces for field bolting, with mounting holes pre-punched in the angles, and security nuts and bolts provided.





DIMENSIONAL DATA | Sleeved Security R&G, Suicide Deterrent Core CARNES®



- 1. <u>Sleeve</u> and <u>Face Frame</u> are 3/16" (5) hot rolled steel. Perforated face has 3/16" (5) diameter holes on staggered 9 32" (7) centers.
- 2. <u>Wall Angles</u> are 2" x 2" x 3/16" (51 x 51 x 5) hot rolled steel. They are shipped in 4 pieces for field welding.

DISCLAIMER: Carnes Suicide Deterrent Grilles are designed to reduce the potential risk of suicide attempts and are designed to allow air flow through them to provide adequate ventilation to the space where used according to specifications. These products do not guarantee that they are suicide proof or that they cannot be used to inflict harm. Carnes warrants only the construction and performance in accordance to the specifications of the units as listed in its appropriate specification sheet.

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150

0.012

37

<10

5

66

<10

7

104

<10

8

150

<10

10

204

<10

12

266

<10

13

200

0.020

50

<10

8

88

<10

10

138

<10

13

200

<10

16

272

<10

18

355

<10

21

250

0.031

62

<10

10

111

<10

14

173

<10

17

250

11

21

340

12

24

444

14

27

300

0.048

75

11

12

133

14

15

208

16

20

300

18

24

408

19

27

533

20

31

350

0.062

87

15

14

155

18

19

243

20

23

350

22

29

476

23

33

622

24

38

787

25

42

972

26

47

1176

27

52

1400

27

57

Air Flow (CFM)	112	225	337	450	562	675
Sound (NC)	<10	<10	<10	<10	15	21
Throw (Ft.)	2	6	14	24	31	35
Air Flow (CFM)	138	277	416	555	694	833
Sound (NC)	<10	<10	<10	<10	16	22
Throw (Ft.)	2	7	17	26	34	39
Air Flow (CFM)	168	336	504	672	840	1008
Sound (NC)	<10	<10	<10	10	16	22
Throw (Ft.)	2	7	18	29	38	43
Air Flow (CFM)	200	400	600	800	1000	1200
Sound (NC)	<10	<10	<10	11	17	23
Throw (Ft.)	2	8	19	32	41	47

Notes on Performance Data

RSPA51 - Grille RSPA52 - Register

6" x 6"

(.25 ft²)

8" x 8"

(.44 ft²)

10" x 10"

12" x 12"

(1.00 ft²)

14" x 14"

(1.36 ft²)

16" x 16"

(1.78 ft2)

18" x 18"

(2.25 ft²)

20" x 20"

(2.78 ft²)

22" x 22"

(3.36 ft²)

24" x 24"

(4.00 ft²)

(.69 ft²)

RSPA53 - Grille with Fire Damper RSPA54 - Register with Fire Damper

Duct Velocity

Sound (NC)

Throw (Ft.)

Total Pressure

Air Flow (CFM)

50

0.001

12

<10

1

22

<10

1

34

<10

1

50

<10

2

68

<10

2

88

<10

2

100

0.005

25

<10

2

44

<10

3

69

<10

3

100

<10

4

136

<10

5

177

<10

5

- Performance data is based on tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.
- Actual performance in the field may vary.
- Tests were conducted in isothermal conditions.
- Sound levels are based on a room absorption of 10 db re 10⁻¹² watts.

Notes on Units of Measure Used

- Air flow is given in cubic feet per minute (CFM).
- Static Pressure is given in inches of water (w.g.).
- Sound data is given in NC.
- Throws are given in feet to terminal velocities of 150, 100 and 50 fpm, respectively.

OPTIONS | Security Diffusers, Registers and Grilles **CARNES**[®]

Option "H" - Mounting Angles for Field Bolting onto Wall R&G

Application

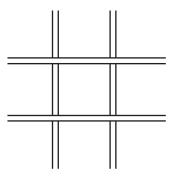
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Features

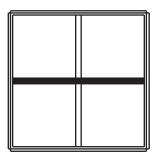
- Mounting angles are provided with holes punched on 6" centers.
- There are a minimum of 2 holes per mounting angle.
- The bolts provided are #1/4-20 x 1" snake-eyes head.
- The nuts provided are 1/4-20 self-locking hex nuts.

Barrier Bar Options

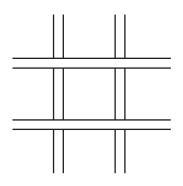
Option B - 1/2" round bar on 6" centers.



Option D - 3/4" round bar vertical on 6" centers through horizontal bars (3/8" x 2-1/2") on 12" centers. All intersections are welded.



Option C - 3/4" round bar on 6" centers.



Security Registers & Grilles