OVERVIEW | Sleeved Security R&G, Suicide Deterrent Core

Application
The RSPA41 group is used in security applications where there is concern that the occupant may attempt suicide. The double-bend louvers overlap to provide a core which makes it difficult to pass string or wire through. This is not a substitute for proper security practices. Because of the core design, access to a balancing damper is not possible, and so all balancing should be done via a duct-mounted damper.

Standard Features
- Face and sleeve are 12 gauge hot-rolled steel.
- Core has 12 gauge hot-rolled steel louvers, which are formed at two 90° angles, and placed on 3/8” centers.
- 1-1/2” x 1-1/2” x 1/8” 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 RSPA42 is 8”, 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.
- Stainless steel construction available upon request. Please contact factory for pricing and availability.

Quick Select Chart
This shows units with:
- A maximum NC/RC of 35.
- A minimum duct velocity of 200 FPM.

Model Numbering System
- R - Register or Grille
- SP - Steel Security
- 41 - Grille
- 42 - Grille with Fire Damper
- WALL DEPTH (E-DIM) 04 - 4” Min. Through 12 - 12”
- FINISH 11 - Bright White (Default)
- MOUNTING ANGLE CONFIGURATION
  - OPTIONS
    - W - Four Loose Pieces for Field Welding (Default)
    - B - See p. 386 for details.
    - H - Four Loose Pieces for Field Bolting, with Nuts and Bolts Included and Holes Pre-Punched in Angles

Meets NIC requirements for Suicide Prevention and approved by the New York State Office of Mental Health.
RSPA41 - Grille
RSPA42 - Grille with Fire Damper

Notes:
- Recommended wall opening size is listed size plus 3/4” (19).
- Metric dimensions are given in millimeters.
- Because of the special application for this product, there is a definite “up” when mounting this is a side wall.
- Fire damper on model RSPA42 is UL555 classified with 1-1/2 hour rating.
- Fire damper is dynamic wall mount style as shown.
- Minimum wall thickness for RSPA42 is 8” (203) to conform to UL requirements.

Notes on Construction:
1. Sleeve and Face are constructed of 12 gauge hot rolled steel.
2. Wall Angles are 1-1/2" x 1-1/2" x 1/8” (38 x 38 x 3) hot rolled steel. They are shipped in 4 pieces for field welding.
3. Core consists of:
   - 12 Gauge hot rolled steel louvers formed with 90° angles to created a “Z” shape.
   - Louvers are installed on 3/8” (10) centers, which provide a labyrinth to deter passage of a rope, twine or string.
### PERFORMANCE DATA | Sleeved Security R&G, Suicide Deterrent Core

#### RSPA41 - Grille
#### RSPA42 - Grille with Fire Damper

<table>
<thead>
<tr>
<th>Size</th>
<th>Nom. Size</th>
<th>Area (ft²)</th>
<th>Flow, cfm</th>
<th>Nom.</th>
<th>Total Press.</th>
<th>NC/RC</th>
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<tr>
<td>6&quot; x 6&quot;</td>
<td>.25</td>
<td></td>
<td>Flow, cfm</td>
<td>50</td>
<td>75</td>
<td>100</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Throw, ft.</td>
<td>10</td>
<td>13</td>
<td>15</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>NC/RC</td>
<td>10/12N</td>
<td>15/15H</td>
<td>20/20H</td>
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<tr>
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<td>178</td>
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<td></td>
<td></td>
<td>Throw, ft.</td>
<td>11</td>
<td>16</td>
<td>18</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>NC/RC</td>
<td>10/13N</td>
<td>16/16H</td>
<td>20/20H</td>
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<td>19</td>
<td>22</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>NC/RC</td>
<td>11/10N</td>
<td>14/15N</td>
<td>18/18H</td>
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<td>400</td>
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<td>23</td>
<td>26</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>NC/RC</td>
<td>11/11N</td>
<td>15/15H</td>
<td>19/19H</td>
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<td>31</td>
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<tr>
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<td></td>
<td></td>
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<td>16/16H</td>
<td>20/20H</td>
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<tr>
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<td></td>
<td></td>
<td>NC/RC</td>
<td>13/12N</td>
<td>18/18H</td>
<td>25/25H</td>
</tr>
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</table>

#### Notes on Performance Data
- Performance data is based on tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.
- Actual performance in the field may vary.
- Testing was conducted in isothermal conditions.
- Sound level values are based on a room absorption of 10db re 10⁻¹² watts.
- A “—” indicates an NC or RC value of less than 10.

#### Units of Measure Used
- Velocity is given in Feet per Minute (fpm).
- Pressure is given in Inches of Water (w.g.).
- Flows are given in Cubic Feet per Minute (CFM).
- Throw is given in feet to a terminal velocity of 50 fpm.
- Sound Data is given in both Noise Criteria (NC) and room criteria (RC). NC is first with RC second, separated by a slash.

#### Notes on the Throw:
- Because of the unique shape of the louver's, when used as a supply grille the standard (and fixed) discharge angle is 45°. The throw data provided above is measured along a 45° angle relative to the face of the grille.
- Care should be taken in placement of the grille and placement of the furniture in the occupied space so as to prevent excessive draft in the occupied zone.
Option “H” - Mounting Angles for Field Bolting onto Wall R&G

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.

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 C - 3/4” 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.