R-H 215 system
Rectangular panels / planks
<table>
<thead>
<tr>
<th>SPECIFICATION</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>System</strong></td>
<td>Armstrong ceiling system R-H 215, Hook-On solution with concealed grid, with optional revision opening Power Swing, suspension height min. 100 mm</td>
</tr>
<tr>
<td><strong>Panel material</strong></td>
<td>galvanized steel sheet panel width up to 400 mm 0.6 mm panel width from 401 mm 0.7 mm (aluminum or further materials on request)</td>
</tr>
<tr>
<td><strong>Coating</strong></td>
<td>RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request</td>
</tr>
<tr>
<td><strong>Execution</strong></td>
<td>rectangular panel square edged long sides CA / DA (40 - 55 mm) short sides E8 / F8 (12 mm)</td>
</tr>
<tr>
<td><strong>Gap solution</strong></td>
<td>3 mm gap, with black gasket on one long and one short side</td>
</tr>
<tr>
<td><strong>Acoustic inlay</strong></td>
<td>Black non-woven acoustic fleece as standard. Other options available on request.</td>
</tr>
<tr>
<td><strong>Standard modules</strong></td>
<td>1600 x 400 mm 2100 x 400 mm 2400 x 400 mm 2700 x 400 mm 3000 x 400 mm</td>
</tr>
<tr>
<td><strong>Configurable dimensions</strong></td>
<td>panel length (A) 600 - 3000 mm panel width (B) 275 - 1350 mm</td>
</tr>
<tr>
<td><strong>Grid system</strong></td>
<td>GemaGrid® system in combination with H-profile S5, security bracket optional available, further suspension methods on request</td>
</tr>
</tbody>
</table>

**Perimeter solution** | Range of standards trims in steel and aluminium plus custom bulkheads available. |
**Service integration** | standard round or rectangular cut-outs plus customized options on request. |
**Special capabilities** | - trapezoidal panel solution - curved panel solution - segmented vault or wave ceiling solution - can be combined with other Armstrong products |

### BENEFITS
- Versatile system and simple design
- Concealed grid for a monolithic effect
- Good acoustic properties
- Ease of installation (alignment) and fully demountable

### APPLICATION AREA
- Suitable for large open plan / circulation areas

### STANDARD PERFORATION PATTERNS

- **Extra Microperforation**
  - **Rg 0701**
  - Hole diameter: 0.7 mm
  - Free area: 1.5 %
- **Microperforation**
  - **Rd 1522**
  - Hole diameter: 1.5 mm
  - Open area: 22 %
- **Standard Perforation**
  - **Rg 2516**
  - Hole diameter: 2.5 mm
  - Open area: 16 %

Other perforation patterns available on request.

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**PROJECT:** Library in the Teology University of Jan Pawel II (PL)  
**ARCHITECT:** K. Ingarden, J. Ewy Architekci Sp. z o.o.  
**SOLUTION:** R-H 215 Plain with Special Perforations (RAL 9007)
**ACOUSTIC PERFORMANCE**
Metal ceiling systems have been tested for their acoustic performance of sound absorption. All perforated products can be supplied with a variety of factory fitted acoustic infill options. Please contact us for more information.

**THERMAL CONDUCTIVITY**
(\( \lambda \)) W/mK
- Steel: 0.04
- Acoustic fleece

**HUMIDITY EXPOSURE**
Up to 95% RH (for short term exposure).

**SERVICES INTEGRATION**
Metal panels can be supplied with factory produced cut outs and apertures for the integration of building services equipment.

**CLEANING**
Dust should be removed from the painted surface by wiping with a clean soft cloth. More stubborn marks should be removed with a mild household detergent in warm water. Excessive use of water should be avoided. The use of abrasive cleaners on the painted surface is not recommended.

**COLOUR**

<table>
<thead>
<tr>
<th>Standard colours</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL 9010 (20%)</td>
<td></td>
</tr>
<tr>
<td>Global White (30%)</td>
<td></td>
</tr>
<tr>
<td>RAL 9006 (30%)</td>
<td></td>
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<tr>
<td>RAL 9007 (30%)</td>
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</tbody>
</table>

**Special colours**
Other RAL and NCS colours available on request

**QUALITY STANDARD**
Armstrong is a certified EN ISO 9001:2008 Quality Assumed Manufacturer. All Armstrong ceiling and grid systems are manufactured to the relevant tolerances and quality standards appropriate to material. Where differences exist between this and any expressed or implied architectural specifications or requirements then Armstrong’s manufacturing standards will prevail unless stated otherwise.

**ENVIRONMENTAL**
Our metal panels have an average of up to 30% recycling content. Our European manufacturing plants are certified to: ISo 14001:2004 + cor. 1:2009 Armstrong is a member of TAIM (Technical Association of Industrial Metal Ceilings).

**Sustainability**
- Recycled content (%)
- Light reflectance (%)
- Sound absorption class
- VOC (g/l) or (mg/kg)
- Dec / Defo (sec)
- Fire reaction
- Acoustic resistance (NRC)
- Sound resistance (Rh)
- Durability
- Bioguard paint option
- Scratch resistance

**Longitudinal-Section**
- Item No.: BPM 310120
  - Designation: U-profile
- Item No.: BPM 310119
  - Designation: Connector for U-profile
- Item No.: BPM 310140
  - Designation: Wall anchor
- Item No.: BPM 310121
  - Designation: Clamping bracket
- Item No.: BPM 311151
  - Designation: Expansion bolt M6 x 50 mm
- Item No.: BPM 311099
  - Designation: Threaded rod M6 x 1000 mm
- Item No.: BPM 311108
  - Designation: Hexagonal nut M8
- Item No.: BPM 311105
  - Designation: Washer M8 x 18 x 1.8 mm
- Item No.: BPM 300216
  - Designation: Security bracket
PROjECT: Birmingham Airport (UK) :::: ARCHITECT: D5 Architects LLP

SOLUTION: R-H 215 Plain (RAL 9010)

detail a

R-H 215 panel

Fall 8
Fall 8
Fall A
Fall A

detail B

R-H 215 Power Sealing panel

Fall A
Fall 2
Fall A
Fall 2

For further information about the edge detail execution of metal tiles, please see the Metal Edge Detail Execution datasheet.

detail C

grid system

expansion bolt M8
threaded rod M8
clamping bracket
plug-in clip

wall anchor
connector for H-profile 35

detail D

security bracket

H-profile 35
rectangular panel system R-H 215

security bracket

optional R-H 215 Power Sealing panel with swinging-open function as revision opening

Wall anchor
connector for H-profile 35

H-profile 35
U-profile

detail E

suspension methods

clamping bracket with threaded rod
U-profile hanger with threaded rod
combi Nonius hanger with Nonius to part
combi Nonius hanger with eye wire