# METAL
# LEAFLET
# CLIP-IN

Inspiring Great Spaces™

Armstrong®

# F-CLIP ACCESS SYSTEM
## Corridor ceilings

Inspiring Great Spaces™

**Armstrong**®

# F-CLIP ACCESS SYSTEM
## CORRIDOR CEILINGS

### SPECIFICATION

| | |
|---|---|
| System | Armstrong ceiling system F-Clip Access, Clip-In solution with concealed grid, suspension height min. 90mm<br>Up to 90 mm shadow gap between wall and panel |
| Panel material | galvanised steel sheet<br>panel width up to 400 mm 0.6 mm<br>panel width from 401 mm 0.7 mm<br>(aluminium or further materials on request) |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request |
| Execution* | rectangular panel square edged<br>long sides CA / DA (40 mm)<br>short sides E6 / F6 (38 mm) |
| Gap solution | 0 mm gap on long side, without gasket |
| Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request. |
| Configurable dimensions | panel length (A) 600 - 2500 mm<br>panel width (B) 275 - 600 mm |
| Grid system | half DP12 A-Bar fixed by wall bracket to the wall |
| Service integration | standard round or rectangular cut-outs plus customised options on request |

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

### STANDARD PERFORATION PATTERNS

**Extra Microperforation Rg 0701**
Hole diameter: 0.7 mm
Open 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%

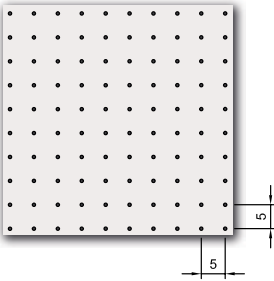Other perforation patterns available on request.

### BENEFITS
- Free-span solution
- Rectangular panel, adapted to corridor or circulation area width
- Various perimeter trim solutions for a clean aesthetic finish
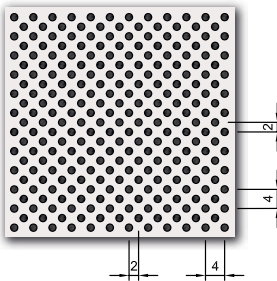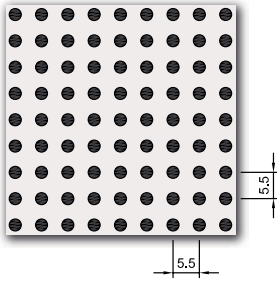- Meets visual and individual project requirements
- Easy, quick access to ceiling void due to the swing-down Access function
- Downwardly demountable with the use of an extraction tool for access to the ceiling void

### APPLICATION AREA
- Corridors where the panels simply span between walls.

PROJECT: Laboratorios EPAL (SP) :::::::: ARCHITECT: Gonçalo Byrne, Arquitectos Lda

## ACOUSTIC PERFORMANCE

Metal ceiling systems have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. These performance values will depend upon the perforation and the acoustic infill. Please contact us for more information on the available factory fitted acoustic options.

## THERMAL CONDUCTIVITY

($\lambda$) W/mK
50.0 : 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 of the painted surface is not recommended.

## COLOUR

### Standard colours
| | |
|---|---|
| RAL 9010 | 20% gloss |
| Global White | 12% gloss |
| RAL 9006 | 30% gloss |
| RAL 9007 | 30% gloss |

RAL 9010    Global White    RAL 9006    RAL 9007

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

## QUALITY STANDARD

Armstrong is a certified **EN ISO 9001:2008** Quality Assured 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 specificaitons 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 | | Acoustics | | | | | Safe & Healthy | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Scratch resistance |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | ✔ | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable | ✔ | ✔ |
| Premium OP19 | up to 30 | depends on perforation | 1.00 | A | 0.90 | 31 | 15 | A2-s2, d0 | 95 | wipeable moist cloth | | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for prefored tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
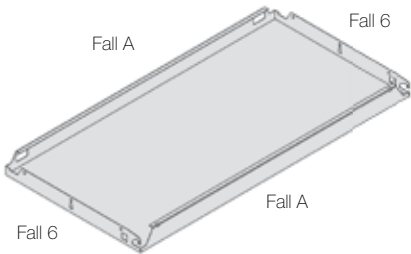
## CROSS-SECTION
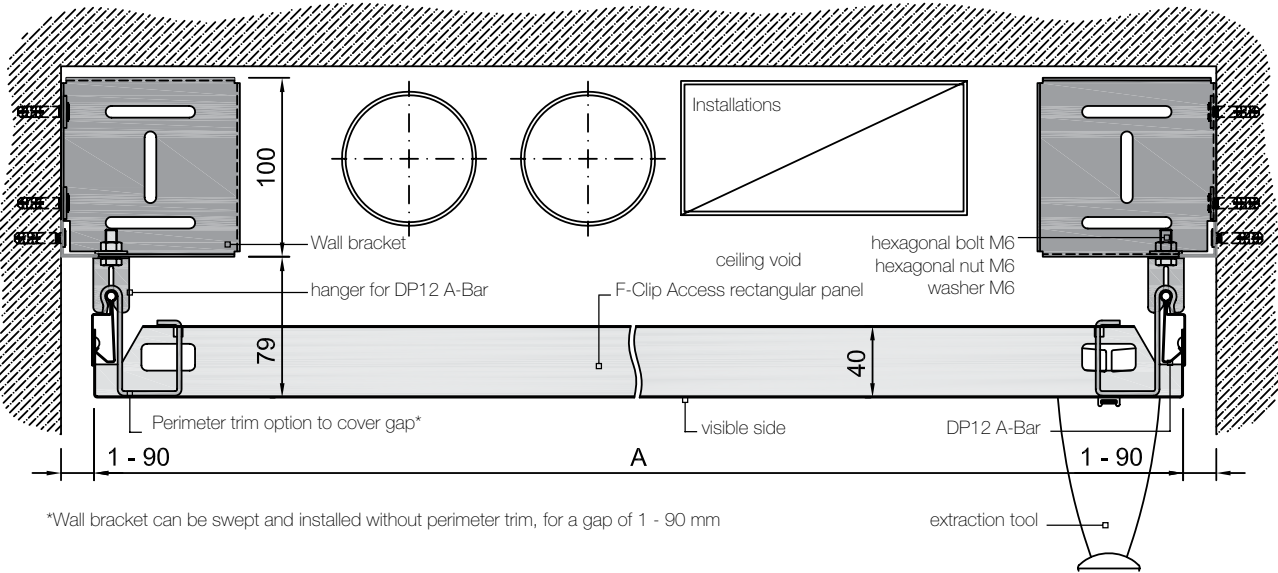


*Wall bracket can be swept and installed without perimeter trim, for a gap of 1 - 90 mm
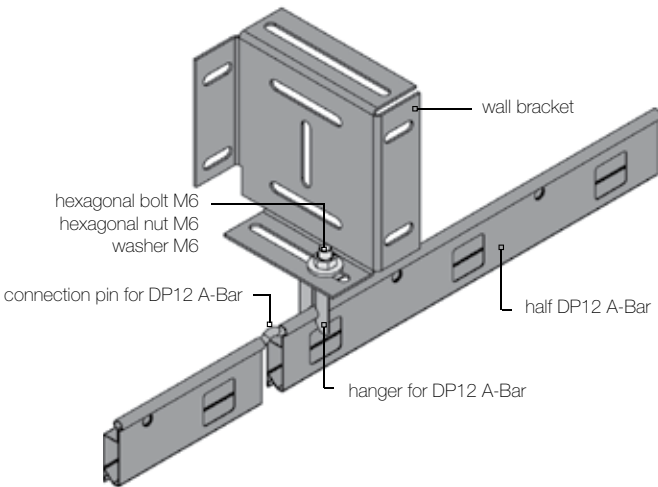
## LONGITUDINAL-SECTION
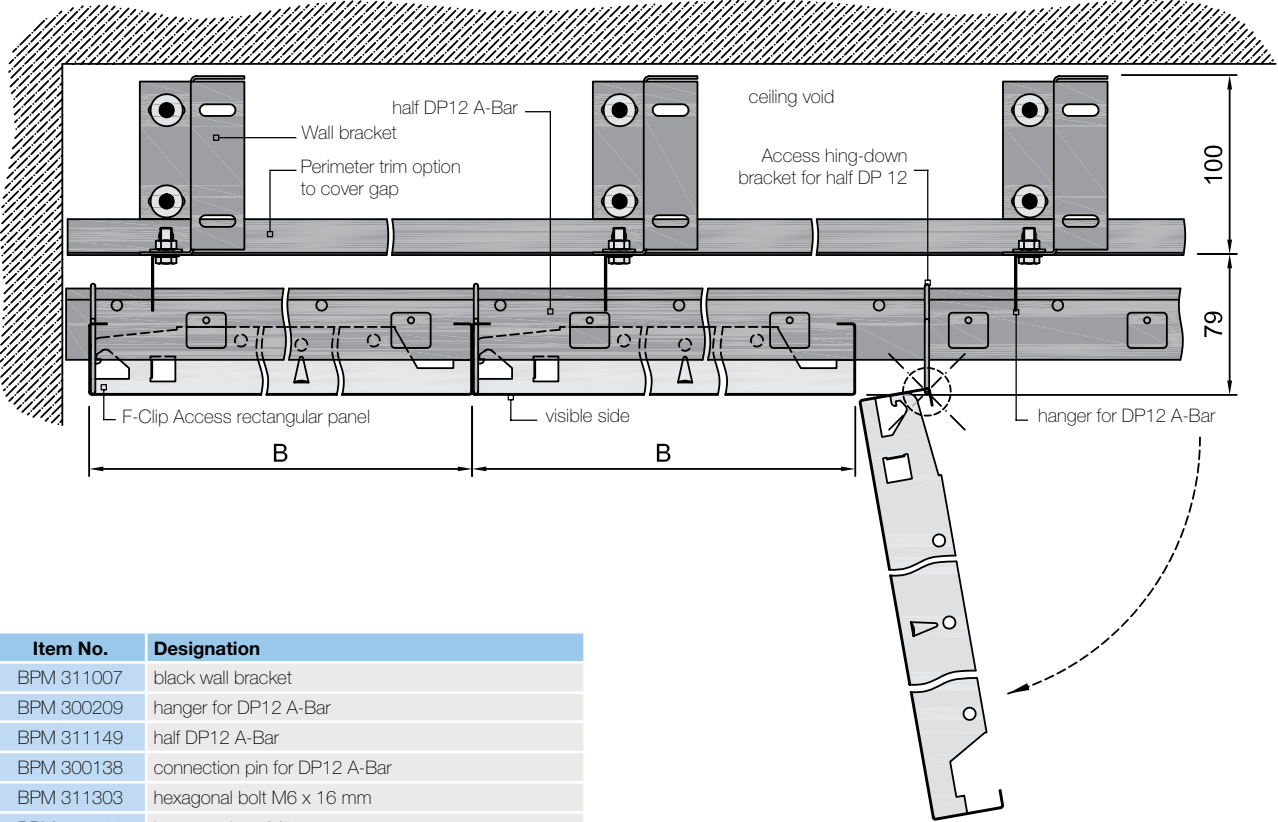


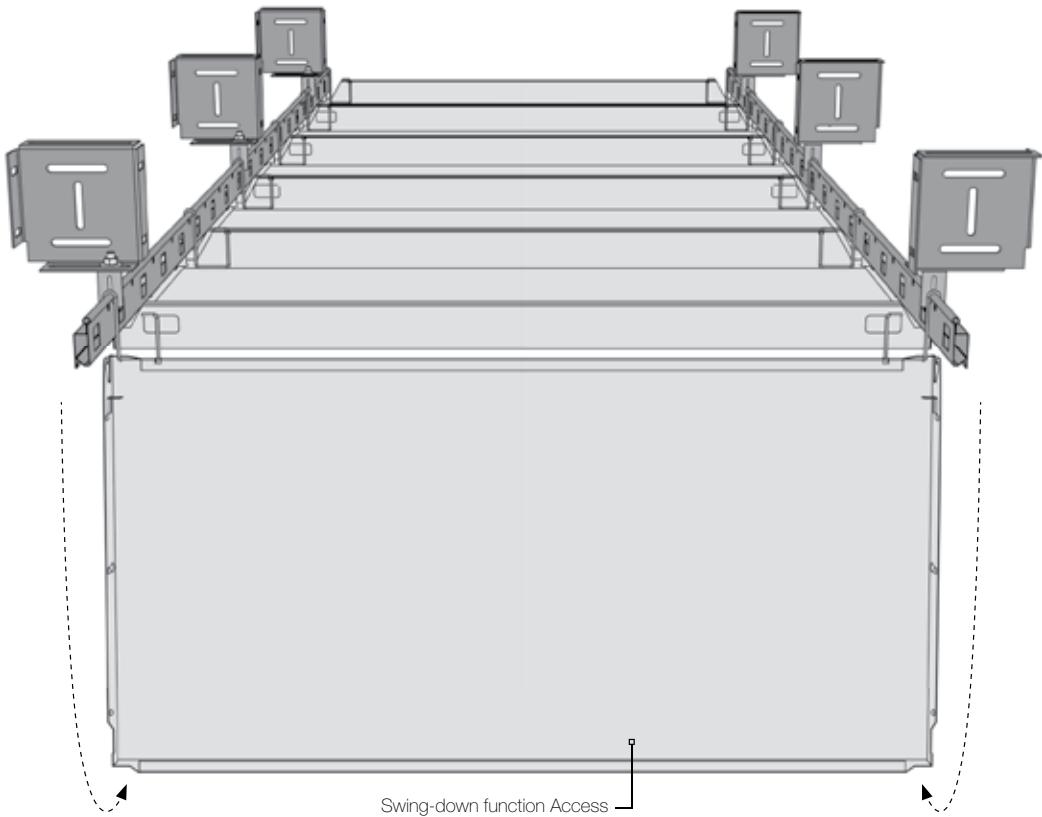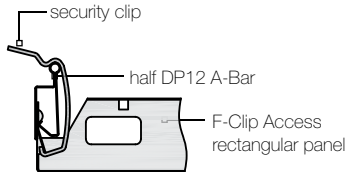| Item No. | Designation |
|---|---|
| BPM 311007 | black wall bracket |
| BPM 300209 | hanger for DP12 A-Bar |
| BPM 311149 | half DP12 A-Bar |
| BPM 300138 | connection pin for DP12 A-Bar |
| BPM 311303 | hexagonal bolt M6 x 16 mm |
| BPM 311103 | hexagonal nut M6 |
| BPM 311305 | washer M6 18 x 1.6 mm |
| BPM300189 | access hinge-down bracket for half DP12 A-Bar |
| BPM 300106 | security clip |
| BPM 311028 | extraction tool |

**Detail A** F-Clip Access rectangular panel

Fall A

Fall 6

Fall A

Fall 6

Fall 6

**Detail B** grid system



wall bracket

hexagonal bolt M6
hexagonal nut M6
washer M6

connection pin for DP12 A-Bar

half DP12 A-Bar

hanger for DP12 A-Bar

**Detail C** security clip

security clip

half DP12 A-Bar

F-Clip Access
rectangular panel

Swing-down function Access

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

# Q-CLIP SYSTEM
## Square tiles

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# Q-CLIP SYSTEM
## SQUARE TILES

### SPECIFICATION

| | |
|---|---|
| System | Armstrong ceiling system Q-Clip, Clip-In solution with concealed grid, with optional swing-down "Window" function, suspension height min. 100 mm |
| Tile material | galvanised steel sheet 0.5 mm (aluminium or further materials on request) |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request |
| Execution* | Q-Clip: square tile square edged<br>Q-Clip F: square tile bevel edged 3 mm |
| Gap solution | 0 mm gap, without gasket |
| Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request. |
| Standard modules | Q-Clip:<br>600 x 600 mm<br>625 x 625 mm<br>Q-Clip F:<br>500 x 500 mm<br>600 x 600 mm<br>600 x 300 mm (no "Window" function)<br>625 x 625 mm<br>625 x 312.5 mm (no "Window" function) |
| Grid system | U-profile + DP12 A-Bar, security clip optional available, further suspension methods on request |

| | |
|---|---|
| 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 | - secured exterior ceiling solution<br>- seismic ceiling solution<br>- clean room ceiling solution<br>- can be combined with other Armstrong products |

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



### STANDARD PERFORATION PATTERNS



**Ultra Microperforation Rg 0501**
Hole diameter: 0.5 mm
Open area: 0.64 %

**Extra Microperforation Rg 0701**
Hole diameter: 0.7 mm
Open 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.

### BENEFITS
- Concealed grid system for a monolithic ceiling surface
- Downwardly demountable with the use of an extraction tool for access to the ceiling void.
- Cost effective
- Solution with optional swing-down "Window" function

### APPLICATION AREA
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.

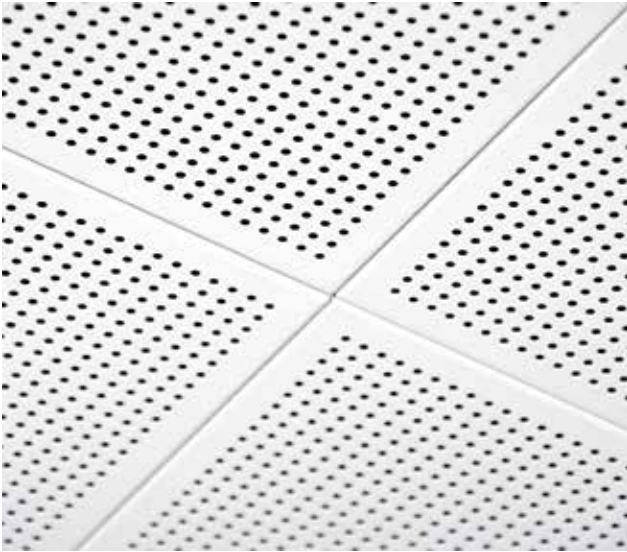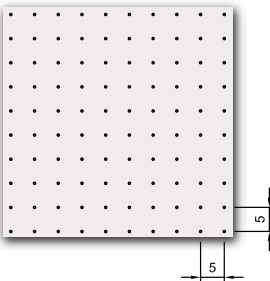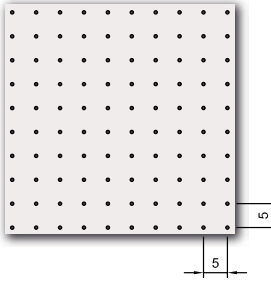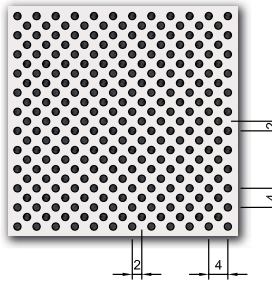PROJECT: GGZ Oost Brabant (NL) ::::::: ARCHITECT: MAS Architectuur
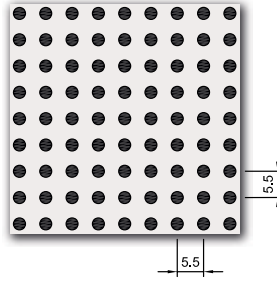
## ACOUSTIC PERFORMANCE

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
50.0 : 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.
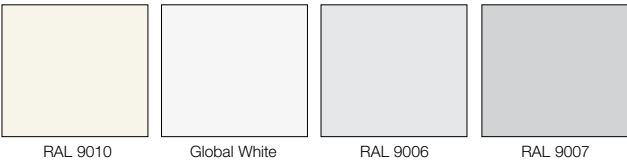
## CLEANING

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 of the painted surface is not recommended.

## COLOUR

### Standard colours

| | |
|---|---|
| RAL 9010 | 20% gloss |
| Global White | 12% gloss |
| RAL 9006 | 30% gloss |
| RAL 9007 | 30% gloss |

| RAL 9010 | Global White | RAL 9006 | RAL 9007 |
|---|---|---|---|

### 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 specificaitons or requirements then Armstrong's manufacturing standards will prevail unless stated otherwise.
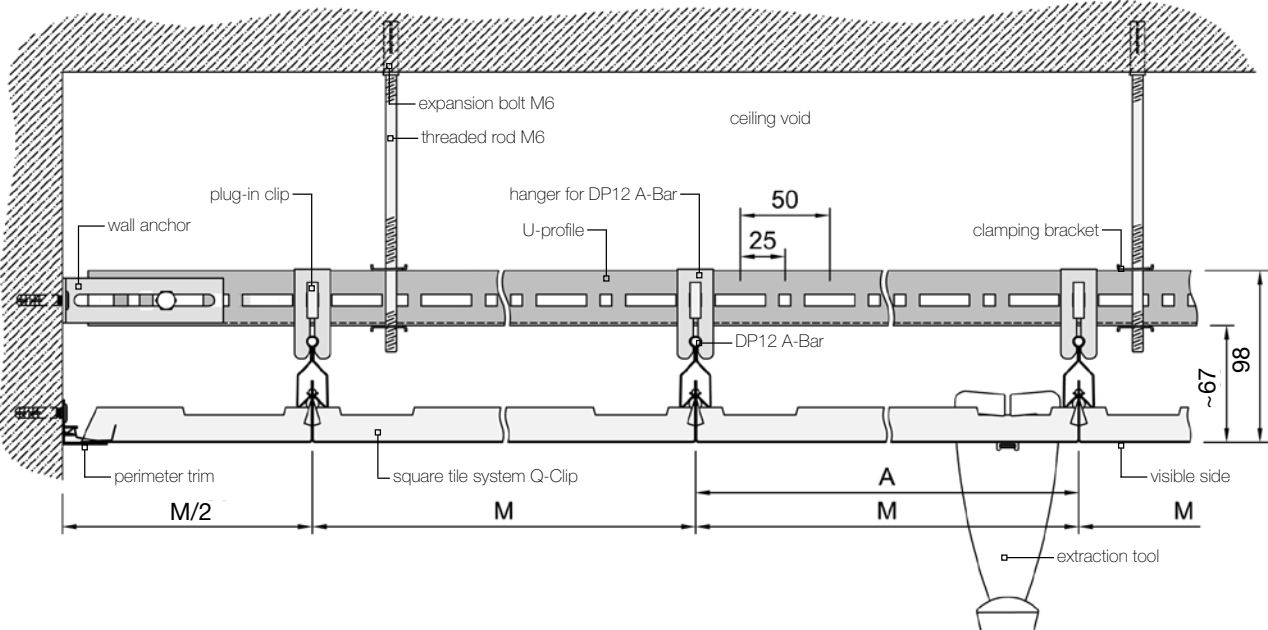
## ENVIRONMENTAL

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## CROSS-SECTION Q-CLIP



## LONGITUDINAL-SECTION Q-CLIP



M = module size / A = tile length / B = tile width

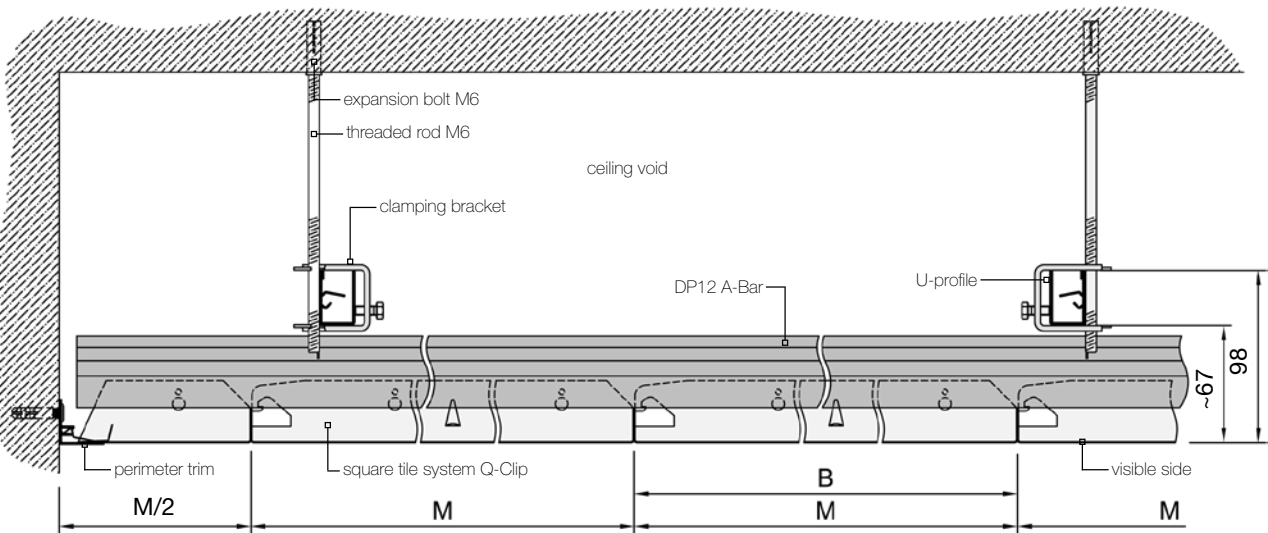| | Sustainability | | Acoustics | | | | | Safe & Healthy | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Scratch resistance |
| Ultra Microperforation Rg 0501 (1) | up to 30 | 83 | 0.45(L) | D | 0.55 | 18 | 8 | A1 | 95 | scrubbable | ✔ | ✔ |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | ✔ | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable, high pressure water cleaning (4) | ✔ | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for preforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
(4) Only for plain Clip-In systems with silicone sealed joints (reduced water pressure to the minimum).

| Item No. | Designation |
|---|---|
| BPM 300100 | U-profile |
| BPM 300119 | connector for U-profile |
| BPM 300120 | plug-in clip |
| BPM 300140 | wall anchor |
| BPM 300121 | clamping bracket |
| BPM 311111 | expansion bolt M6 x 30 mm |
| BPM 311099 | threaded rod M6 x 1'000 mm |
| BPM 311022 | DP12 A-Bar |
| BPM 300138 | connector pin for DP12 A-Bar |

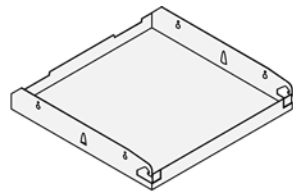| Item No. | Designation |
|---|---|
| BPM 300105D | hanger for DP12 A-Bar |
| BPM 311303 | hexagonal bolt M6 x 16 mm |
| BPM 311103 | hexagonal nut M6 |
| BPM 311305 | washer M6 18 x 1.6 mm |
| BPM 300106 | security clip |
| BPM 311028 | extraction tool |
| BPM 311027 | hinge-down bracket for Window function |
| BPM 300157 | security clamp for Window function |

## CROSS-SECTION Q-CLIP F

expansion bolt M6
threaded rod M6
ceiling void
plug-in clip
wall anchor
hanger for DP12 A-Bar
U-profile
clamping bracket
50
25
DP12 A-Bar
perimeter trim
square tile system Q-Clip F
A
visible side
3 x 3
extraction tool
M/2
M
M
M
~67
98

## LONGITUDINAL-SECTION Q-CLIP F

expansion bolt M6
threaded rod M6
ceiling void
clamping bracket
DP12 A-Bar
U-profile
perimeter trim
square tile system Q-Clip F
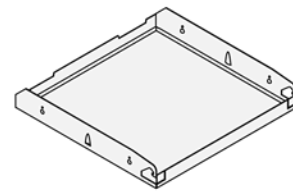B
visible side
3 x 3
M/2
M
M
M
~67
98

M = module size / A = tile length / B = tile width

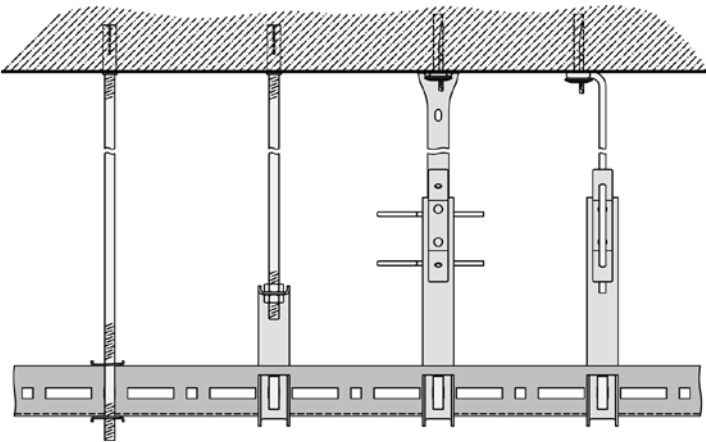**Detail A** Q-Clip square tile

**Detail B** Q-Clip F square tile

**Detail C** grid solution

hexagonal bolt M6
hexagonal nut M6
washer M6
expansion bolt M6
threaded rod M6
clamping bracket
plug-in clip
wall anchor
connector for U-profile
connector pin for DP12 A-Bar
plug-in clip
hanger for DP12 A-Bar
DP12 A-Bar
U-profile

**Detail D** security clip

security clip
DP12 A-Bar
square tile system Q-Clip

hinge-down bracket
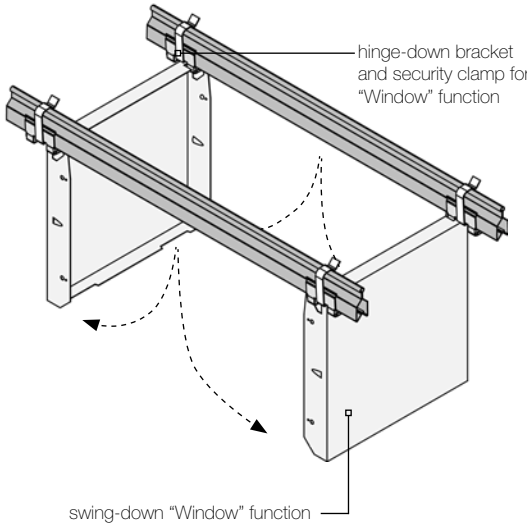and security clamp for
"Window" function

swing-down "Window" function

**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

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

# R-CLIP SYSTEM
## Rectangular panels / planks

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# R-CLIP SYSTEM

## RECTANGULAR PANELS / PLANKS

### SPECIFICATION

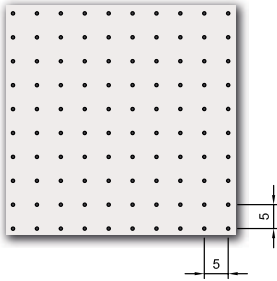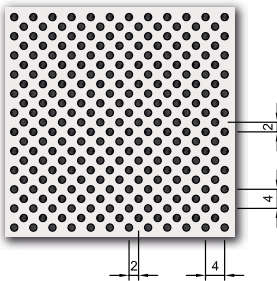| | |
|---|---|
| System | Armstrong ceiling system R-Clip, Clip-In solution with concealed grid, with optional swing-down "Window" function, suspension height min. 100 mm |
| Panel material | galvanised steel sheet R-Clip: panel width up to 400 mm 0.6 mm panel width from 401 mm 0.7 mm R-Clip F: panel length 1200 mm 0.5 mm panel length 1800 mm 0.6 mm (aluminium or further materials on request) |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request. |
| Execution* | R-Clip rectangular panel square edged long sides CA / DA (40 mm) short sides E6 / F6 (38 mm)  R-Clip F rectangular panel bevel edged 3 mm long sides CC / DC (35 mm) short sides E6 / F6 (38 mm) |
| Gap solution | 0 mm gap, without gasket |
| Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request. |

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

| | |
|---|---|
| Standard modules | R-Clip 1500 x 312.5 mm 1500 x 400 mm 2000 x 312.5 mm 2000 x 400 mm 2500 x 312.5 mm 2500 x 312.5 mm R-Clip F: 1200 x 300 mm 1200 x 600 mm 1800 x 400 mm |
| Configurable dimensions | R-Clip: panel length (A) 600 - 2500 mm panel width (B) 275 - 600 mm |
| Grid system | U-profile + DP12 A-Bar, security clip optional available, further suspension methods on request. |
| Perimeter solution | Range of standards trims in steel and aluminium plus custom bulkheads available. |
| Service integration | standard round or rectangular cut-outs plus customised options on request. |
| Special capabilities | - secured exterior ceiling solution - can be combined with other Armstrong products - clean room ceiling solution (R-Clip F) |

### STANDARD PERFORATION PATTERNS



**Extra Microperforation**
**Rg 0701**
Hole diameter: 0.7 mm
Open 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.

### BENEFITS

- Versatile system and simple design
- Concealed grid for a monolithic effect
- Excellent acoustic performance
- Ease of installation (alignment) and fully demountable
- Easy access to the ceiling void
- Maintenance friendly system
- Downwardly demountable with the use of an extraction tool for access to the ceiling void

### APPLICATION AREA

- Suitable for large open plan / circulation areas.

PROJECT: Strabag company (PL) :::::::: ARCHITECT: Strabag sp.z o.o.

## ACOUSTIC PERFORMANCE

Metal ceiling systems have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. These performance values will depend upon the perforation and the acoustic infill. Please contact us for more information on the available factory fitted acoustic options.

## THERMAL CONDUCTIVITY

($\lambda$) W/mK
50.0 : 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 of the painted surface is not recommended.

## COLOUR

### Standard colours

| RAL 9010 | 20% gloss |
| Global White | 12% gloss |
| RAL 9006 | 30% gloss |
| RAL 9007 | 30% gloss |

| RAL 9010 | Global White | RAL 9006 | RAL 9007 |

### Special colours

Other RAL and NCS colours available on request

## QUALITY STANDARD

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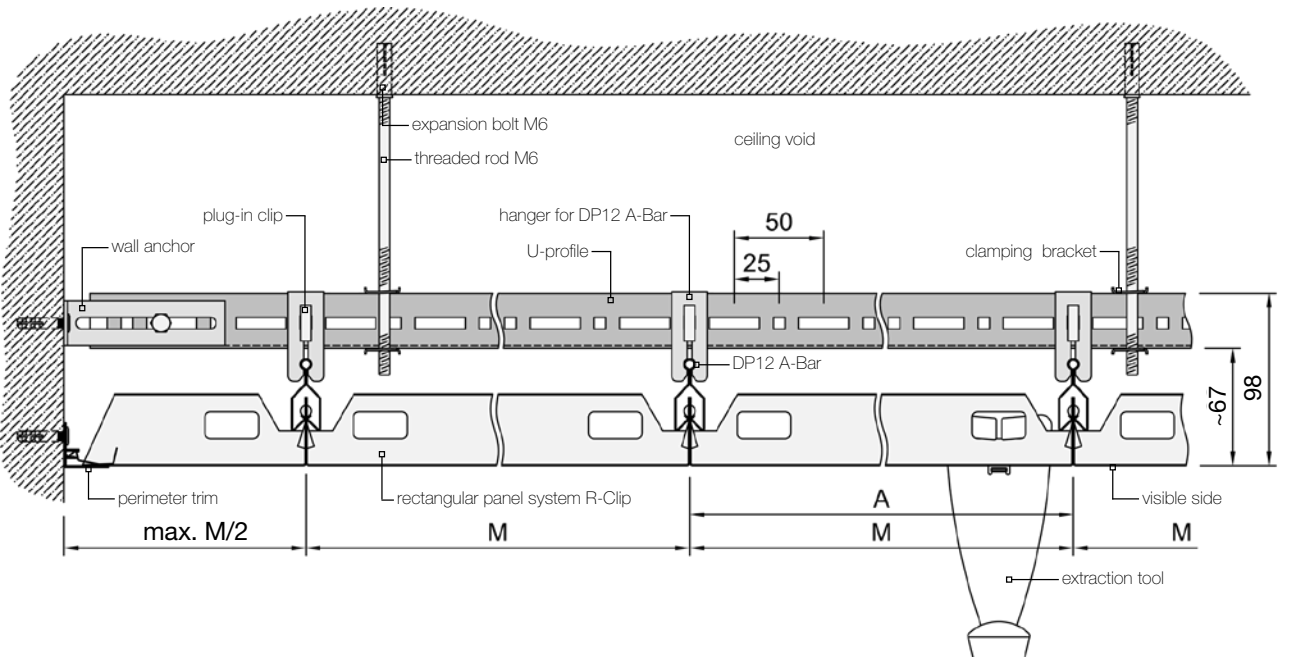
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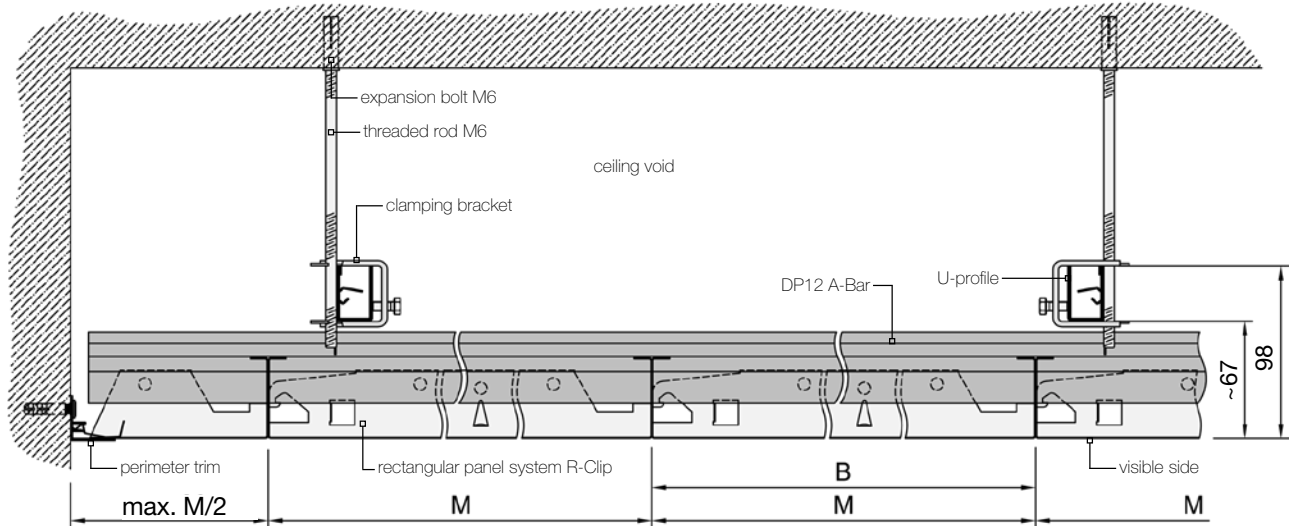
| | Sustainability | | Acoustics | | | | | Safe & Healthy | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Air quality | Scratch resistance |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable, high pressure water cleaning (4) | ✔ | ISO 5 (5) | ✔ |
| Premium B15 (5) | up to 30 | depends on perforation | 0.65 | C | 0.60 | 41 | 20 | A2-s1, d0 | 95 | wipeable moist cloth | ✔ | | ✔ |
| Premium OP19 (5) | up to 30 | depends on perforation | 1.00 | A | 0.90 | 31 | 15 | A2-s2, d0 | 95 | wipeable moist cloth | | | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for preforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
(4) Only for plain Clip-In systems with silicone sealed joints (reduced water pressure to the minimum). (5) Available only for R-Clip F.

expansion bolt M6
threaded rod M6
ceiling void
plug-in clip
hanger for DP12 A-Bar
wall anchor
U-profile
clamping bracket
50
25
DP12 A-Bar
~67
98
perimeter trim
rectangular panel system R-Clip
visible side
max. M/2
A
M
M
M
extraction tool

expansion bolt M6
threaded rod M6
ceiling void
clamping bracket
DP12 A-Bar
U-profile
~67
98
perimeter trim
rectangular panel system R-Clip
visible side
max. M/2
B
M
M
M

M = module size / A = panel length / B = panel width

| Item No. | Designation |
|---|---|
| BPM 300100 | U-profile |
| BPM 300119 | connector for U-profile |
| BPM 300120 | plug-in clip |
| BPM 300140 | wall anchor |
| BPM 300121 | clamping bracket |
| BPM 311111 | expansion bolt M6 x 30 mm |
| BPM 311099 | threaded rod M6 x 1'000 mm |
| BPM 311022 | DP12 A-Bar |
| BPM 300138 | connector pin for DP12 A-Bar |

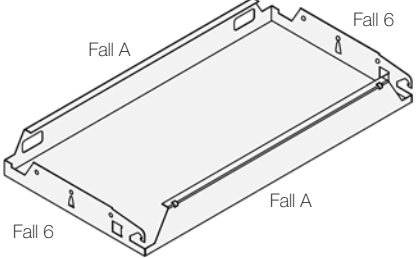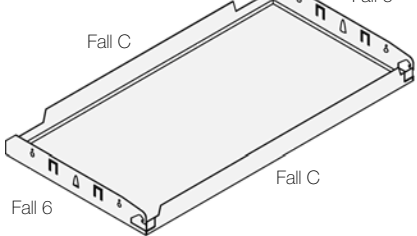| Item No. | Designation |
|---|---|
| BPM 300105D | hanger for DP12 A-Bar |
| BPM 311303 | hexagonal bolt M6 x 16 mm |
| BPM 311103 | hexagonal nut M6 |
| BPM 311305 | washer M6 18 x 1.6 mm |
| BPM 300106 | security clip |
| BPM 311028 | extraction tool |
| BPM 311027 | hinge-down bracket for Window function |
| BPM 300157 | security clamp for Window function |

## CROSS-SECTION R-CLIP F

expansion bolt M6
threaded rod M6
ceiling void
plug-in clip
hanger for DP12 A-Bar
50
wall anchor
U-profile
25
clamping bracket
DP12 A-Bar
~67
98
perimeter trim
rectangular panel system R-Clip F
visible side
A
3 x 3
max. M/2
M
M
M
extraction tool
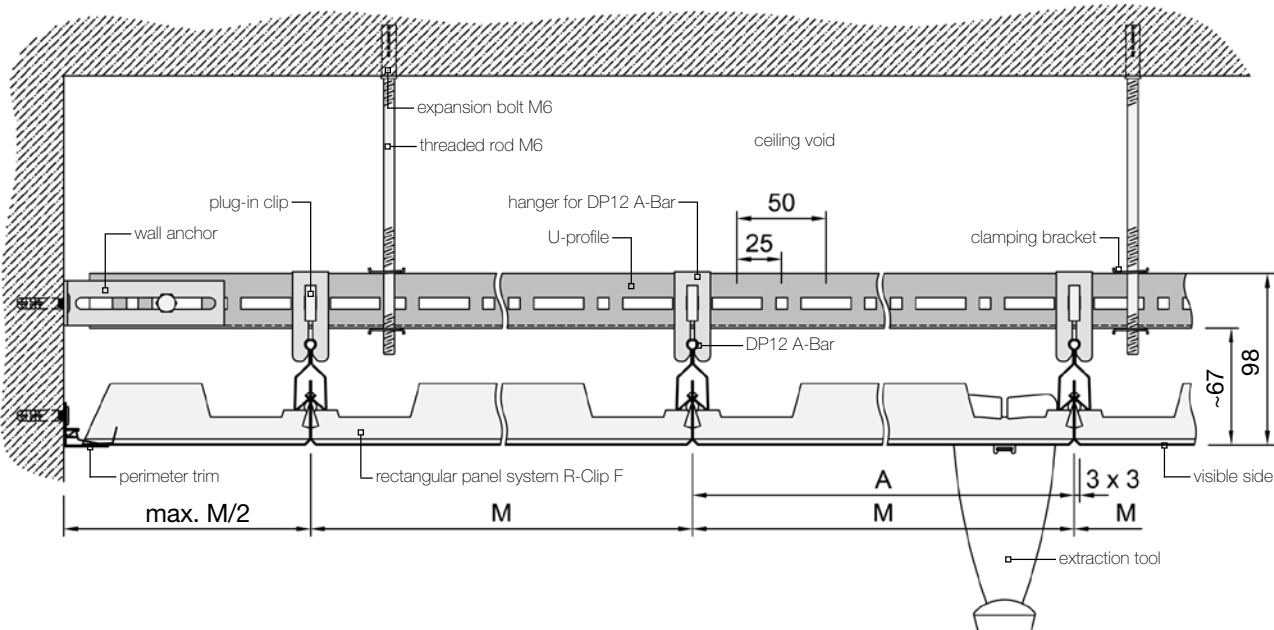
## LONGITUDINAL-SECTION R-CLIP F

expansion bolt M6
threaded rod M6
ceiling void
clamping bracket
DP12 A-Bar
U-profile
~67
98
perimeter trim
rectangular panel system R-Clip F
visible side
B
3 x 3
max. M/2
M
M
M
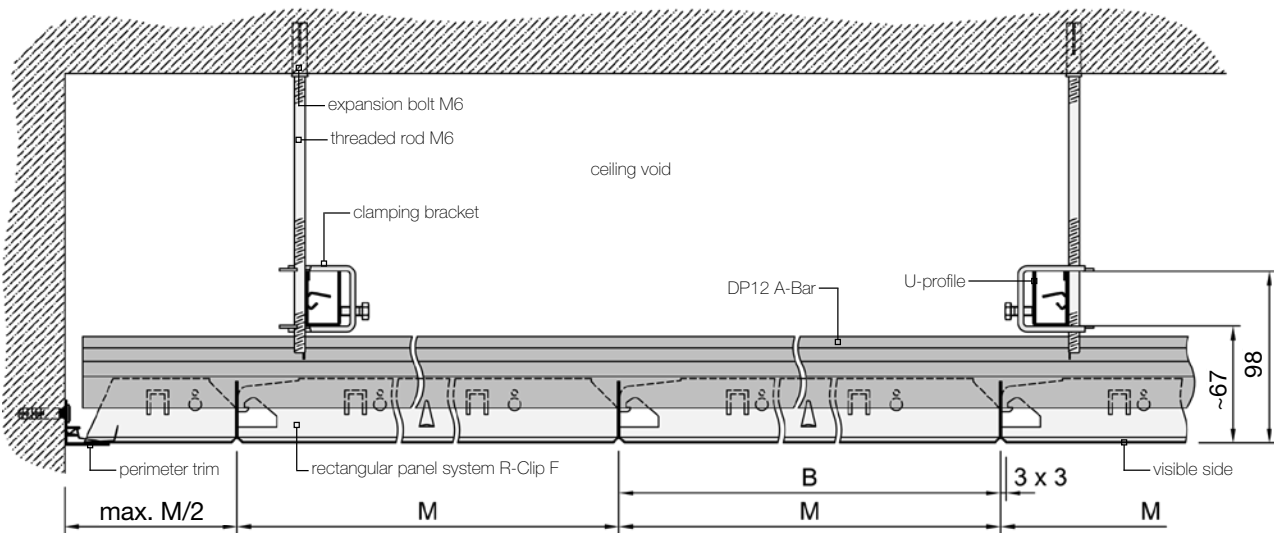
M = module size / A = panel length / B = panel width

**Detail A** R-Clip panel

Fall 6
Fall A
Fall A
Fall 6

**Detail B** R-Clip F panel
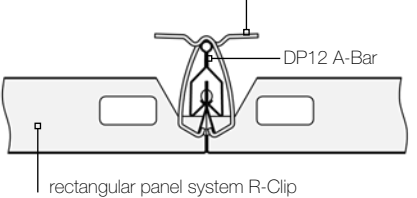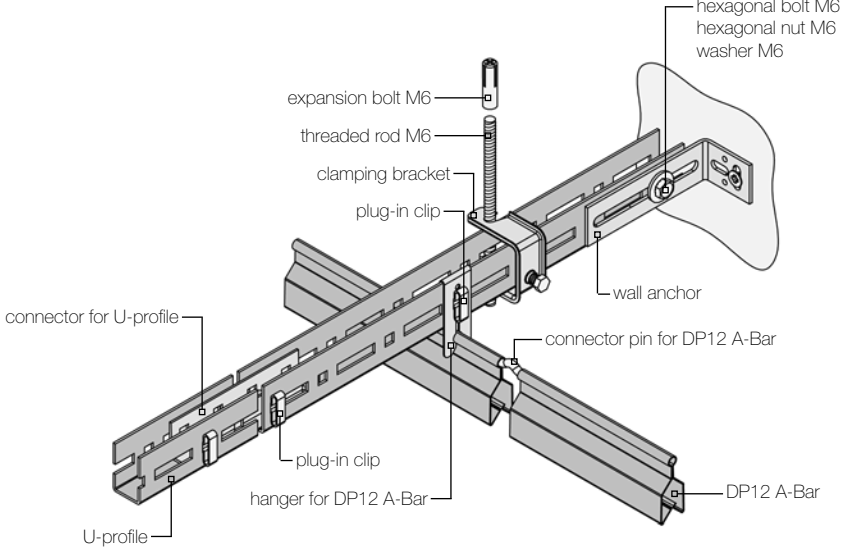
Fall 6
Fall C
Fall C
Fall 6

**Detail C** grid system

hexagonal bolt M6
hexagonal nut M6
washer M6
expansion bolt M6
threaded rod M6
clamping bracket
plug-in clip
connector for U-profile
wall anchor
connector pin for DP12 A-Bar
plug-in clip
hanger for DP12 A-Bar
DP12 A-Bar
U-profile

**Detail D** security clip

security clip
DP12 A-Bar
rectangular panel system R-Clip
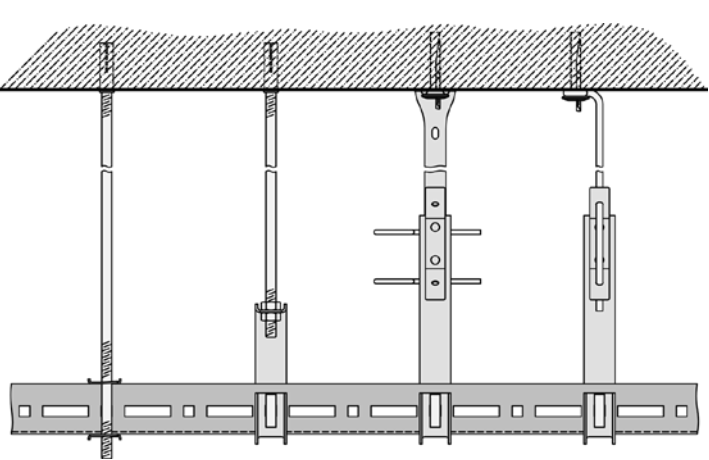
For further information about the edge detail  execution of metal tiles, please see the Metal Edge Detail Execution datasheet

hinge-down bracket and security clamp for "Window" function

swing-down "Window" function

**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

# S-CLIP F SYSTEM
## Square & rectangular tiles

Inspiring Great Spaces™

Armstrong®

# S-CLIP F SYSTEM
## SQUARE & RECTANGULAR TILES

## SPECIFICATION

| | |
|---|---|
| System | Armstrong ceiling system S-Clip F, Clip-In solution with concealed grid, with included swing-down function, suspension height min. 95 mm |
| Tile material | galvanised steel sheet 0.5 mm (aluminium or further materials on request) |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request |
| Execution* | Square tile bevel edged 3 mm with standard notching |
| Gap solution | 0 mm gap, without gasket |
| Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request. |
| Standard modules | 600 x 600 mm<br>625 x 625 mm<br>625 x 312.5 mm<br>300 x 900 mm<br>300 x 1200 mm<br>300 x 1500 mm |
| Grid system | U-profile + DP12 A-Bar, further suspension methods on request |

| | |
|---|---|
| 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. |

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

## STANDARD PERFORMATION PATTERNS

**Ultra Microperforation Rg 0501***
Hole diameter: 0.5 mm
Open area: 0.64 %

**Extra Microperforation Rg 0701**
Hole diameter: 0.7 mm
Open 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%

*Only available for square tiles.

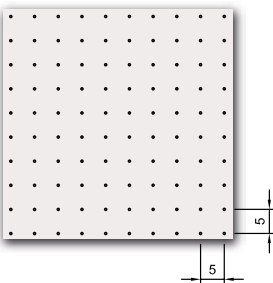Other perforation patterns available on request.

## BENEFITS
- Concealed grid system for a monolithic ceiling surface
- Downwardly demountable with the use of an extraction tool for access to the ceiling void.
- Cost effective
- Excellent acoustic performance
- With integrated swing-down function
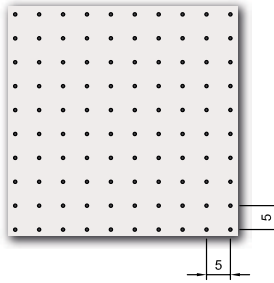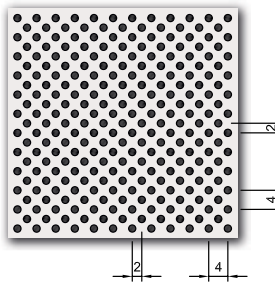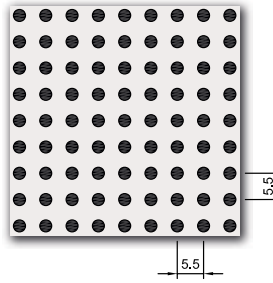
## APPLICATION AREA
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.

PROJECT: 10 Woodcock Street, Birmingham County Council (UK) :::::::: ARCHITECT: Associated Architects

## ACOUSTIC PERFORMANCE

Metal ceiling systems have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. These performance values will depend upon the perforation and the acoustic infill. Please contact us for more information on the available factory fitted acoustic options.

## THERMAL CONDUCTIVITY

($\lambda$) W/mK
50.0 : 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 of the painted surface is not recommended.

## COLOUR

### Standard colours

| | |
|---|---|
| RAL 9010 | 20% gloss |
| Global White | 12% gloss |
| RAL 9006 | 30% gloss |
| RAL 9007 | 30% gloss |

| RAL 9010 | Global White | RAL 9006 | RAL 9007 |
|---|---|---|---|

### Special colours

Other RAL and NCS colours available on request

## QUALITY STANDARD

Armstrong is a certified **EN ISO 9001:2008** Quality Assured 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 of 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 | | Acoustics | | | | | Safe & Healthy | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) up to | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Scratch resistance |
| Ultra Microperforation Rg 0501 (1) | up to 30 | 83 | 0.45(LM) | D | 0.55 | 18 | 8 | A1 | 95 | scrubbable | ✔ | ✔ |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | ✔ | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable | ✔ | ✔ |
| Premium B15 | up to 30 | depends on perforation | 0.65 | C | 0.60 | 41 | 20 | A2-s1, d0 | 95 | wipeable moist cloth | | ✔ |
| Premium OP19 | up to 30 | depends on perforation | 1.00 | A | 0.90 | 31 | 15 | A2-s2, d0 | 95 | wipeable moist cloth | | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for preforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.

### CROSS-SECTION S-CLIP F
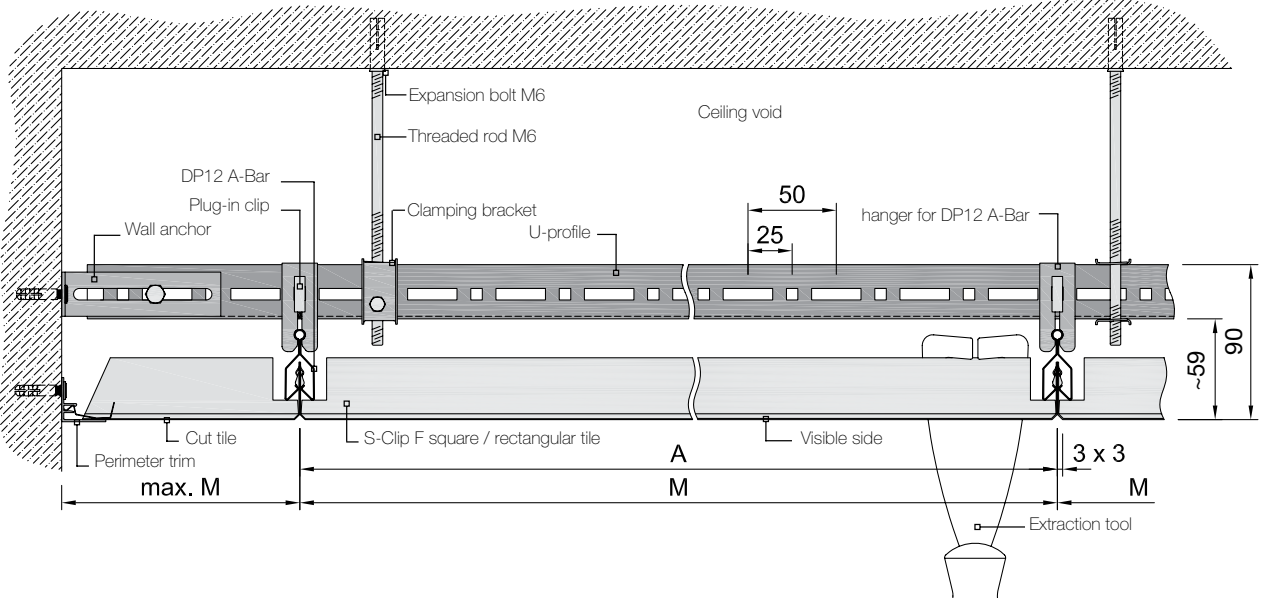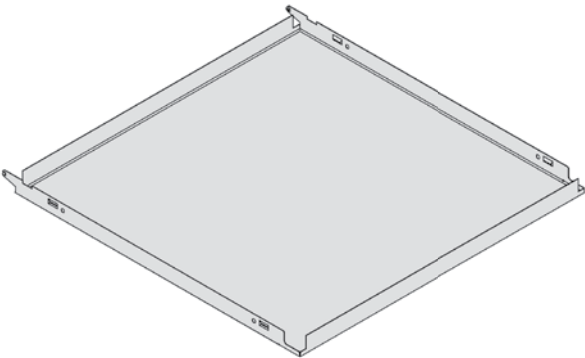


### LONGITUDINAL-SECTION S-CLIP F
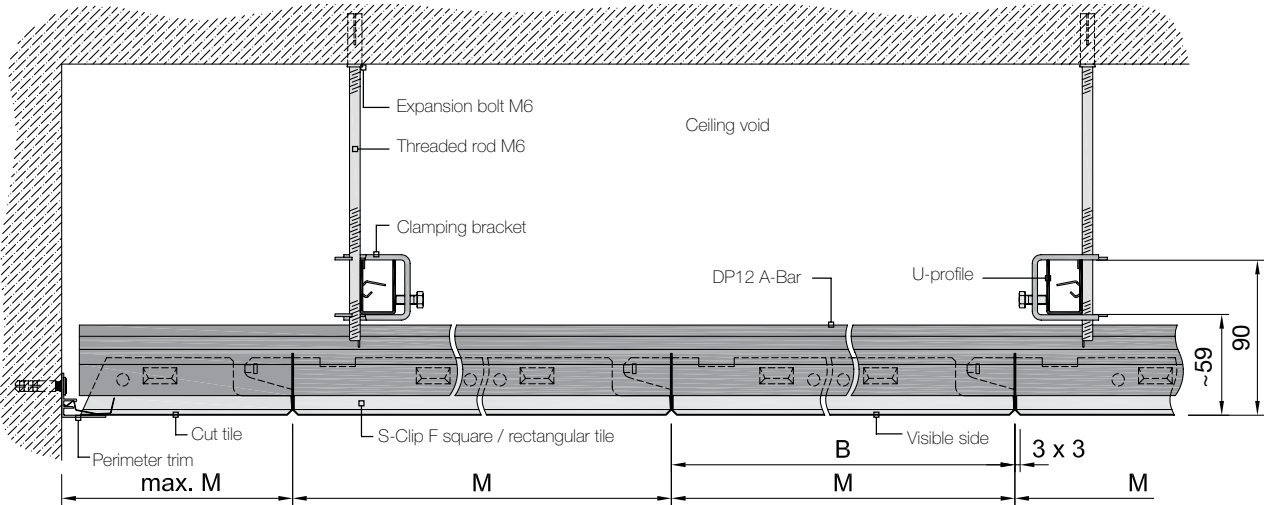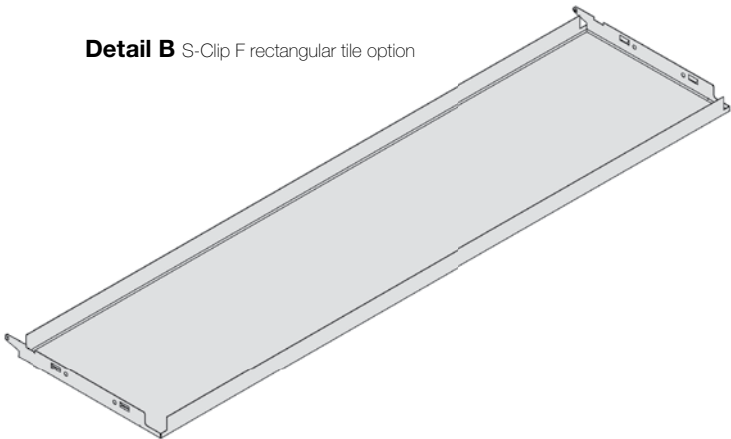


M = module size / A = tile length / B = tile width

| Item No. | Designation |
|---|---|
| BPM 300100 | U-profile |
| BPM 300119 | connector for U-profile |
| BPM 300120 | plug-in clip |
| BPM 300140 | wall anchor |
| BPM 300121 | clamping bracket |
| BPM 311111 | expansion bolt M6 x 30 mm |
| BPM 311099 | threaded rod M6 x 1000 mm |

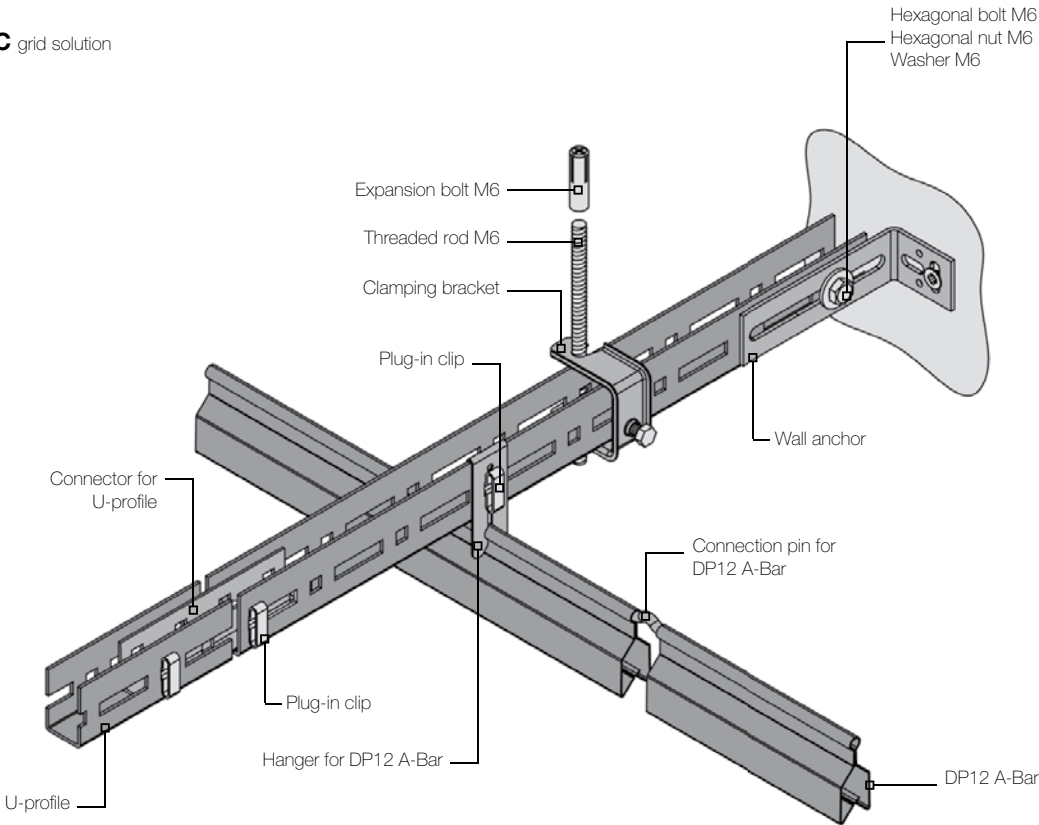| Item No. | Designation |
|---|---|
| BPM 311022 | DP12 A-Bar |
| BPM 300138 | connection pin for DP12 A-Bar |
| BPM 300105D | hanger for DP12 A-Bar |
| BPM 311303 | hexagonal bolt M6 x 16 mm |
| BPM 311103 | hexagonal nut M6 |
| BPM 311305 | washer M6 18 x 1.6 mm |
| BPM 311046 | extraction tool |

**Detail A** S-Clip F square tile

**Detail B** S-Clip F rectangular tile option

**Detail C** grid solution

Expansion bolt M6

Threaded rod M6

Clamping bracket

Plug-in clip

Connector for
U-profile

Plug-in clip

Hanger for DP12 A-Bar

U-profile

Hexagonal bolt M6
Hexagonal nut M6
Washer M6

Wall anchor

Connection pin for
DP12 A-Bar

DP12 A-Bar

**Detail D** U-profile suspension methods

Clamping
bracket

Hanger for
U-profile

Combi Nonius
hanger with
Nonius top-part

Combi Nonius
hanger with eye
wire

1. swing-down
2. slide the tile
   (max. 3 tiles can be pushed
   together for a bigger access
   to the ceiling void)

# T-CLIP F SYSTEM
Square & rectangular tiles

Inspiring Great Spaces™

**Armstrong**®

# T-CLIP F SYSTEM
## SQUARE & RECTANGULAR TILES

### SPECIFICATION

| | |
|---|---|
| System | Armstrong ceiling system T-Clip F, Clip-In solution with concealed grid, suspension height min. 90 mm |
| Tile material | Galvanised steel sheet 0.5 - 0.6 mm |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request |
| Execution* | T-Clip F square or rectangular tile bevel edged 5 mm, optional T-Clip rectangular tile square edged |
| Gap solution | 0 mm gap, without gasket |
| Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request |
| Standard modules | T-Clip F: 500 x 500 mm 600 x 600 mm 675 x 675 mm 750 x 750 mm Additional rectangular modules available 600 x 1200 mm 300 x 1200 mm 600 x 1200 mm 300 x 1500 mm |
| Configurable dimensions | Panel length (A) 600 - 2500 mm Panel width (B) 300 / 400 / 500 / 600 mm |

| | |
|---|---|
| Grid system | C-channel + Spring-T Optional U-profile + Spring-T |
| 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 |

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

### STANDARD PERFORATION PATTERNS

**Extra Microperforation Rg 0701**
Hole diameter: 0.7 mm
Open 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.

### BENEFITS
- Concealed grid system for a monolithic ceiling surface
- Downwardly demountable with the use of an extraction tool for access to the ceiling void.
- Cost effective
- Excellent acoustic performance

### APPLICATION AREA
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.

PROJECT: Learning Commons Building - Manchester University (UK) :::::::: ARCHITECT: Sheppard Robson
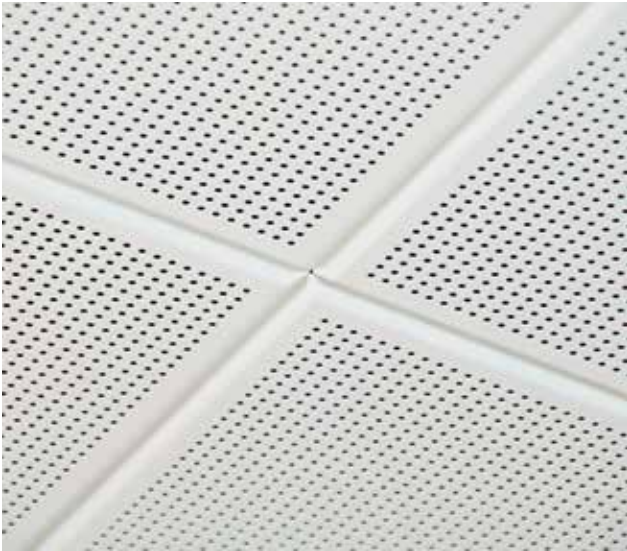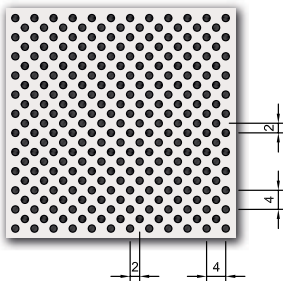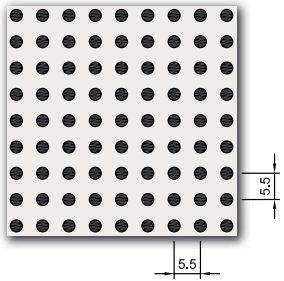
## ACOUSTIC PERFORMANCE

Metal ceiling systems have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. These performance values will depend upon the perforation and the acoustic infill. Please contact us for more information on the available factory fitted acoustic options.

## THERMAL CONDUCTIVITY

($\lambda$) W/mK
50.0 : 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 of the painted surface is not recommended.

## COLOUR

### Standard colours

| | |
|---|---|
| RAL 9010 | 20% gloss |
| Global White | 12% gloss |
| RAL 9006 | 30% gloss |
| RAL 9007 | 30% gloss |

| RAL 9010 | Global White | RAL 9006 | RAL 9007 |
|---|---|---|---|

### Special colours

Other RAL and NCS colours available on request

## QUALITY STANDARD

Armstrong is a certified **EN ISO 9001:2008** Quality Assured 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).
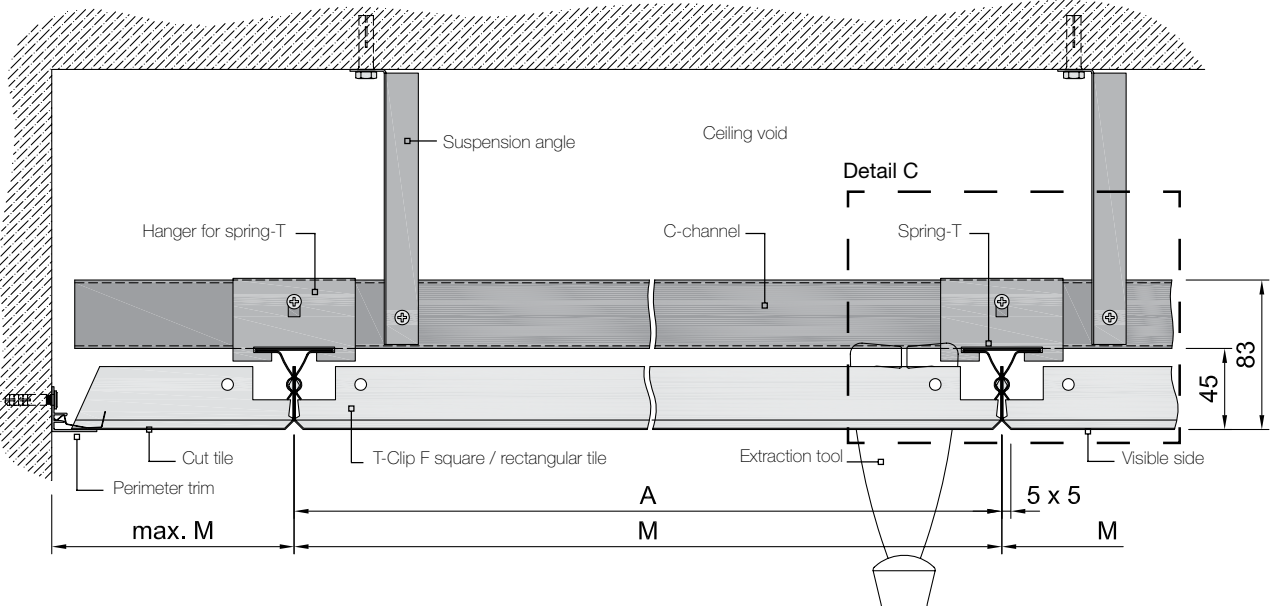
| | Sustainability | | Acoustics | | | | | Safe & Healthy | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) up to | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Scratch resistance |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | ✔ | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable | ✔ | ✔ |
| Premium B15 | up to 30 | depends on perforation | 0.65 | C | 0.60 | 41 | 20 | A2-s1, d0 | 95 | wipeable moist cloth | | ✔ |
| Premium OP19 | up to 30 | depends on perforation | 1.00 | A | 0.90 | 31 | 15 | A2-s2, d0 | 95 | wipeable moist cloth | | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for preforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
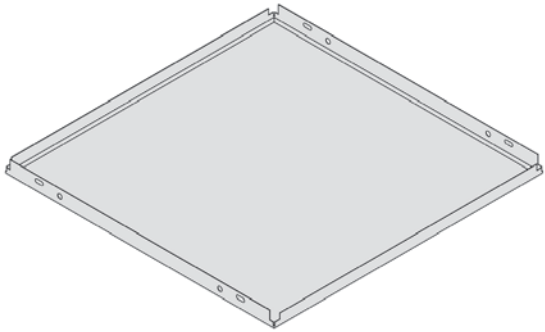
PROJECT: Teological Faculty of Silesian University  :::::::: ARCHITECT: STABIL SP. Z O.O.
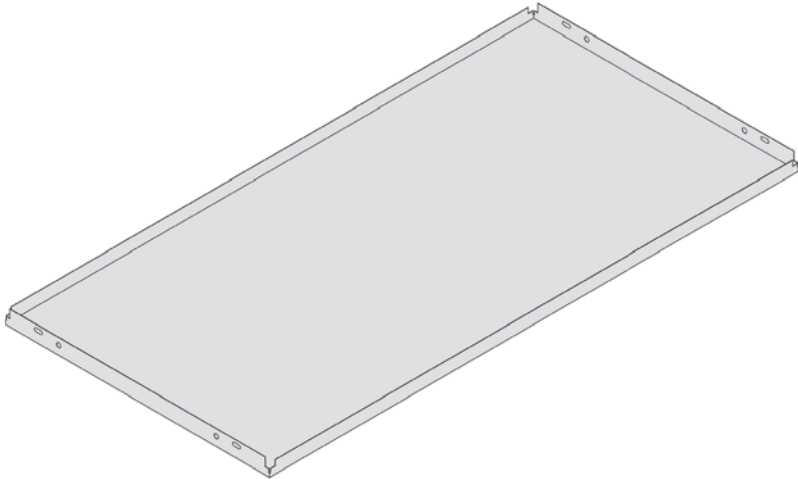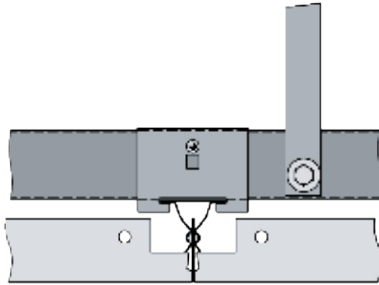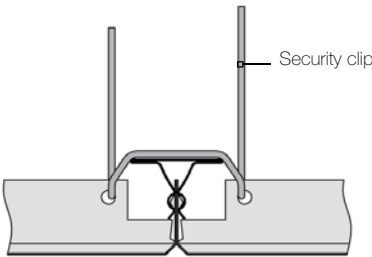
## CROSS-SECTION T-CLIP F with C-channel solution

Suspension angle

Ceiling void

Detail C

Hanger for spring-T

C-channel

Spring-T

83

45

Cut tile

T-Clip F square / rectangular tile

Extraction tool

Visible side

Perimeter trim

max. M

A

M

5 x 5

M

## LONGITUDINAL-SECTION T-CLIP F with C-channel solution

Suspension angle

Ceiling void

C-channel

Hanger for spring-T

Spring-T

83

45

Cut tile

T-Clip F square / rectangular tile

Visible side

Perimeter trim

max. M

M

B

M

5 x 5

M

M = module size / A = tile length / B = tile width

| Item No. | Designation |
|---|---|
| BPC 3000G | C-channel |
| BPC 7140 | Connector for C-channel |
| BPA 952G | Suspension angle |
| BPC2090A | Hanger for spring-T |
| BPM311191 | Self-drilling screw 3.5x9.5 mm |

| Item No. | Designation |
|---|---|
| BPC 1801H | Spring-T |
| BPC 1805H | Connector for spring-T |
| BPC 1775A | Security clip |
| BPM 311046 | Extraction tool |

**Detail A** T-Clip F square tile

**Detail B** T-Clip rectangular tile option
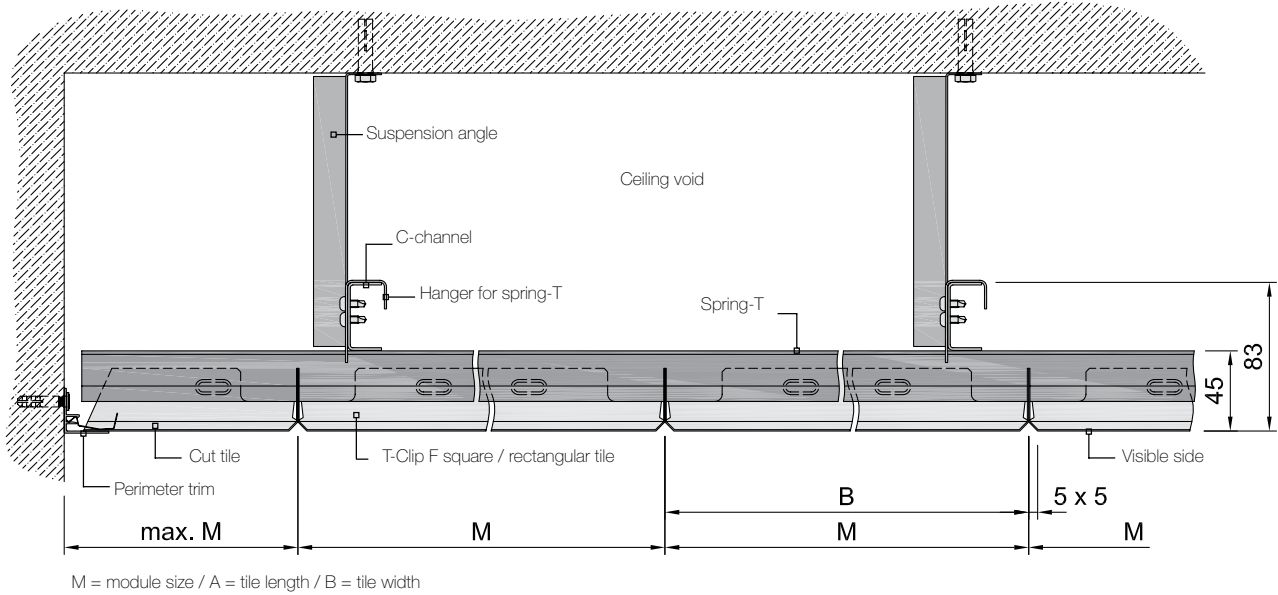
**Detail C** Square edged option T-Clip

**Detail D** Security clip option

Security clip

**Detail E** C-channel solution

Suspension angle

Hanger for spring-T

Connector for spring-T

Connector for C-channel

C-channel

Spring-T

**Detail F** C-channel suspension methods
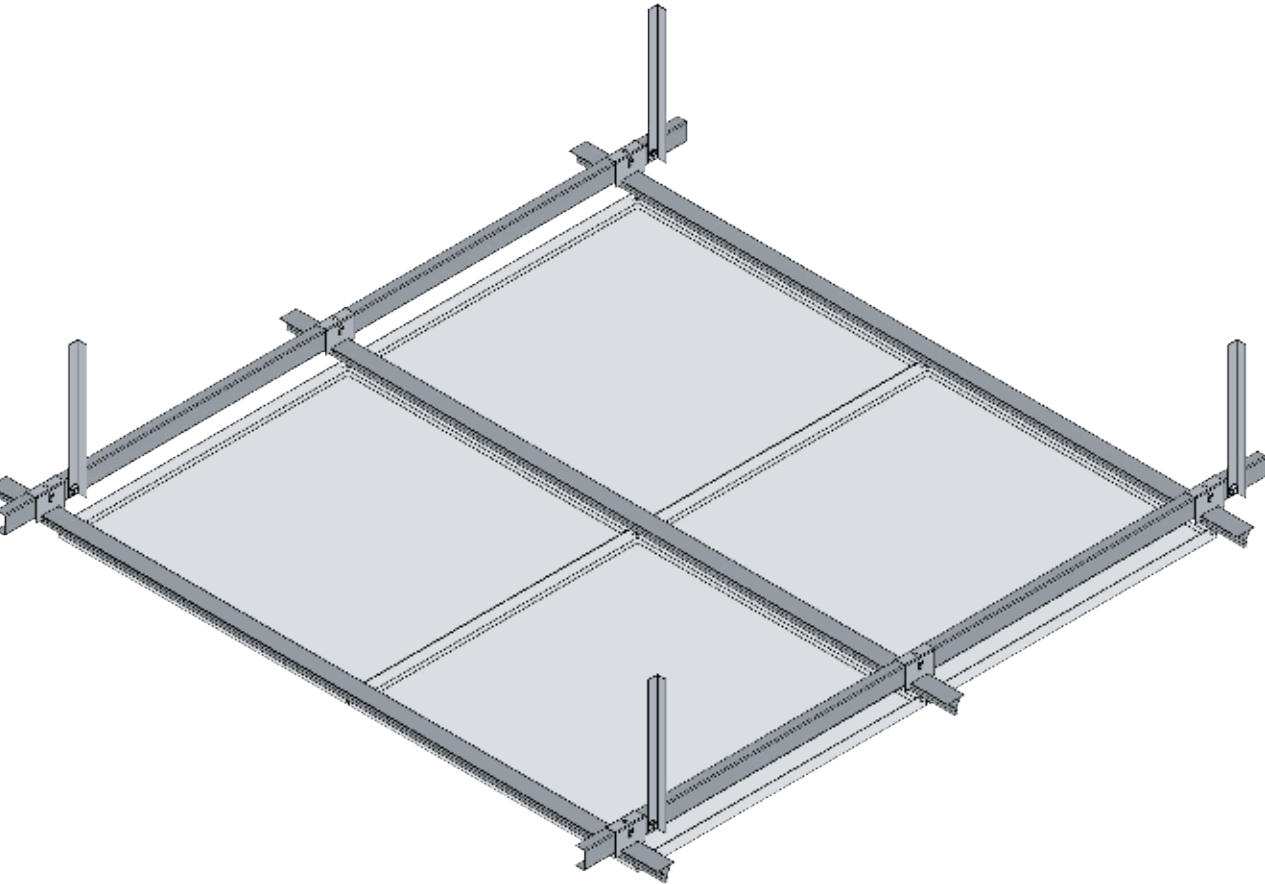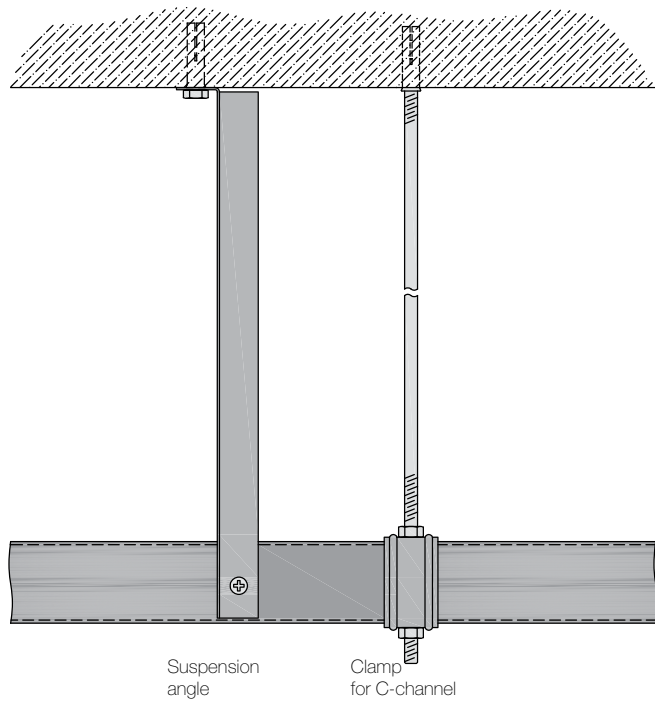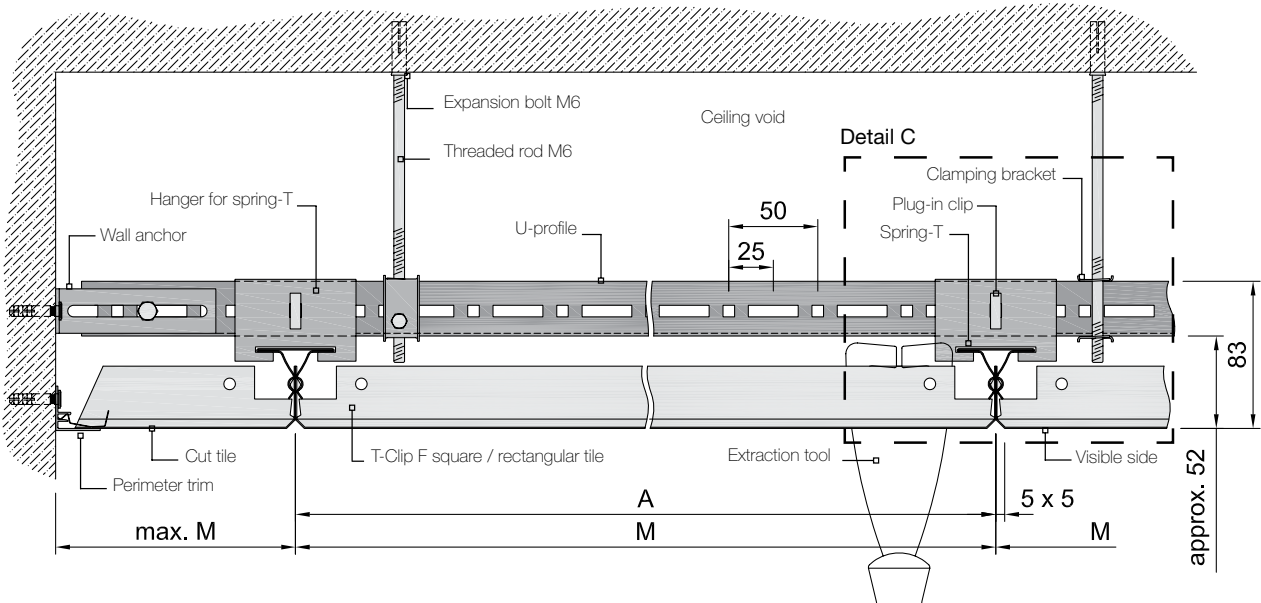
Suspension
angle

Clamp
for C-channel

## CROSS-SECTION T-CLIP F with U-profile system

Expansion bolt M6

Threaded rod M6

Ceiling void

Detail C

Hanger for spring-T

Clamping bracket

Plug-in clip

Wall anchor

U-profile

Spring-T

50

25

83

Cut tile

T-Clip F square / rectangular tile

Extraction tool

Visible side

Perimeter trim

5 x 5

approx. 52

max. M

A

M

M

## LONGITUDINAL-SECTION T-CLIP F with U-profile system

Expansion bolt M6

Threaded rod M6

Ceiling void

Clamping bracket

Hanger for spring-T

Spring-T

U-profile

83

Cut tile

T-Clip F square / rectangular tile

Visible side

Perimeter trim

B

5 x 5

approx. 52

max. M

M

M

M

M = module size / A = tile length / B = tile width
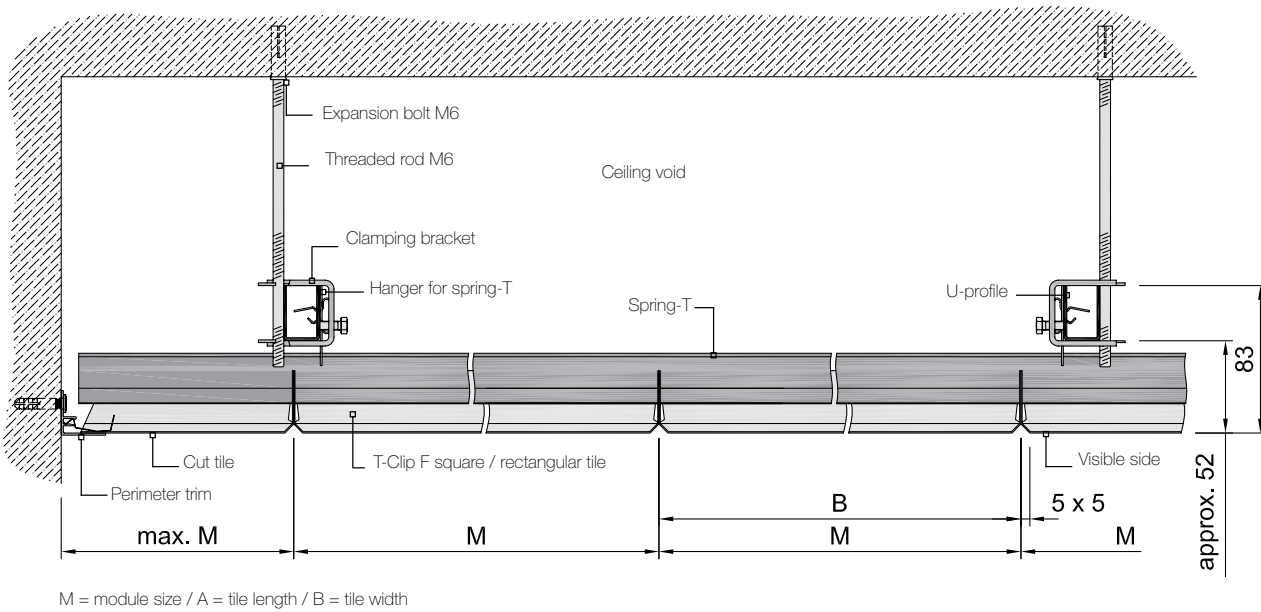
| Item No. | Designation |
|---|---|
| BPM 300100 | U-profile |
| BPM 300119 | Connector for U-profile |
| BPM 300120 | Plug-in clip |
| BPM 300140 | Wall anchor |
| BPM 300121 | Clamping bracket |
| BPM 311111 | Expansion bolt M6 x 30 mm |

| Item No. | Designation |
|---|---|
| BPM 311099 | Threaded rod M6 x 1000 mm |
| BPC2090A | Hanger for spring-T |
| BPC 1801G | Spring-T |
| BPC 1805H | Connector for Spring-T |
| BPC 1775A | Security clip |
| BPM 311046 | Extraction tool |

**Detail A** T-Clip F square tile
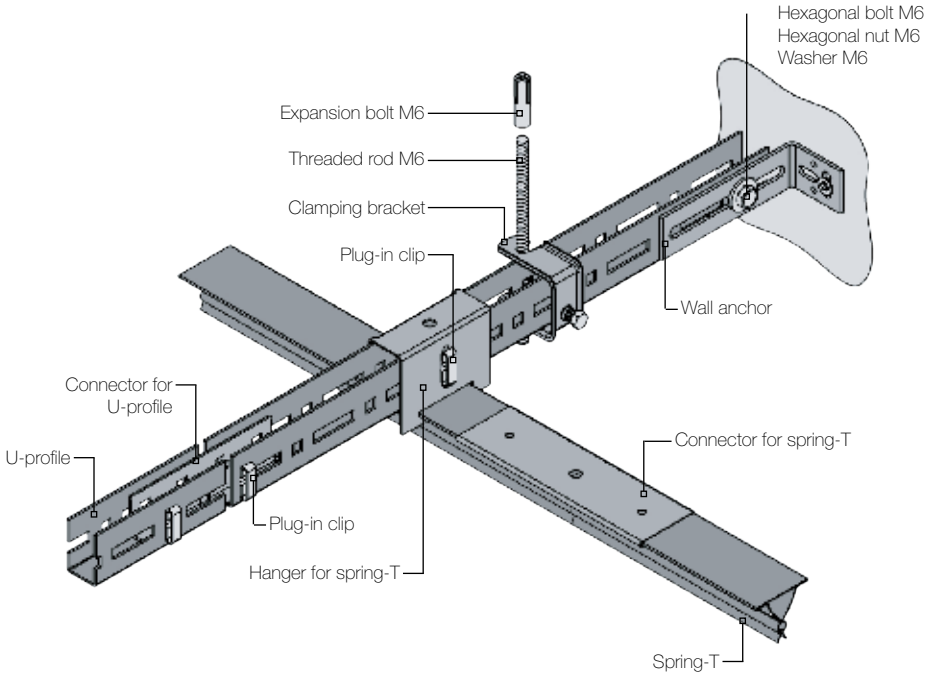
**Detail B** T-Clip rectangular tile option

**Detail F** U-profile suspension methods

**Detail C** Square edged option T-Clip

**Detail D** Security clip option

Security clip

Clamping
bracket

Hanger for
U-profile

Combi Nonius hanger
with Nonius top-part

Combi Nonius hanger
with eye wire

**Detail E** Grid system

Hexagonal bolt M6
Hexagonal nut M6
Washer M6

Expansion bolt M6

Threaded rod M6

Clamping bracket

Plug-in clip

Wall anchor

Connector for
U-profile

Connector for spring-T

U-profile

Plug-in clip

Hanger for spring-T

Spring-T
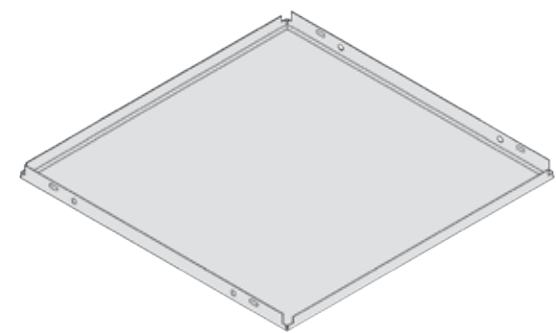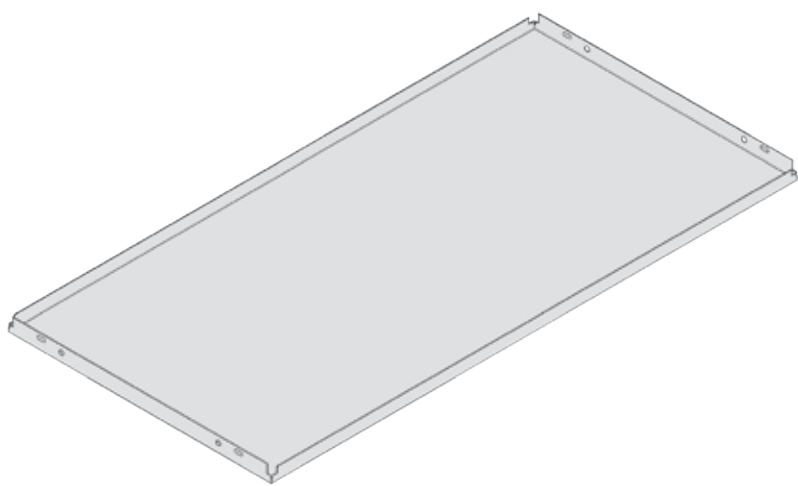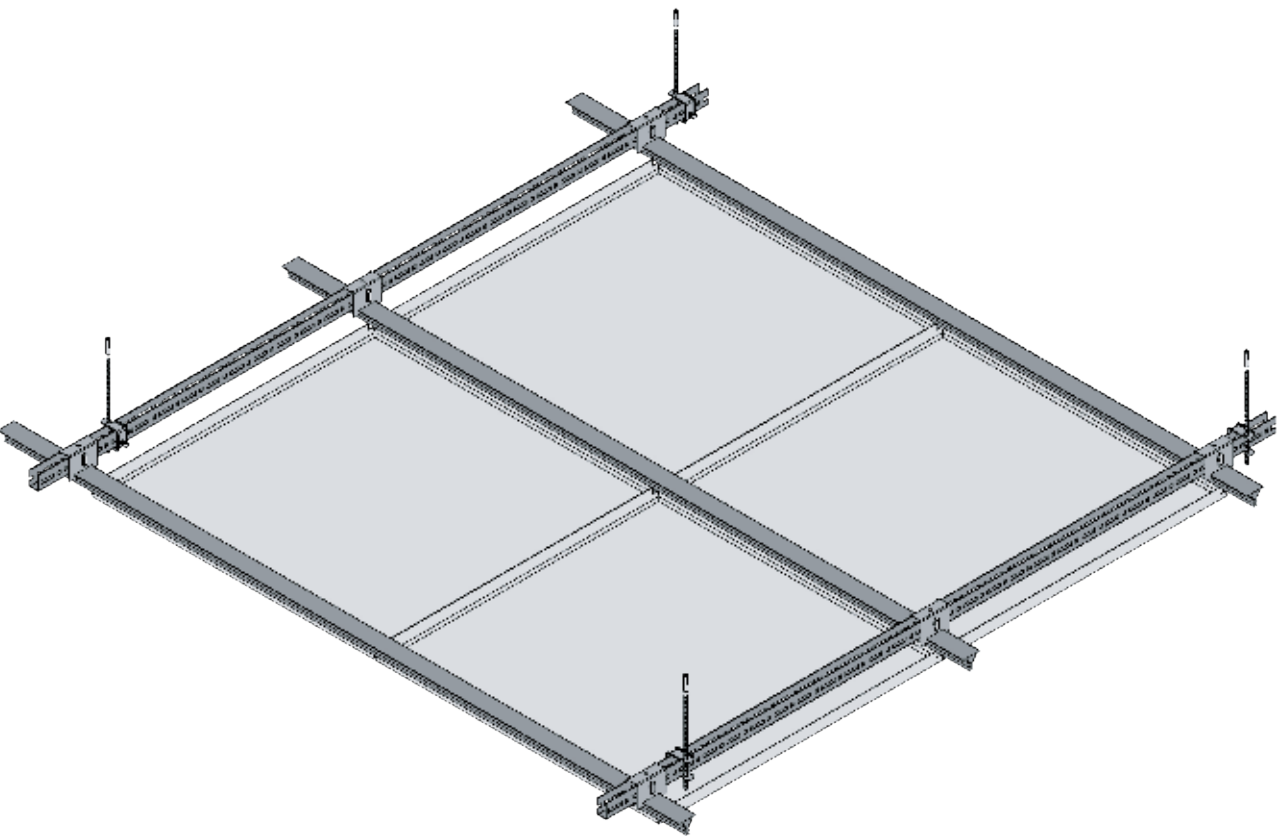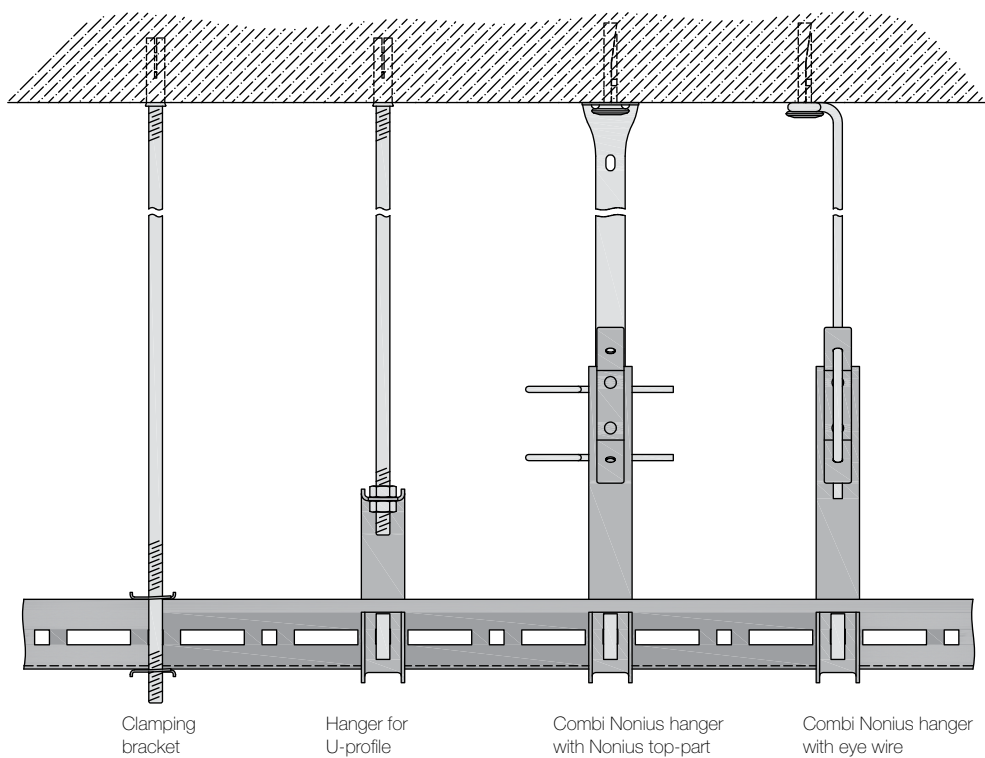
# D-CLIP SYSTEM
## Floating Ceilings

Inspiring Great Spaces™

Armstrong®

# D-CLIP SYSTEM
## FLOATING CEILINGS



### SPECIFICATION

| | | | |
|---|---|---|---|
| System | Armstrong ceiling system D-Clip, Island clip-in solution with concealed grid, suspension height min. 100 mm | Acoustic inlay | Black non-woven acoustic fleece as standard. Other options available on request. |
| Panels material | galvanised steel sheet panel width up to 400 mm 0.6 mm panel width from 401 mm 0.7 mm (aluminium or further materials on request) | Configurable dimensions | panel length 600 - 2500 mm panel width 247 - 600 mm |
| | | Grid system | U-profile + DP12 A-Bar security clip optional available |
| Coating | RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request | Service integration | standard round or rectangular cut-outs according to customer needs |
| Standard panel execution | rectangular panel square edged long sides CA / DA (40 mm) not visible, with standard notching short sides E2 / F2 (40 mm) visible and closed, with optional swing-down function Access | | |
| End panel execution | rectangular panel square edged long sides CA / DA (40 mm) one side not visible, with standard notching one side visible and closed short sides E2 / F2 (40 mm) visible and closed | | |
| Single panel execution | rectangular panel square edged long sides CA / DA (40 mm) visible and closed short sides E2 / F2 (40 mm) visible and closed | | |
| Gap solution | 0 mm gap, without gasket | | |
| Perforation | according to Armstrong range | | |



### STANDARD PERFORATION PATTERNS



**Extra Microperforation Rg 0701**
Hole diameter: 0.7 mm
Open 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.

### BENEFITS
- Modular concept for Optimum flexibility
- Visually defines a space
- Freedom in design
- Modern absorber solution for exposed concrete ceilings
- Standard panels available with swing-down function Access

### APPLICATION AREA
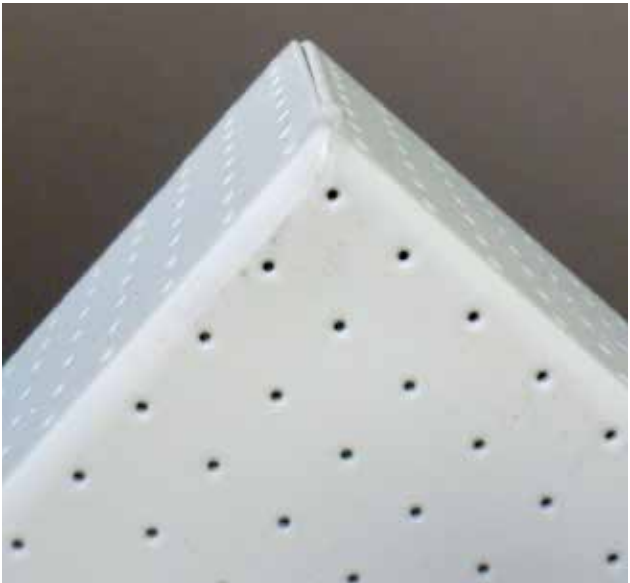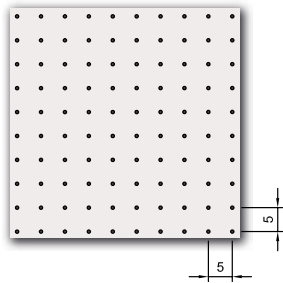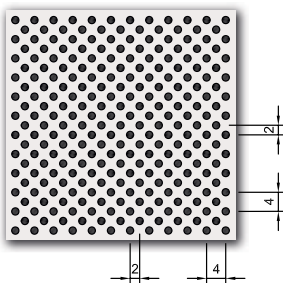- A comtemporary design and acoustic solution for all market segments.

PROJECT: Akademia Obrony Narodowej (PL) :::::::: ARCHITECT: Kontrapunkt V-projekt

## ACOUSTIC PERFORMANCE

Metal ceiling systems have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. These performance values will depend upon the perforation and the acoustic infill. Please contact us for more information on the available factory fitted acoustic options.

## THERMAL CONDUCTIVITY

($\lambda$) W/mK
50.0 : 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 of the painted surface is not recommended.

## COLOUR

### Standard colours
RAL 9010        20% gloss
Global White    12% gloss
RAL 9006        30% gloss
RAL 9007        30% gloss

| RAL 9010 | Global White | RAL 9006 | RAL 9007 |

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

## QUALITY STANDARD

Armstrong is a certified **EN ISO 9001:2008** Quality Assured 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).
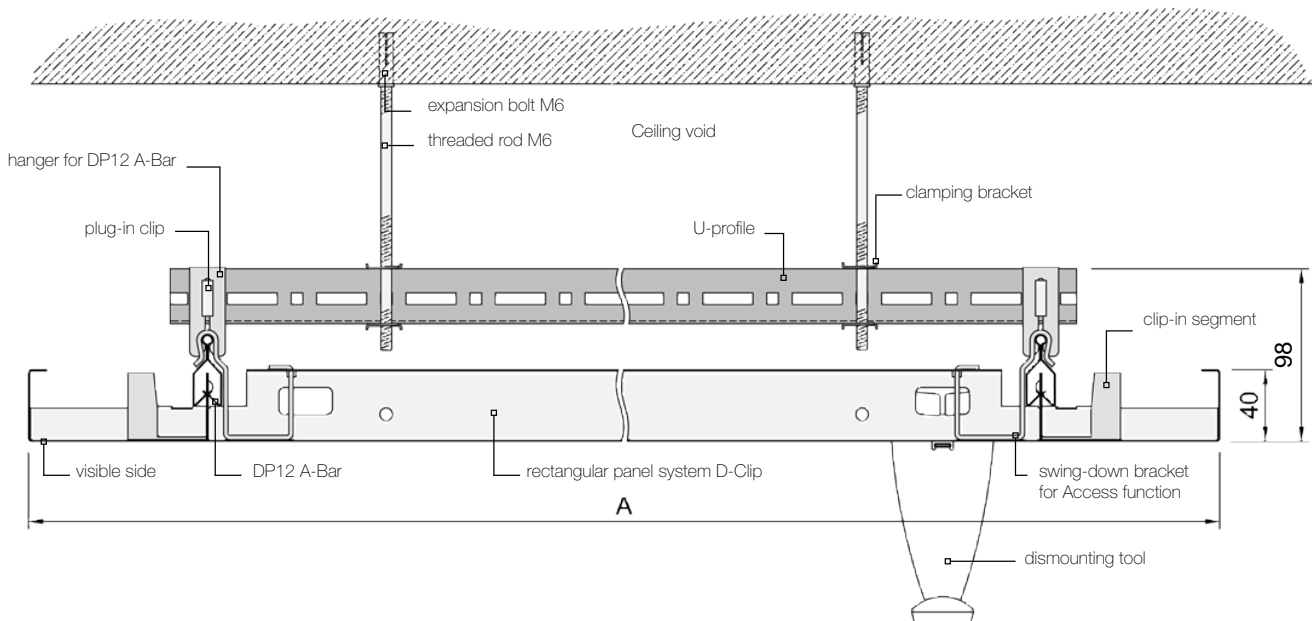
| | Sustainability | | Acoustics | | | | | Safe & Healthy | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Recycled content (%) | Light reflectance (%) | $\alpha_w$ up to | Sound absorption class | NRC up to | Dncw / Dnfw (dB) up to | Rw (dB) up to | Fire reaction | Humidity Resistance (%) up to | Cleanability | Bioguard paint option | Scratch resistance |
| Extra Microperforation Rg 0701 (2) | up to 30 | 80 | 0.55(L) | D | 0.65 | 21 | 10 | A2-s2, d0 | 95 | wipeable moist cloth (3) | ✔ | ✔ |
| Microperforation Rd 1522 (2) | up to 30 | 65 | 0.70 | C | 0.70 | 16 | 6 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Standard Perforation Rg 2516 (2) | up to 30 | 70 | 0.75(L) | C | 0.80 | 18 | 8 | A2-s2, d0 | 95 | wipeable moist cloth (3) | | ✔ |
| Plain / Unperforated (1) | up to 30 | 85 | 0.10(L) | Not Classified | 0.10 | 44 | 19 | A1 | 95 | scrubbable | ✔ | ✔ |

(1) RAL 9010 colour, without acoustic inlay. (2) RAL 9010 colour, with black acoustic fleece glued on rear. (3) Wipeable moist cloth for preforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
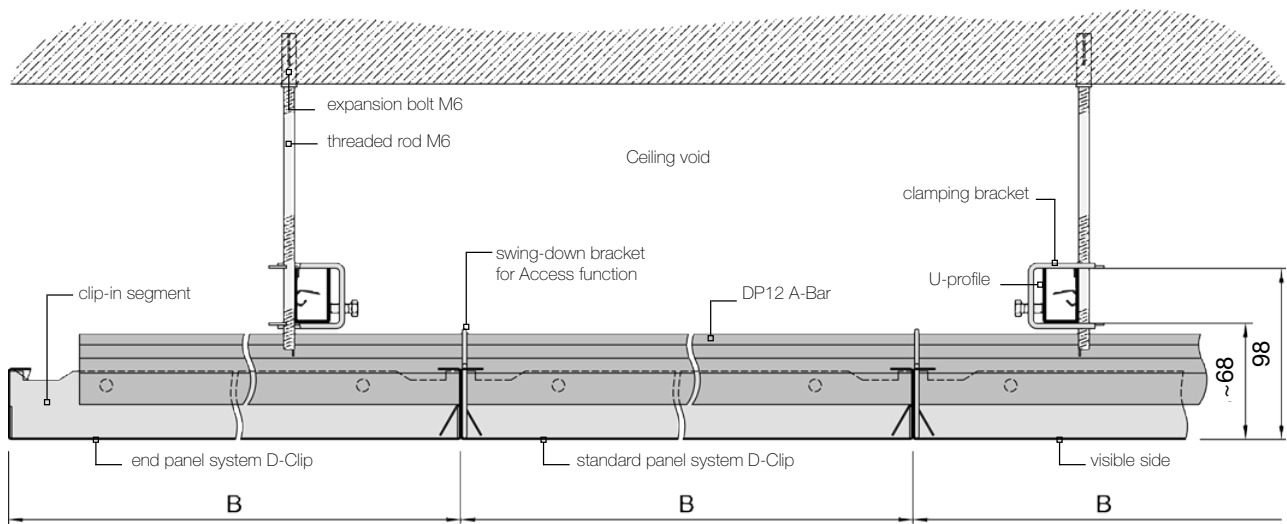
PROJECT: SWAREFLEX GMBH – Vomp  :::::::: ARCHITECT: BESTO ZT GmbH, Arch. Bernhard Stoehr
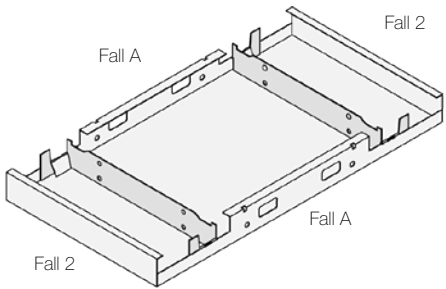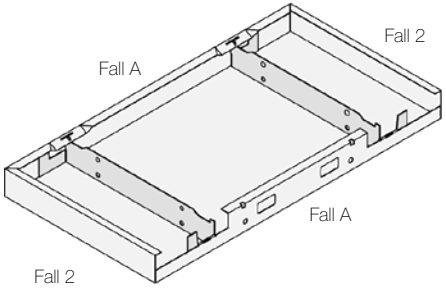
## CROSS-SECTION

expansion bolt M6
threaded rod M6
Ceiling void
hanger for DP12 A-Bar
clamping bracket
plug-in clip
U-profile
clip-in segment
98
40
visible side
DP12 A-Bar
rectangular panel system D-Clip
swing-down bracket for Access function
A
dismounting tool

## LONGITUDINAL-SECTION

expansion bolt M6
threaded rod M6
Ceiling void
clamping bracket
swing-down bracket for Access function
U-profile
clip-in segment
DP12 A-Bar
98
~68
end panel system D-Clip
standard panel system D-Clip
visible side
B          B          B

| Item No. | Designation |
|----------|-------------|
| BPM 300100 | U-profile |
| BPM 300121 | clamping bracket |
| BPM 311111 | expansion bolt M6 x 30 mm |
| BPM 311099 | threaded rod M6 x 1'000 mm |
| BPM 311022 | DP12 A-Bar |
| BPM 300138 | connection pin for DP12 A-Bar |

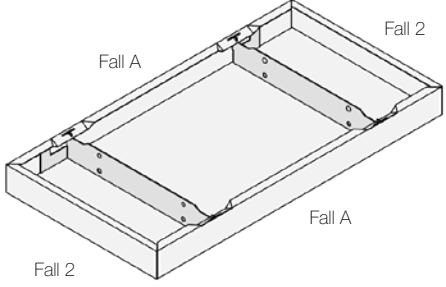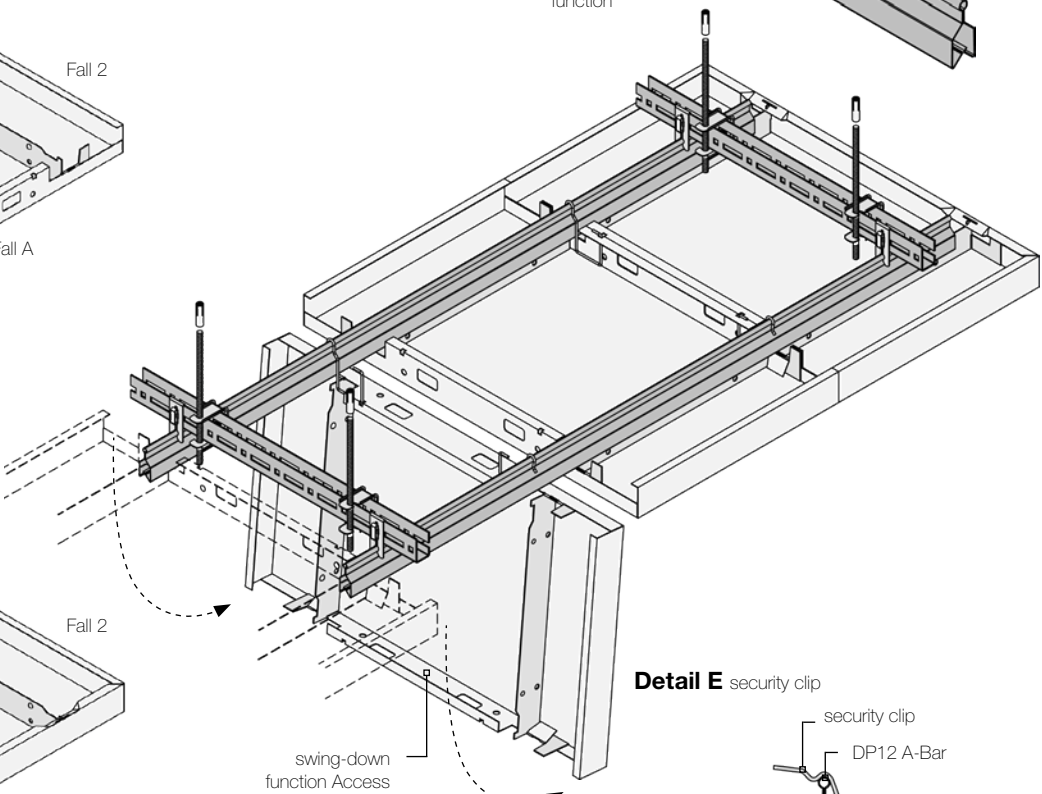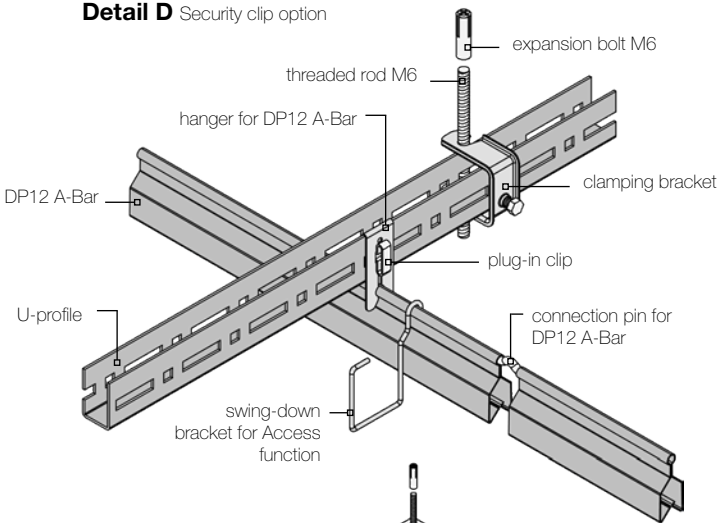| Item No. | Designation |
|----------|-------------|
| BPM300105D | hanger for DP12 A-Bar |
| BPM 300120 | plug-in clip |
| BPM 300188 | swing-down bracket for Access function |
| BPM 300106 | security clip |
| BPM 311028 | dismounting tool |

**Detail A** D-Clip standard panel

Fall A
Fall 2
Fall A
Fall 2

**Detail B** D-Clip end panel

Fall A
Fall 2
Fall A
Fall 2

**Detail C** D-Clip single panel

Fall A
Fall 2
Fall A
Fall 2

**Detail D** Security clip option

expansion bolt M6
threaded rod M6
hanger for DP12 A-Bar
clamping bracket
DP12 A-Bar
plug-in clip
U-profile
connection pin for DP12 A-Bar
swing-down bracket for Access function

swing-down function Access

**Detail E** security clip

security clip
DP12 A-Bar
rectangular panel system D-Clip

## Layout options

End panel
Standard panel
Standard panel
Standard panel
Standard panel
End panel

End panel
End panel
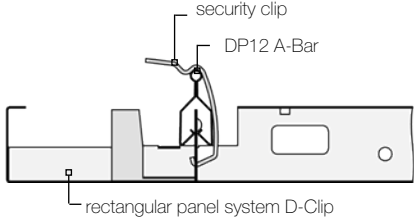
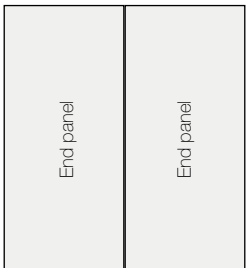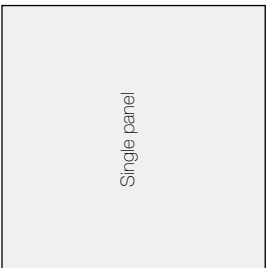Single panel

Modular option 1

Modular option 2

Single panel option

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