

Metal
product

Q-CLIP SYSTEM Square tiles

Inspiring Great Spaces™

Armstrong®
CEILING SOLUTIONS



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

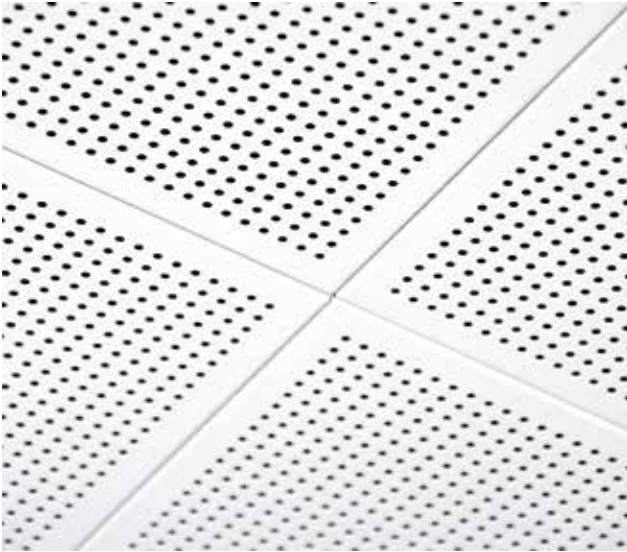
Q-CLIP SYSTEM SQUARE TILES

SPECIFICATION

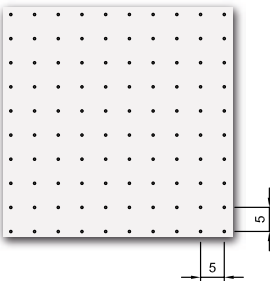
System	Armstrong ceiling system Q-Clip, Clip-In solution with concealed grid, with optional swing-down "Window" function, suspension height min. 100 mm
Tile material	galvanised steel sheet 0.5 mm (aluminium or further materials on request)
Coating	RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request
Execution*	Q-Clip: square tile square edged 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: 600 x 600 mm 625 x 625 mm Q-Clip F: 500 x 500 mm 600 x 600 mm 600 x 300 mm (no "Window" function) 625 x 625 mm 625 x 312.5 mm (no "Window" function)
Grid system	GemaGrid® System in combination with clamping rail DP 12, security clip optional available, further suspension methods on request

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

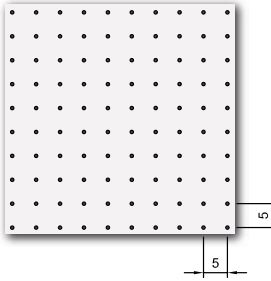
Perimeter solution	Range of standards trims in steel and aluminium plus custom bulkheads available.
Service integration	standard round or rectangular cut-outs plus customized options on request.
Special capabilities	- secured exterior ceiling solution - seismic ceiling solution - clean room ceiling solution - can be combined with other Armstrong products



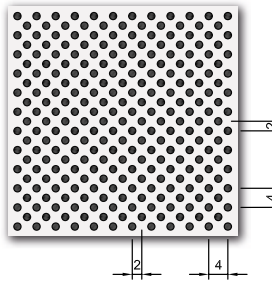
STANDARD PERFORATION PATTERNS



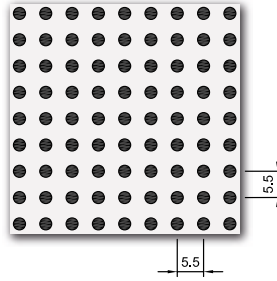
Ultra Microperforation Rg 0501
Hole diameter: 0.5 mm
Open area: 0.64 %



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.

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

(λ) 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



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.

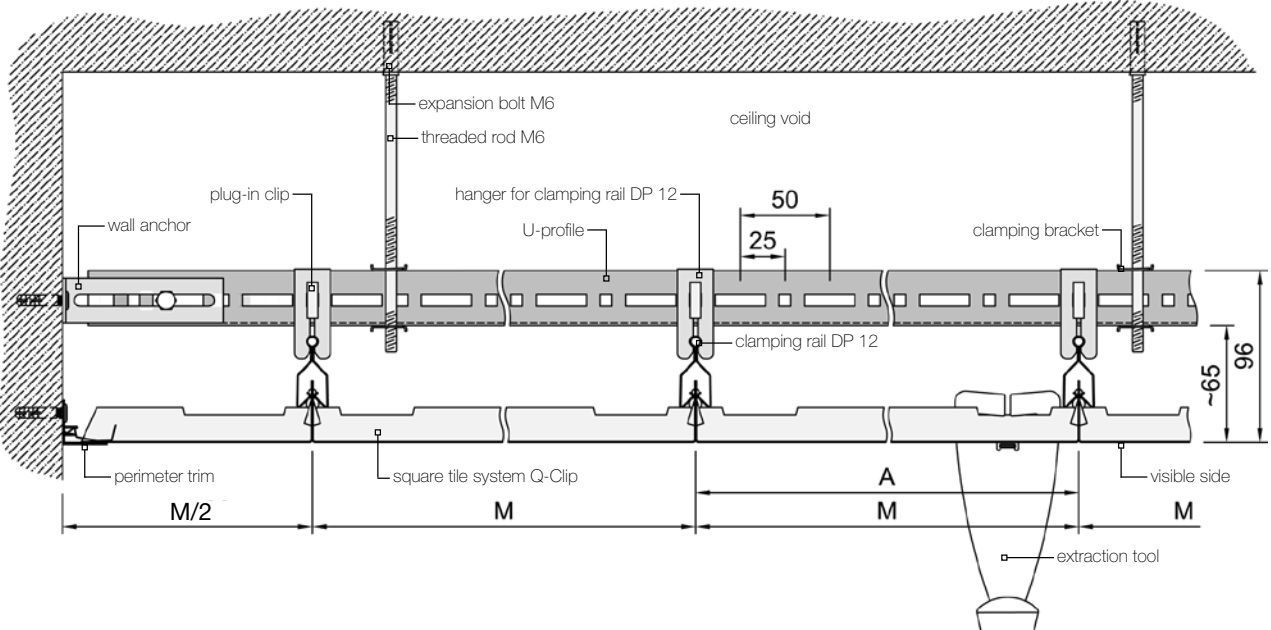
ENVIRONMENTAL

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).

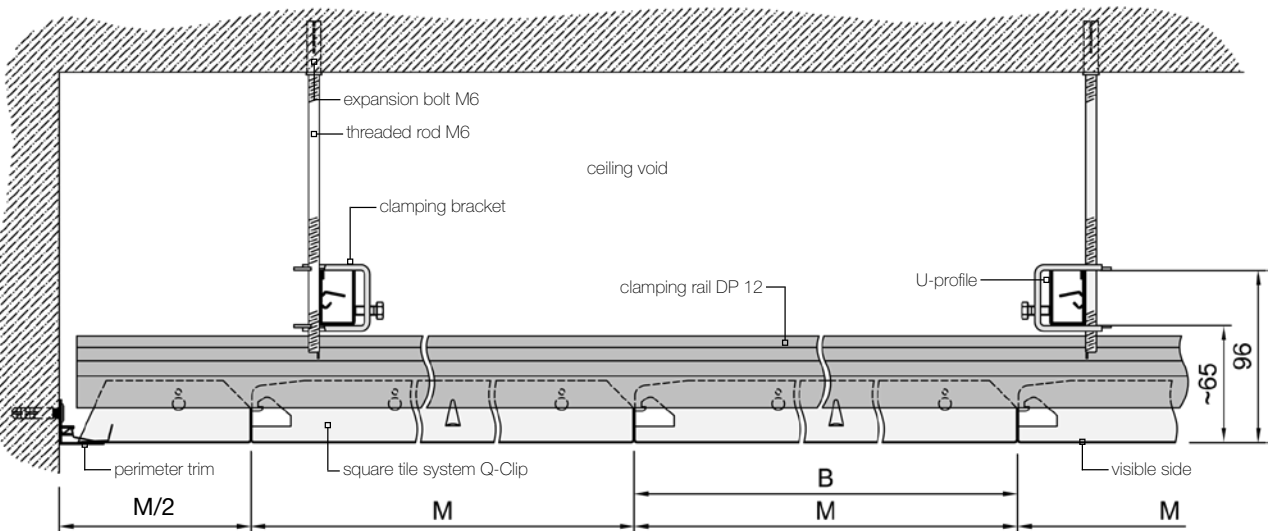
Sustainability		Acoustics						Safe & Healthy				
Recycled content (%)	Light reflectance (%)	α _w up to	Sound absorption class	NRC up to	Dncw / Dnfw (dB) up to	Rw (dB) up to	Fire reaction	Humidity Resistance (%) up to	Cleanability	Bioguard paint option	Scratch resistance	
Ultra Microperforation Rg 0501 (1)	up to 30	83	0.45(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 perforated 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).

CROSS-SECTION Q-CLIP



LONGITUDINAL-SECTION Q-CLIP

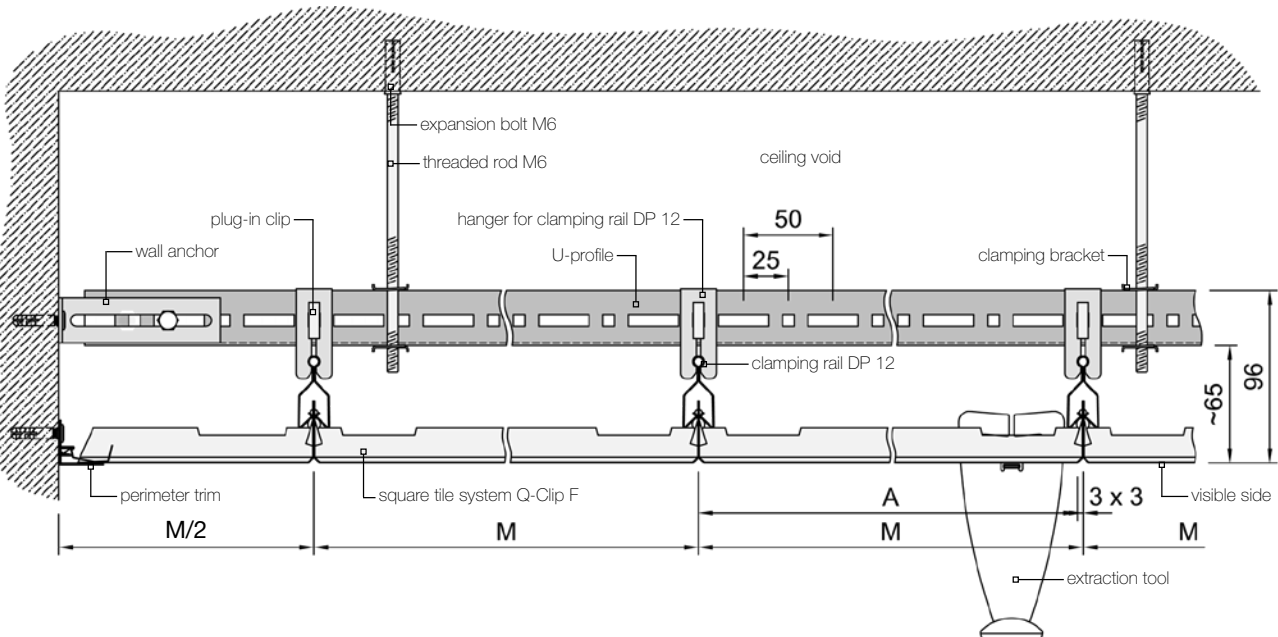


M = module size / A = tile length / B = tile width

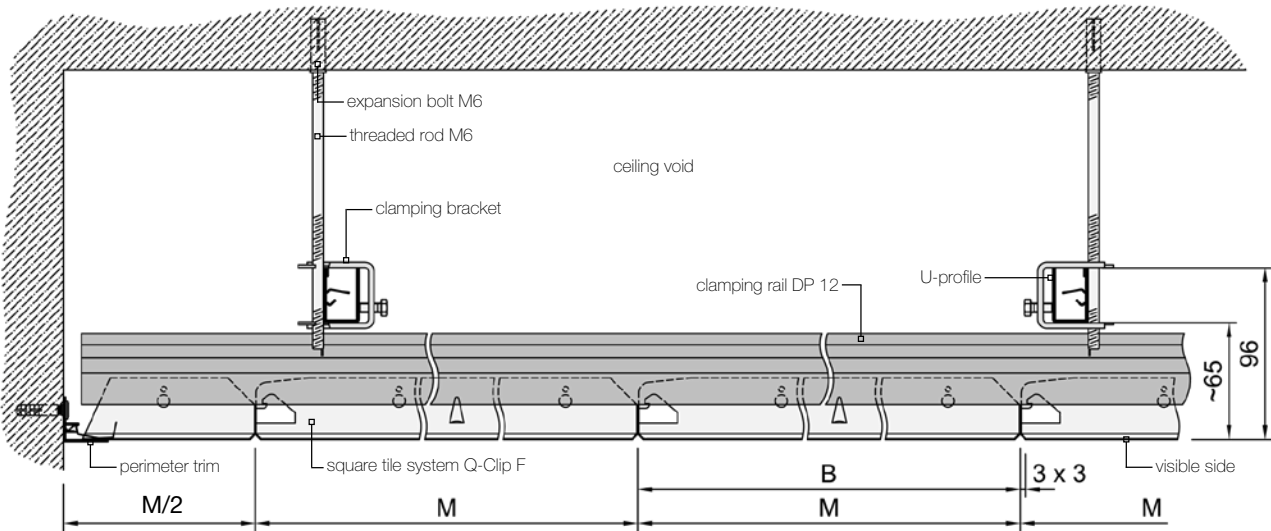
Item No.	Designation
BPM 300100	U-profile
BPM 300119	connector for U-profile
BPM 300120	plug-in clip
BPM 300140	wall anchor
BPM 300121	clamping bracket
BPM 311111	expansion bolt M6 x 30 mm
BPM 311099	threaded rod M6 x 1'000 mm
BPM 311022	clamping rail DP 12
BPM 300138	connection pin for clamping rail DP 12

Item No.	Designation
BPM 300105	hanger for clamping rail DP 12
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

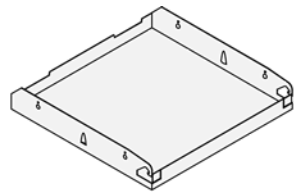


LONGITUDINAL-SECTION Q-CLIP F

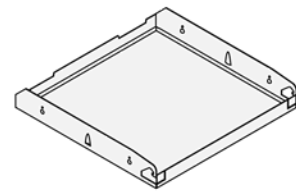


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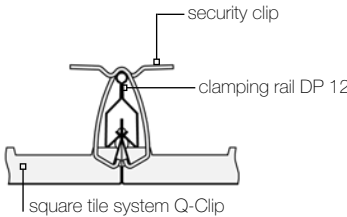
Detail A Q-Clip square tile



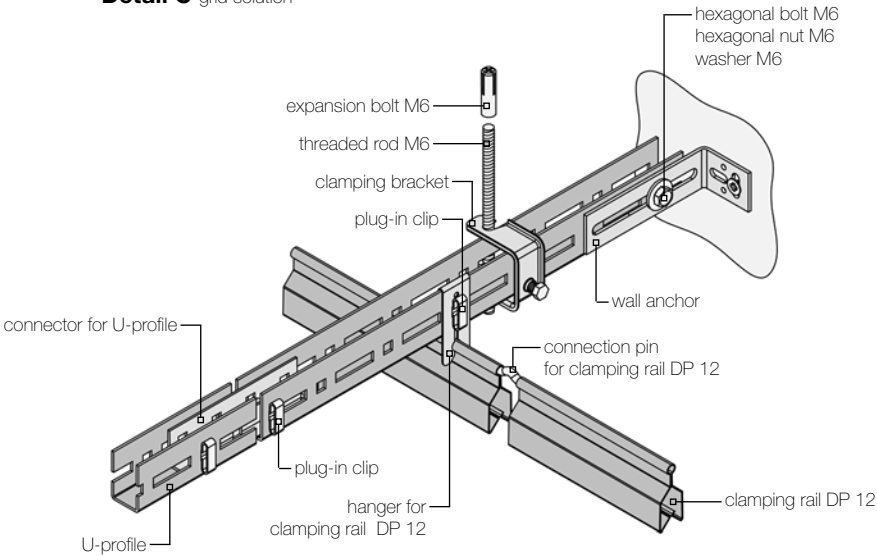
Detail B Q-Clip F square tile



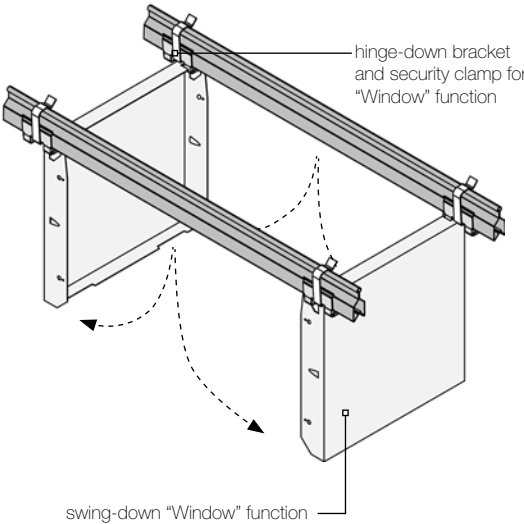
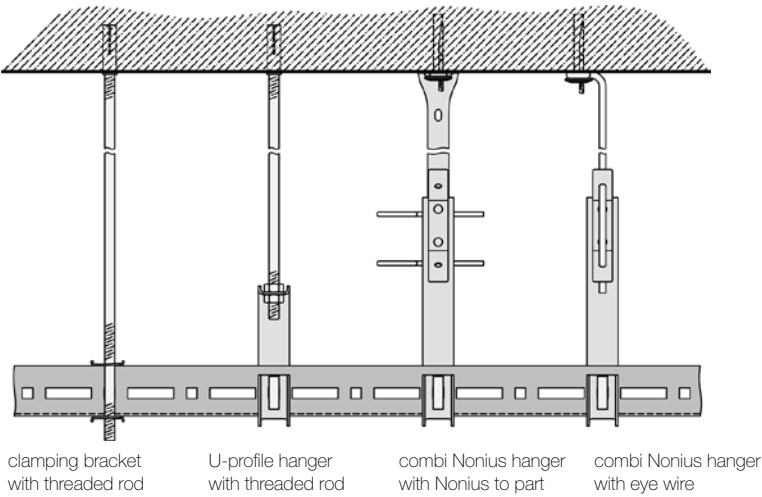
Detail D security clip



Detail C grid solution



Detail E suspension methods



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

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