

METAL LEAFLET LAY-IN

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A photograph of a modern office interior. The ceiling is composed of white, square and rectangular Lay-In Board tiles. Several square acoustic tiles are visible, some of which are recessed into the ceiling. The office space includes desks, computers, and a person working. Large windows with diagonal structural elements are in the background. A potted plant is in the foreground on the left.

Metal
product

LAY-IN BOARD

Square & rectangular tiles

Inspiring Great Spaces™

Armstrong®
CEILING SOLUTIONS

LAY-IN BOARD

SQUARE & RECTANGULAR TILES

BENEFITS

- Diversity of design and application
- Easily assembled and fully demountable
- Cost effective ceiling solution
- Tiles are easily lifted out by hand, allowing full and easy access to the ceiling void.

APPLICATION AREA

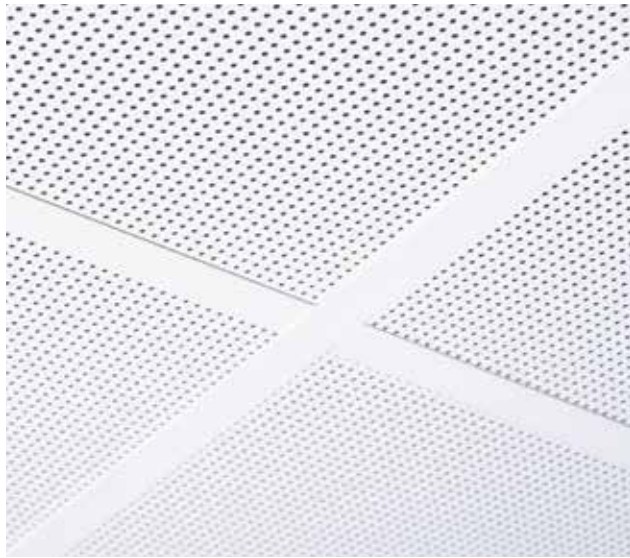
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.

SPECIFICATION

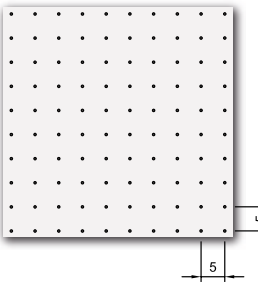
System	Armstrong ceiling system Board, Lay-In solution with visible grid 24 mm
Tile material	galvanised steel sheet 0.5 mm (aluminium or other materials on request)
Execution*	square tile square edged with standard notching
Standard modules	600 x 600 mm 625 x 625 mm 1200 x 600 mm
Grid system	tested modular system Prelude TLX 24 further suspension methods on request
Coating	RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request
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

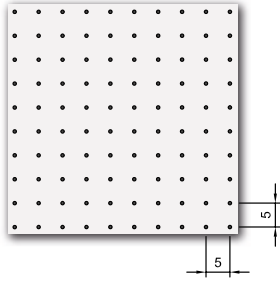
Perimeter solution	Range of standards trims in steel and aluminium plus custom bulkheads available
Service integration	standard round or rectangular cut-outs plus customised options on request.



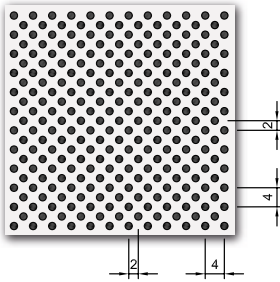
STANDARD PERFORATION PATTERNS



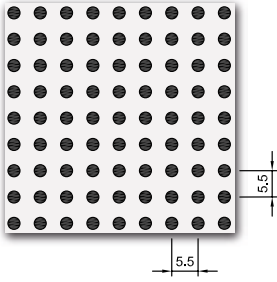
Ultra Microperforation Rg 0501
Hole diameter: 0.5 mm
Free area: 0.64 %



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%

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 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.

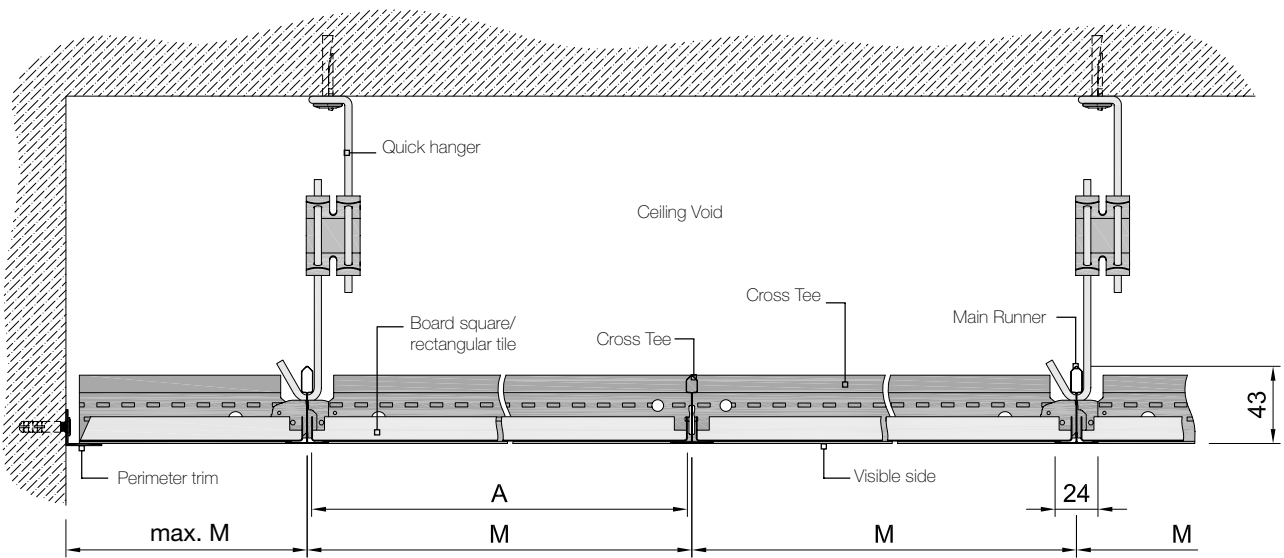
ENVIRONMENTAL

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).

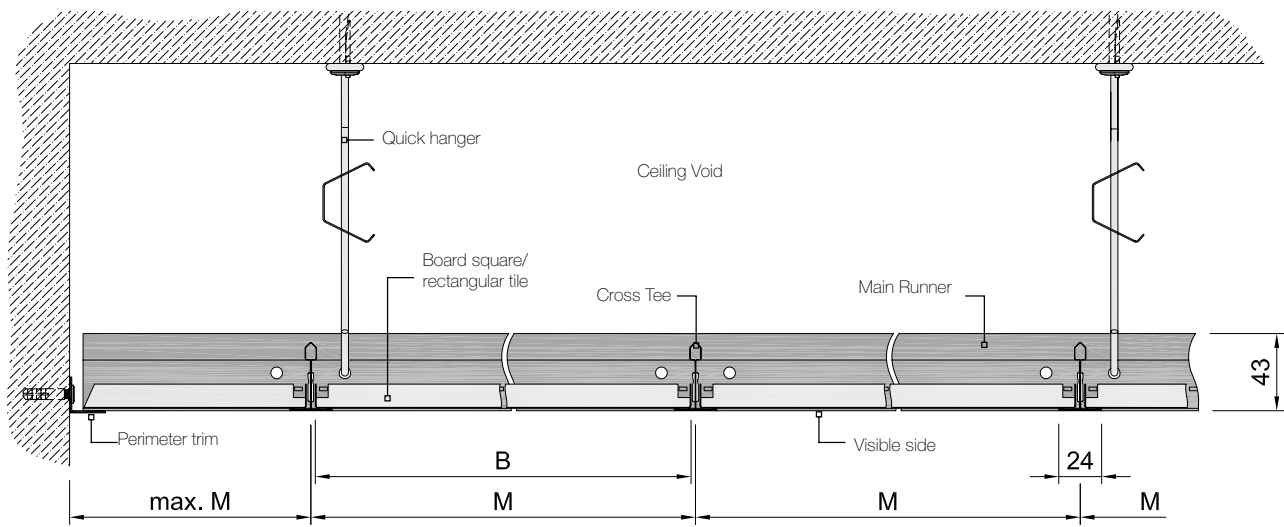
	Sustainability		Acoustics					Safe & Healthy				
	 ISO 14021											
	Recycled content (%)	Light reflectance (%)	α _w up to	Sound absorption class	NRC up to	Dncw / Dnfw (dB) up to	Rw (dB) up to	Fire reaction	Humidity Resistance (%) up to	Cleanability	Bioguard paint option	Scratch resistance
Ultra 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)		✓
Standardperforated 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	47	21	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 perforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.

CROSS-SECTION BOARD

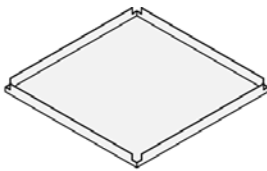


LONGITUDINAL-SECTION BOARD

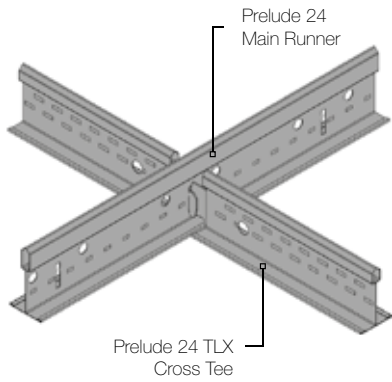


M = module size / A = panel length / B = panel width

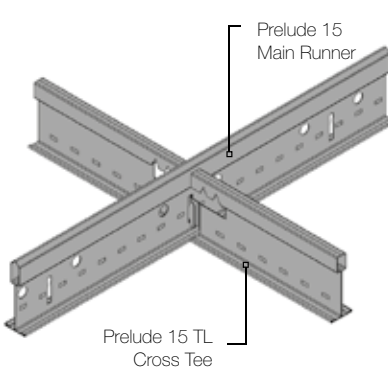
Detail A Board square tile



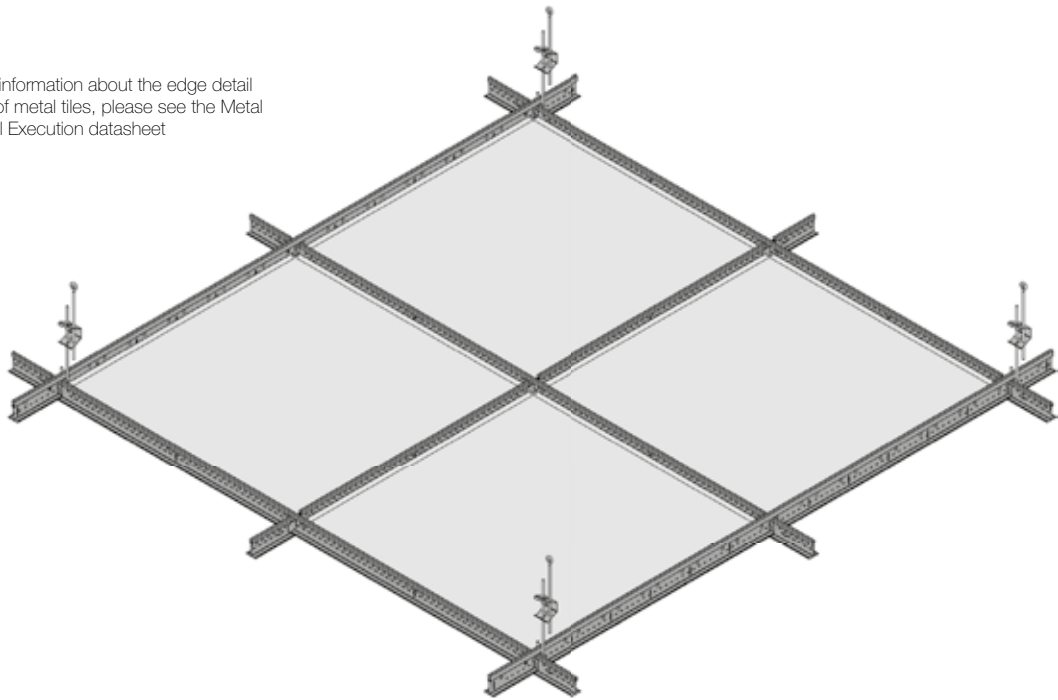
Detail B Prelude 24 TLX grid option



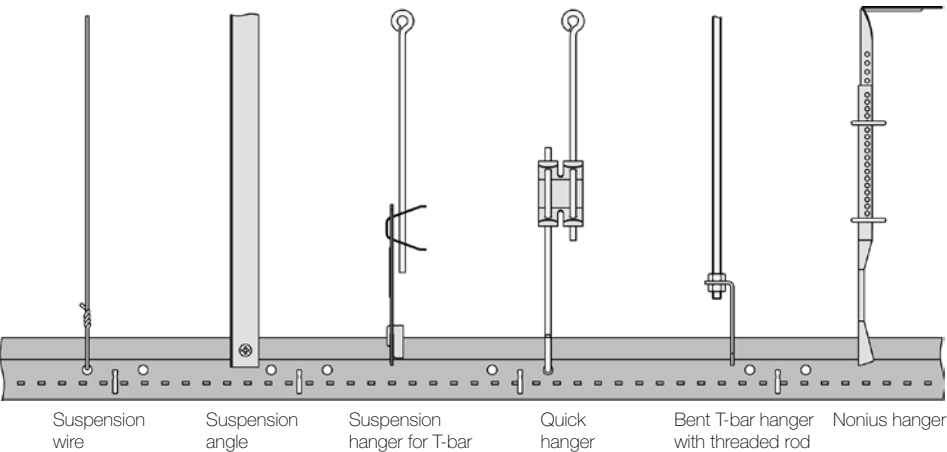
Detail C Prelude 15 TL grid option



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



Detail D suspension methods



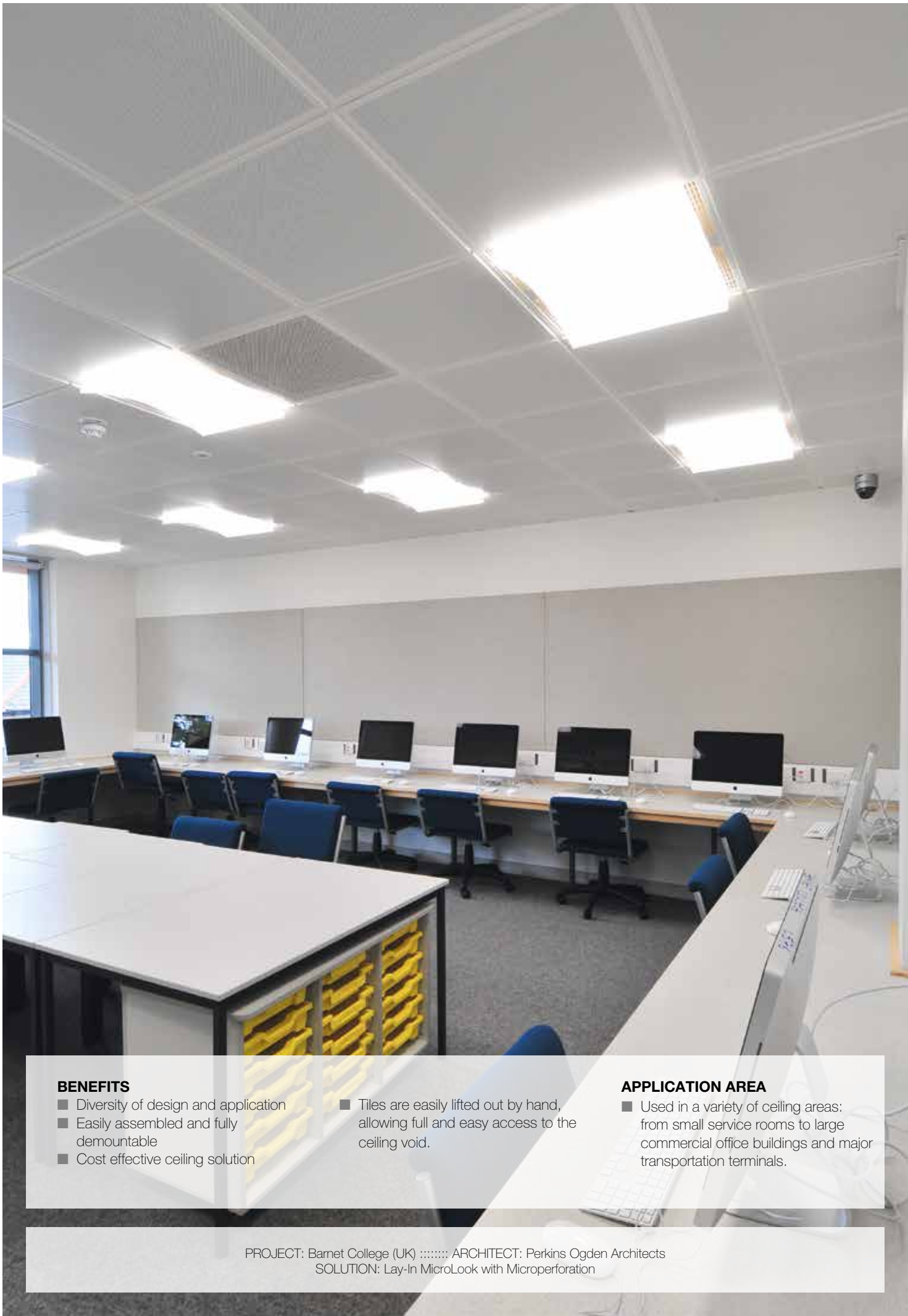
Metal
product

LAY-IN MICROLOOK

Square & rectangular tiles

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CEILING SOLUTIONS



BENEFITS

- Diversity of design and application
- Easily assembled and fully demountable
- Cost effective ceiling solution
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APPLICATION AREA

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

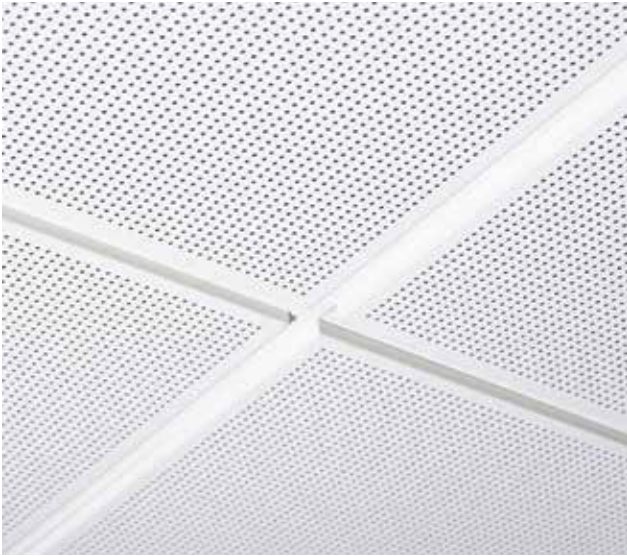
PROJECT: Barnet College (UK) ::::: ARCHITECT: Perkins Ogden Architects
SOLUTION: Lay-In MicroLook with Microperforation

LAY-IN MICROLOOK SQUARE & RECTANGULAR TILES

SPECIFICATION

System	Armstrong ceiling system MicroLook 8 & 16 Lay-In solution with visible grid 15 mm	
Panels Material	galvanised steel sheet 0.5 mm (0.6 mm for module 750 x 750 mm) (aluminium or further materials on request)	
Execution*	square tile square edged with 8 mm or 16 mm drop and standard notching	
Standard modules		
MicroLook 8:	500 x 500 mm 675 x 675 mm 300 x 1200 mm	600 x 600 mm 750 x 750 mm 600 x 1200 mm
MicroLook 16:	500 x 500 mm 675 x 675 mm	600 x 600 mm 750 x 750 mm
Grid system	tested modular system Prelude TL 15 / XL ² 15, 15. Optional design grid Silhouette or Interlude. Further suspension methods on request	
Coating	RAL 9010 pure white post-coated powder painted visible surface, other RAL or NCS colours on request	
Acoustic inlay	Black non-woven acoustic fleece as standard. Other options available 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

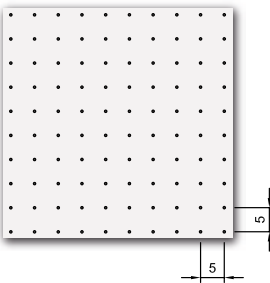


MicroLook 8

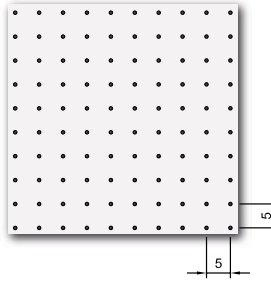


MicroLook 16

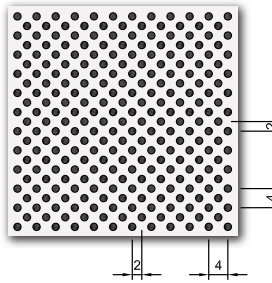
STANDARD PERFORATION PATTERNS



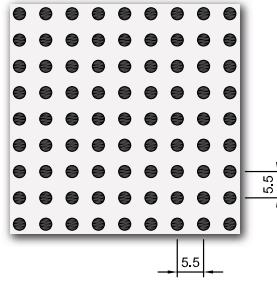
**Ultra Microperforation
Rg 0501**
Hole diameter: 0.5 mm
Free area: 0.64 %



**Extra Microperforation
Rg 0701**
Hole diameter: 0.7 mm
Free area: 1.5 %



**Microperforation
Rg 1522**
Hole diameter: 1.5 mm
Open area: 22%



**Standard Perforation
Rg 2516**
Hole diameter: 2.5 mm
Open area: 16%

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

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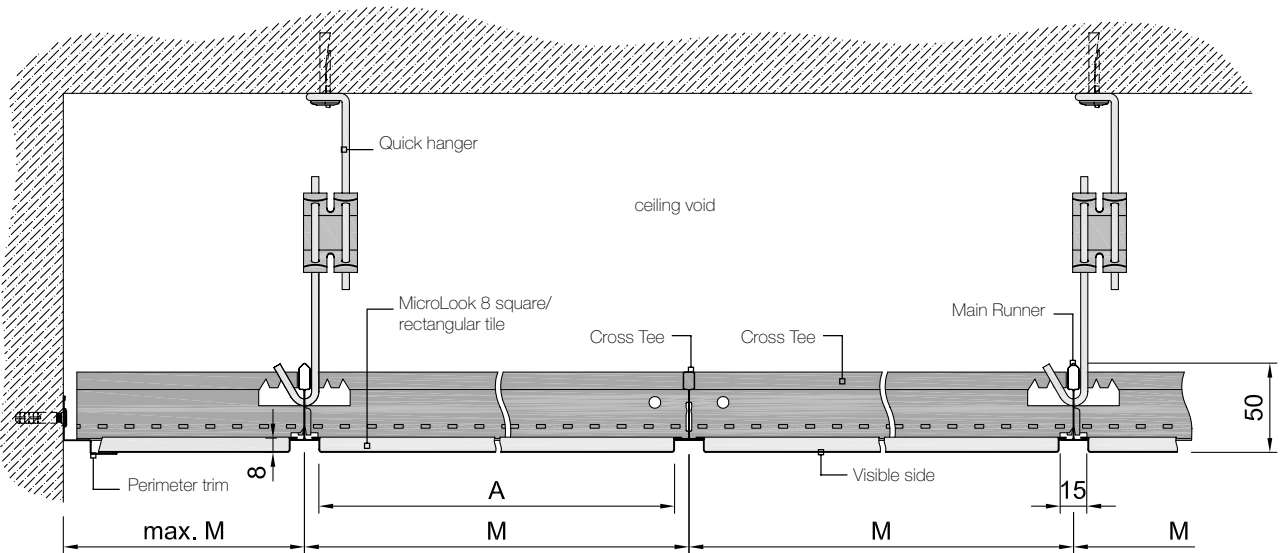
ENVIRONMENTAL

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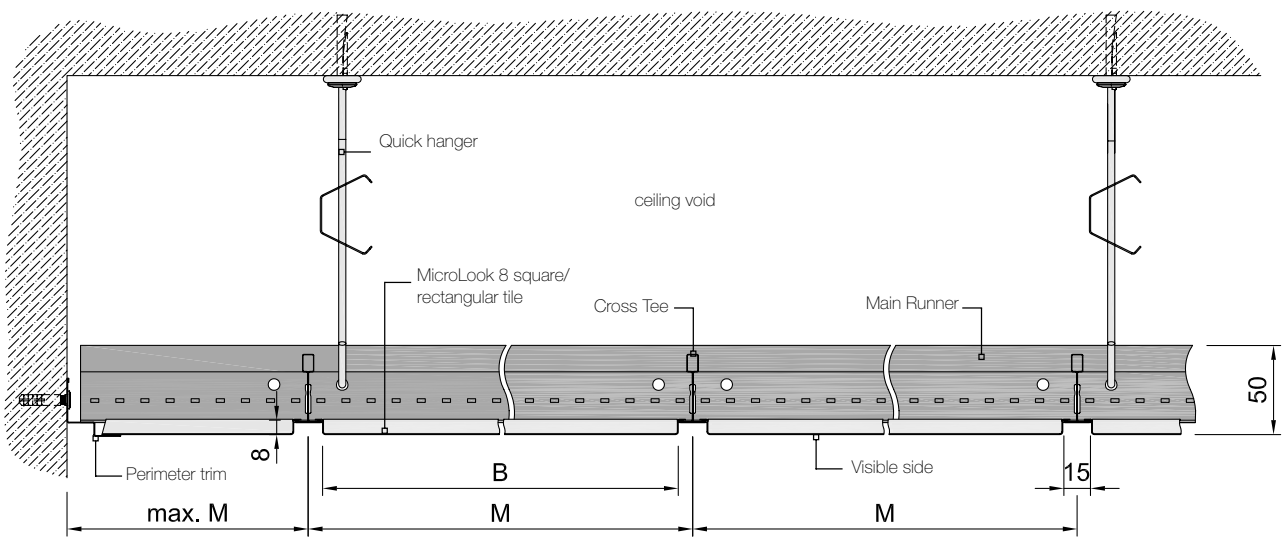
Sustainability		Acoustics						Safe & Healthy				
ISO 14021												
Recycled content (%)	Light reflectance (%)	α _w up to	Sound absorption class	NRC up to	Dncw / Dnfw (dB) up to	Rw (dB) up to	Fire reaction	Humidity Resistance (%) up to	Cleanability	Bioguard paint option	Scratch resistance	
Ultra 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)		✓
Standardperforated 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	47	21	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 perforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.

CROSS-SECTION MICROLOOK 8

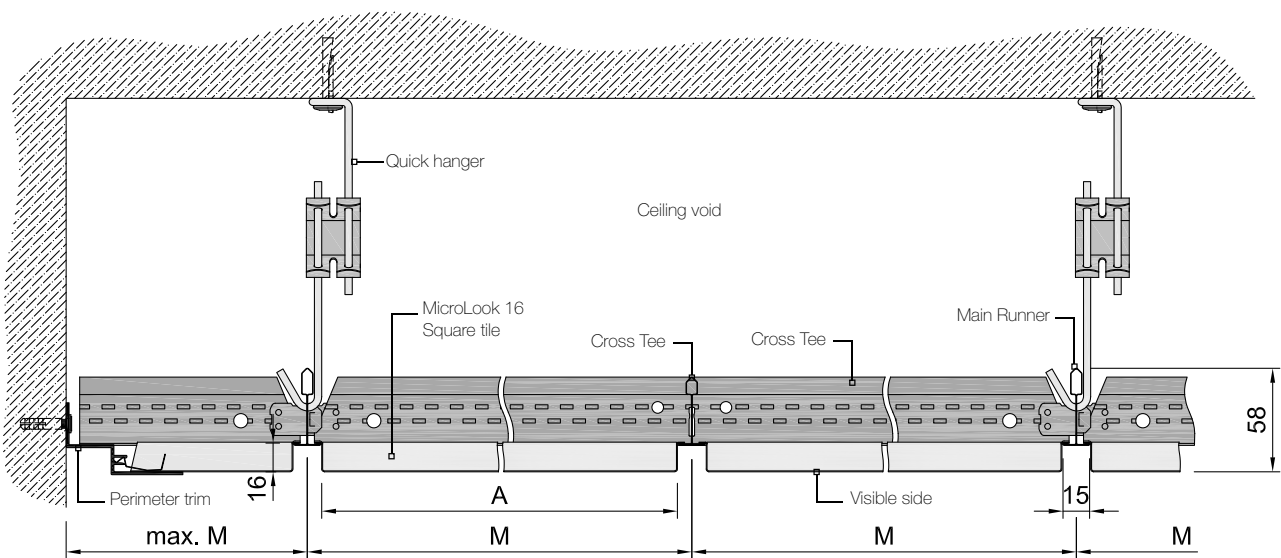


LONGITUDINAL-SECTION MICROLOOK 8

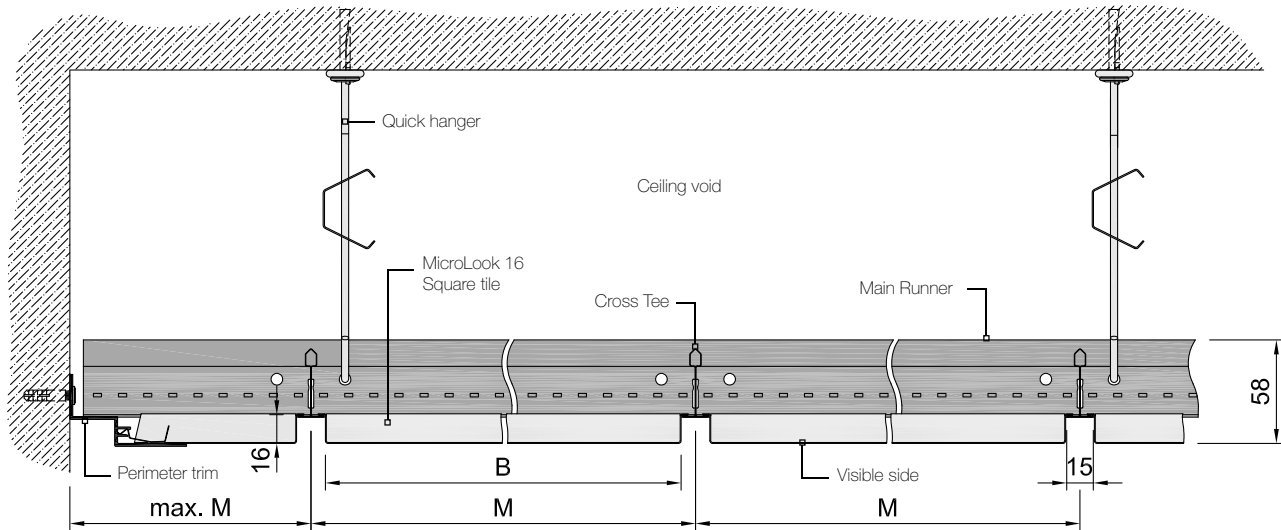


M = module size / A = panel length / B = panel width

CROSS-SECTION MICROLOOK 16

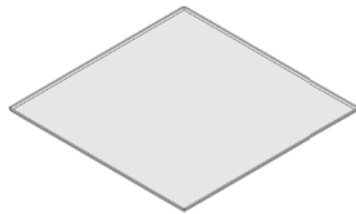


LONGITUDINAL-SECTION MICROLOOK 16

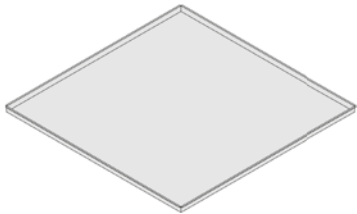


M = module size / A = panel length / B = panel width

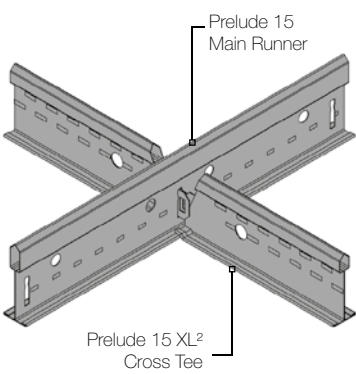
Detail A MicroLook 8 square tile option



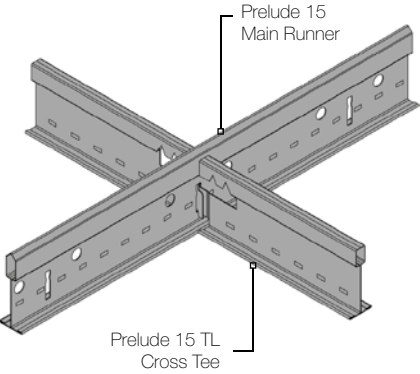
Detail B MicroLook 16 square tile



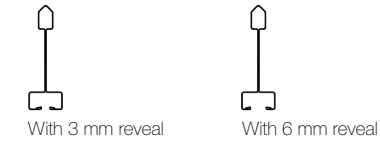
Detail C grid system



Detail D grid system



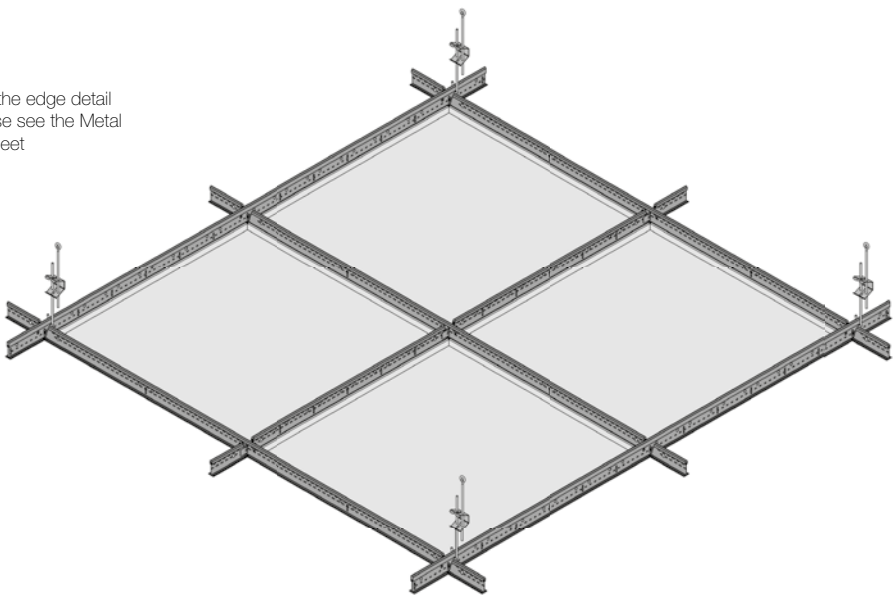
Detail E Design grid Silhouette 15 XL²



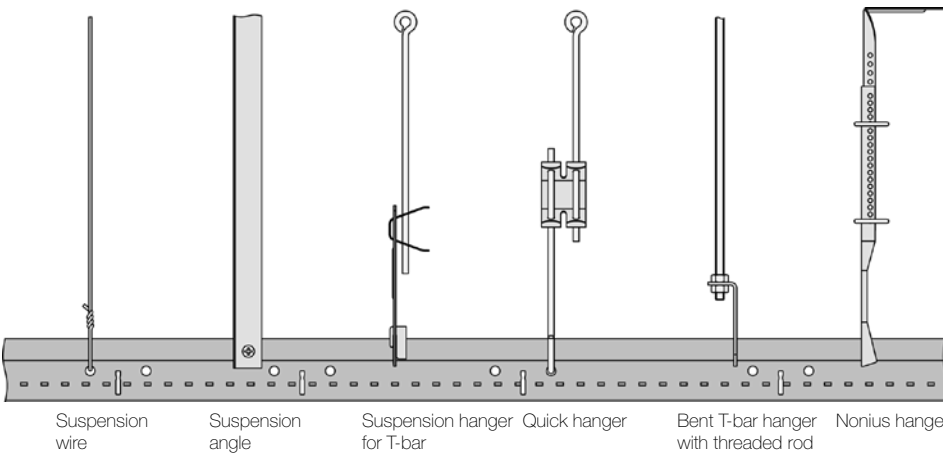
Detail F Design grid Interlude 15 XL²



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



Detail G suspension methods



Metal
product

LAY-IN TEGULAR Square & rectangular tiles

Inspiring Great Spaces™

Armstrong®
CEILING SOLUTIONS



BENEFITS

- Diversity of design and application
- Easily assembled and fully demountable
- Cost effective ceiling solution

APPLICATION AREA

- Tiles are easily lifted out by hand, allowing full and easy access to the ceiling void.
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.

PROJECT: Leman Cake Decorations : ARCHITECT: Didier Leman
SOLUTION: Tegular 8 with Microperforation

LAY-IN TEGULAR SQUARE & RECTANGULAR TILES

SPECIFICATION

System	Armstrong ceiling system Tegular 2, 8, 11F and 16 Lay-In solution with visible grid 24 mm
Tile material	galvanised steel sheet 0.5 mm (0.6 mm for module 750 x 750 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
Tile details	TEGULAR 2: square tile square edged with 2.5 mm drop and standard notching TEGULAR 8: square tile square edged with 8 mm drop and standard notching
Acoustic inlay	Black non-woven acoustic fleece as standard. Other options available on request.

Standard modules	TEGULAR 2:	600 x 600 mm 625 x 625 mm
	TEGULAR 8:	500 x 500 mm 600 x 600 mm 675 x 675 mm 300 x 1200 mm 600 x 1200 mm
	TEGULAR 11F:	600 x 600 mm 625 x 625 mm 600 x 1200 mm
	TEGULAR 16:	500 x 500 mm 600 x 600 mm 675 x 675 mm 750 x 750 mm
Grid system	Prelude 24 TLX and XL ² (NB: only TLX for Tegular 2) further suspension systems 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	



Tegular 2



Tegular 8

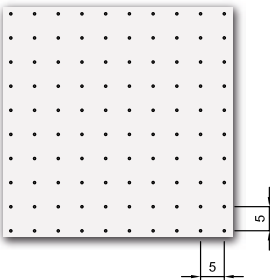


Tegular 11F

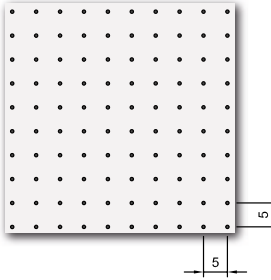


Tegular 16

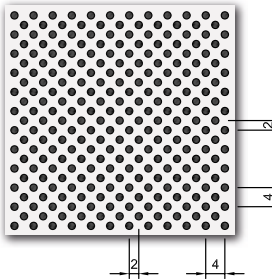
STANDARD PERFORATION PATTERNS



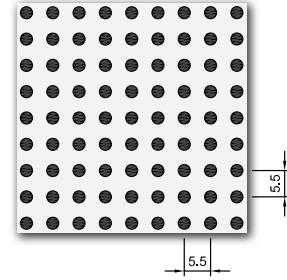
**Ultra Microperforation*
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Hole diameter: 0.5 mm
Free area: 0.64 %



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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%

*only available for Tegular 2 and Tegular 11F

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.

COLOURS

Standard colour

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

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ENVIRONMENTAL

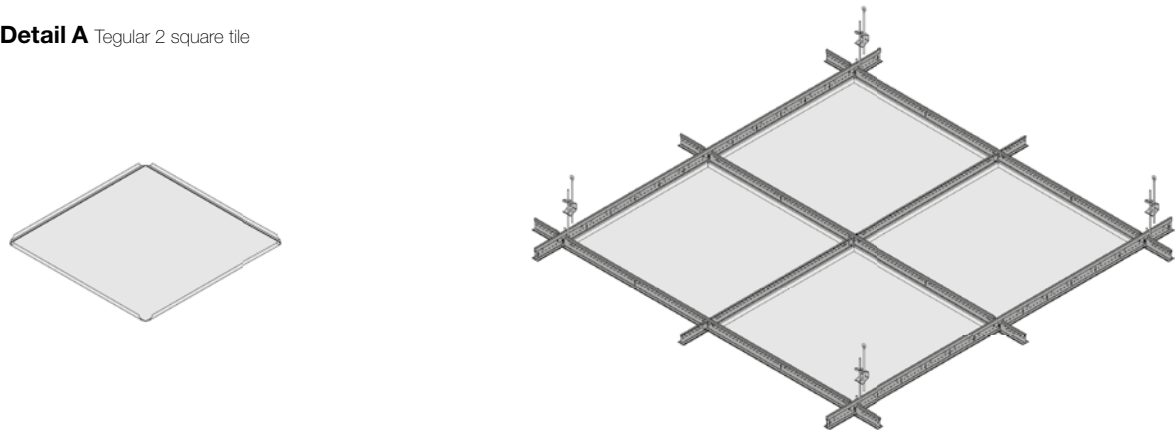
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ISO 14021												
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Extra Microperforation Rg 0701 (2)	up to 30	80	0.55(L)	D	0.65	21	10	A2-s2, d0	95	wipeable moist cloth (3)	✓	
Microperforation Rd 1522 (2)	up to 30	65	0.70	C	0.70	16	6	A2-s2, 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	47	21	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	✓	

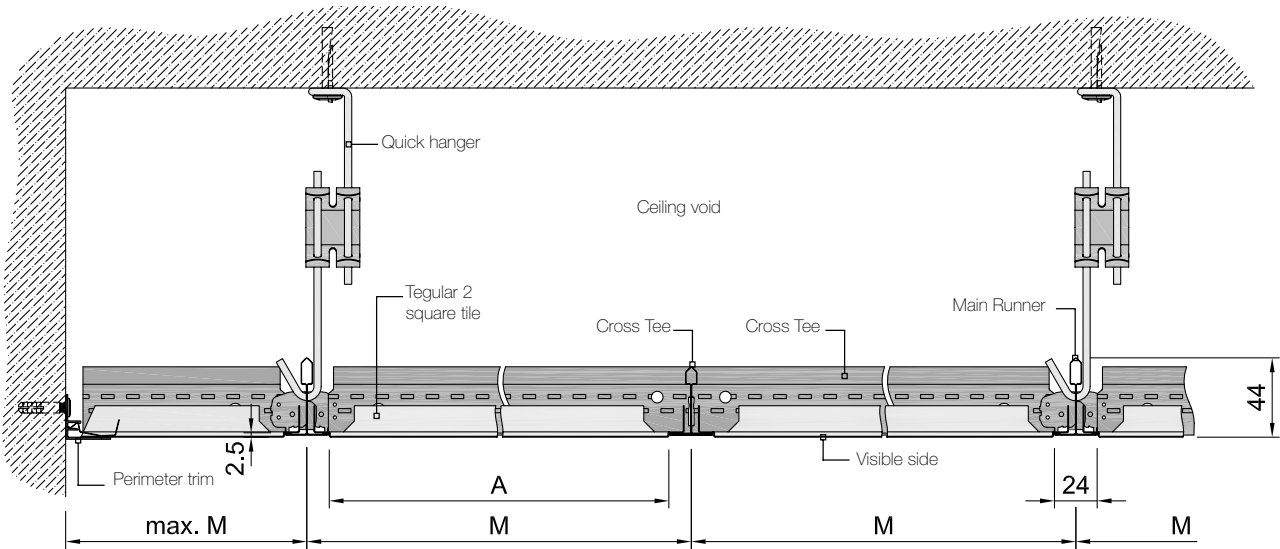
(1) RAL 9010 colour, without acoustic inlay, (2) RAL 9010 colour, with black acoustic fleece glued on rear, (3) Wipeable moist cloth for perforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
*Premium B15 and OP19 only available for Tegular 8 and Tegular 16, also some sizes of Tegular 2

TEGULAR 2

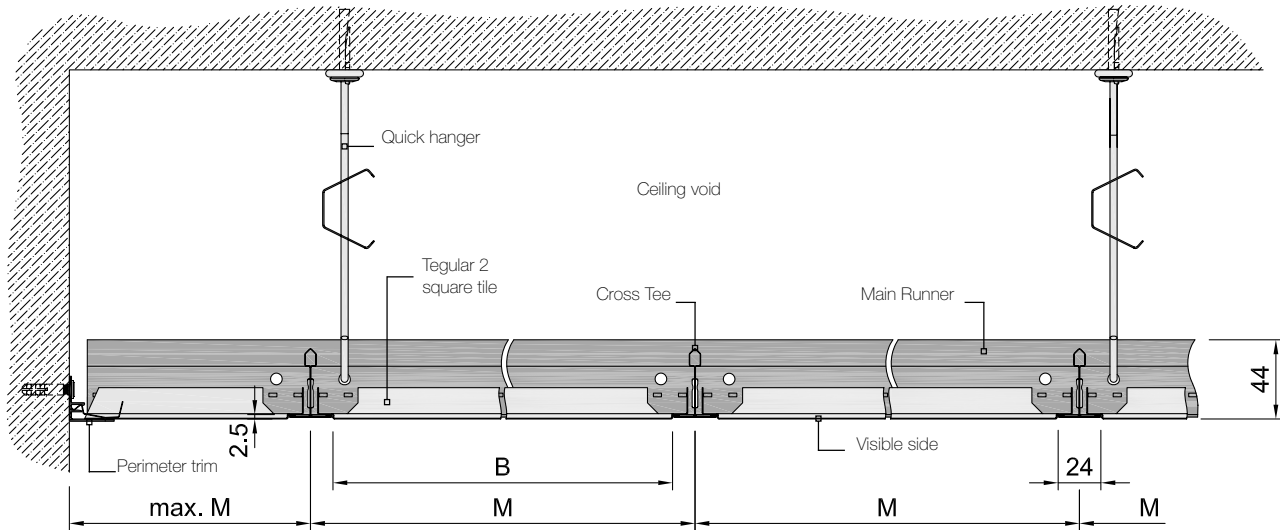
Detail A Tegular 2 square tile



CROSS-SECTION TEGULAR 2



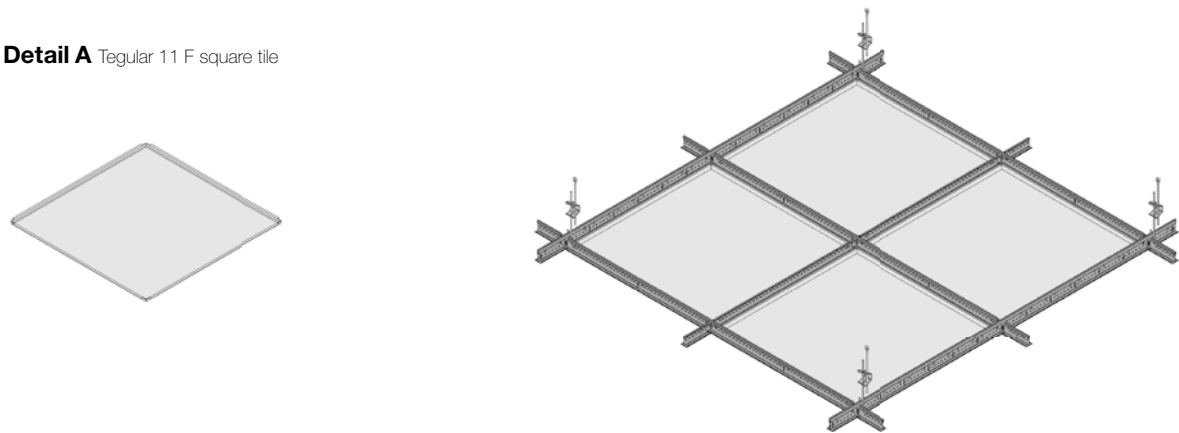
LONGITUDINAL-SECTION TEGULAR 2



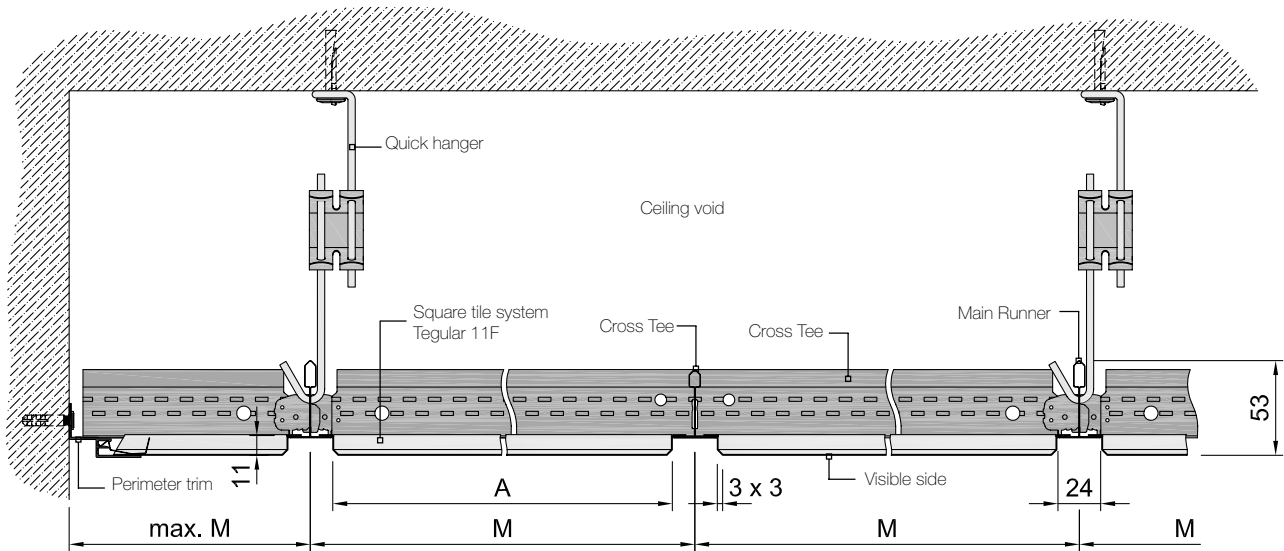
M = module size / A = tile length / B = tile width

TEGULAR 11F

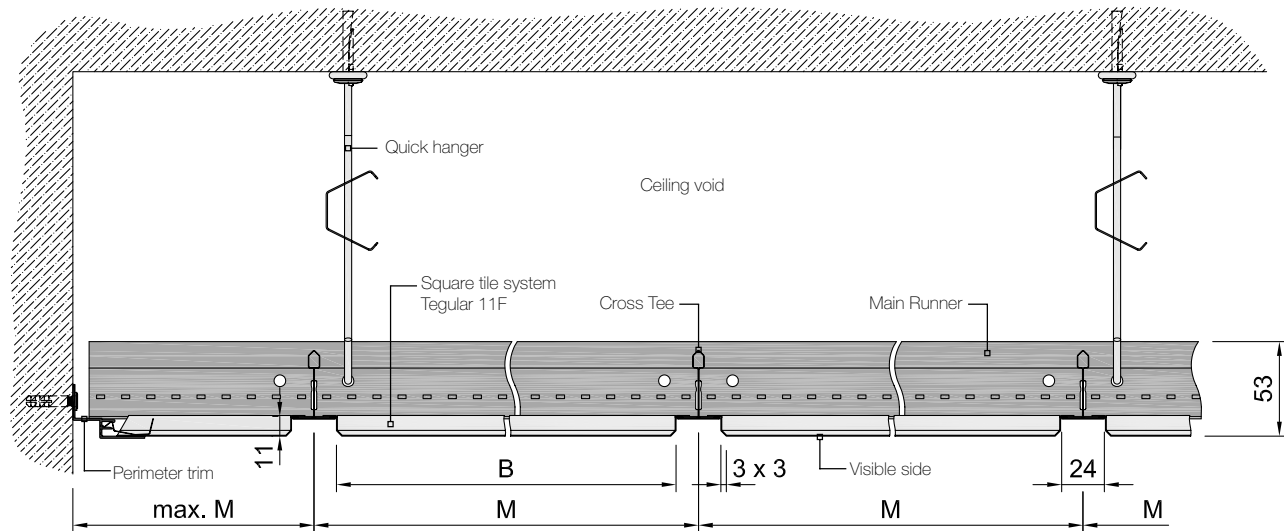
Detail A Tegular 11 F square tile



CROSS-SECTION TEGULAR 11F



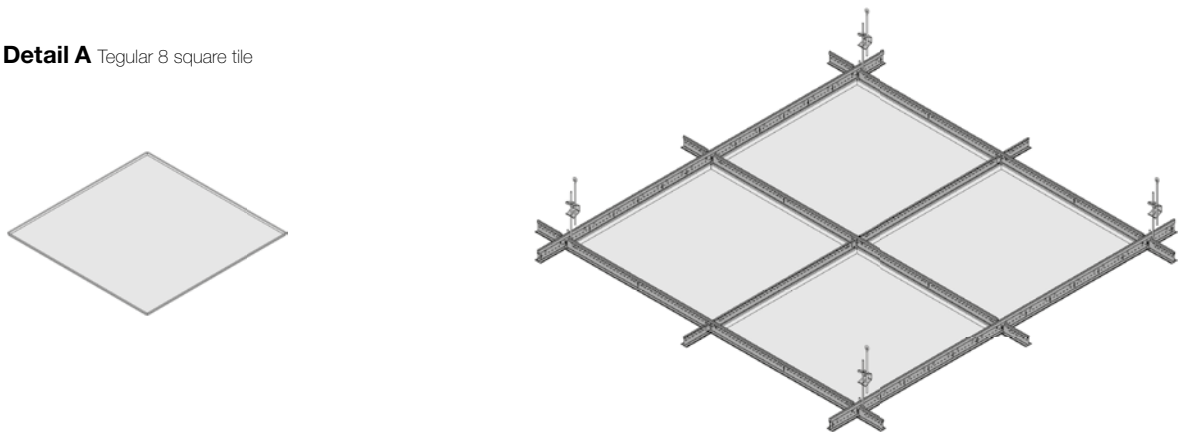
LONGITUDINAL-SECTION TEGULAR 11F



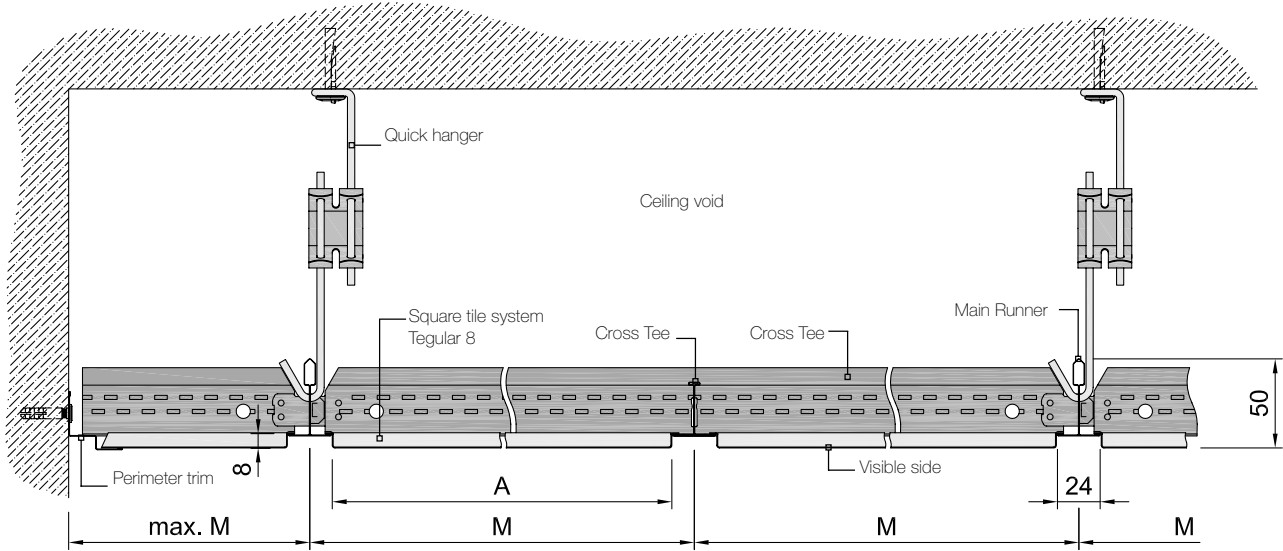
M = module size / A = tile length / B = tile width

TEGULAR 8

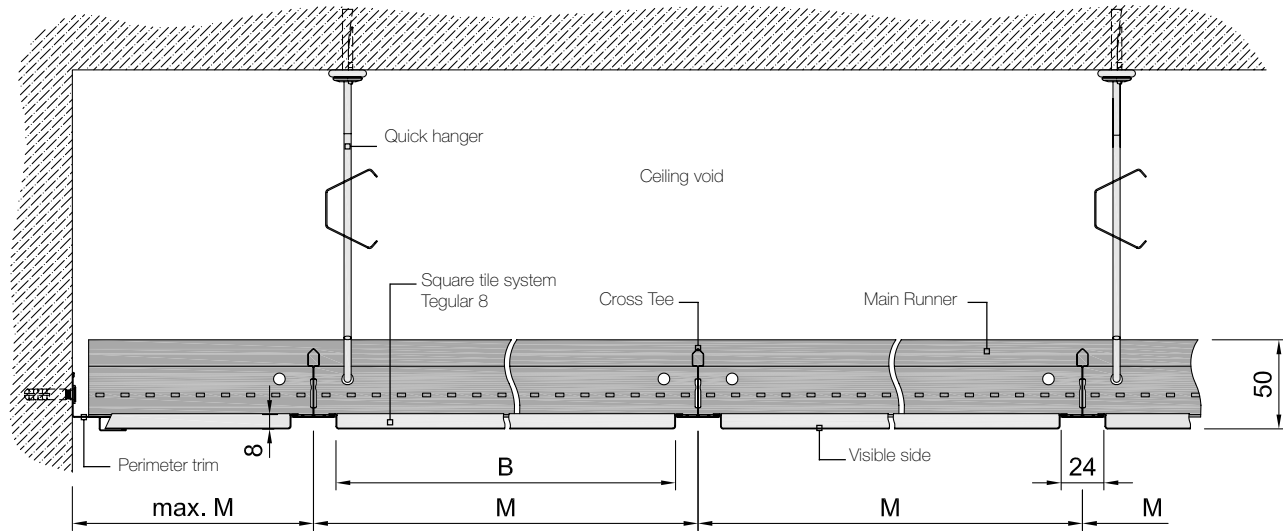
Detail A Tegular 8 square tile



CROSS-SECTION TEGULAR 8



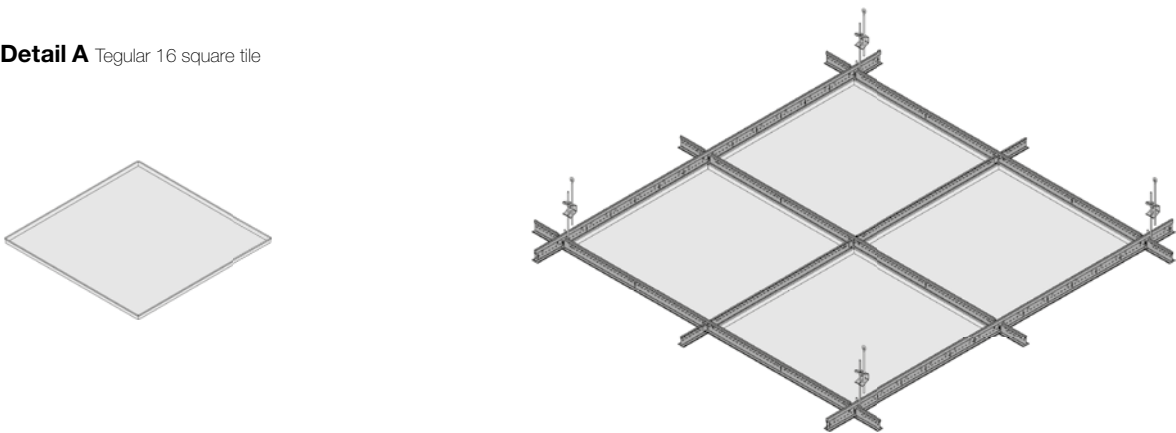
LONGITUDINAL-SECTION TEGULAR 8



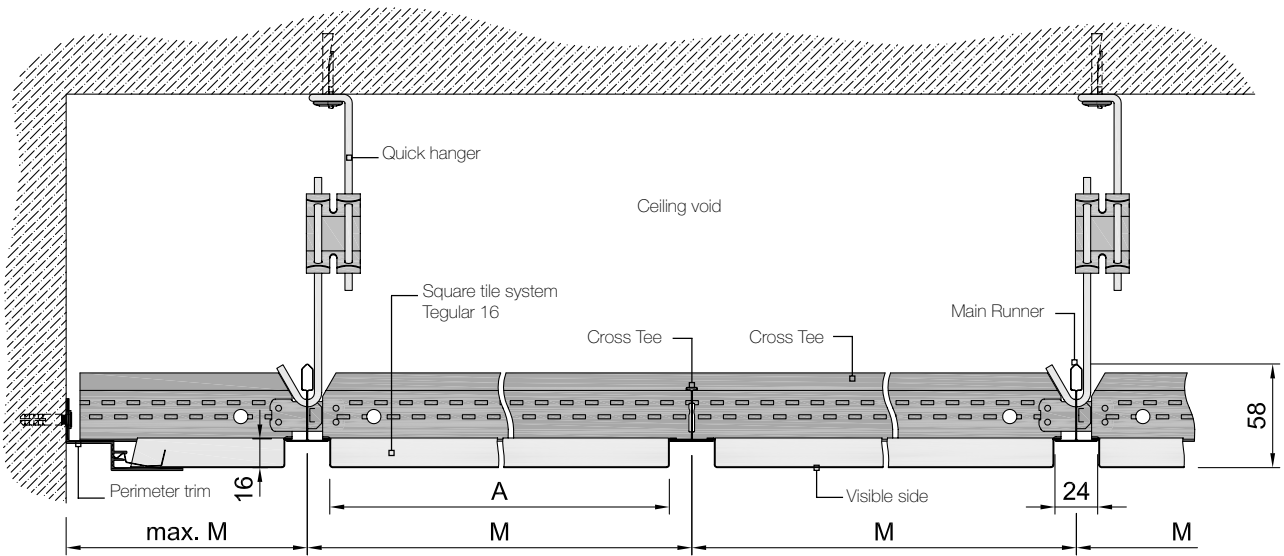
M = module size / A = tile length / B = tile width

TEGULAR 16

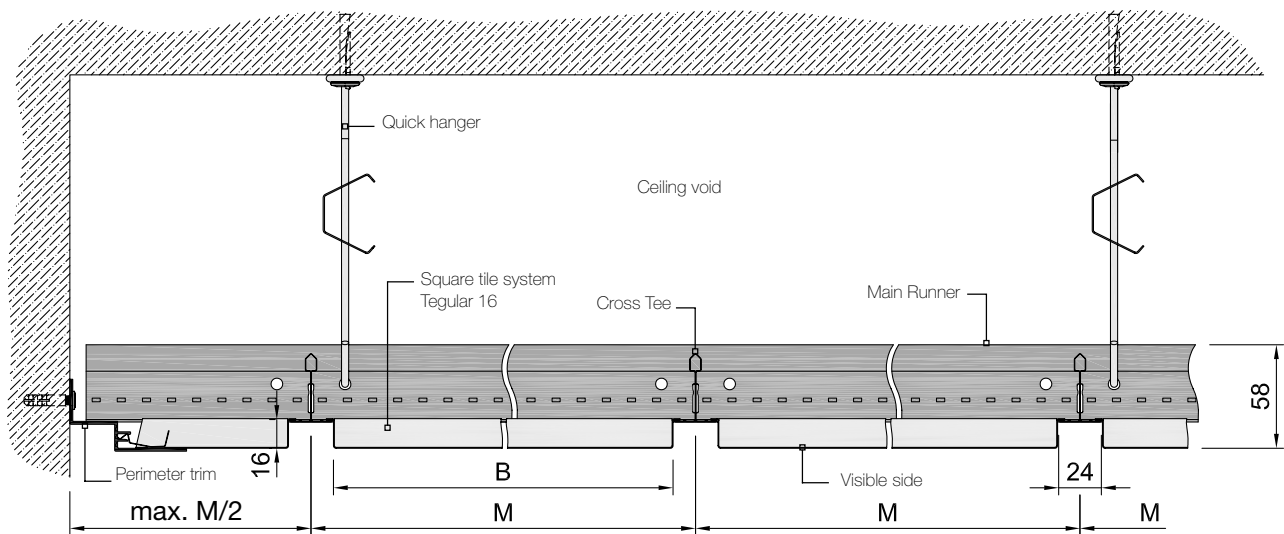
Detail A Tegular 16 square tile



CROSS-SECTION TEGULAR 16



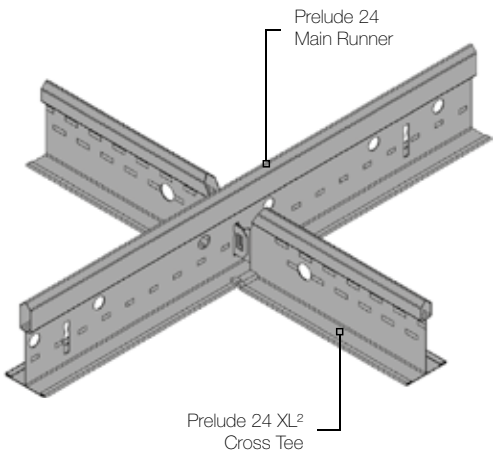
LONGITUDINAL-SECTION TEGULAR 16



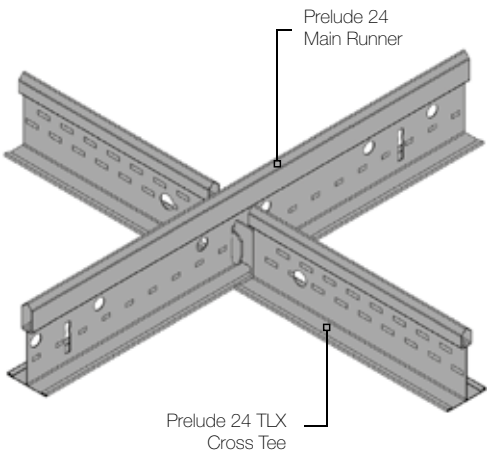
M = module size / A = tile length / B = tile width

GRID SYSTEM

Detail A: Prelude 24 XL² grid option
Not recommended with Tegular 2 tiles

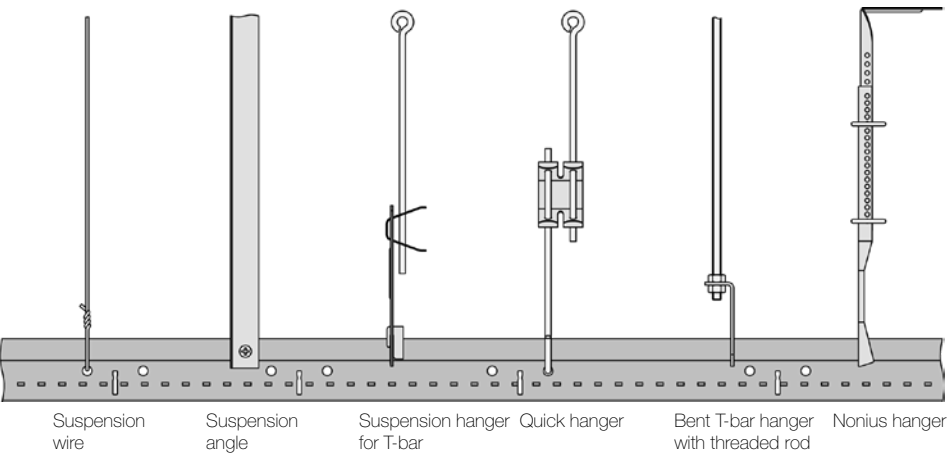


Detail B: Prelude 24 TLX grid option



Compatible system: **TLX:** T2, T8, T11F, T16
XL²: T11F, T8, T16

Detail C: Suspension methods



Metal
product

LAY-IN AXAL VECTOR Square & rectangular tiles

Inspiring Great Spaces™

Armstrong®
CEILING SOLUTIONS

LAY-IN AXAL VECTOR

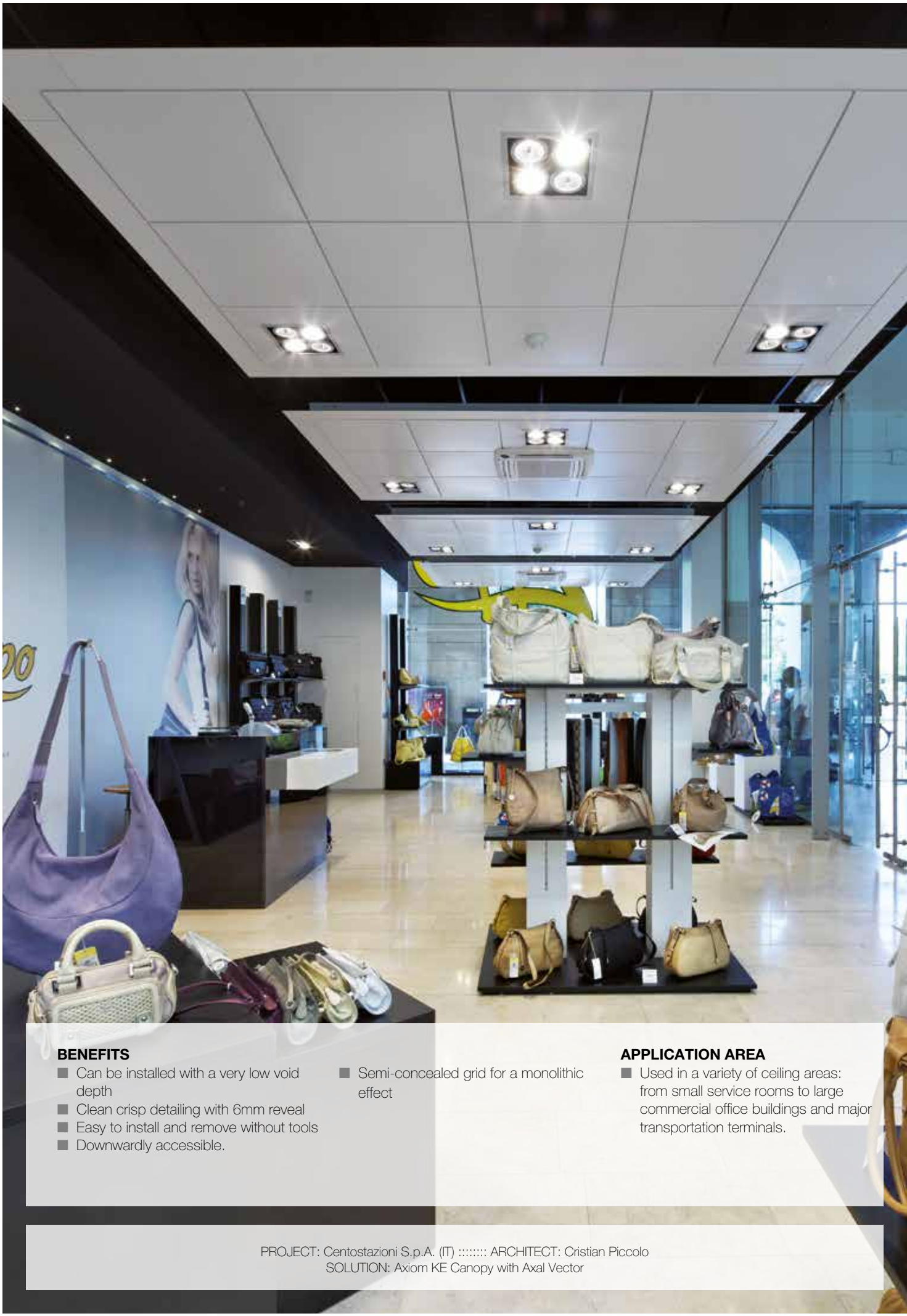
SQUARE & RECTANGULAR TILES

SPECIFICATION

System	Armstrong ceiling system Axal Vector, Lay-In solution with semi-concealed grid 24 mm
Tile material	galvanised steel sheet 0.5 mm (0.6 mm for module 750 x 750 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 square edged
Gap solution	6 mm reveal detail, without gasket
Acoustic inlay	black non-woven acoustic fleece as standard. Other options available on request.
Standard modules	500 x 500 mm 600 x 600 mm 300 x 600 mm 675 x 675 mm 750 x 750 mm
Grid system	Prelude XL ² 24

* 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



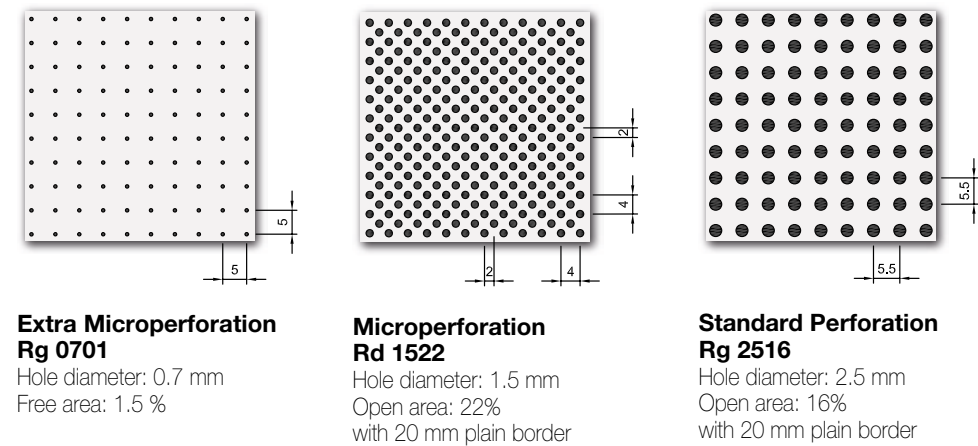
BENEFITS

- Can be installed with a very low void depth
- Clean crisp detailing with 6mm reveal
- Easy to install and remove without tools
- Downwardly accessible.
- Semi-concealed grid for a monolithic effect

APPLICATION AREA

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

STANDARD PERFORATION PATTERNS



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.

COLOURS

Standard colour

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

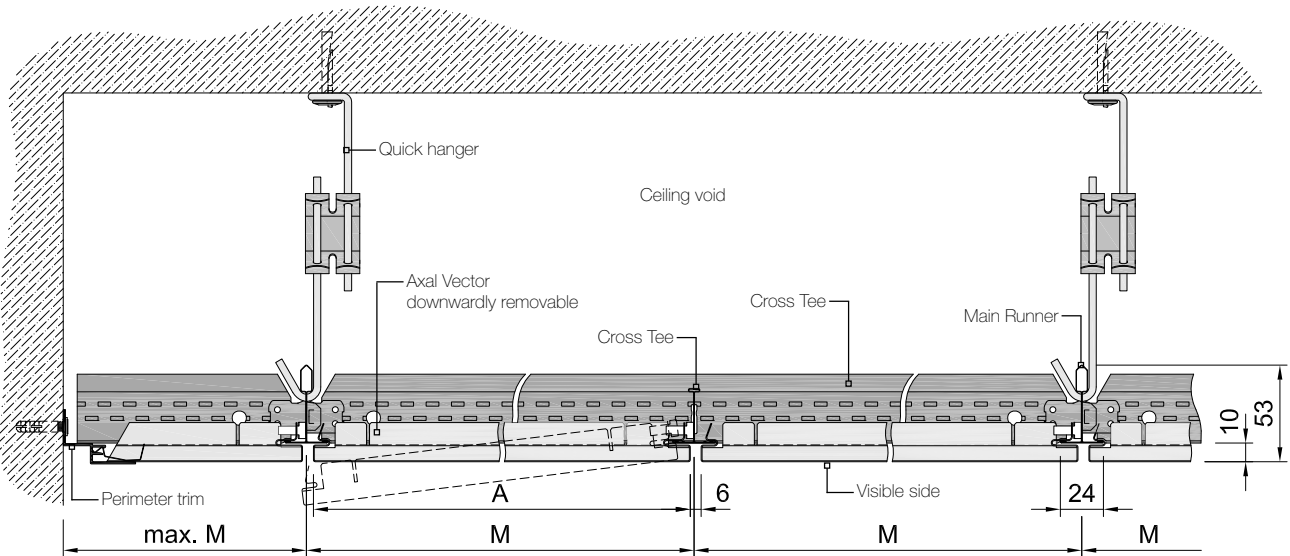
Our metal panels have an average of up to 30% recycling content. Our European manufacturing plants are certified to: **ISO 14001:2004 + Cor. 1:2009**
Armstrong is a member of TAIM (Technical Association of Industrial Metal Ceilings).

Sustainability		Acoustics						Safe & Healthy				
Recycled content (%)	Light reflectance (%)	α _w up to	Sound absorption class	NRC up to	Dncw / Dnfw (dB) up to	R _w (dB) up to	Fire reaction	Humidity Resistance (%) up to	Cleanability	Bioguard paint option	Scratch resistance	

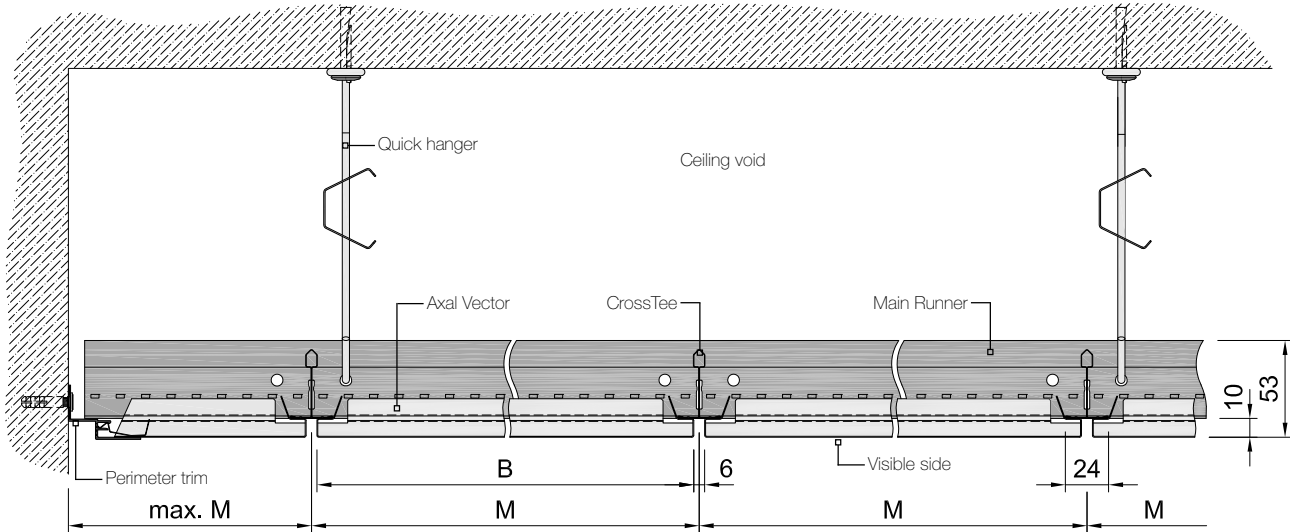
Ultra Microperforation Rg 0501 (1)	up to 30	83	0.45(L)	D	0.55	18	8	A1	95	scrubbable	✓	✓
Extra Microperforation Rg 0701 (2)	up to 30	80	0.55(L)	D	0.65	21	10	A2-s2, d0	95	wipeable moist cloth (3)	✓	✓
Microperforation Rd 1522 (2)	up to 30	65	0.70	C	0.70	16	6	A2-s2, d0	95	wipeable moist cloth (3)		✓
Standard 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	✓	✓
Premium B15*	up to 30	depends on perforation	0.65	C	0.60	47	21	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 perforated tiles with fleece. Scrubbable for plain tiles or perforated tiles without fleece.
*Premium B15 and OP19 only available for Tegular 8 and Tegular 16, also some sizes of Tegular 2

CROSS-SECTION AXIAL VECTOR

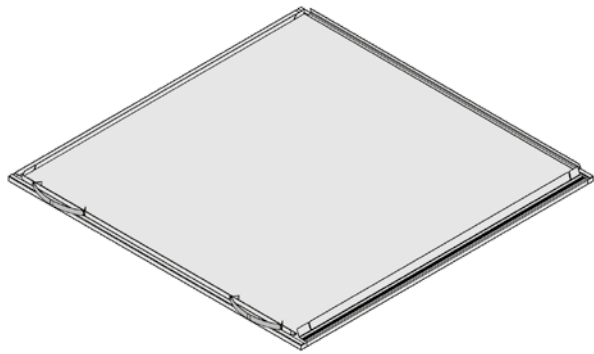


LONGITUDINAL-SECTION AXIAL VECTOR

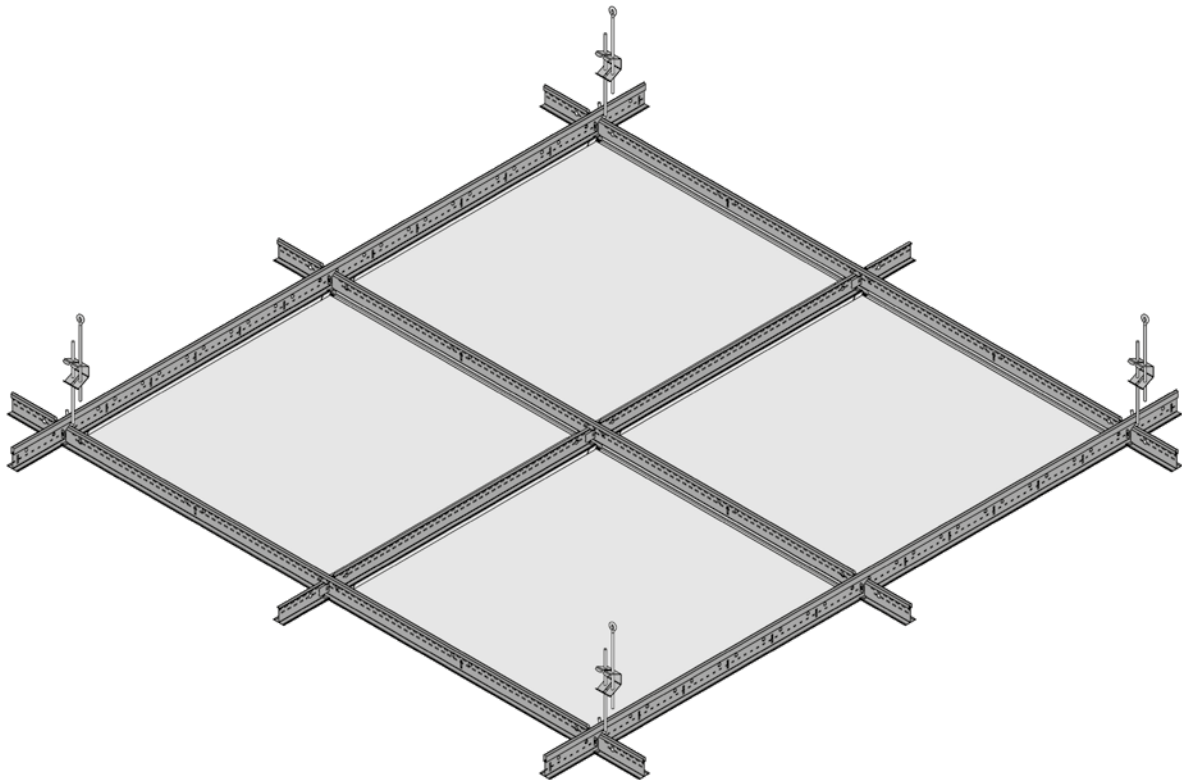
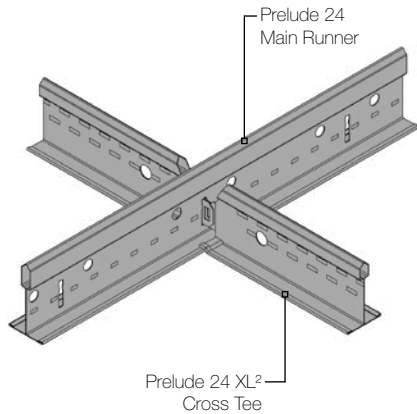


M = module size / A = tile length / B = tile width

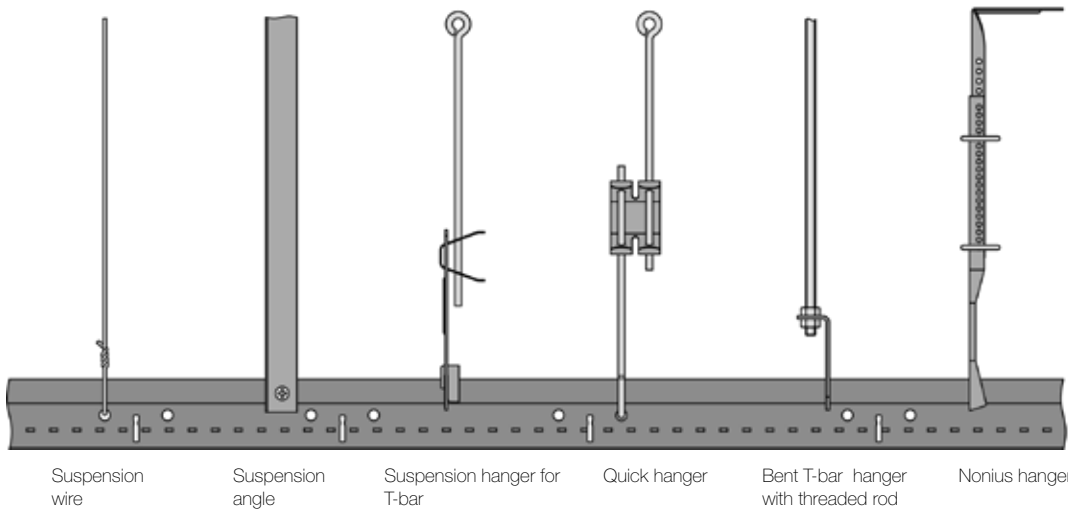
Detail A Axal Vector square tile



Detail B Prelude 24 XL² grid system



Detail C suspension methods



PROJECT: Aviva Stadium (IE) ::::: ARCHITECT: Scott Tallon Walker
SOLUTION: Axal Vector plain

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