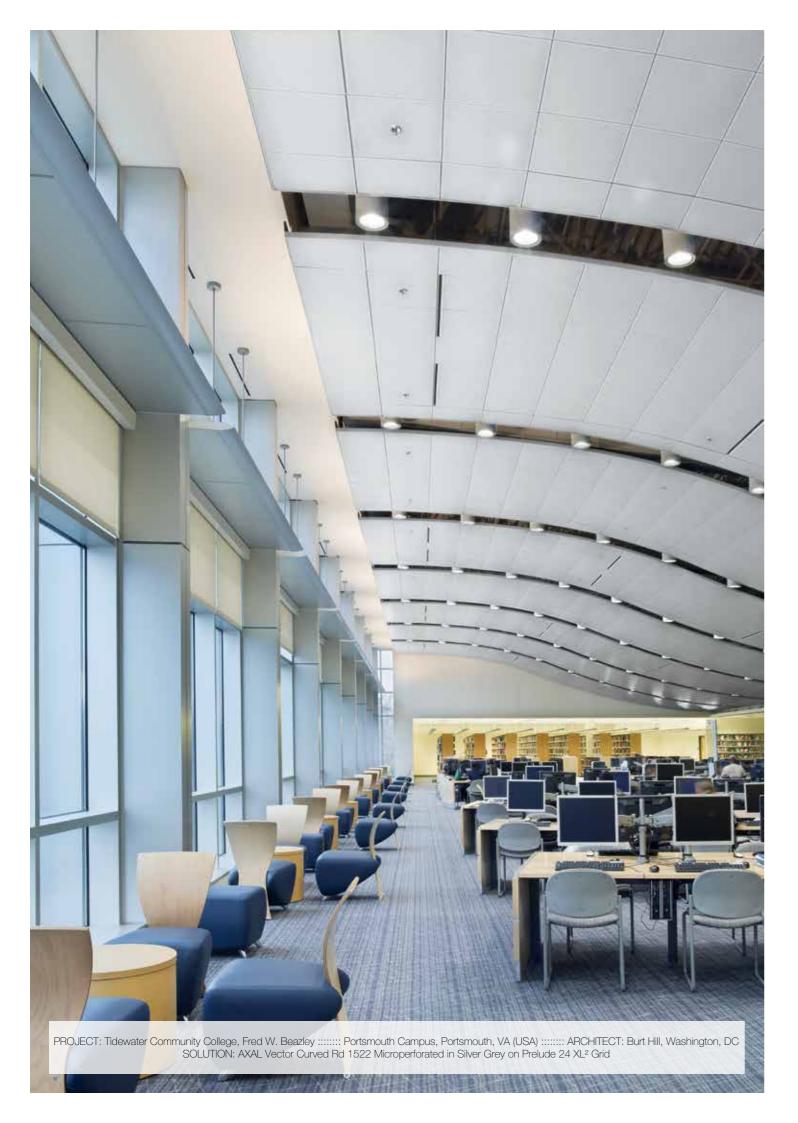
(35) Xy

Between us, ideas become reality®



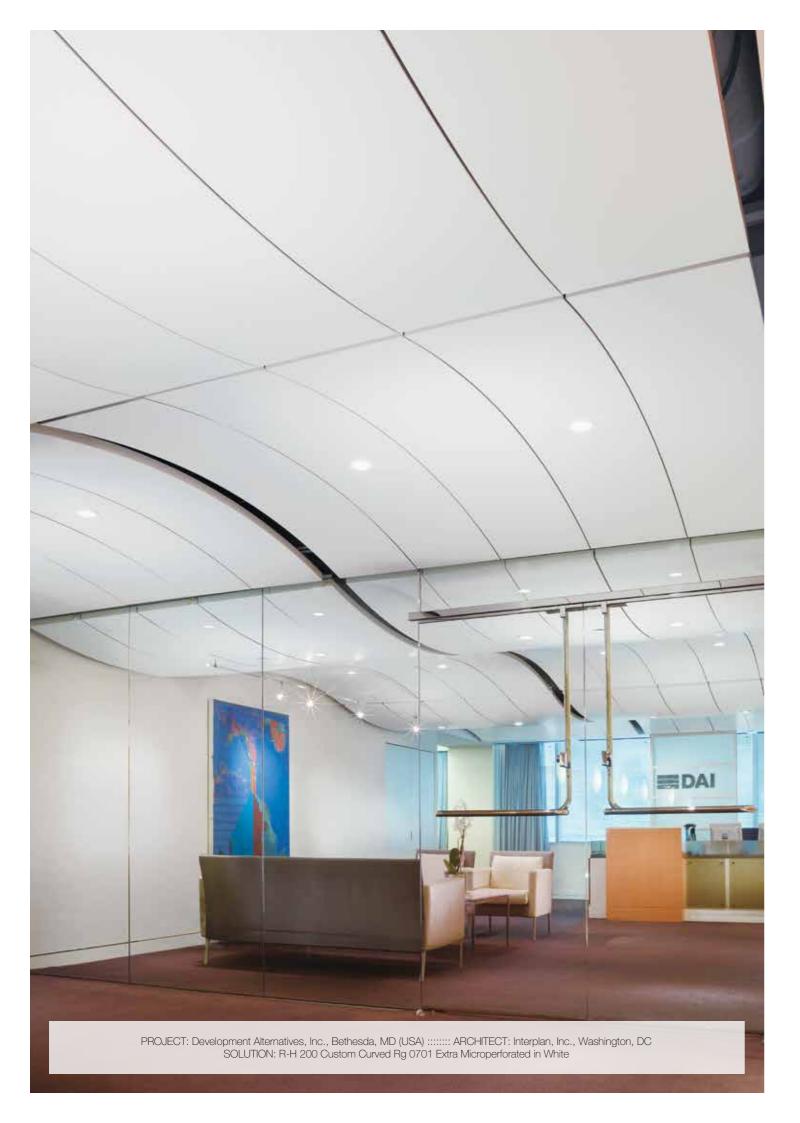
metal ceilings & walls





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Armstrong's 150-year history may have been built originally on mineral ceiling tiles but its metal systems have proved equally successful, capturing the interest and imagination of specifiers globally. The company puts the reason for this success down to a combination of factors — innovative and outstanding products and services, constructive dialogue with prospective customers and partners in a diverse range of countries with equally diverse requirements, supported by highly qualified technical specialists offering advice and guidance.

PROJECT: Club Nokia at LA Live!, Los Angeles, CA (USA) :::::::: ARCHITECT: Gensler, Santa Monica, CA SOLUTION: Rectangular Panels R-H 215 Custom Faceted Ceilings and Custom Metal W-H 1100 Walls with Rd 1522 Microperforated in Custom RAL 7024 finish

Armstrong's Unique Service

Consulting and planning

Each Armstrong project begins with an in-depth, one-on-one consultation with the specifier or main contractor. Technical support and product recommendations are made once we understand the design, functionality and performance requirements of the space.

Engineering and production

Working to this design brief, CAD drawings bespoke to the project are created which detail aspects such as ceiling layout, views and perspectives. These details are then used to engineer a production schedule along with any specific installation instructions that may be required at this early stage. Some are best sorted sooner rather than later!

Logistics and installation

It doesn't matter if one project uses the same products in the same way as another. It's still unique to us and it's still unique to the specialist contractor installing our systems. That's why we provide them with a tailored logistics plan devised to maximise the benefits of JIT (Just-In-Time) implementation. Then, if they need us on site for additional guidance, we will deliver there too.

Maintenance and support

Our customer service doesn't end when a project is complete. Because if that project then needs adapting to some new requirements in any way or expanding, we can continue to provide fitting solutions. We partner with specialist contractors throughout the world who we rely on to help you take your project to the next stage, whether it is adaptation, expansion, repair or basic maintenance.

Welcome to our playing field

Design

It is often important to create a convivial and relaxed environment. A successful ceiling design with good lighting will create a warm atmosphere. Signage is an important element of ceiling design, and the ceiling grid system can play an important role to help achieve this.

Lighting

Although natural light is generally preferred, it appears that many modern offices require artificial lighting in order to create a comfortable environment. The ceiling can play a crucial part in optimising light reflectance and can even produce energy savings.

Acoustics

It is difficult to work if you can hear every word of a conversation taking place in the next office. Noise originating from areas close by have to be attenuated while maintaining the sound absorption required for an individual office. Airports or railway stations are frequently very noisy places where acoustical control is an important issue. Irrespective of the size of a teaching space and the use for which it is intended, certain acoustic criteria must be considered. For each segment and each space, we have a dedicated acoustical solution.

Integrating services

Lighting, speakers, air conditioning, ventilation and smoke detectors are essential components that can be incorporated into the ceiling.

Durability

Durable ceiling tiles ensure that when the tiles need to be removed for service maintenance or cleaning, the risk of tile damage is minimised. The powder coat finish provides a tough, durable finish that can be easily cleaned.

Fire

Particularly in an establishment open to the public, fire reaction and fire resistance properties of the suspended ceiling, can be of critical importance.

Demountability

Nothing is more disruptive than an area in a shop closed off while a leak or an electrical problem is being repaired. Hence the importance of demountability of the ceiling, which also means that decor can be arranged or regularly refurbished.

Washability

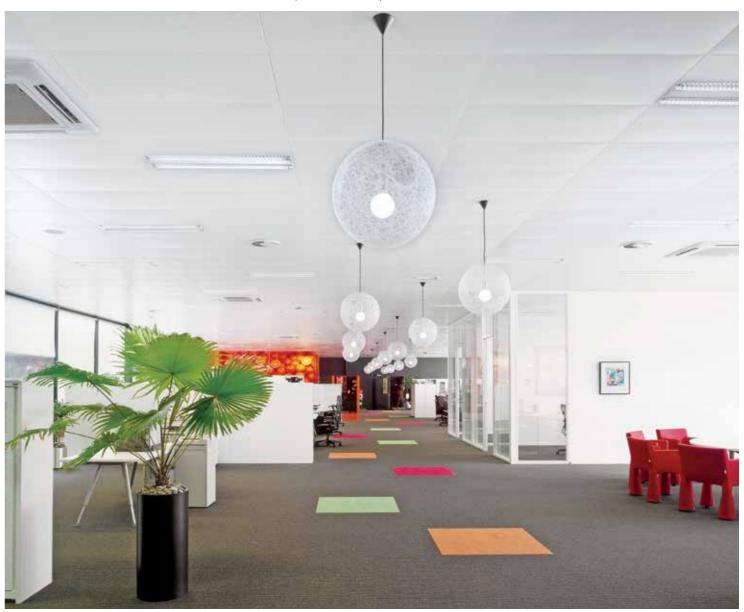
Medical environments require high levels of cleanliness, it is therefore essential that the specifier chooses a ceiling with a durable and easily cleaned finish.

Armstrong Metal Bioguard provides protection against bio-contamination.



Bright, spacious office environments make for happier, and thus more productive workers! Armstrong solutions are perfect to liven up any office, thanks to ergonomic design, enhanced lighting, optimised sound absorption and improved sound attenuation.

PROJECT: DSV Venlo (NL) ::::::: ARCHITECT: Clevis Kleinjans Architecten BNA Venlo :::::::: CONTRACTOR: Verhaag Plafondsystemen, Sevenum SOLUTION: S-Clip F Rd 1522 Microperforated RAL 9010 with Fleece



retail

When customers venture out into the consumer world, they look for more than just good products and services. They also want an agreeable experience. Often ambience and design solutions from Armstrong help to make a memorable visit.

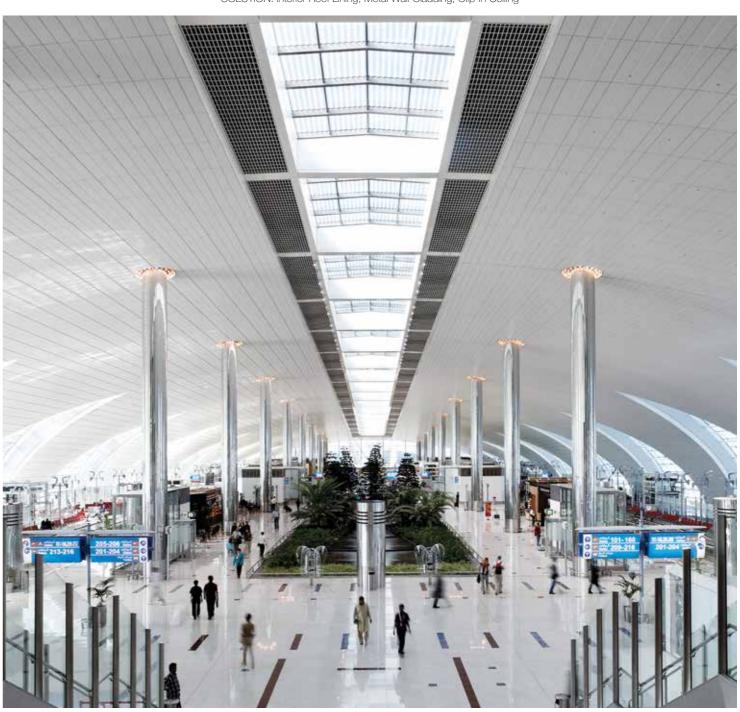
PROJECT: Centostazioni S.p.A. (IT) :::::::: ARCHITECT: Cristian Piccolo SOLUTION: Axiom KE Canopy with Axal Vector



transport

A pleasant airport lounge or railway station can do a lot to relieve anxiety amongst busy travellers. Armstrong's interior-ceiling solutions soothe by enhancing lighting, absorbing noise and improving overall well-being, whether travellers are queuing at the ticket office or standing on the platform.

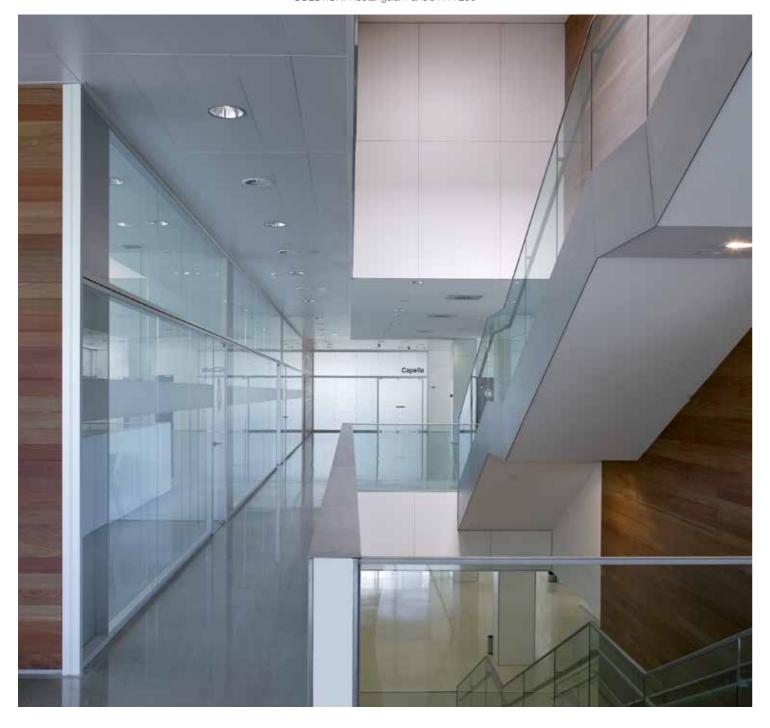
PROJECT: Dubai International Airport (UAE) ::::::: ARCHITECT: Aeroport de Paris (ADPI)
GENERAL CONTRACTORS: Al habtoor Engineering (Dubai – UAE), Murray & Roberts (Bedfordview – South Africa), Takenaka Corporation Dubai Office (UAE)
SOLUTION: Interior Roof Lining, Metal Wall Cladding, Clip-In Ceiling



health

Hygiene and maintenance are a top priority in healthcare environments. A smooth ceiling surface is ideal for treatment rooms and utility areas, and solutions such as metal BIOGUARD plain can meet ISO 3 requirements.

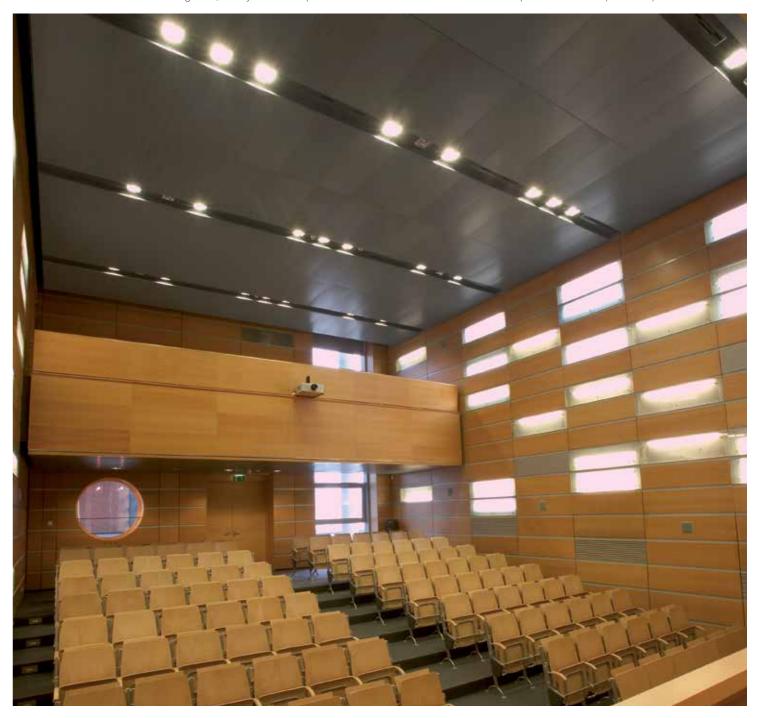
PROJECT: Hospital de Sant Joan de Déu (SP) ::::::: ARCHITECT: Joan Prat Aguilar y Toni Codina Jané de CPVA Arquitectes SOLUTION: Rectangular Panels R-H 200



education

Acoustics present a major challenge to educational institutions. Intelligibility and concentration are acoustical performance demands that our teachers need today, to improve their working conditions as well as their students'. Armstrong develops solutions that address these concerns.

PROJECT: Papieska Akademia Teologiczna - Biblioteka Theology University of Jan Pawel II Library (PL) :::::::: OWNER: Papieska Akademia Teologiczna ARCHITECT: K. Ingarden, J. Ewy Architekci Sp. z o.o. :::::::: SOLUTION: R-H 200 Plain with Special Perforations (RAL 9007)



Environmental commitment and certifications

Armstrong recognises the importance of protecting the environment and using resources responsibly. We are committed to good environmental stewardship in our dealings with customers, employees, the government and our communities.

We are systematically reducing our environmental footprint and providing products and services that enable our customers to reduce the environmental impact of the buildings they create and to provide end user comfort.

Visual Comfort

The 'light reflectance' of a surface is its ability to reflect light. Daylight and electrical lighting represent the two primary sources of lighting available in the workplace. The light reflectance of the ceiling, floor and wall surfaces play the second most important role for overall illumination of the room, thus also directly affecting working comfort and productivity.

- High light reflectance ceilings also enhance indirect lighting by improving overall lighting uniformity.
- A light reflectance of 90% allows 20% of cost savings with indirect lighting and can yield total building energy savings of up to 11% compared to a ceiling with 75% light reflectance.*
- Metal ceilings with smaller Extra or Ultra Microperforations have a light reflectance almost as high as that of an unperforated tile, providing up to 15% more light reflectance than traditional perforations, whilst still helping to provide acoustic comfort by controlling reverberation within the space.
- Extra Microperforated metal island ceilings installed in the workplace can improve the light reflection over a workstation and provide better comfort for the end user.

*Brinjac Engineering Study: 'Energy and Environmental Effects of High Light Reflectance Ceilings' 2006.

Acoustical Comfort

In all types of spaces, choosing the right acoustical solutions will enhance the end user' needs and overall comfort. With acoustics, you need to determine whether intelligibility, concentration or confidentiality is required? Armstrong can help you find the right acoustic solution for your space. You can choose from a wide portfolio of products such as Armstrong canopies, standard suspended ceilings and i-ceilings sound masking products.

Armstrong acoustical ceilings reduce noise levels in interior spaces, allowing for an optimum balance of high performance sound absorption and room to room sound attenuation to maximise / minimise speech intelligibility as appropriate.

Thermal Mass

To control the thermal environment in an office, we can use the thermal mass of the concrete to control the temperature in the room instead of relying on air-conditioning and heating. Without the need to power these, the amount of electricity being used is reduced significantly, lowering the building's energy requirements. To enable the thermal slab to work efficiently, it is important to maximise the open area. Solutions like canopies make it possible, still improving acoustical and visual comfort.



15 Year Guarantee

Armstrong metal ceilings are durable by their very nature and easily cleaned, and this can mean less damage and fewer replacements required, resulting in a lower impact on the environment. Most Armstrong metal products have a guarantee of up to 15 years.



Recycled Content

Armstrong metal ceiling tiles can be fully recycled and reprocessed for re-use.

For more information, please contact us.

Manufacturing Accreditation

In our manufacturing operations, not only do we continue to take care in the selection of raw materials and energy, reduce waste and embrace effective recycling methods, but we also ensure that our is to promote quality and to set minimum quality products conform to safety, environmental and quality

Our European manufacturing plants are certified to:

ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007

Product Certification

Armstrong has a long history of environmental product certification, and uses these tools to better understand the environmental impact of our products.

Our UK manufactured mineral tile and grid systems have been certified for nearly 10 years using BRE's life cycle assessment methodology resulting in an Ecopoint score and a Green Guide to Specification (3rd edition) 'A' rating to the 2004 BRE LCA methodology. The 2008 LCA methodology saw a further reduction in the Ecopoint rating for these tiles.

In France, Armstrong has developed product categories and profiled our mineral and metal product ranges to create FDES (Fiches Déclaration Environnementale et Sanitaire) datasheets. This information is utilised by the HQE (Haute Qualité Environnementale) project accreditation approach.

The Armstrong range of metal ceiling solutions are produced and certified in accordance with EN 13964 and are CE marked.

In addition, many metal ceiling solutions have technical approvals from DIBt (Deutsches Institut für Bautechnik) and are provided with a U-mark.

Memberships and Associations

Armstrong is a member of TAIM (Technical Association of Industrial Metal Ceilings).

TAIM was founded in 1988 and its primary objective standards and requirements for metal ceilings

Armstrong is a member of the following Green Building Councils and actively participates in the work of these to contribute to the sustainability agenda and to inform our product development processes.

UK-GBC; Dutch GBC; DGNB (Germany); Spanish GBC; US-GBC; Indian GBC; GBC of Australia.

Project Certification

Armstrong products can contribute to environmental performance and the overall rating of a building by winning or contributing towards credits in the various green building rating tools.

BREEAM - HQE - DGNB - LEED - ESTI-DAMA -GREENSTAR

Areas in which Armstrong products can provide credits include: energy saving; acoustics; Indoor air quality/low emitting materials; local/regional sourcing; waste management; recycled content.

Armstrong's corporate headquarters building in Lancaster, PA, in 2007 was the first to be certified as LEED-EB (existing building) Platinum, the highest and most difficult rating to achieve.



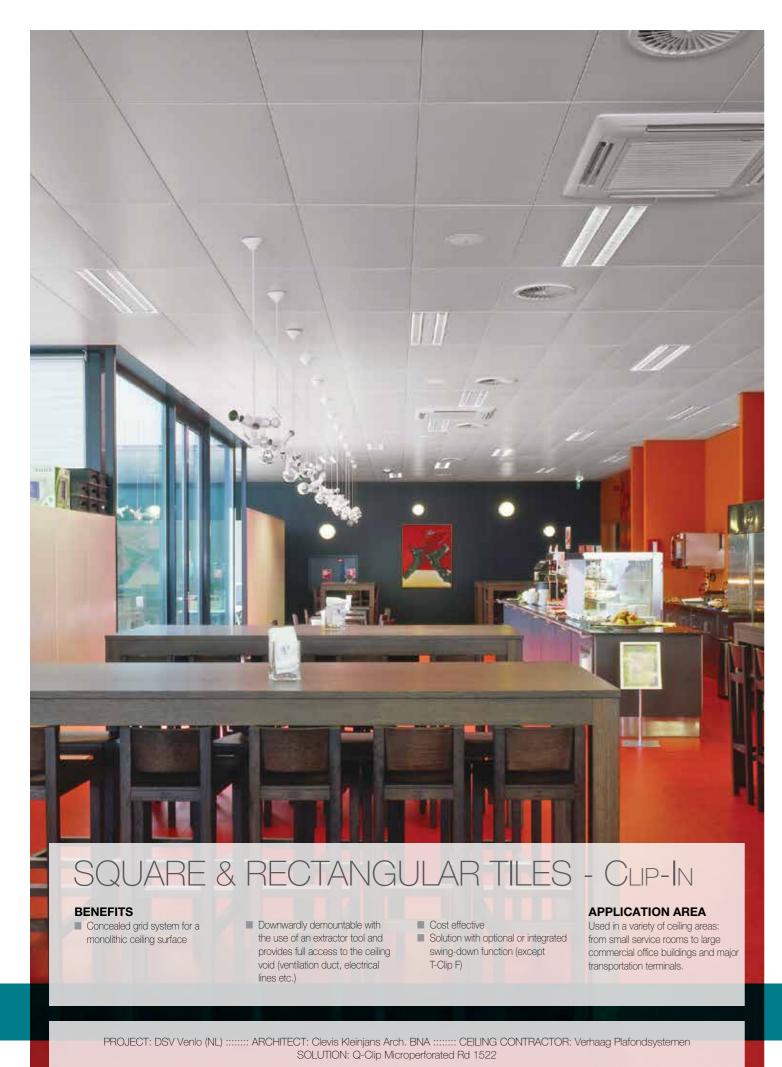








Armstrong Headquarters, US LEED-EB Platinum





SQUARE & RECTANGULAR TILES Clip-In - Q-Clip / S-Clip F /T-Clip F

 Q-CLIP
 Clip-In solution with square tiles Q-Clip: square edged variant

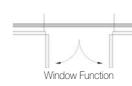
 Q-CLIP F
 Q-Clip F: bevel edged variant (3 x 3 mm)

 Grid
 System 3000 with spring A-bar

 Modules
 Q-Clip G00 x 600 mm 500 x 500 mm 600 x 600 mm / 300 x 600 mm* 625 x 625 mm 600 x 600 mm / 312.5 x 625 mm*

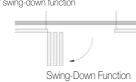
 Hinge-down option
 Type Q-Clip window or Q-Clip F window; supplied with hinge-down brackets to be attached to spring A-bar

^{*} Half size module without window function



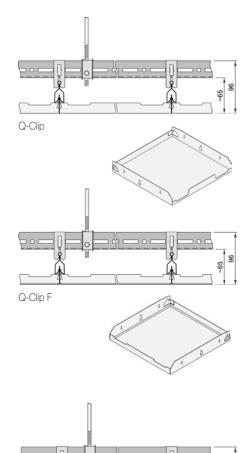
S-CLIP F	Clip-In solution with square tiles Bevel edged (3 x 3 mm)
Grid	System 3000 with spring A-bar
Modules	600 x 600 mm 625 x 625 mm Additional rectangular modules available 312.5 x 625 mm*
Hinge-down option	Type S-Clip F swing-down function

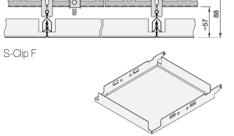
^{*} Half size module without swing-down function

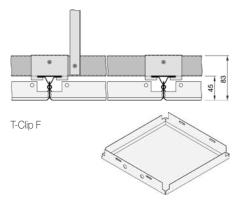


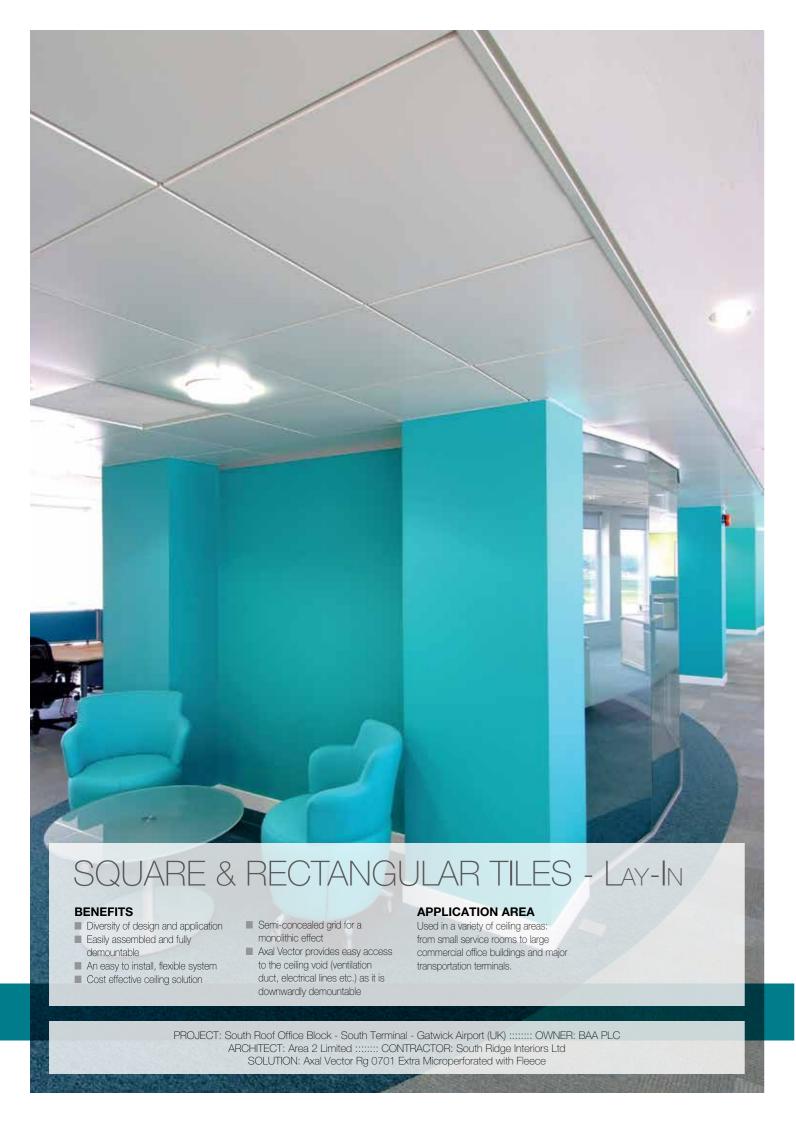
T-CLIP F	Clip-In solution with square tiles Bevel edged (5 x 5 mm) Square edged optional
Grid	C-channel with spring T
Modules	500 x 500 mm / 600 x 600 mm 675 x 675 mm / 750 x 750 mm Additional rectangular modules available 600 x 1200 mm
Dimensions	Length 900 – 2500 mm Width 300 / 450 / 500 / 600 mm













SQUARE & RECTANGULAR TILES

Lay-In - Axal Vector / Board / MicroLook 8 / MicroLook 16

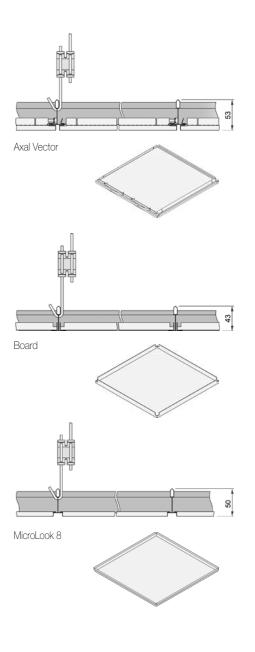
AXAL VECTOR	Lay-In solution with square tiles Square edged 6 mm reveal detail, semi-concealed system
Grid	Prelude 24 XL ²
Modules	500 x 500 mm 600 x 600 mm 675 x 675 mm 750 x 750 mm Additional rectangular module available 300 x 600 mm

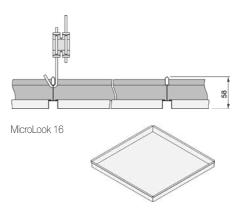
BOARD	Lay-In solution with square tiles Square edged
Grid	Prelude 24 TLX
Modules	600 x 600 mm 625 x 625 mm Additional rectangular module available 600 x 1200 mm

MICROLOOK 8	Lay-In solution with square tiles Square edged, with 8 mm drop
Grid	Prelude 15 XL ² / TL Design option Silhouette XL ² Design option Interlude XL ²
Modules	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

MICROLOOK 16	Lay-In solution with square tiles Square edged, with 16 mm drop
Grid	Prelude 15 XL ² / TL
Modules	500 x 500 mm 600 x 600 mm 675 x 675 mm 750 x 750 mm

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Standard hanger is pre straightened wire





SQUARE & RECTANGULAR TILES

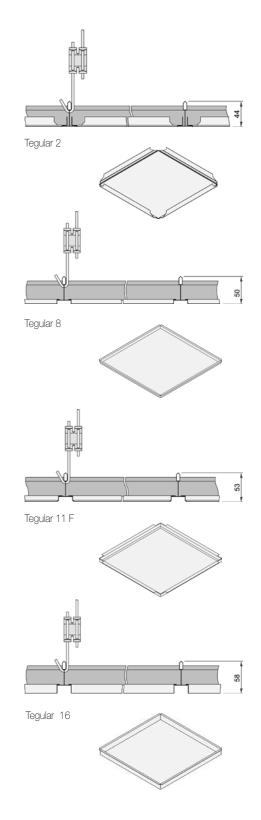
Lay-in - Tegular 2 / Tegular 8 / Tegular 11 F / Tegular 16

TEGULAR 2	Lay-In solution with square tiles Square edged, with 2.5 mm drop
Grid	Prelude 24 TLX
Modules	600 x 600 mm 625 x 625 mm

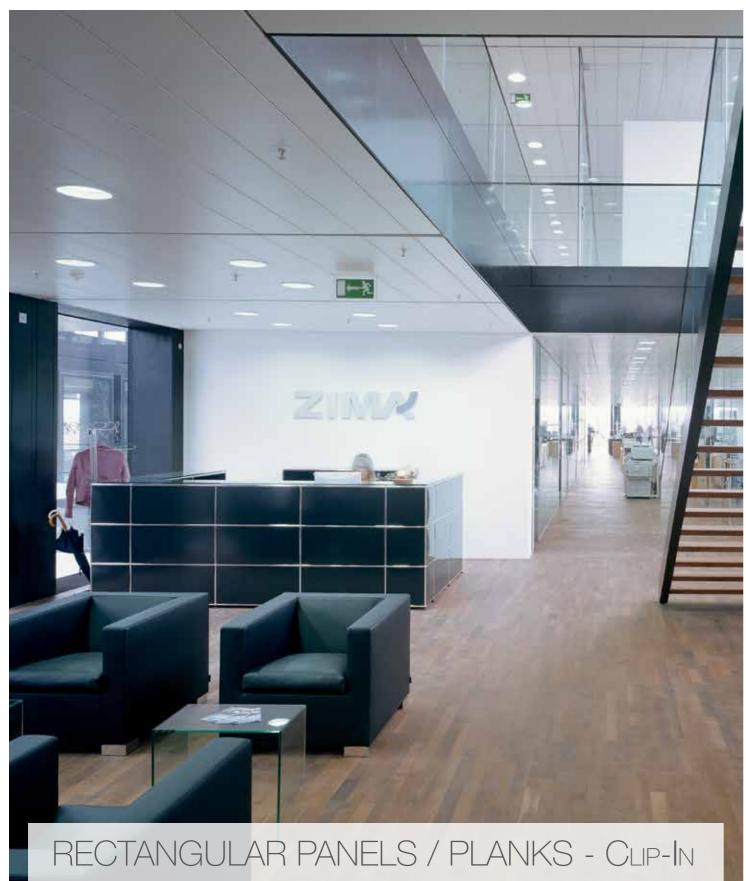
TEGULAR 8	Lay-In solution with square tiles Square edged, with 8 mm drop
Grid	Prelude 24 XL ² / TLX
Modules	500 x 500 mm 600 x 600 mm 675 x 675 mm Additional rectangular modules available 600 x 1200 mm 300 x 1200 mm

TEGULAR 11 F	Lay-In solution with square tiles Bevel edged (3 x 3 mm), with 11 mm drop
Grid	Prelude 24 XL ² / TLX
Modules	600 x 600 mm 625 x 625 mm Additional rectangular modules available 600 x 1200 mm

TEGULAR 16	Lay-In solution with square tiles Square edged, with 16 mm drop
Grid	Prelude 24 XL ² / TLX
Modules	500 x 500 mm 600 x 600 mm 675 x 675 mm 750 x 750 mm



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BENEFITS

- Concealed grid for a monolithic effect
- Excellent acoustic performance
- Versatile system and simple design Ease of installation (alignment) and Suitable for large open plan / fully demountable
 - Easy access to the ceiling void
 - Maintenance friendly system

APPLICATION AREA

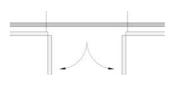
PROJECT: Element Office Building (AU) :::::::: ARCHITECT: Wolfgang Ritsch, Dombirn CONTRACTOR: Ing. Kurzemann GmbH&Co. KG, Dombirn ::::::: SOLUTION: R-Clip Microperforated Rd 1522



RECTANGULAR PANELS / PLANKS

Clip-In - R-Clip / S-Clip F / T-Clip F

R-CLIP F	Clip-In solution with rectangular panels Square edged variant Bevel edged variant (3 x 3 mm)		
Grid	System 3000 with s	spring A-bar	
Dimensions R-CLIP	Length 600 – 2500 mm Width 247 – 600 mm		
Modules	R-CLIP 400 x 1500 mm 400 x 2000 mm 400 x 2500 mm	R-CLIP F 300 x 1200 mm 600 x 1200 mm 400 x 1800 mm	
Hinge-down option	Optional swing-down function window		
Special designs*	- Exterior ceiling solution when secured - Chilled and heated ceilings *Please contact Armstrong Technical Sales service		

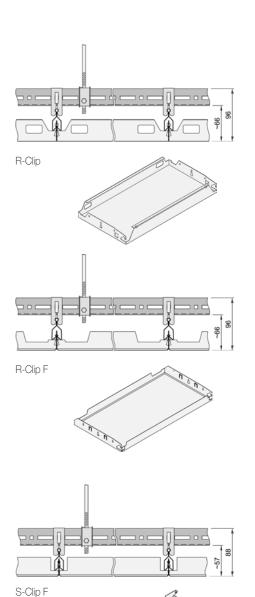


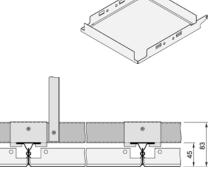
Window Function

S-CLIP F	Clip-In solution with rectangular panels Bevel edged (3 x 3 mm)
Grid	System 3000 with spring A-bar
Modules	300 x 900 mm 300 x 1200 mm 300 x 1500 mm
Hinge-down option	Type S-Clip F swing-down function

T-CLIP F	Clip-In solution with rectangular panels Bevel edged (5 x 5 mm) Square edged optional
Grid	C-channel with spring T
Modules	300 x 1200 mm 300 x 1500 mm
Dimensions	Length 900 - 2500 mm Width 300 / 450 / 500 /600 mm

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RECTANGULAR PANELS / PLANKS - HOOK-ON

BENEFITS

- Versatile system and simple design Ease of installation (alignment) and ■ Concealed grid for a monolithic
- Good acoustic properties
- and fully demountable
- Easy access to the ceiling void
- Maintenance friendly system

APPLICATION AREA

Suitable for large open plan / circulation areas.

PROJECT: The City of St. Gallen (CH) ::::::: ARCHITECT: Boltshauser Architekten, Zürich CONSTRUCTION MANAGEMENT: HRS Hauser Rutishauser Suter AG, St. Gallen :::::::: CEILING CONTRACTOR: Phonex AG SOLUTION: R-H 200 Microperforated Rd 1522



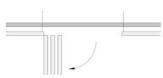
RECTANGULAR PANELS / PLANKS Hook-On - R-H 200 / R-H 215

R-H 200 Hook-On solution with rectangular panels Square edged With 3 mm black gasket on one short and one long side Grid System 3000 with J-bar Length 600 – 3000 mm Width 247 – 1350 mm Dimensions 400 x 1800 mm 400 x 2100 mm Modules 400 x 2400 mm 400 x 2700 mm 400 x 3000 mm Special designs* - Trapezoidal panels - Curved panels - Segmented vaulted or waved ceilings - Exterior ceilings

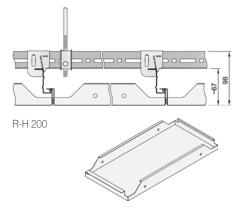
- Chilled and heated ceilings

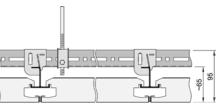
*Please contact Armstrong Technical Sales service

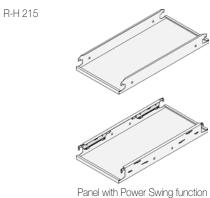
R-H 215	Hook-On solution with rectangular panels Square edged With 3 mm black gasket on one short and one long side
Grid	System 3000 with H-profile 35
Dimensions	Length 600 – 3000 mm Width 247 – 1350 mm
Modules	400 x 1800 mm 400 x 2100 mm 400 x 2400 mm 400 x 2700 mm 400 x 3000 mm
Hinge-down option	Revision opening power swing function
Special designs*	- Curved panels - Segmented vaulted or waved ceilings *Please contact Amstrong Technical Sales service



Power Swing function



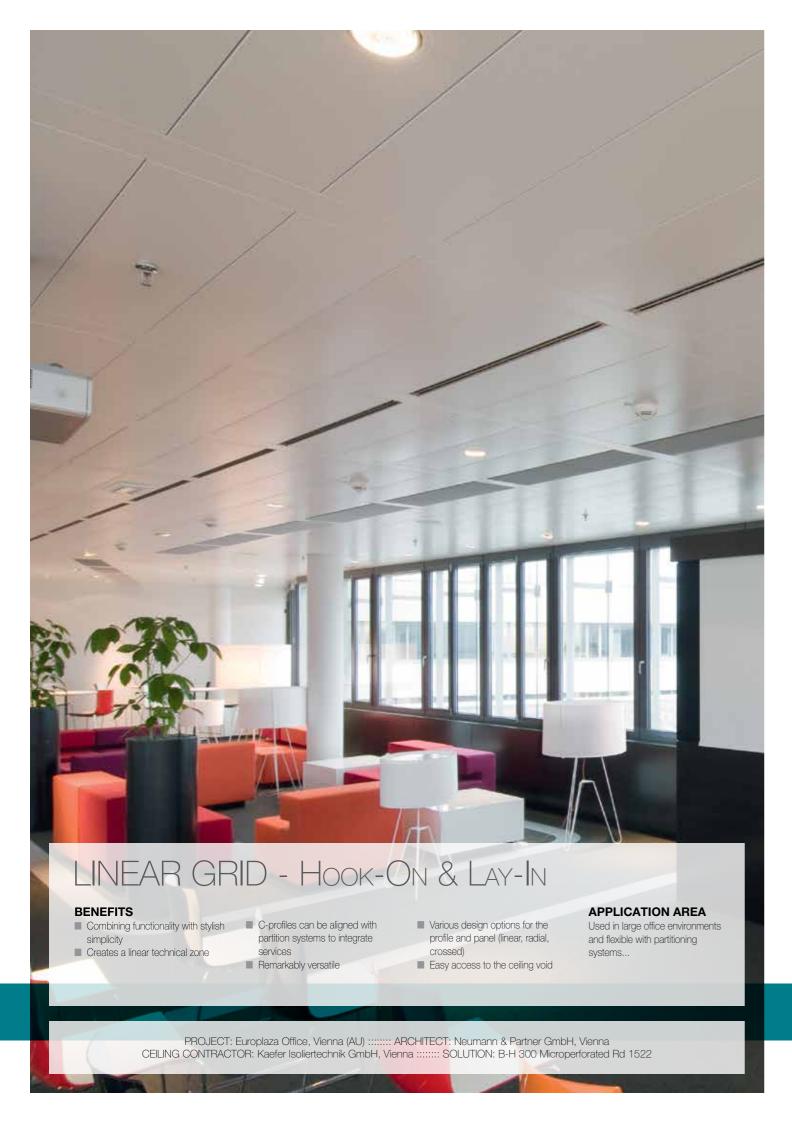




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Panel with Easy function

Panel with Swing Function





LINEAR GRID Hook-On - B-H 300 Lay-In - B-L 302

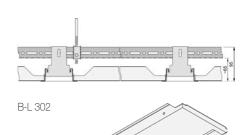
System 3000 with 100mm C-profile Length 600 – 3000 mm Width 247 – 1350 mm
Width 247 – 1350 mm
M* H
Width min. 50 / max. 300 mm
Easy function Swing function
- Trapezoidal panels - Curved panels - Segmented vaulted or waved ceilings - Chilled and heated ceilings *Please contact Armstrong Technical Sales service





B-H 300

B-L 302	Lay-In solution with rectangular panels Square edged With 3 mm black gasket on one long side
Grid	System 3000 with 100mm Bandraster profile
Dimensions	Length 600 – 3000 mm Width 247 – 1350 mm
Bandraster	50, 75, 100, 125 and 150 mm
Special designs*	- Trapezoidal panels - Chilled and heated ceilings *Please contact Amstrong Technical Sales service



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BENEFITS

- Solution for square and/or rectangular room partitioning
- Easily installed and removed
- Grid can be emphasised by using contrasting colours
- Trim strip or C-profile can connect to the partition systems to integrate lighting systems efficiently

■ Decorative solutions achieved through a variety of panel design options (square mega panel,

rectangular, triangle)

APPLICATION AREA Ideal for breaking up large spaces.

PROJECT: International Book Club - City Madrid (SP) :::::::: ARCHITECT: Stitzman Staiff, David S. SOLUTION: K-H 400 Standard Perforated Rg 2516



TARTAN GRID Clip-In - K-Clip Hook-On - K-H 400

K-CLIP	Clip-In solution with crossing boxes and trim strips Crossing boxes 100 x 100 / 105 x 105 / 150 x 150 mm With Q-Clip or R-Clip
Grid	System 3000 with spring-A bar
Modules	700 x 700 mm / 705 x 705 mm / 750 x 750 mm 1300 x 1300 mm / 1305 x 1305 mm / 1350 x 1350 mm
With Q-Clip	600 x 600 mm
With R-Clip	1200 x 300 mm / 1200 x 400 mm / 1200 x 600 mm
Special designs	100 mm
	105 mm
	150 mm



Crossing boxes 100 x 100 mm
With 3 mm black gasket on two short and one

or two long sides

Grid Crossing boxes and C-profile

Length 600 – 3000 mm Width 247 – 1350 mm Dimensions

Hinge-down option Easy function Swing function

Special designs













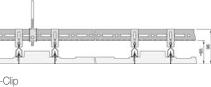




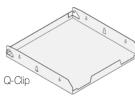


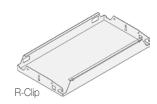
Swing Function





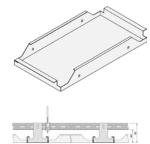
K-Clip







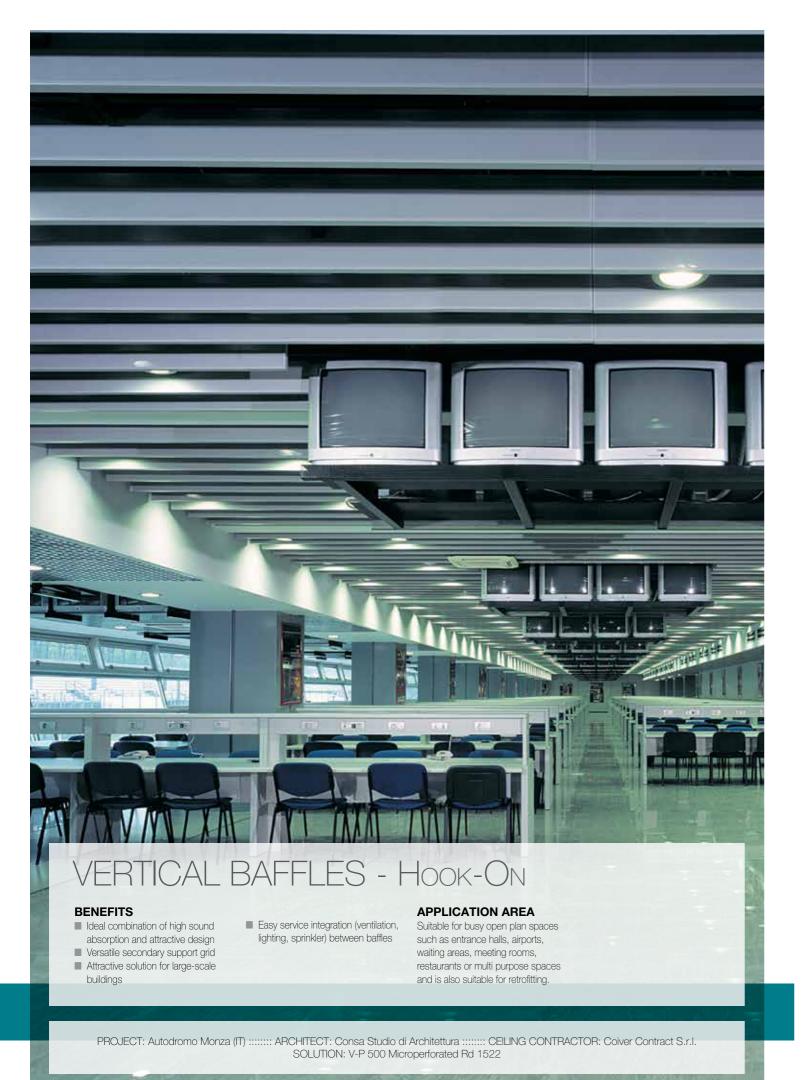
K-H 400







Panel with Swing Function

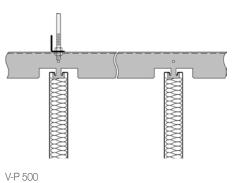




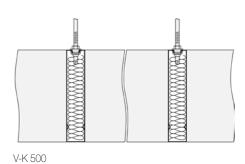
VERTICAL BAFFLES Hook-On - V-P 500 / V-K 500

V-P 500 Hook-On solution with vertical baffles Parallel alignment Optional face cover Grid Primary angle with black baffle support profile Length max. 3000 mm Width 30 mm Height 150 / 200 / 250 / 300 mm Baffles





V-K 500	Hook-on solution with vertical baffles Cross alignment
Grid	Direct suspension from threaded rod
Baffles	Length max. 3000 mm Width 30 mm Height 150 / 200 / 250 / 300 mm



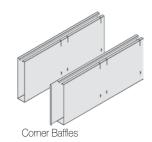


Main Baffle



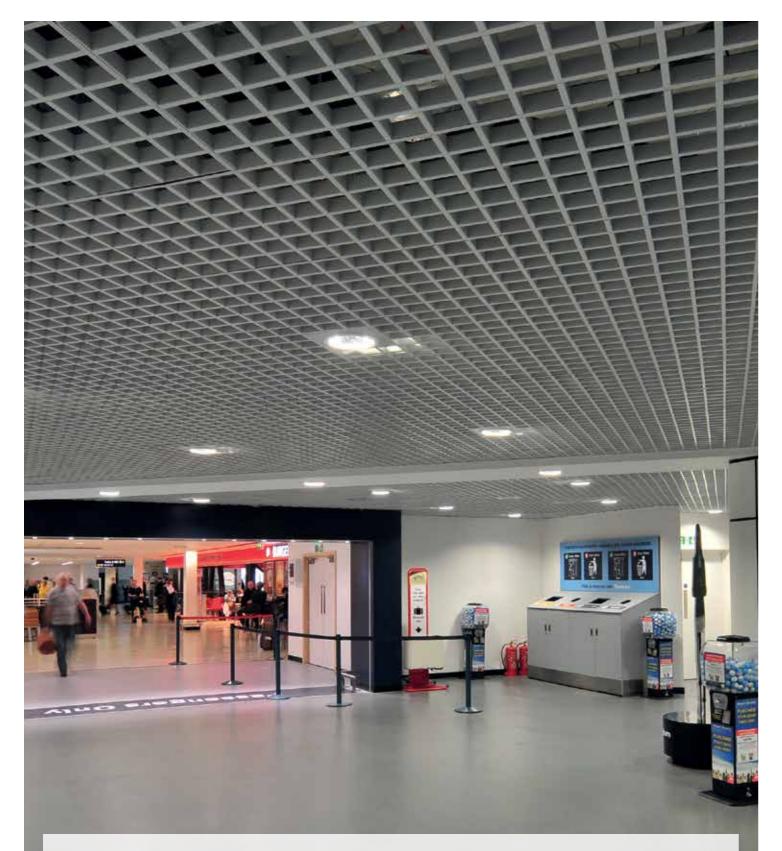
Cross Baffle





For both systems Further dimensions on request.

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OPEN CELL - LAY-IN

BENEFITS

- Creates a modern, open look for
 Helps mask the plenum
- Variety of design options
- 100% accessible to plenum (HVAC, Custom sizes and colours available stations and showrooms. lighting)
- Lay-In system is fast and easy to
- install in standard Prelude 15 grid

APPLICATION AREA

CELLIO is recommended for shops, supermarkets, shopping malls, entrance areas, airports, railway

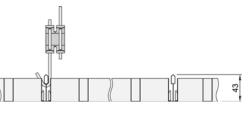
PROJECT: Birmingham Airport (World Duty Free Area) (UK) :::::::: ARCHITECT: D5 Archtects LLP ::::::: CONTRACTOR: Miles Industries Ltd SOLUTION: CELLIO C36



OPEN CELL Lay-in - CELLIO

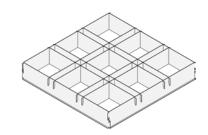
CELLIO	Lay-In solution with open cell tiles Tiles in prepainted aluminium
Grid	Prelude 15 TL
Modules*	600 x 600 x 37 mm
Colours	Available on request

^{*}the actual size of the opening in Cellio tiles is the cell size - 15mm



CELLIO

	Cellio Co4	Cellio C49	Cello C36
Cell module size	75 x 75 x 37	86 x 86 x 37	100 x 100 x 37
Open area	64%	68%	72%
Cut off angle	31°	27°	23°



Standard hanger is pre straightened wire

	Cellio C25	Cellio C16	Cellio 9
Cell module size	120 x 120 x 37	150 x 150 x 37	200 x 200 x 37
Open area	76%	81%	85%
Cut off angle	19°	15°	11°

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Acoustic Performances Pages 47-49	





CORRIDOR CEILING

Hook-On - F-H 600 Lay-In - F-L 601 Clip-In - F-Clip Access

F-H 600 Hook-On solution with rectangular panels Square edged	
Grid	Wall connection profile with J-bar
Dimensions	Length 600 – 3000 mm Width 247 – 1350 mm (Swing 247 - 750 mm)
Hinge down function	Optional with G-profile and swing function Swing with 3 mm black gasket on one long and two short sides



Swing-Down Function

F-L 601	Lay-In solution with rectangular panels Square edged With 3 mm black gasket on one long side
Grid	Perimeter trim
Dimensions	Length 600 – 3000 mm Width 247 – 1350 mm

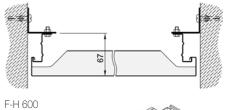
F-CLIP ACCESS	Clip-In solution with rectangular panels Square edged With swing-down function access	
Grid	Wall connection profile with half spring A-bar	
Dimensions	Length 600 – 2500 mm Width 247 – 600 mm	



Access Function

Other corridor solutions exist. Please contact us.

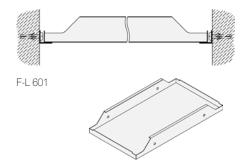
Perforations	Page 46		
Acoustic Performances Pages 47-49			

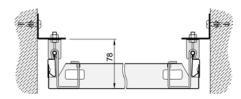












F-Clip Access





ISLAND CEILINGS - CLIP-IN, HOOK-ON

BENEFITS

- Modular concept for optimum
- flexibility

 Visually defines a space
- Freedom in design
- Modern absorber solution for exposed concrete ceilings
- Meets demanding acoustic
- requirements
- Integration of lighting, air conditioning and other equipment
- Quick and easy to installConcealed grid for a monolithic
- effect

APPLICATION AREA

A contemporary design and acoustic solution for all market segments. Chilled beams or chilled ceiling elements can be achieved with the D-H 700.

PROJECT: VRSG Rechenzentrum St. Gallen (CH) :::::::: ARCHITECT: Lantner & Olbrecht, Rorschach CEILING CONTRACTOR: Phonex AG ::::::: SOLUTION: D-H 700 Microperforated Rg 0701



ISLAND CEILINGS Clip-In - D-Clip

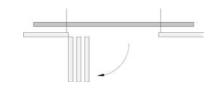
Hook-On - D-H 700

D-CLIP	Clip-In solution with rectangular panels Square edged	
Grid	System 3000 grid modules with spring A-bar	
Dimensions	Length 600 – 2500 mm Width 247 – 600 mm Edge detail all around 50 mm	
Hinga down functions	Standard panel with ewing down function access	

Hinge down functions Standard panel with swing-down function access End and single panel without access function



Modular Option Single Panel



Access Function

D-H 700	Hook-On solution with rectangular panels Square edged
Grid	System 3000 grid modules
Dimensions	Length 600 – 2750 mm (in steps of 25 mm) Width 250 – 600 mm (in steps of 25 mm) Edge detail all around standard 50 mm Edge detail all around optional 65 mm (for additional inlays, chilled ceilings, etc.)

End	Standard	Standard	Standard	End

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Modular Option

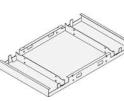
Perforations

Single

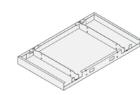
Single Panel



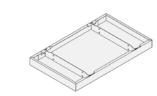




Standard Panel



End Panel



Single Panel



D-H 700



Standard Panel



End Pane



Single Panel

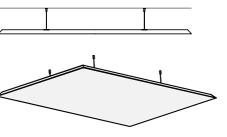




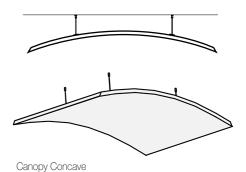
ISLAND CEILINGS

Canopy

CANOPY Single element solution Different shapes: Flat, concave, convex Edge detail 47°, thickness 40 mm Colour RAL 9010 (white) Rg 0701 extra microperforation, Acoustic pad with black fleece on both sides Direct suspended by four cables



Canopy Flat



Canopy Convex

back perforated Rg 2516 standard perforation Grid Flat 1890 x 1180 x 40 mm Concave 1890 x 1181 x 40 mm, radius 2742 mm (inside) Convex 1890 x 1181 x 40 mm, radius 2742 mm (inside) Special designs* Light integration *Please contact Armstrong Technical Sales service

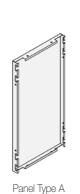
Perforations Page 46 Acoustic Performances Pages 47-49





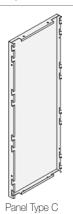
WALL CLADDING Hook-On - W-H 1000 / W-H 1100

W-H 1000	Hook-on solution with rectangular panels Square edged With 5 mm black gasket and plastic spacer on one short and one long side Offset distance standard 60 *10/_15 mm	
Grid	Horizontal direction C-wall profile fixed with wall anchors to the wall	
Type A Type B Type C Type D	Length 600 – 1300 mm / Width 275 – 1000 mm Length 1301 – 2500 mm / Width 275 – 1000 mm Length 2501 – 3000 mm / Width 275 – 1000 mm Length 600 – 3000 mm / Width 275 – 1000 mm Edge detail all around 30 mm for standard panels 40 different types of panels available on request	



Panel Type A





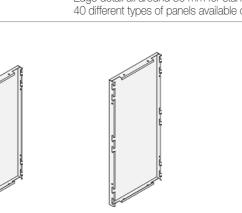




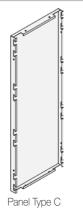
Panel Type D

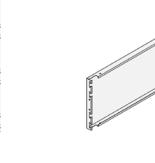
W-H 1100	Hook-on solution with rectangular panels Square edged With 5 mm black gasket and plastic spacer on one short and one long side Offset distance standard 60 *17/8 mm
Grid	Vertical direction

Grid	Vertical direction U-wall profile fixed with wall anchors to the wall
Type A Type B Type C Type D	Length 600 – 1300 mm / Width 275 – 1000 mm Length 1301 – 2500 mm / Width 275 – 1000 mm Length 2501 – 3000 mm / Width 275 – 1000 mm Length 600 – 3000 mm / Width 275 – 1000 mm Edge detail all around 30 mm for standard panels 40 different types of panels available on request



	25 25 25 25 25
anel Type B	Panel 7







W-H 1000

Panel Type D

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Pattern	RAL 9010	Global White
Plain (unperforated)	85%	75%
Extra Microperforation Rg 0701 with black acoustic fleece	80%	70%
Standard Perforation Rg 2516 with black acoustic fleece	70%	65%
Microperforation Rd 1522 with black acoustic fleece	65%	60%

Measured in accordance with EN ISO 7742-2 & EN ISO 7742-3.

Safe & Healthy

The Armstrong standard RAL 9010 Pure White powder coating consists of organic binders based on polyester and epoxy resins, small amounts of additives, and inorganic as well as pigments for colour. It contains no heavy metals and is free of toxic additives. Thus, the coating is not subject to any toxicological classification or identification requirements.

Under thermal loads, it does not emit any combustion products apart from those generated when burning other organic substances such as wood, oil, or household waste.

metal ceilings & walls :::: 43

Powder coat finish

The way in which incident light is reflected by a surface depends on its texture. Smooth surfaces exhibit more gloss than textured ones.

The light reflected at an angle of 60 degrees is measured and compared with the incident light. The ratio defines the degree

Armstrong's standard RAL 9010 Pure White colour with a satin smooth finish has a degree of gloss of about 22 percent, measured according to Gardener and DIN 67530.

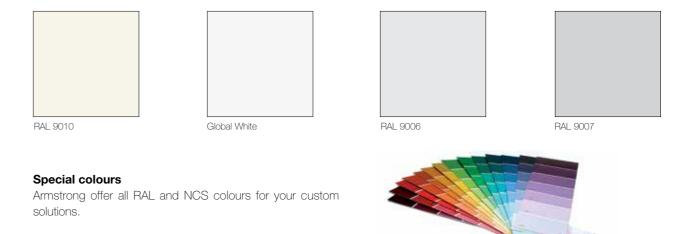
The standard finish to metal ceiling panels is a high quality polyester powder coating.

Aesthetically, the powder coat finish to metal products creates a smooth, satin appearance, which conceals its resilient technical qualities.

Electro-statically applied and oven cured, powder coat finishes have a greater film thickness than wet paint applications or products manufactured from pre-painted steel coil, and give a more durable and impact resistant surface. Powder coat finishes are UV stable, do not support micro-biological growth and are easily cleaned.

Standard colours

RAL and NCS are the most widely used colour systems in the construction industry. Armstrong uses RAL 9010 Pure White as its standard colour. Of course, all colours in the RAL and NCS palettes are available. RAL 9010 white (20% gloss), optional Global White (12% gloss).



FINISH OPTIONS: Wood effects

offers architects and building owners the opportunity to combine the attractiveness and exclusivity of a natural wood surface with all the advantages of a metal ceiling.

Wood effects is a unique metal ceiling from Armstrong and The ceiling is not laminated so the danger of exfoliation is nullified. Further, the coating generates a uniform colour tone and a consistent texture. As a result the obvious variations which so often accompany real wood panels are minimised.



For further finish options, please contact us.



MESH METAL CEILINGS

- Variety of mesh types, structures, sizes, surfaces
- Various design options available
- Light weight
- A total flexible system allowing lighting, ventilation as well as technical fittings and electrical installations
- Flexible and easy to maintain
- Air-and light permeable with a clear view into the ceiling

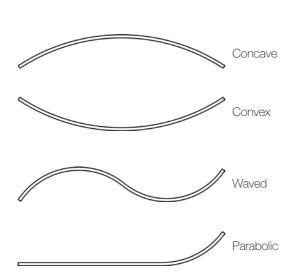
Application area

- Design element in form of a square tile or rectangular panel for various room applications
- Architectural design elements in all types of segments and especially in public areas where due to increased fire regulations a minimum free area is required (airports, railway stations, etc.).



CURVED CEILINGS

- Concave, convex or wave panels allow varying heights to create stunning visual effects
- Quick installation with minimal visible grid to create wall to wall or island solutions
- Using a concealed suspension system to create a smooth, curved visual
- Hook-On systems can also be utilised.



SPECIFIC SOLUTION - BIOGUARD

- mineral and metal tiles.
- Bioguard products can be cleaned with diluted disinfectants ISO 5 Clean room performance for Bioguard Extra containing active agents such as Quaternary Ammonium, Hydrogen Peroxide and Chlorine.
- Bioguard provides protection against bio-contamination.
- Bioguard solutions have the following benefits:
- They prevent the build-up of bacteria, mould and yeast.
- They prevent the settlement of micro-organisms that land on the surface of the tile.
- There is no radiation or spread of chemicals in the air.
- They are harmless for people, animals and plants.
- They are effective during the life-time of the ceiling as long as the surface is intact.

- BIOGUARD is a special treatment applied to Armstrong Bioguard tiles meet the requirements for use in Zone 4 according to NFS 90-351.
 - Microperforated with fleece and Premium B15 (tested against ISO 14644-1).
 - ISO 3 Clean room performance for Metal Bioguard Plain (tested against ISO 14644-1).
 - The very smooth surface of Bioguard prevents the accumulation of dust and micro-organisms (Kinetic of Decontamination test against NF S 90-351).
 - Bioguard Plain is suitable for use in category 1-6 areas as defined in HTM 60.
 - 100% RH performance for Bioguard Plain when painted front and back.

	ME	TAL	GRID	
	BIOGUARD Extra Microperforated with fleece and Premium B15	BIOGUARD Plain	CLEAN ROOM Grid	
HTM 60 Category	Category 2, 3, 4, 5, 6	Category 1*, 2, 3, 4, 5, 6	Category 2, 3, 4, 5, 6	
Classification NF S 90-351	Zone 1, 2 & 3	Zone 1, 2, 3 & 4	Zone 1, 2 & 3	
Particle emission class	ISO 5	ISO 3	ISO 4	
Material	Steel with acoustic Steel fleece and mineral fibre infill		Aluminium	
Cleaning	Washable with a damp sponge	High pressure** water cleaning	Washable with a damp sponge	
Resistance to disinfectants	Quaternary	/ Ammonium, Hydrogen Peroxid	de, Chlorine	

^{*} HTM 60 category 1 calls for a smooth, imperforate and jointless soffit. Where access is required Armstrong propose a Clip-In concealed grid ceiling with the joints filled with an appropriate flexible silicone mastic to provide a 'jointless' solution.

** High pressure water cleaning solution is using METAL Clip-In Plain.

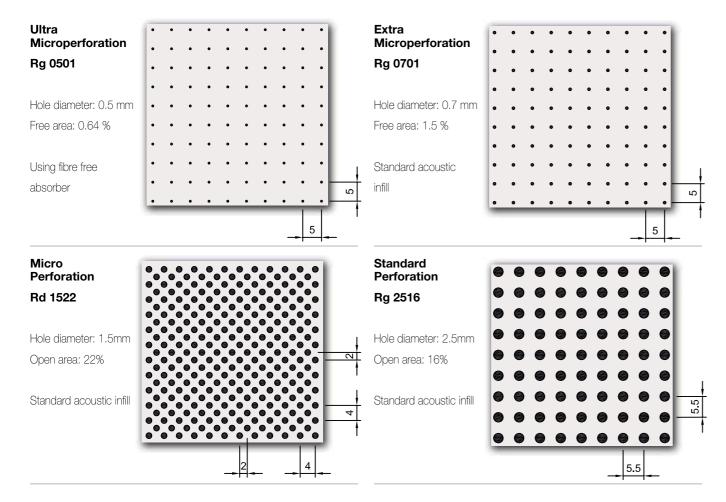
PERFORATIONS

ACOUSTIC PERFORMANCES

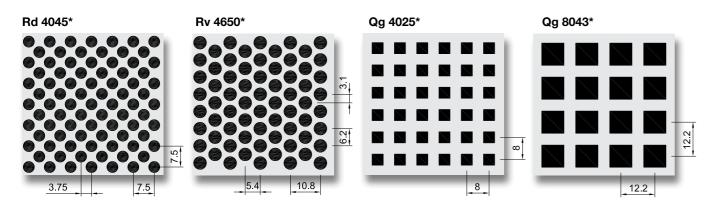
One of the key functions of a metal ceiling is to create a pleasant
Airborne sound absorption is based on the conversion of sound atmosphere enhanced by intelligent noise abatement. Armstrong perforations offer a vast spectrum of aesthetic solutions for effective acoustic comfort. Depending on the intended purpose of a room, reverberation times will need to be optimised as well. This parameter depends on the total absorption capacity of the room.

energy into heat by friction processes which take place in absorbing materials and systems.

All of the perforation types can be found in the brochure "Perforations"



Armstrong offer special perforations for air flow (Rd 4045 and Rv 4650) and loudspeakers (Qg 4025 and Qg 8043)...



*scale 3/4

A large selection of over 50 additional perforations are available on request. Please contact us for more details.



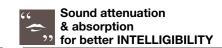


- Sound attenuation is the control of sound transmission between adjacent spaces with a common void above
- Sound reduction is the control of sound generated in the plenum or coming from the floor above.





■ Sound absorption is the part of incident sound that is not reflected by



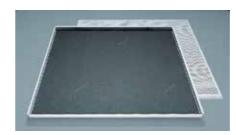


■ Balance of sound attenuation and absorption

Acoustic Performance

Metal ceiling products have been tested for their acoustic performance in terms of sound absorption, sound attenuation and sound reduction. All perforated products can be supplied with a variety of factory fitted acoustic infill options.

3 standard infill options* are available across the Armstrong range of metal tiles...



Acoustic fleece black, 63 g/m²



Premium B15



Premium OP19

Acoustic Fleece

Non-woven acoustic fleece provides a cost effective solution for general sound absorption requirements. As a solution that is bonded to the reverse of the metal tile it helps eliminate pattern staining issues that may occur with loose laid solutions.

Premium B15

Premium B15 solutions have been performance. It combines the non-woven infill boards. Premium OP19 infill can achieve acoustic fleece with a 15mm mineral infill board as a factory fitted acoustic solution.

Premium OP19

Premium OP19 provides high sound developed to combined good both sound absorption performance utilising specially absorption and high sound attenuation developed lower density Armstrong mineral up to Class A sound absorption.

^{*}Additional acoustic solutions are available including AM and AMPK glasswool slabs and aluminium foil black tissue faced (AFBTF) pads. Please contact us for more details.

ACOUSTIC PERFORMANCES

Sound absorption

Is the control of reflected sound, provided by the suspended ceiling, within a space.

EN ISO 11654			
	Othy	IRC 125 250 500 1000 2000 4000 Hz Abs Class Cert N° Octave Ba	and Centre Frequency (Hz)
	• 0.10(L)	dain - no infill 1.10 0.25 0.15 0.10 0.10 0.10 0.10 α _P n/c 2206 0.1 0.10 0.1	250 500 1000 2000 4000
	• 0.40(LM)	Output	250 500 1000 2000 4000
	• 0.55(L)	αs (xitra Microperforated with fleece) .65 0.40 0.80 0.70 0.55 0.55 0.45 α _P D 2253 1.4 1.2 1.0	
	• 0.65	ixtra Microperforated with B15 as C 2334	
<u> </u>	• 0.70	ixtra Microperforated with OP19 .75 0.50 0.70 0.80 0.75 0.70 0.50 $\alpha_{I\!\!P}$ C 6714a	250 500 1000 2000 4000
	• 0.75	flicroperforated with fleece (a.80 0.30 0.80 0.95 0.65 0.75 0.80 $\alpha_{\rm p}$ C 2175 $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
	• 0.60(H)	Alicroperforated with B15 .60 0.35 0.40 0.50 0.65 0.75 0.90 α _Φ C 2337	
	• 1.00	Aicroperforated with OP19 1.90 0.50 0.80 0.95 0.95 1.00 1.00 α _P A 6713a	250 500 1000 2000 4000
	• 0.75	tandard Perforated with fleece 1.75 0.35 0.80 0.65 0.70 0.75 0.70 $\alpha_{\rm p}$ C 141401 $\alpha_{\rm s}$	
0 0 0 0 0 0 0 0	• 0.60(H)	tandard Perforated with B15 .60 0.35 0.40 0.50 0.65 0.75 0.90 α_P C 2340 1.0 0.8 0.4 0.4 0.2	
• • • • • • • •	• 0.95	tandard Perforated with 0P19	250 500 1000 2000 4000

All Armstrong acoustic testing is conducted at independent third party accredited laboratories. Contact Armstrong for information on test methods or visit our acoustic mini-website www.acousticalceilings.co.uk



Sound attenuation

Sound attenuation
Is the control of horizontal sound transmission through
a suspended ceiling and common void located above
adjacent engages

BNISO 717-1



Sound reduction

Is the control of vertical sound transmission through a suspended ceiling located above a

adjacent sp	oaces.			& EN 130 7 17-1	space.	
		Dncw	Cert N°		Rw	Cert N°
	Plain - no infill Plain + B15	44 dB 47 dB	2438 2439		19 dB 21 dB	5936 5937
	Ultra Microperforated – no infill	18 dB	3844-98-1		-	-
	Extra Microperforated + fleece	30 dB	2432		-	-
	Extra Microperforated + B15	40 dB	2427		-	-
	Extra Microperforated + OP19	31 dB	6720a		15 dB	6725a
	Microperforated + fleece	20 dB	2437		6 dB	5939
	Microperforated + B15	41 dB	2443		18 dB	5941
	Microperforated + OP19	27 dB	6719a		12 dB	6724a
	Standard Perforated + fleece	20 dB	2437*		6 dB	5939*
	Standard Perforated + B15	41 dB	2443*		18 dB	5941*
• • • • • • •	Standard Perforated + OP19	28 dB	6721a		13 dB	6726a

^{*} Highlighted Dncw and Rw performances for the Standard Perforation (16% open area) are estimated as being not less than the tested Microperforated (22% open area) performance.

SERVICE INTEGRATION

Semi-standard details

The ability to integrate building services equipment is a major feature of metal ceiling systems. Metal tiles can be engineered with cut-outs, apertures and special details to accommodate the proliferation of services utilised in today's modern building projects. Whether the specifier selects a standard metal tile or a more customised answer for his project, lighting fittings, air conditioning grilles and fire protection equipment need to be harmonised with the ceiling system. For us, this is standard practice, and the advanced manufacturing capabilities of our metal ceiling facilities enable products to be offered complete with engineered solutions for the incorporation of building services.

Special size and half module tiles can also be produced when necessary to finish ceilings at perimeters and other junctions.





lighting fitting







Face view of tile

Metal ceiling tiles can incorporate a heating and cooling system to contribute to improved comfort for building occupants.

Cut-outs and perforations

Cut-outs Type 1 (rectangular)

Type 2 (rectangular with bendings)

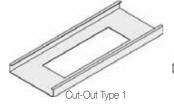
with stiffening angles

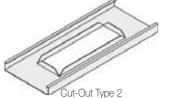
Type 2A (rectangular with bendings and reinforcement angles for loads)

Type 4 (round)

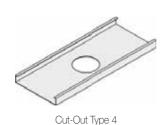
Perforations Air-flow perforations Rd 4045 and Rv 4650

Loudspeaker perforation Qg 4025 and Qg 8043









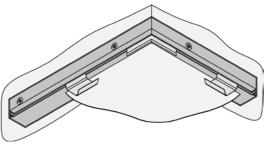
Special cut-outs available on request

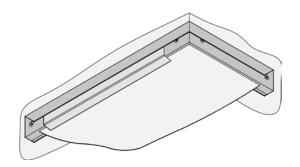
PERIMETER TRIMS

A variety of aluminium extrusions and steel channel sections Whether the requirement is to finish the ceiling directly against are offered to provide simple and effective detailing at the the perimeter wall, or to utilise plasterboard margins, a choice perimeter of the ceiling.

of solutions are available. Some of the sections have been purpose designed for use with Axal Vector, MicroLook and Tegular tiles, and form part of our Axiom Transition range of aluminium profiles.

Perimeter details





Field cutting

Tiles can be cut using tin snips, electric sheet metal shears or band saw. Care must be exercised to avoid damage to the painted surface, bending or distortion of the tiles.

AXIOM Transitions

Axiom Transitions are the ideal solution for metal tile to plasterboard inter-faces. Five extrusions are available for use with metal tiles:

- Axiom Transitions plasterboard Perimeter Trim
- Axiom Transitions for Tegular / MicroLook
- Axiom Transitions for Axal
- Axiom Transitions Channel (cut metal tiles)
- Axiom Transitions Angle







Axiom Transitions Angle with Silhouette



Axiom Transitions Channel



For more information on perimeter details, please contact us.

Axiom Transitions for Tegular / MicroLook

TECHNICAL INFORMATION

Metal walls and ceilings can be used in schools, offices, transport facilities, industrial buildings and also hospitals where their cleanability makes them ideal to meet the clean room standards required in the healthcare sector.



Fire reaction

National Building Regulations (where applicable) require that buildings meet the appropriate Euroclass fire reaction performance depending upon the area of application. Armstrong products have been tested to the harmonised European fire reaction standards and meet the minimum performance criteria. Many Armstrong products have also been tested for their fire resistance performance under various floor constructions.

Metal tiles do not burn and contain no volatile organic components. Metal provides protection against fire and can also provide a shield against radio waves due to their conductivity. As well, many of our acoustical metal ceilings and walls achieve a fire class of A1 according to EN 13501-1.

Armstrong Metal Ceilings products have been tested to meet a variety of fire test classifications

Plain without acoustic infill

EEA	Euroclass A1 (RAL 9010)	
EEA	Euroclass A2-s1, d0 (other colours)	
FFA	Furoclass B-s1, d0 (with gasket)	

Perforated without acoustic infill

EEA Euroclass A1 (RAL 9010)
EEA Euroclass A2-s1, d0 (other colours)
EEA Euroclass B-s1, d0 (with gasket)

With fleece, aluminium foil black tissue faced (AFBTF)

pad or B15 or OP19 infill

Perforated $\emptyset \le 2.5$ mm (acoustic fleece)

EEA Euroclass A2-s2, d0

(Euroclass A1 performance available on special request).

Perforated ø ≤ 2.5 mm (acoustic fleece and gasket)

EEA Euroclass B-s2, d0

Perforated ø ≤ 2.5 mm (AFBTF pad)

EEA Euroclass A1

Perforated ø ≤ 2.5 mm (Premium B15 infill)

EEA Euroclass A2-s1, d0

Perforated ø ≤ 2.5 mm (metal OP19 infill)

EEA Euroclass A2

Thermal conductivity

The ever increasing commitment to energy conservation, dictates that buildings should be as energy efficient as is compatible with their function, use and as specified in national building regulations. Interior building products which can form part of the external structure, such as suspended ceilings beneath a roof construction, can contribute to minimising the loss of heat to the exterior by reference to their thermal conductivity values. Armstrong conducts extensive tests of thermal conductivity on a wide range of its products, in accordance with EN 12667 (as specified in EN 13964) and ISO 8301, by third party accredited laboratories. The thermal conductivity values indicated on each product data page are as determined by these tests.

Pattern	Thermal conductivity W/mK
Plain (unperforated), no inlay	0,244
Plain (unperforated), with fleece	0,163
Plain (unperforated), with 8mm (100 kg	kg/m³)
aluminium foil wrapped mineral wool	0,187
Plain (unperforated), with fleece and I	B15 0,0731



Product handling & durability

Armstrong metal wall and ceiling products are durable, long-lasting and can be cleaned to prolong their service life.

Frequent ceiling tile removal, typically in areas where building service equipment is located, means that a higher level of impact resistance can be required. In this category, the level of durability and impact resistance has been improved by Armstrong.

metal ceilings & walls :::: 53

Cleaning and disinfection

The frequency and cleaning method of a ceiling varies from one application to another. All products can at least be cleaned with a dry cloth or vacuum cleaner.



Wipeable with a dry cloth.



Wipeable with a moist cloth



Washable with a sponge dampened in water containing mild soap or diluted detergent.



Scrubbable with water containing mild soap or diluted detergent (for plain tiles or perforated tiles without a fleece).



Can be cleaned using a high pressure water spray (High pressure water cleaning solution is using metal Clip-In Plain).



Can be cleaned with disinfectants commonly used in Healthcare premises (metal Bioguard solutions).

Air leakage

The cavity above a suspended ceiling may be used as part of the mechanical air distribution system, when it is used as a supply or extract plenum, and the air pressure in the plenum will be either positive or negative in comparison to the pressure in the room below. Similarly for 'Clean Room' applications, where it is most important to prevent the ingress of airborne dust contaminants, the room will be at positive pressure to the surrounding areas. Alternatively, to escape the egress of pathogens the room may be kept at a lower pressure relative to the surrounding areas. In these situations, it is necessary to know how much air leakage occurs through the ceiling system as a result of the pressure differential. Armstrong conducts extensive tests of air leakage on a wide range of its products, in accordance with EN 12114 and EN 13829, by third party accredited laboratories. Please contact Armstrong Technical Sales for further details of these results.

Air flow

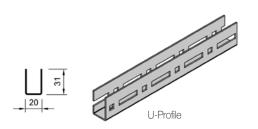
When using perforated metal suspended ceilings, the cavity above may be used as part of the mechanical air distribution system when it is used as a supply plenum. With this arrangement the air pressure in the plenum is always positive in comparison to the pressure in the room below. Specific tiles can be selected as open (active), and these will become air diffusers, while the remaining tiles will have their perforations blocked (inactive). In this way the air flow supply volume to the room can be controlled and balanced dependent upon the pressure differential and the air change requirements.

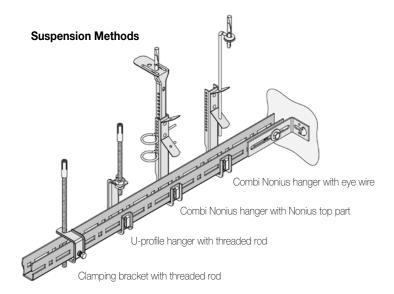
Armstrong conducts extensive tests of air flow on a range of its more common metal products, in accordance with EN 12114 and EN 13829, by third party accredited laboratories. Please contact Armstrong Technical Sales for further details of these results.

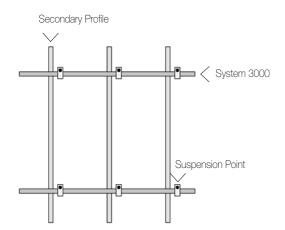
GRID SYSTEMS

System 3000

The System 3000 primary profile was specially designed for Armstrong ceiling systems. Various secondary profiles can be combined with it. This allows a wide variety of solutions. All components of the suspension system are available from stock. You can begin with installation immediately while we produce the ceiling panels. System 3000 also fulfils the two conditions stipulated by the EN standard 13964 with regard to load-bearing capacity (2.5 x to failure) and suitability for use (deflection limitations).

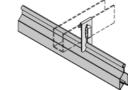




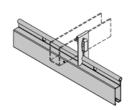


Secondary Profiles







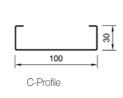


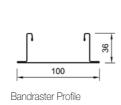


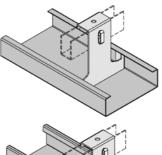




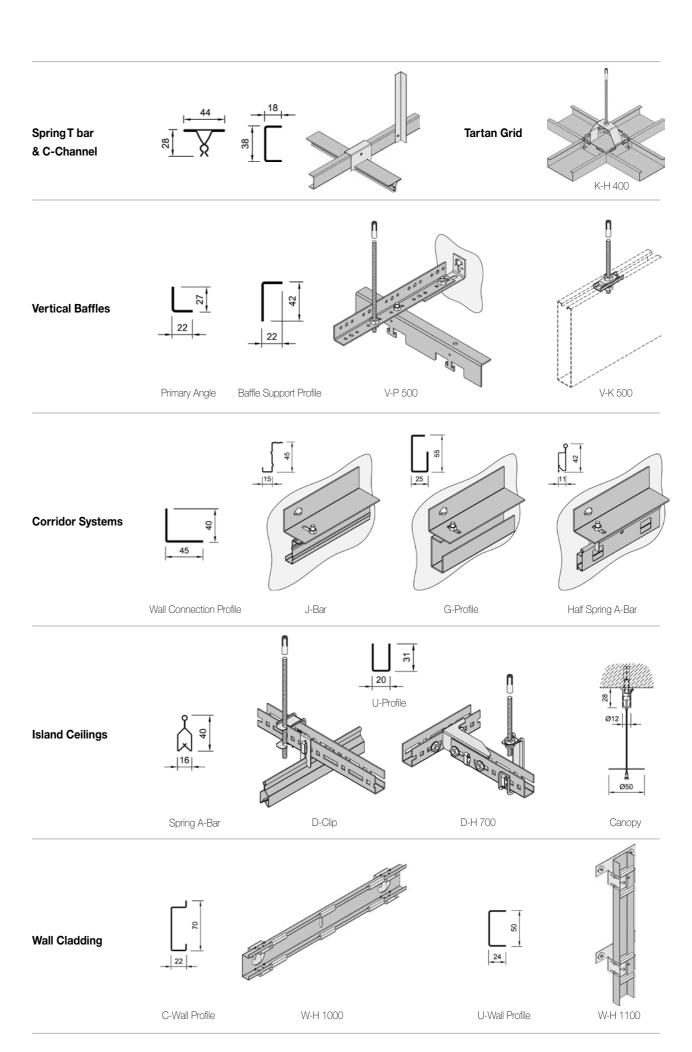


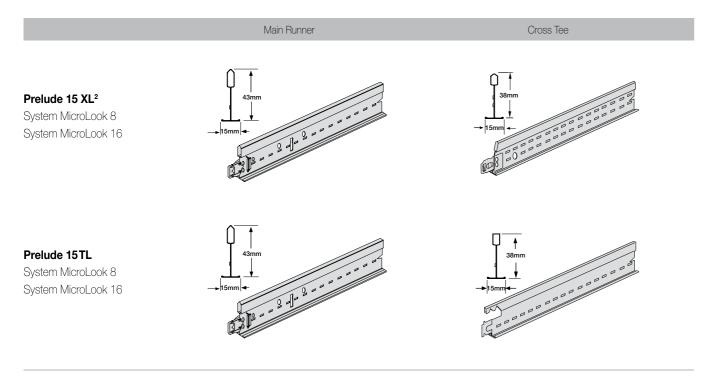


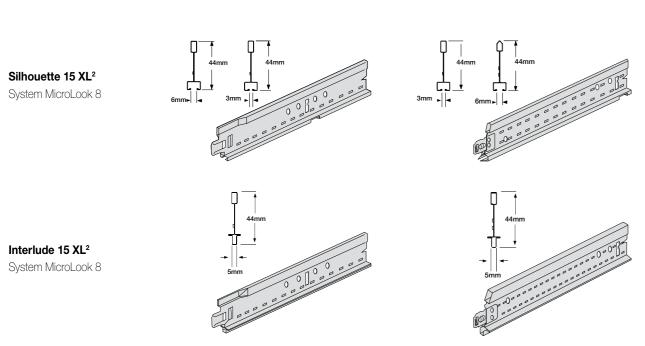


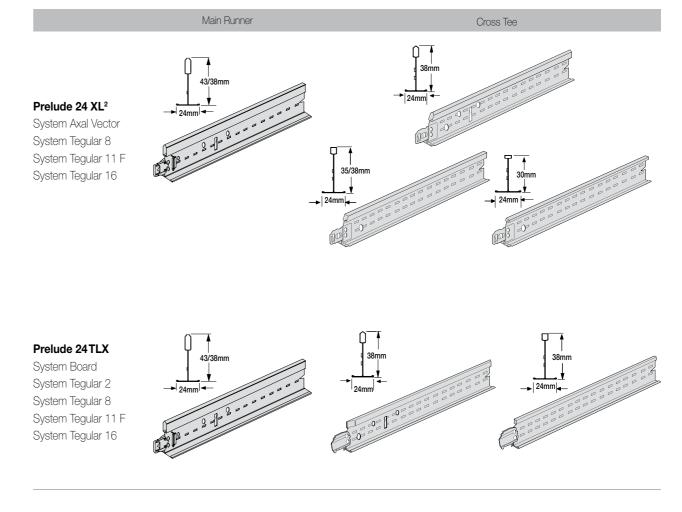












Hangers

Suspension systems are offered with a complete range of commonly required accessories and perimeter solutions.



Standard Colours

	Global	Silver Grey	Black	White	Black/
	White	RAL 9006	(BK)	RAL 9010	White
	(GW)	(SG)		(WR)	
Prelude 24 TLX					
Prelude 24 XL ²					
Prelude 15 XL ²					
Prelude 15 TL					
Silhouette XL ² 6mm					
Silhouette XL ² 3mm					
Interlude					

Further colours on request.

For more information, please consult our installation guide or our suspension systems brochure.

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