METAL
FOR BUILDINGS

METAL CEILING

CATALOGUE

ÉCHAME
PLAFONDS & HABILLAGES MÉTALLIQUES

2022
www.echame.fr

Table of contents

Presentation of the company

40 years of expertise

French manufacturing

Responsive and flexible

Factory direct

Who are we?

For over 40 years, ECHAME has developed recognised French expertise in the design and manufacture of ceilings, partitions and metal cladding for ceiling and partition fitters.

ISO 9001 certified, we offer quality products that comply with the requirements of the building industry and will fit in perfectly with all your projects.

In our 5,000 m2 manufacturing plant, located near Lille in the Hauts de France region, we process galvanised, electro-galvanised, pre-painted and stainless steel or aluminium to create your ceiling or acoustic partitions.

Our sales team and engineering are on hand to help you find the best solution for your project.

Why choose ECHAME ?

• Metal, a recyclable and environmentally friendly material.

• Sustainable ceiling and wall cladding solutions

• French design and manufacture

The manufacturing process

Our factory, based in Linselles has been designed to meet the new quality requirements for ceilings and partitions.

We work from reels to ensure optimum use of the material. Quality is checked on receipt.

A permanent stock of 140 tonnes enables us to respond efficiently to your projects.

Our experienced production teams are fully aware of the constraints associated with our products.

Throughout the process, we carry out dimensional checks (flatness, formats, etc.) and appearance checks (gloss, colourimetry, paint thickness) to ensure the uniformity and consistency of your construction site.

Our latest-generation technical resources give you recognised production capacity and quality.

We are committed to constantly improving our tools and training our staff in accordance with ISO 9001 standards.

Our quality and methods engineers are involved at every stage, from order to delivery, and evaluate actions to improve quality and meet deadlines on a day-to-day basis.

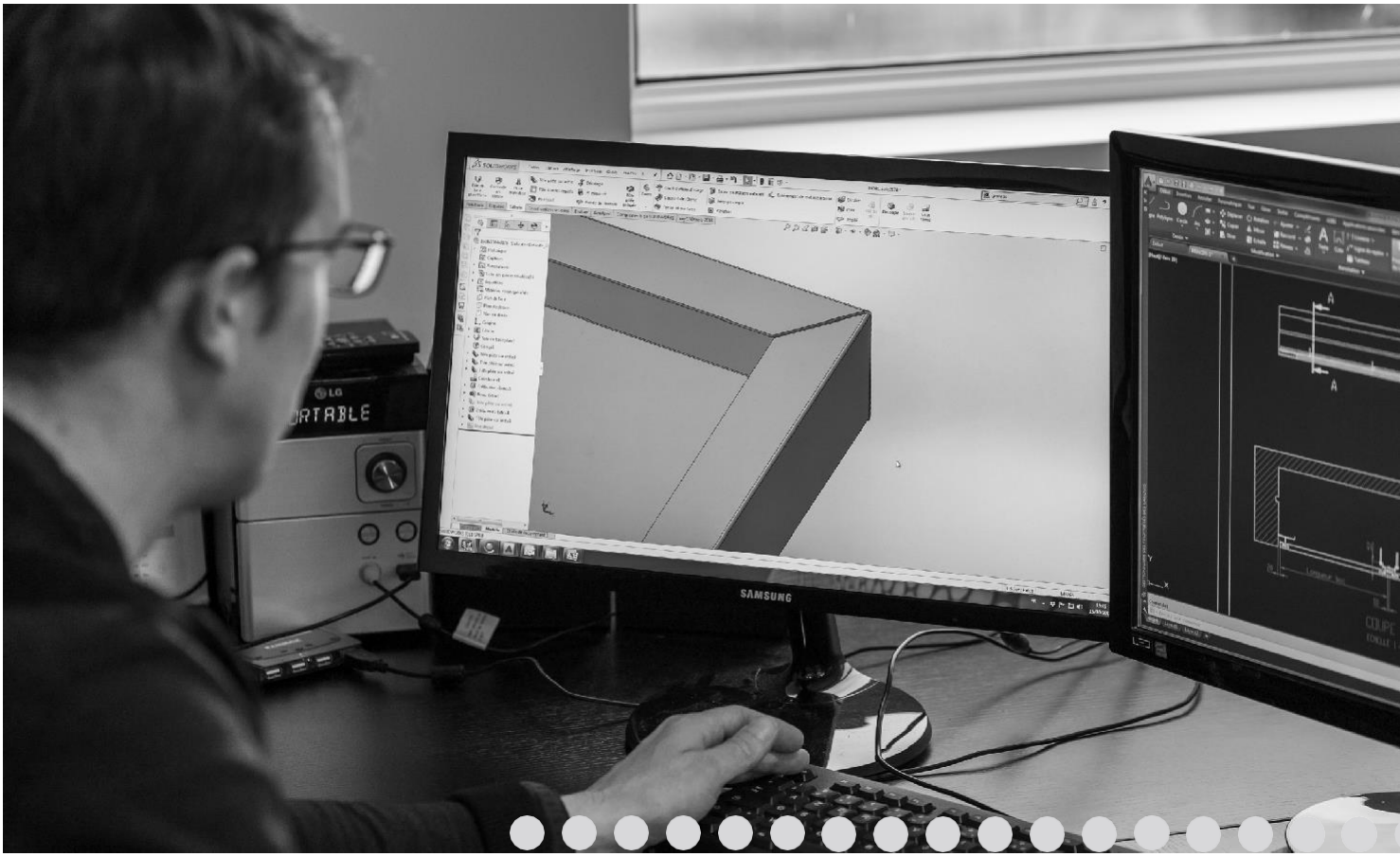
An experienced sales team

Our sales team can offer you the solution best suited to your needs.

At ECHAME, your sales contact is in direct contact with our factory and will study your feasibility and prepare your quotation in record time. We can also provide you with samples for presentation to architects and project managers.

We have two sales offices: one in Linselles, on our manufacturing site, and the other in Le Vieil Evreux in the Eure department, close to our sites in the Paris region.

With over 15 years' experience, our sales staff are true ceiling specialists who know your problems inside out.



The engineering department

Our specialists will be with you from order placement, through manufacturing and right up to delivery. They will also be responsible for advising you during installation on site.

Our designs are produced in 3D CAD. You'll be provided with overall and component drawings that you would validate before manufacture. Whether it's a 10,000 m^2 project or a 300 m^2 renovation, we always offer you the best solution in terms of quality, costs, and lead times.

Efficiency is One project, one point of contact.

Construction Site-focused logistics

A dedicated department organises all transport to and from our customers' sites, with several rotations a day.

We adapt our industrial approach to your actual site requirements: delivery as work progresses, by floor, spread over several months, etc.

Trucks deliver daily to the Paris region and France wide.

We have many transport partners to ensure on-time deliveries.

We offer transport with detachable or flatbed lorries, as well as customised transport with an on-board trolley, tailgate, or small volume for restricted access.


JLF
AS TRANSPORTS
T. 03 28 550 540
FC-462-CG
STILL

Metal

A construction material par excellence, metal enjoys a reputation that makes it a must-have for prestigious building projects. It's environmentally friendly, durable, and robust, allowing great creative freedom and reflecting a modern, top-of-the-range image.

Sturdiness

ECHAME trays are designed to be handled regularly as part of the buildings and networks maintenance running through ceilings. The metal ensures that the construction system is strong and robust enough to withstand frequent handling without premature deterioration.

Recycling

Both recyclable and recycled, steel is a material that produces a small amount of waste and is part of a virtuous environmental approach.

Steel recycling does not alter its intrinsic qualities and does not generate any landfill costs for manufacturers, making it the most recycled material in the world. This steel recycling process expertise is ensured by a perfectly organised sector that has been in operation for many years. Aluminium recycling also requires very little energy and can be recycled indefinitely.

Alongside the durability of metal, steel and aluminum are easily recovered thanks to their perfectly organized supply chain. They make it possible to make the deconstruction operation as a whole more profitable.

Service life

The steel used in the manufacture of ECHAME products undergoes several successive stages of protection against corrosion: galvanisation, and powder coating. These treatments ensure that our products are extremely resistant to damage from humidity, sunlight, and scratches.

Our quality control system | Quality Management

"SYSTEMES DE MANAGEMENT DE LA QUALITE" according to ISO 9001: 2015 certification

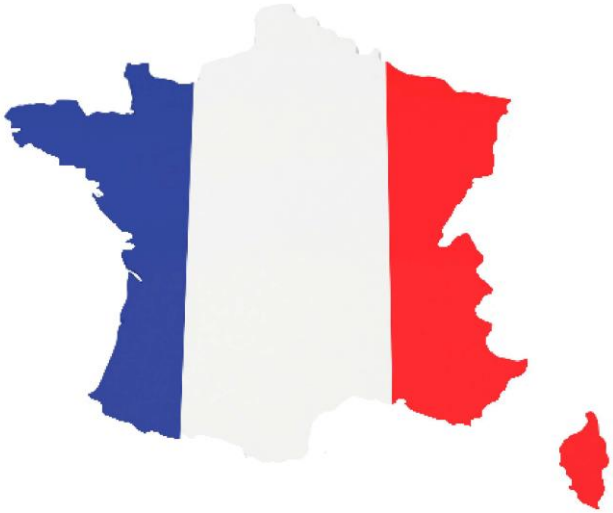
ECHAME supplies products that comply with legal and regulatory requirements.

The Quality Management Systems standard aims to increase customer satisfaction through several tools.

Our Quality system aims to continuously improve our performance and extends to all the company's key processes, from the upstream commercial offer to the delivery of our finished products to the customer.

It is based on the ISO 9001v2015 standard that we have chosen as the benchmark for deploying our quality system.

It is the key tool for dialogue with our staff, and the assurance for our customers and partners of compliance with the contract and regulations.



Made in France

Established in the Ile de France and on the outskirts of Lille for 40 years, ECHAME works as close as possible to its customers to offer them responsiveness and flexibility.

All our products are manufactured at our factory in Linselles (59), from where we organise daily lorry rotations to deliver to our customers' construction sites.

Some specific subcontracting or supply operations are carried out with local partners, guaranteeing us quality of service and responsiveness.

CE marking

In Europe, since 1 July 2007, CE marking for suspended ceilings has been :

- A passport for their free movement within the European Union.
- A commitment to comply with the requirements of the suspended ceiling product standard specifying the requirements and test methods.

In Europe, since July 1st, 2013, construction products covered by a harmonised standard or complying with their European Technical Assessment must be provided with a Declaration of Performance (DOP).

You can download our DOP from our website or is available upon request.

CE

Concern for the environment

Products life cycle analysis

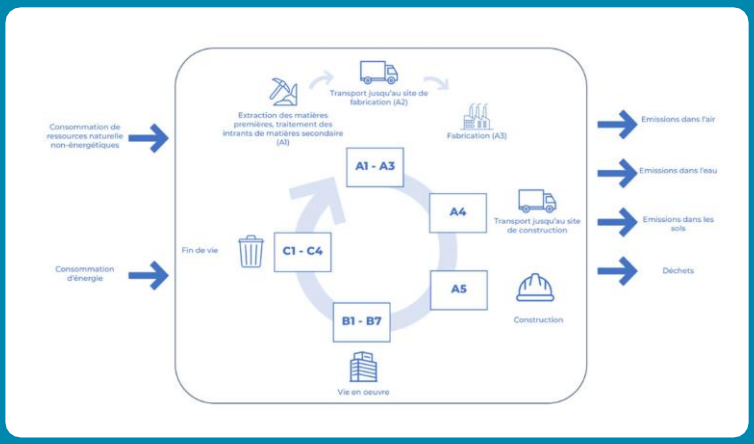
The aim of product lifecycle analysis is to estimate the impact of a product on resources and the environment throughout its lifecycle.

This method is based on considering all the stages in a product's life : from the extraction of raw materials to its end-of-life and the recovery of the waste it generates.

We have analysed the environmental and health impact of our products using Life Cycle Assessment in accordance with the ISO 14040 series of standards.

- Post-lacquered metal ceiling
- Pre-painted metal ceiling

This study provides ECHAME with objective and reliable environmental data on the products it manufactures, throughout the product life cycle. This data can be used to communicate the overall environmental performance of construction projects using these products.



The results of each of our products are communicated on Environmental and Health Data Sheets (EDS), verified by a third party and downloadable from the INIES database: www.inies.fr

Contributing to indoor comfort in buildings

Hygrothermal comfort

Metal ceilings combined with mineral wool-type acoustic insulation promote thermal comfort. What's more, metal ceilings are durable and corrosion-resistant because they are made from galvanised or pre-painted steel.

Visual comfort

Depending on the colour and perforation rate, metal ceilings perform well in terms of luminosity. Because of its light reflection coefficient (between 63% and 88% depending on the perforation and colour), the product helps to improve the visual comfort of the occupants of the rooms in which it is installed and contributes to better management of the electrical energy required for good lighting.

Acoustic comfort

Metal ceilings combined with thermally bonded acoustic fleece on the back or mineral wool-type materials provide absorption performance suitable for most spaces. This combination makes it possible to achieve a sound absorption coefficient αW of up to 1 (class A) according to EN ISO 11654.

Olfactory comfort

Metal ceilings do not give off any noticeable odours.

Acoustic reminders

ECHAME offers products designed to improve the use of buildings, particularly in terms of acoustic comfort.

In areas open to the public, two fundamental acoustic concepts must be considered to guarantee optimum use of the premises :

- Sound absorption (Alpha w)
- Acoustic insulation (or lateral insulation Dn,f,w)

Sound absorption

Absorption or acoustic correction of a room consists of limiting reverberation and therefore improving comfort and speech intelligibility.
To guarantee controlled acoustic correction, the architectural design should be adapted to the desired objectives, using construction materials that are absorbent.
The greater the absorption surface, the lower the reverberation time T, resulting in a low echo effect and a subdued atmosphere conducive to work or social interaction.

The indices used to measure acoustic correction are:

- Weighted absorption coefficient: αw
- Equivalent absorption area of a room (m2): A(f)
- Reverberation time (s): T

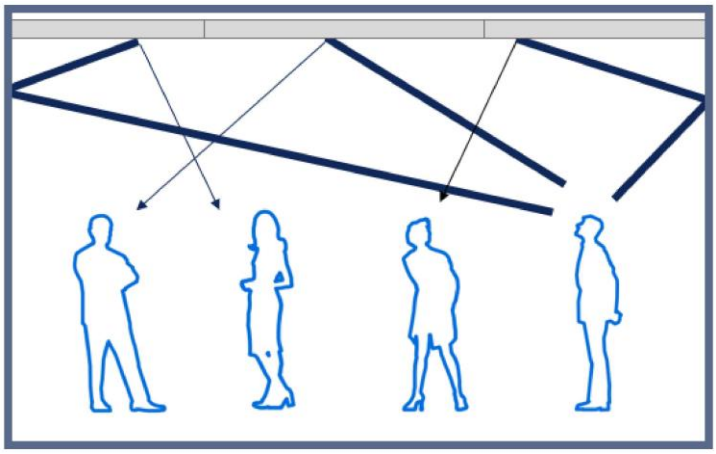
Definition of the absorption coefficient

The sound absorption coefficient defines the ratio of absorbed noise to incident noise. It depends on the frequency, but is characterised by an average index Alpha w.

The absorption coefficient (αw) lies between 0 and 1 :

- Absorption coefficient = 0 : the material does not absorb any noise, so the noise is totally reflected.
- Absorption coefficient = 1 : all the noise is absorbed by the material.

So, a material with an absorption coefficient αw=0.8 means that it absorbs 80% of incoming noise.
In other words, the closer the coefficient is to 1, the more absorbent the material.



Product absorption classes

The absorption classes of building materials are standardised and make it easy to determine the acoustic quality of a commercial product so that they can be compared with each other.
However, in certain specific cases, it may be useful to pay attention to performance per third of an octave rather than just considering the average value.
There are five absorption classes for the products to be used :

- A : 0,90 / 0,95 / 1
- B : 0,80 / 0,85
- C : 0,60 / 0,65 / 0,70 / 0,75
- D : 0,30 / 0,35 / 0,40 / 0,45 / 0,50 / 0,55
- E : 0,15 / 0,20 / 0,25
- Unclassified : 0,15 / 0,20 / 0,25

The absorption performance of ECHAME products will depend on the nature of the lining inside the panels, the perforation rate, the height of the plenum, etc.
All the results of our laboratory-tested products are presented on page 90

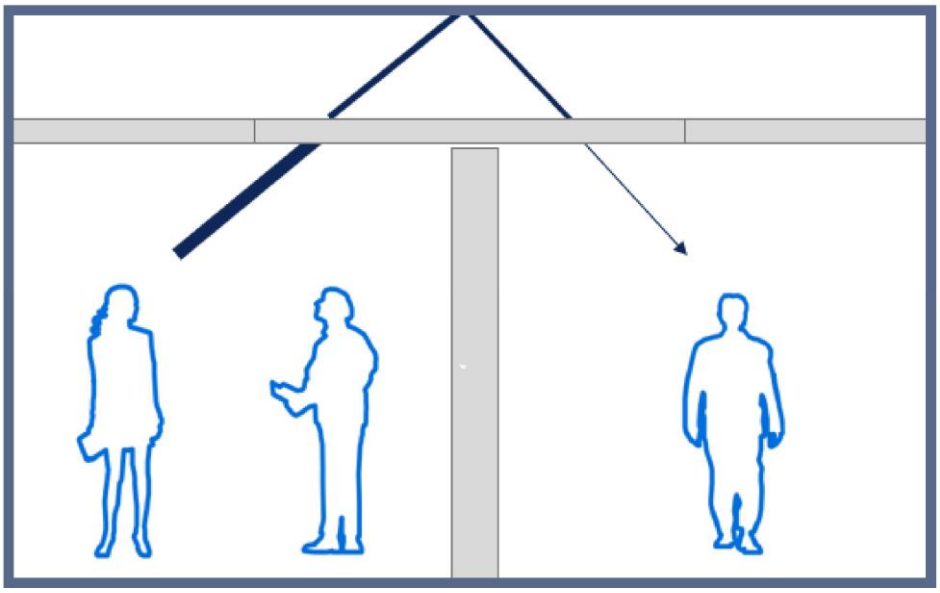
Lateral insulation

If the partitions between adjoining rooms do not extend up to the structural slab, noise is transmitted through the plenum. As a result, traditional absorbent acoustic ceilings often provide insufficient acoustic insulation. It is therefore necessary to install a BAC LOURD (heavy-duty trays) acoustic ceiling, offering additional insulation performance.

The Dn,f,w index measured in the laboratory represents the acoustic insulation provided by the ceiling (and only the ceiling) between two rooms. As with sound absorption, it is frequency-dependent. It is presented in values in one-third octaves and is compiled into an average value Dnfw

The higher the Dn,f,w value, the better the lateral sound insulation This index is laboratory-tested in accordance with ISO 10848-2 and assessed in accordance with EN ISO 717-1.

ECHAME offers optional heavy-duty trays (L) to meet these lateral insulation requirements. These products generally consist of an assembly of mineral wool and plasterboard.



Reading aid

C & CTR VALUES

In order to be able to better assess the impact of sound insulation under specific conditions, the laboratory reports expressed in Dn,f,w and/or Rw also indicate C and Ctr values.

C is the pink noise correction factor. It is used to assess sound insulation in relation to everyday activities, for example, conversations, music, radio, TV, children playing, etc.

Ctr is the road noise correction factor. It is used to assess sound insulation against urban traffic. The lower the C or Ctr correction factor, the better.

For example : a ceiling with a Dn,f,w (C;Ctr) value of 40 (-2;-6) will reduce pink noise by 38 dB (-2) and road noise by 34 dB (-6).

INSULATION

ABSORPTION

Fire safety regulations

Reaction to fire

CE Marking of suspended ceilings defines a new classification of reaction to fire performance, in accordance with standard NF EN 13501-1: Euroclasse.
In accordance with the Decree of 21 November 2002 on the reaction to fire of construction and fitting-out products, the table below sets out the Euroclasses, determined in accordance with standard NF EN 13 501-1, admissible regarding the M categories mentioned in the fire safety regulations.
ECHAME ceilings comply with class A1 or A2 depending on the finish and type of lining.

A product's reaction to fire characterises its contribution to fire. It is characterised by 3 points:

- Fire development: i.e., whether the material contributes to the spread of fire through its combustibility (A being non-combustible and F being highly combustible).
- Smoke production: i.e., whether the product generates smoke (s1 being non-smoking and s3 being highly smoking).
- Falling flaming drops: "d0" meaning that there are no drops in the event of a fire, up to "d2" indicating many drops.

Grade according to NF EN 13 501-1	Euroclasse			Référentiel M
No contribution, even in a fully developed fire. Supposed to automatically satisfy lower classes	A1	-	-	Non-combustible
Class B + low contribution to the load of a fire and to the development of the fire in the case of a very developed fire	A2	s1	d0	M0
		s1 s2 s3	d1 d0 d1	M1
Same as C, with stricter criteria	B	s1 s2 s3	d0 d1	
Same as D, with stricter criteria	C	s1 s2 s3	d0 d1	M2
Resists the attack of a small flame for a longer period. Able to withstand thermal attack from an isolated object on fire with delayed and limited heat release	D	s1 s2 s3	d0 d1	M3
				M4 (non dripping)
All classes other than E-d2 and F				M4

Fire resistance

ECHAME offers a range of products with Fire Stable (SF) certification, to meet regulatory requirements in this area.

The SF classification is used when the suspended ceiling does not act as a protective screen for structures, but must still meet the mechanical fire stability requirements, particularly in the common horizontal corridors (CHC) of high-rise buildings (IGH).

Fire resistance characterises the time during which construction elements can retain their initial function despite the action of a fire: this ensures that ceiling elements will not fall.

The decree of 22 March 2004 annex 1 §2.5 describes tests to characterise fire stability performance (minimum SF 1/4h required).

SF: Fire stability - Mechanical resistance. Products, construction elements and works, whose classification includes the symbol R (expressed in minutes) can be used when a Fire Stability requirement is required.

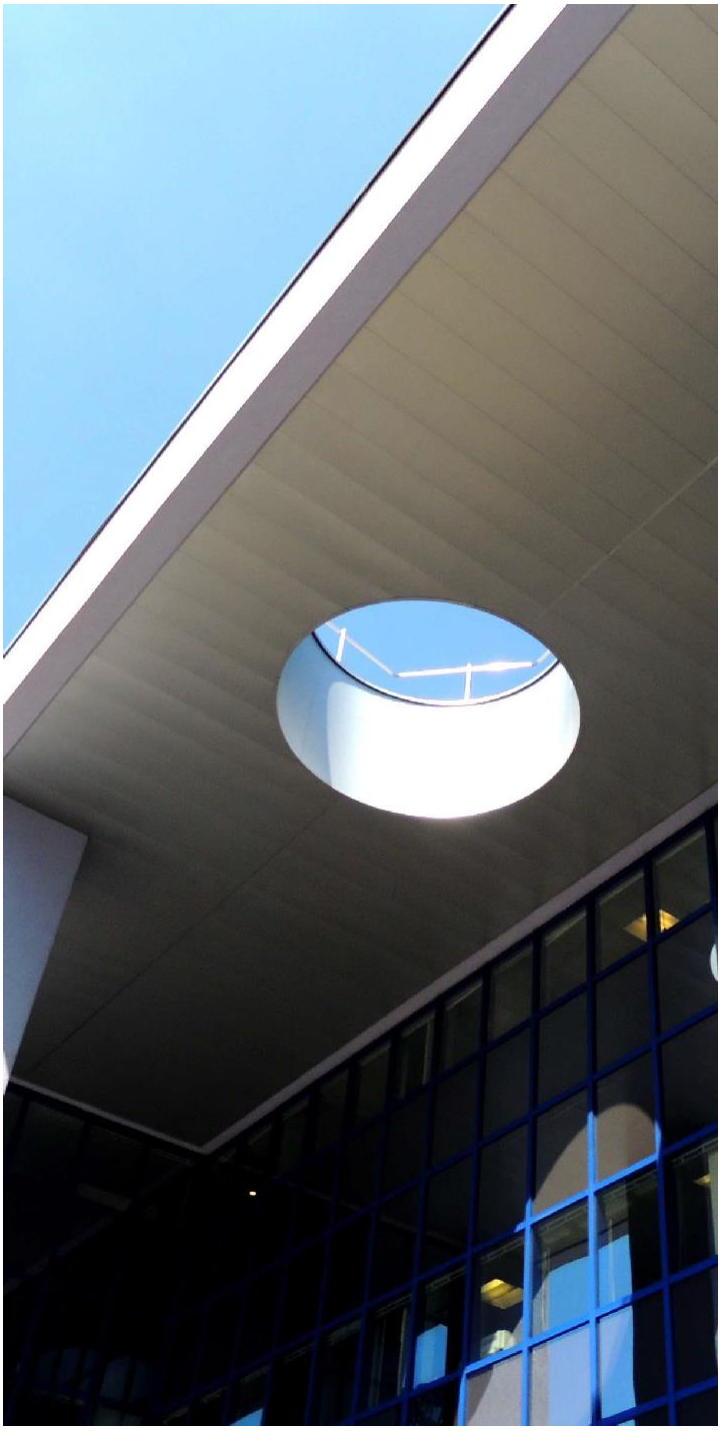
Dig deeper...

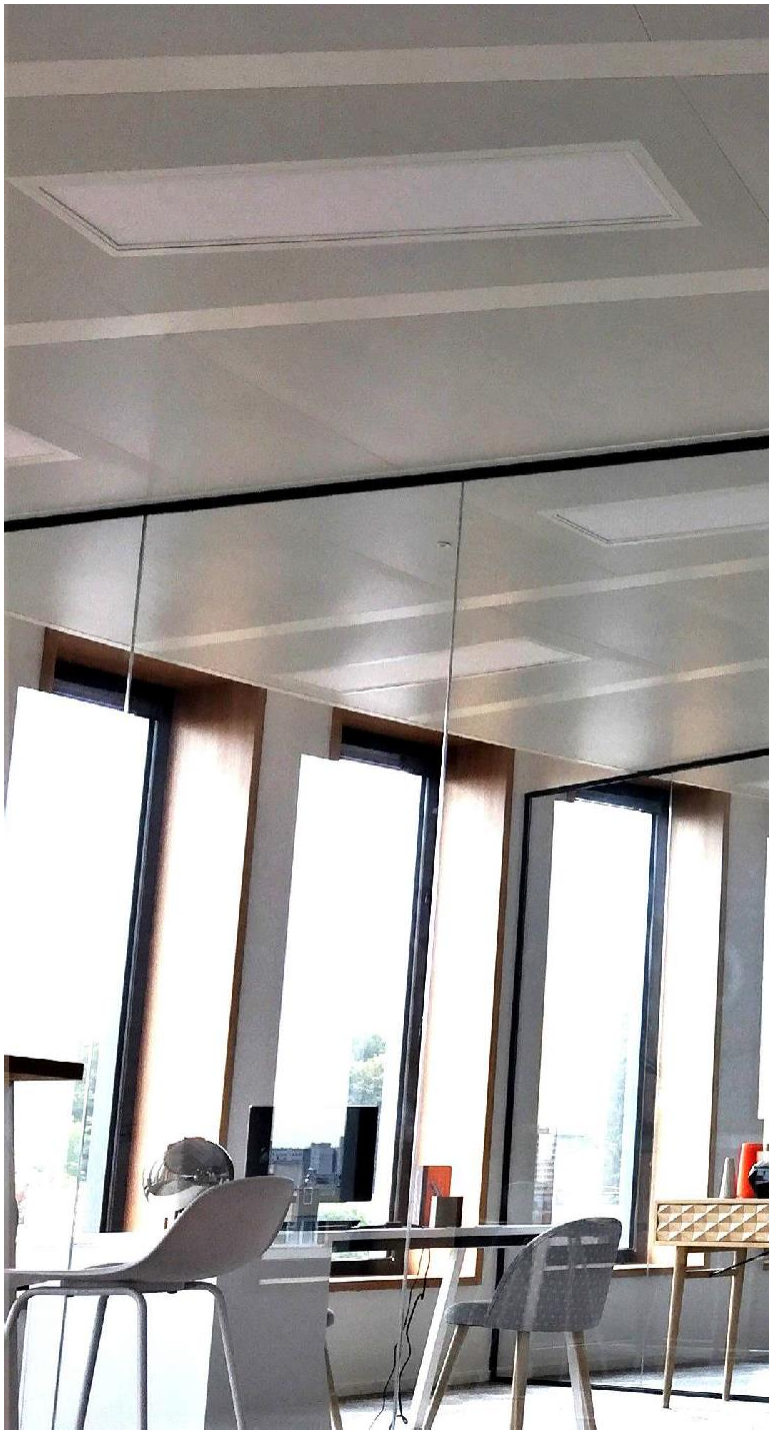
The REI classification is used when the suspended ceiling acts as a protective screen for structures.

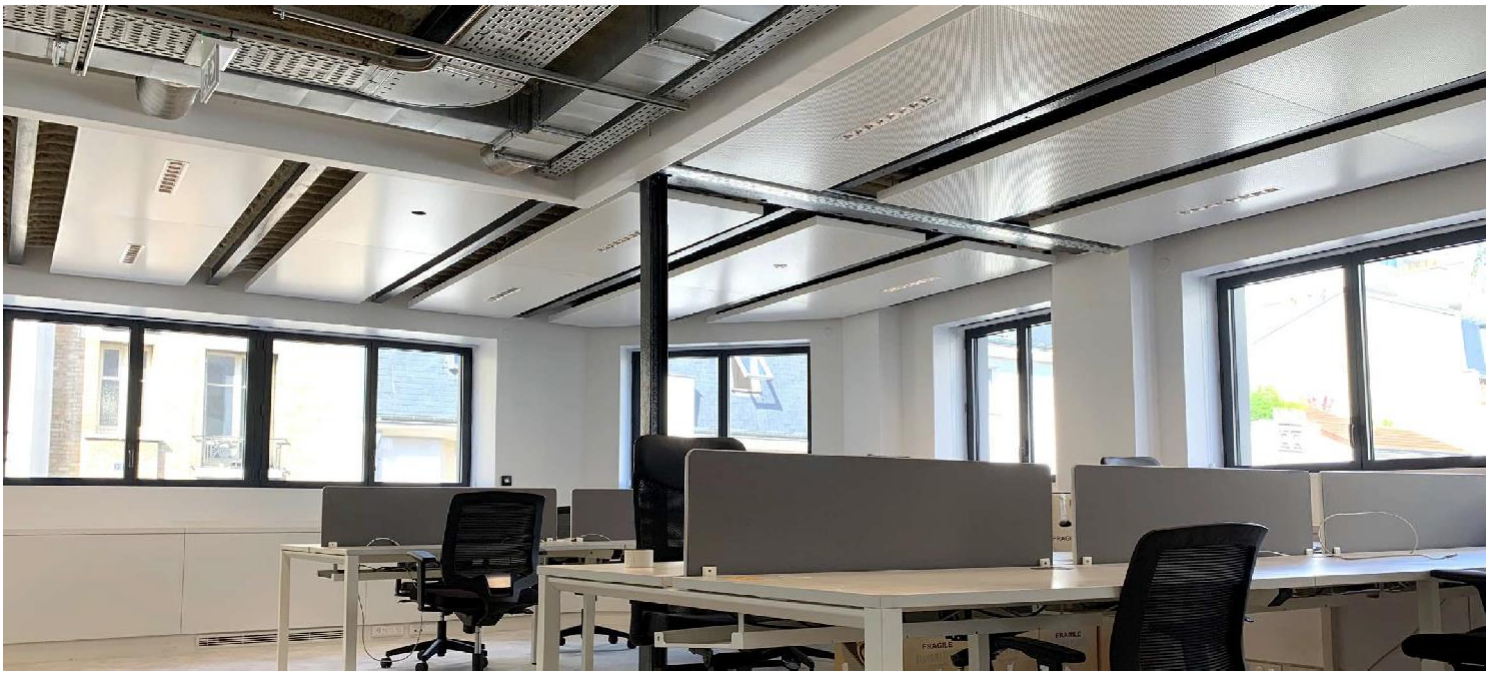
According to the unified European provisions described in standard EN 13501-2.

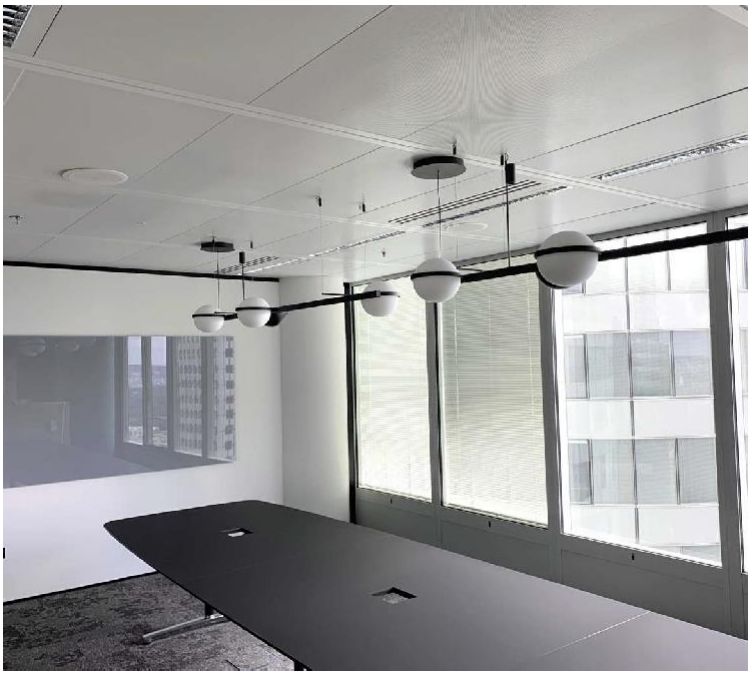
PF: Pare Flamme (Flame arrestor) - Tightness to flames and hot gases, and where applicable Mechanical Resistance Products, construction elements and works, whose classification includes the symbol E or R.E. (expressed in minutes) can be used when a Flame Arrestor requirement is required.

CF: Coupe-feu (Firestop) - Tightness to flames and hot gases, Thermal insulation and, where applicable, Mechanical resistance. Products, construction elements and works, whose classification includes the symbol E and I or R.E. and I (expressed in minutes) can be used when a Firestop requirement is required.









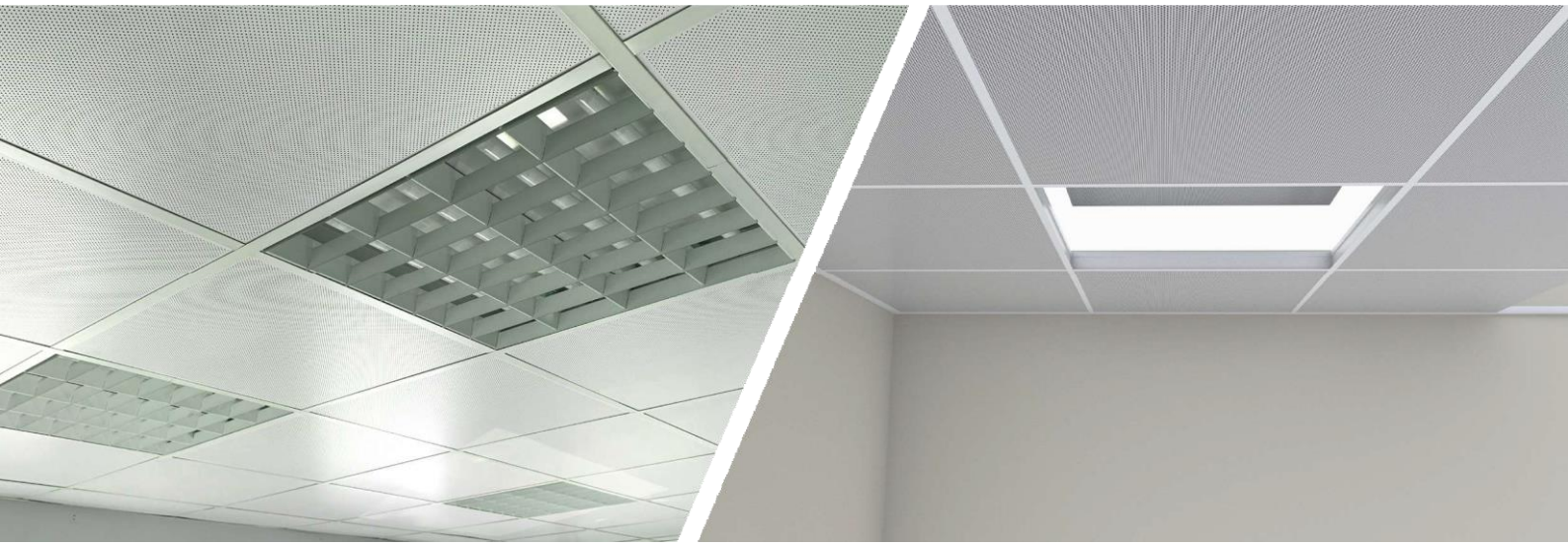

Olympiades
Point Contact

Our products

User Guide

Framed ceillings Offices, reception areas,meeting rooms, box, halls...	Corridor ceillings Office buildings, hospitals, school buidlings ...		
✓		EC7 H0	TILES
✓		EC7 H08	
✓		EC7 H13	
✓		EC7 CLIP	
	✓	EC2 B0	PANEL ON EXPOSED GRID
✓	✓	EC2 BRD	
✓		EC2 BRZ S	
✓		EC2 BRZ B	
✓		EC2 J	PANEL ON CONCEALED GRID
✓		EC2 JC	
✓	✓	EC4 H	
	✓	EC31	SWING-DOWN PANELS
	✓	EC3	
✓	✓	EC30	
✓		EC2 L	HEAVY PANELS
	✓	EC2 SF	FIRE RESISTANCE CEILINGS
	✓	EC3 SF	
	✓	EC30 SF	
✓	✓	EC2 CLIP	LONG SPAN PANELS
✓		ILOT C	FREE HANGING PANELS
✓		ILOT J	

EC7 H0



Product description

EC7 H0 cassettes are installed on standard visible framing. These ceilings can be easily dismantled vertically, allowing easy access to the plenums for technical work.

The standard EC7 grid system allows lighting units to be fitted directly onto the grids.

The EC7 H0 metal tile is installed on a T-profile for a flat appearance.

Use

Screened office floors, meeting rooms, circulation areas, toilets, laboratories, kitchens, school premises, etc.

Materials

Galvanized steel 5/10.

Other materials on request

Dimensions

600 x 600 mm
1200 x 600 mm
675 x 675 mm

90°
Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :


11% Ø 1.5 M

On request:


2% Ø 0.8 U


22% Ø 1.5 M


16% Ø 2.5 U


Non perforated


Bending in perforation


Stopped 4 sides

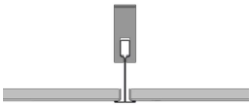
Bespoke perforation ? Consult us !

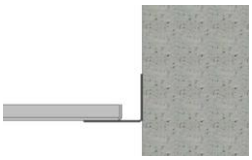
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request





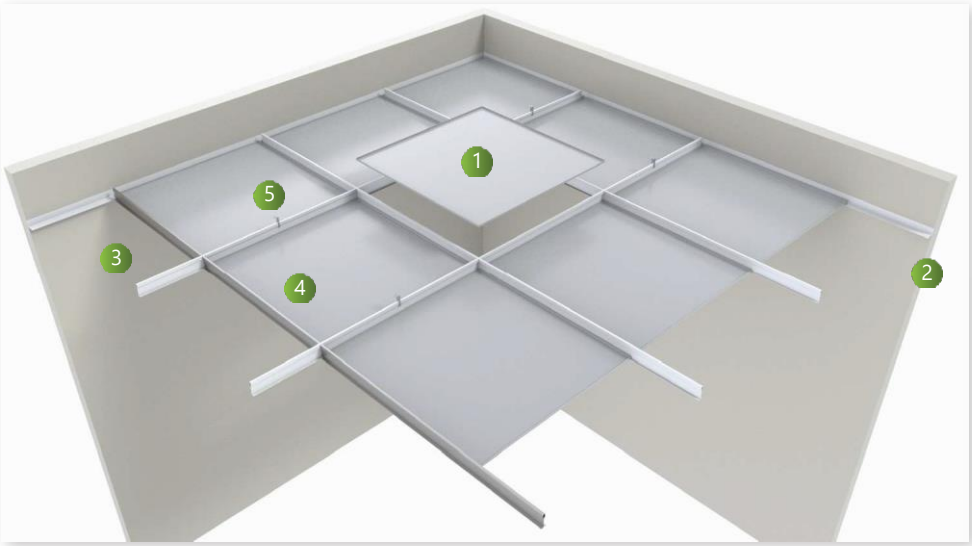
Installation in accordance with DTU 58.1

Frames : Cassettes installed on visible T24 or T15 framing.

Hanging at 300 mm from the wall and at 1200 mm centres.

Edges : Installed on edge angles.

Removal : Opening by pushing the cassette vertically.



1 EC7 H0 Metal tile
2 REC L Edge corner
3 PREC T24 P3600 T carrier profile
4 PREC T24 E600 T cross tee
5 SUSP T Slide hanger

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

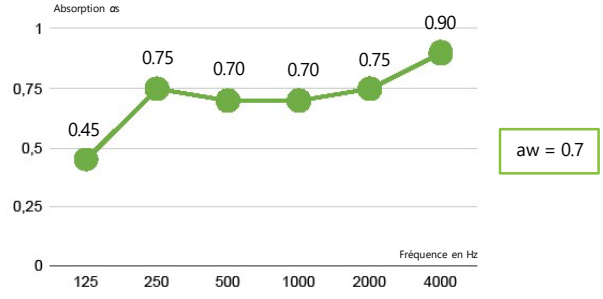
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

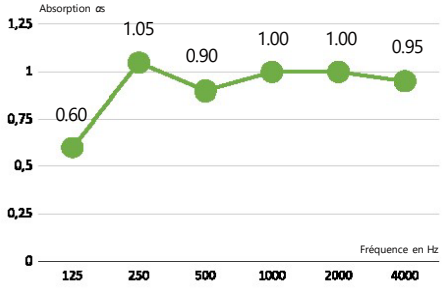
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC7 H08

Product description

EC7 H08 metal tiles are installed on standard visible framing. These ceilings can be easily dismantled vertically, allowing easy access to the plenums for technical work.

The standard EC7 grid system allows lighting units to be fitted directly onto the grids.

The EC7 H08 metal tile is installed on a T15 or JC profile for a recessed appearance or thin hollow joint.

Use

Screened office floors, meeting rooms, circulation areas, toilets, laboratories, kitchens, school premises, etc

Materials

Galvanized steel 5/10.

Other materials on request

Dimensions

600 x 600 mm
1200 x 600 mm
675 x 675 mm

Sharp corner / tegular edge

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

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Bending in perforation

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Installation method

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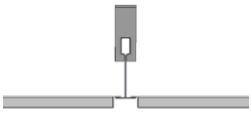
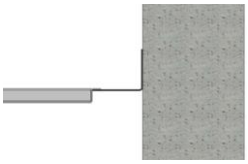




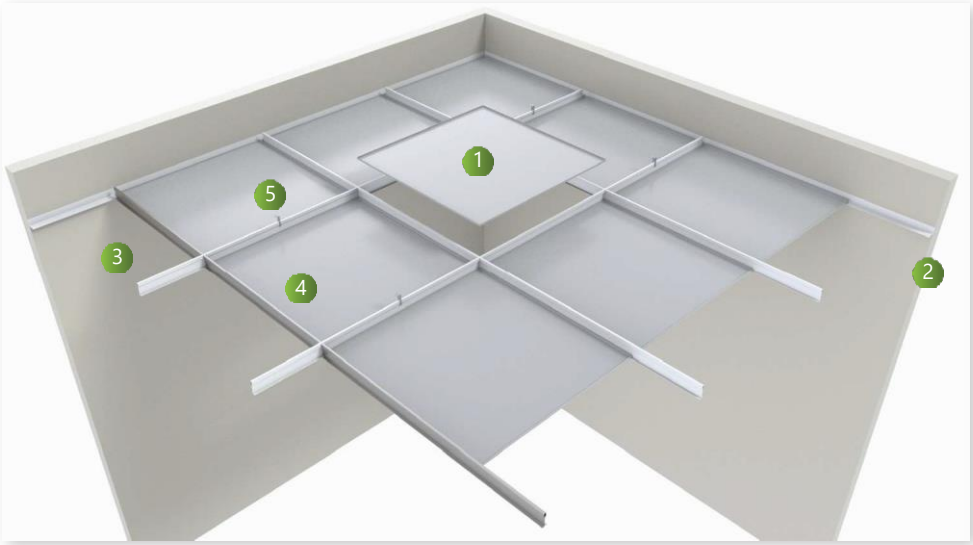
Installation in accordance with DTU 58.1

Frames : Metal tiles installed on visible T15 or hollow joint profile framing.

Hanging at 300 mm from the wall and at 1200 mm centres.

Edges : Installed on edge angles.

Removal : Opening by pushing the cassette vertically.



1 EC7 H08 Metal tile
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4 PREC T15 E600 T cross tee
5 SUSP T Slide hanger

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

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- pre-painted panel with non-woven fleece or surfaced rock wool lining

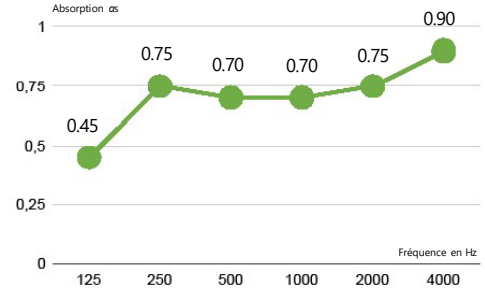
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

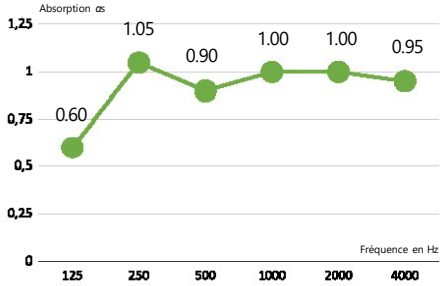
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

SQUARE TILES

EC7 H13

Product description

EC7 H13 cassettes are installed on standard visible framing. These ceilings can be easily dismantled vertically, allowing easy access to the plenums for technical work.

The standard EC7 grid system allows lighting units to be fitted directly onto the grids.

The EC7 H13 metal tile is installed on a T24-profile for a recessed appearance or hollow joint.

Use

Screened office floors, meeting rooms, circulation areas, toilets, laboratories, kitchens, school premises, etc.

Materials

Galvanized steel 5/10.

Other materials on request

Dimensions

600 x 600 mm
1200 x 600 mm
675 x 675 mm

Sharp corner / tegular edge

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Stopped 4 sides

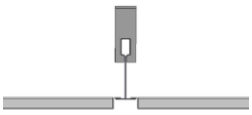
Bespoke perforation ? Consult us !

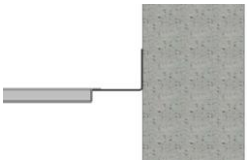
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request





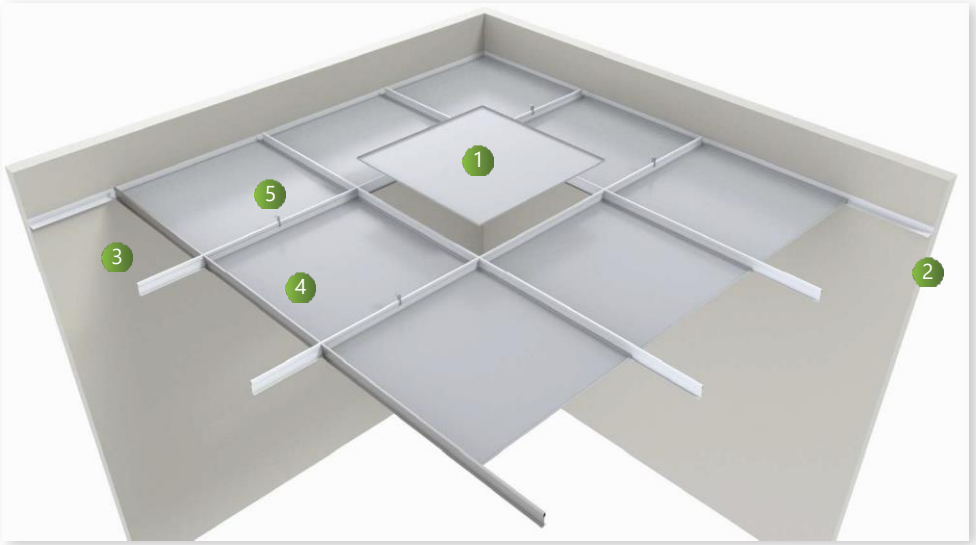
Installation in accordance with DTU 58.1

Frames : Cassettes installed on visible T24 framing.

Hanging at 300 mm from the wall and at 1200 mm centres.

Edges : Installed on edge angles.

Removal : Opening by pushing the cassette vertically.



1 EC7 H0 Metal tile
2 REC L Edge corner
3 PREC T24 P3600 T carrier profile
4 PREC T24 E600 T cross tee
5 SUSP T Slide hanger

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

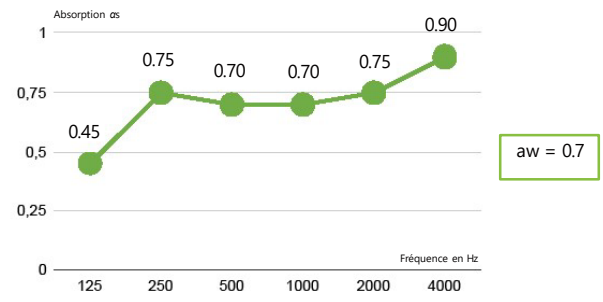
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

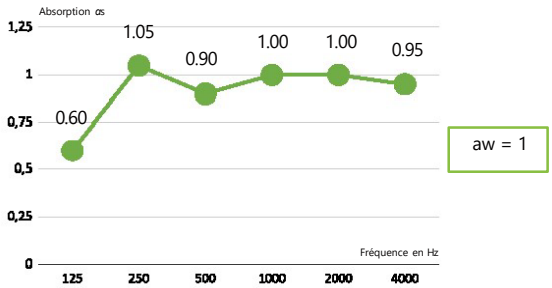
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

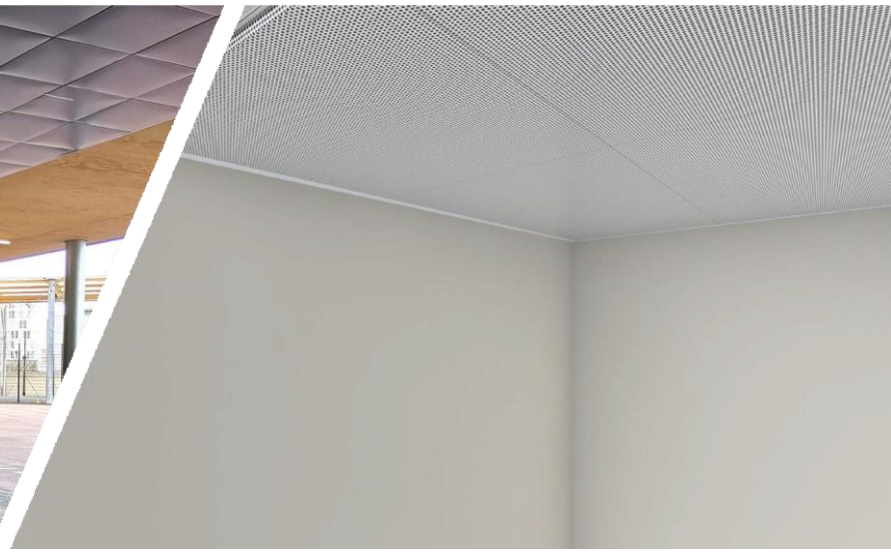
100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC7 CLIP



Product description

EC7 CLIP cassettes are installed on standard concealed framing. These ceilings, which can be dismantled with tools, provide easy access to the plenums for technical work.

The EC7 CLIP tile is installed under a spring-loaded profile for a one-piece appearance with no visible framing.

Use

Screened office floors, meeting rooms, circulation areas, toilets, laboratories, kitchens, school premises, etc.

Materials

Galvanized steel 5/10.

Other materials on request

Dimensions

600 x 600 mm
1200 x 600 mm
675 x 675 mm

90°
Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Stopped 4 sides

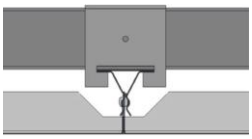
Bespoke perforation ? Consult us !

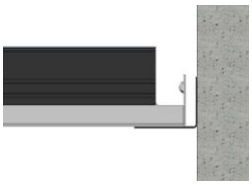
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

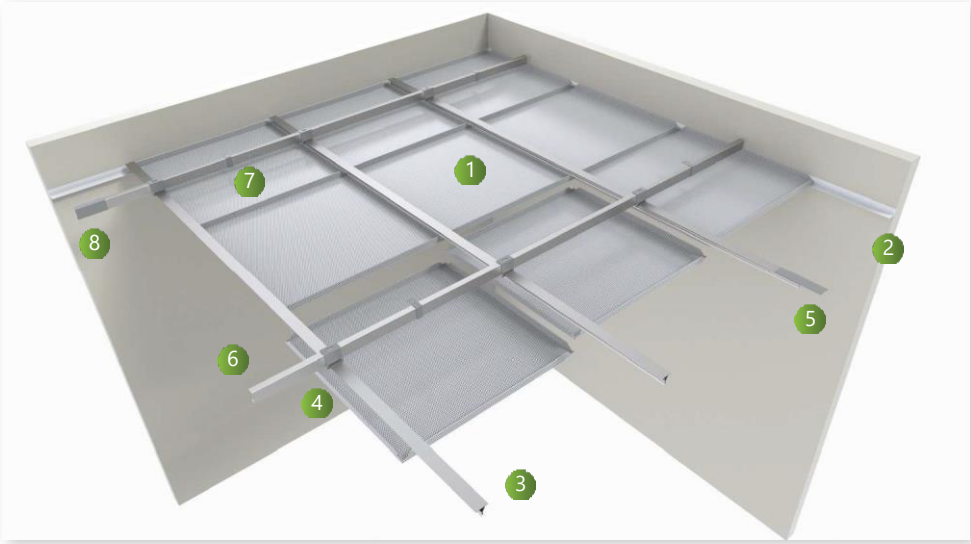
Frames : Clipped cassettes with invisible spring framing.

The spring framing is fixed to a primary frame to secure the system.

The primary framing is suspended 300 mm from the wall at 1200 mm centres.

Edges : Installed on edge angles.

Removal : Open with a special removal tool by pulling the tile downwards.



1 EC7 CLIP Metal tile
2 REC L Edge corner
3 PREC R Spring profile
4 SUSP R Connecting hanger / spring profile
5 RACC R Spring profile connector
6 PREC PU U section main runner
7 SUSP PU Primary profile hanger
8 RACC PU Primary profile connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

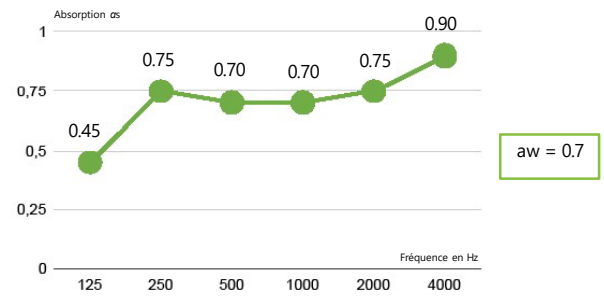
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

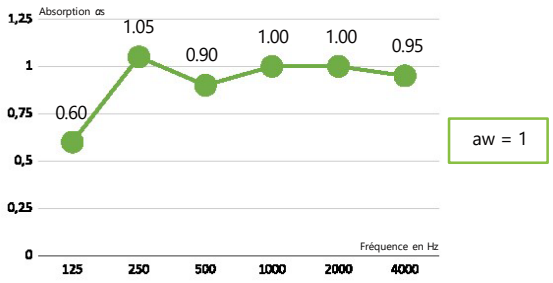
Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



Perforation 11% + Rockwool 30 mm



Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

PANEL ON AN EXPOSED GRID

EC2 BO

Product description

Economical, self-supporting open-ended trays on exposed edge profiles, installed in walkways only The trays are made of 5/10th thick sheet steel, perforated or not, with a wide choice of colours.
The panels are open at both ends, with sharp, abutting edges.
The panels rest on self-supporting edge angles.

Use

Circulation areas, corridors.
Sanitary areas, small rooms requiring a self-supporting structure.

Materials

Galvanized steel 5/10.

Other materials on request

Dimensions

Standard width 300 mm
length within the limit of self-supporting
(2400 mm maximum)

Sharp corner/
optional longitudinal rod

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 **9005**

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Bespoke perforation ? Consult us !

Options

Special cut-outs for lighting and HVAC equipment on request

Long overlapping edge (BJR) for covering between panels

Installation method

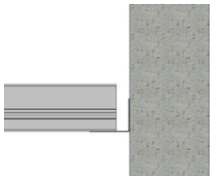
All special profiles available on request

Installation in accordance with DTU 58.1

Installation in walkways only

Edges : Panels installed on single angle, hollow joint, or runners.

Removal : Open by pushing vertically on the panel.



1 EC2 BO Panel

2 REC L Edge corner

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

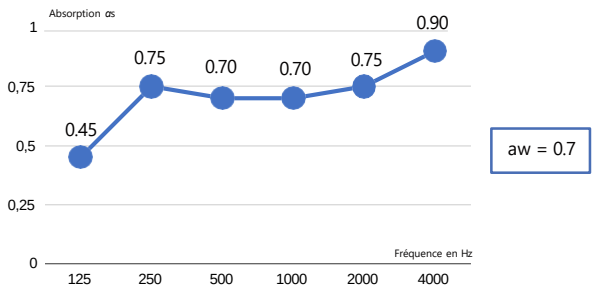
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

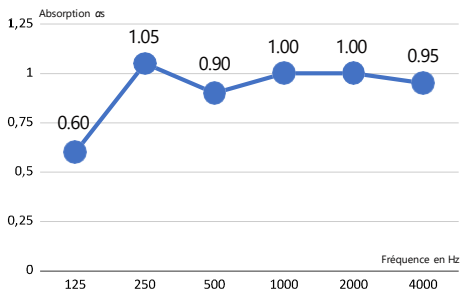
ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

Metal for buildings

PANEL ON AN EXPOSED GRID

EC2 BRD

Product description

Self-supporting panels with straight upturned ends laid on a visible framework consisting of flat rails. The frames are perpendicular to the facades according to the layout plan. The panels are made of 5 to 8/10th thick steel sheet, perforated or not, with a wide choice of colours.
The panels have sharp, abutting edges and are folded up at each end to ensure rigidity.
The panels rest on flat rails or self-supporting edge angles.

Use

Rastered office tops, open-spaces, meeting rooms, computer rooms, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

90°
Sharp corner/
optional longitudinal rod

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :


11% Ø 1.5 M

On request:


2% Ø 0.8 U


22% Ø 1.5 M


16% Ø 2.5 U


Non perforated


Bending in perforation


Longitudinal perforation

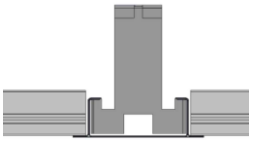
Bespoke perforation ? Consult us !

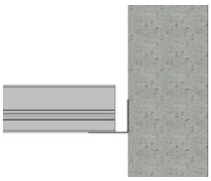
Options

Special cut-outs for lighting and HVAC equipment on request
Cooling ceiling
Heavy panels (L)
Fire stable panels (SF)
Long overlapping edge (BJR) for covering between panels

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

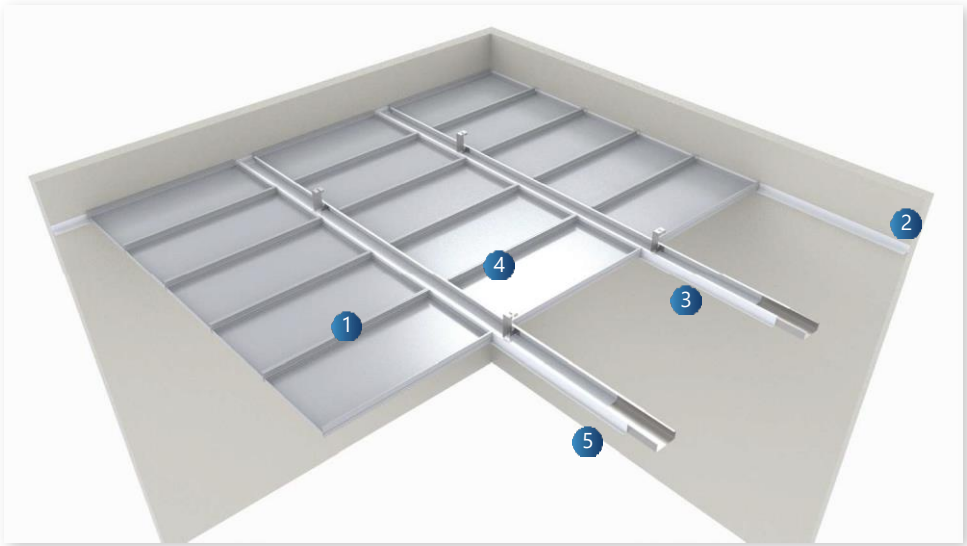
Frames : Panels laid on flat rails (various widths, with or without shadow gap)

Hanging positioned at 1200 mm centres, starting 300 mm from the wall.

The framing must be clamped using spacer profiles, such as counter-drilled angles, to prevent any movement of the framework that could cause the panels to fall.

Edges : Panels installed on single angle or hollow joint.

Removal : Open by pushing vertically on the panel.



1 EC2 B0 Panel
2 REC L Edge corner
3 PREC LP Omega bandraster
4 SUSP LP Bandraster hanger
5 RACC LP Bandraster connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

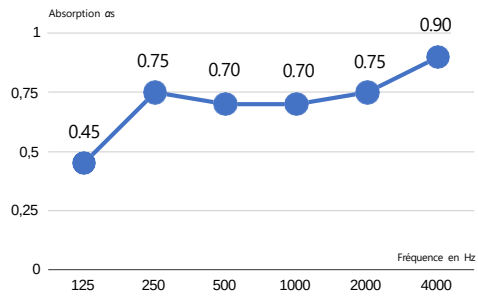
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

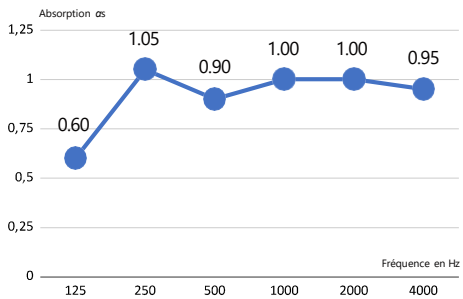
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

Metal for buildings

PANEL ON AN EXPOSED GRID

EC2 BRZ S

Product description

Self-supporting panels with Z-bends laid on a visible framing made of C-rail profiles. The frames are perpendicular to the facades according to the layout plan. The panels are made of 5 to 8/10th thick steel sheet, perforated or not, with a wide choice of colours.

The panels, with sharp, abutting edges, have folds raised in a Z-shape and secured at each end to allow the panels to rest on the C rails and guarantee that the spacing of the framing is maintained.

The panels surface is the same as the supporting profiles.

Use

Rastered office tops, open-spaces, meeting rooms, computer rooms, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

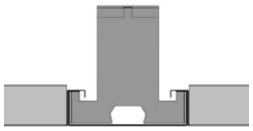
Bespoke perforation ? Consult us !

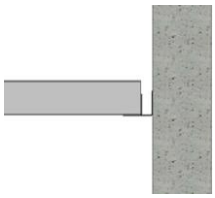
Options

Special cut-outs for lighting and HVAC equipment on request
Cooling ceiling
Heavy panels (L)
FAST Hook-On system

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

Frames:

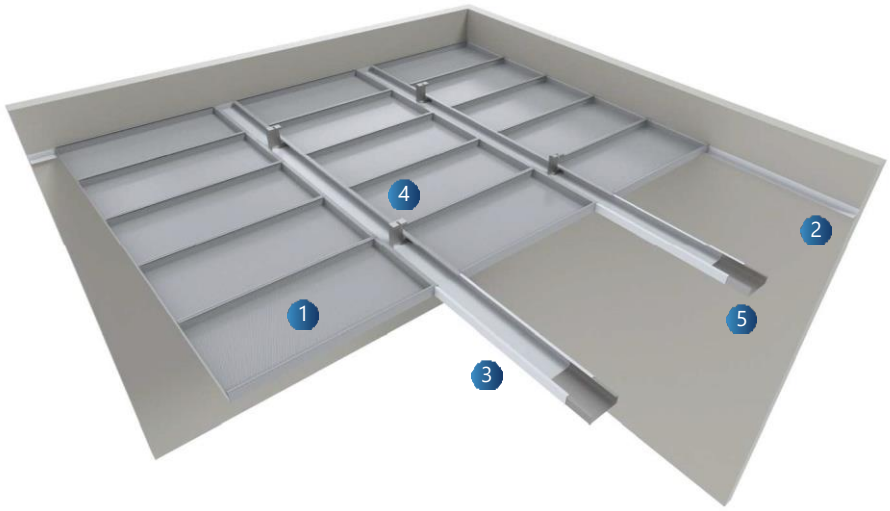
Panels laid on C rails (various widths, with or without shadow gap)

Hanging positioned at 1200 mm centres, starting 300 mm from the wall.

Joining clips between C rails for perfect framing alignment.

Edges : Panels installed on single angle or hollow joint.

Removal : Open by pushing vertically on the panel.



1 EC2 BRZ Panel
2 REC L Edge corner
3 PREC C C-bandraster
4 SUSP C C-bandraster hanger
5 C RACC C C Bandraster connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

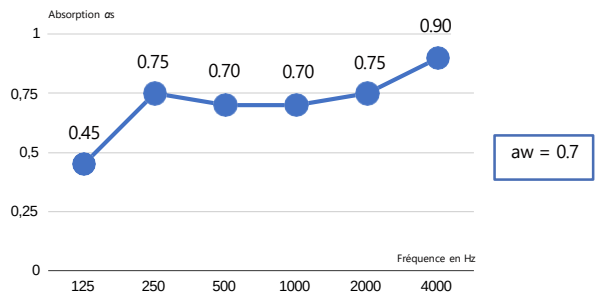
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

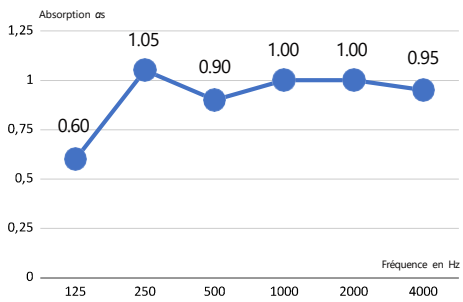
ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

PANEL ON AN EXPOSED GRID

EC2 BRZ B

Product description

Self-supporting panels installed on a visible framing made of extruded aluminium hollow joint profiles. The frames are perpendicular to the facades according to the layout plan. The panels are made of 5 to 8/10th thick steel sheet, perforated or not, with a wide choice of colours.

The panels, with sharp, abutting edges, have crutch folds at each end to allow the trays to rest on the hollow joint profile and guarantee that the spacing of the framing is maintained.

The panels surface is the same as the supporting profiles.

Use

Rastered office tops, open-spaces, meeting rooms, computer rooms, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

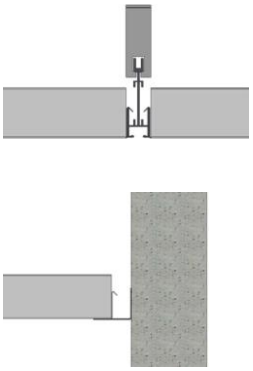
Stopped 4 sides

Bespoke perforation ? Consult us !

Options

Special cut-outs for lighting and HVAC equipment on request
Cooling ceiling
Heavy panels (L)

Installation method



Installation in accordance with DTU 58.1

Frames:

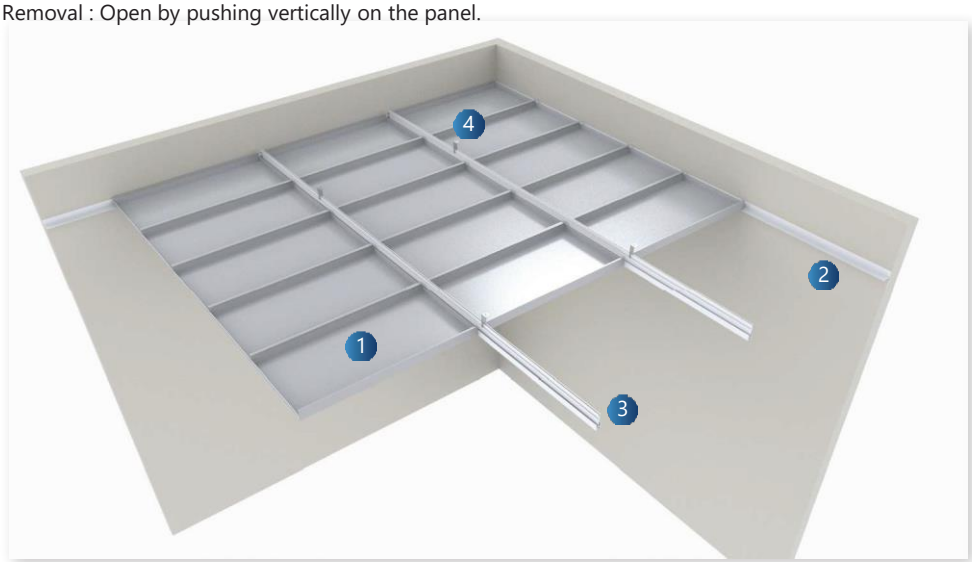
Panels s installed on extruded aluminium hollow joint profiles (PREC B)

Hanging positioned at 1200 mm centres, starting 300 mm from the wall.

Joining clips between B profiles for perfect framing alignment.

Edges : Panels installed on single angle or hollow joint.

Removal : Open by pushing vertically on the panel.



1 EC2 BRZ B Panel
2 REC L Edge corner
3 PREC B Hollow joint profil
4 SUSP T Profile hanger

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

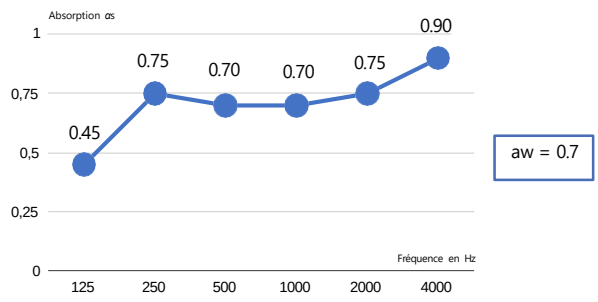
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

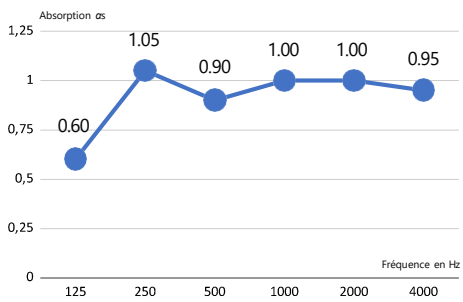
ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

EC2 J

Product description

The EC2 J, or more commonly known as the Hook-On panel, is a self-supporting panel overlapped with an invisible J-type supporting framing. The frames are perpendicular to the facades according to the layout plan. The panels are made of 5 to 8/10th thick steel sheet, perforated or not, with a wide choice of colours. The panels, with sharp, abutting edges, have two separate folds on either side of the panel, so that they can be positioned one on top of the other on the J-shaped support profile.

Each panel can be dismantled by lifting and simultaneously handling the neighbouring panel.

Access to the plenum for maintenance is simplified and the ceiling retains a monolithic appearance.

Use

Rastered office tops, open-spaces, meeting rooms, computer rooms, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

Bespoke perforation ? Consult us !

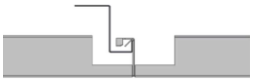
Options

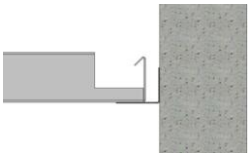
Special cut-outs for lighting and HVAC equipment on request

Cooling ceiling

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

Frames : Panels installed under invisible Profile J PREV J type framework.
Hanger at 1200 mm center distance with start 300 mm from the wall.
The supporting profiles J are fixed perpendicularly under a commercial primary framework.

Edge : Installation of bins on simple edge angle.

Removal : Opening the EC2 J panel : Vertical thrust then lateral movement to escape the snapping profile.

1 EC2 J Panel

2 REC L Edge corner

3- PREC J J Supporting profile

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

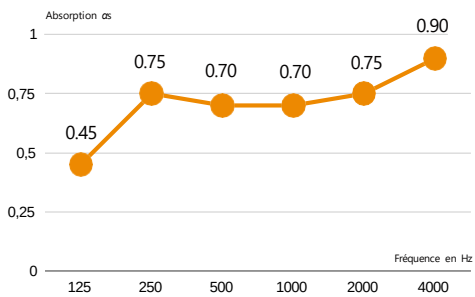
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

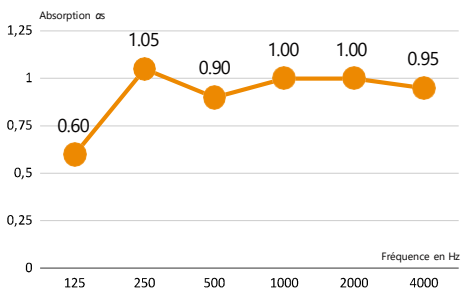
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

PANEL ON CONCEALED GRID

EC2 JC

Product description

The EC2 JC is a panel made up of two exterior longitudinal folds allowing implementation by mechanical fixing at the bottom of a hollow joint under a primary framework.

The panels are installed edge to edge or not on the short side and overlapping on the long side so as to obtain a hollow joint.

Non-removable, these bins ensure robustness of use and a flowing appearance on your ceiling.

Use

Reception hall, circulation, courtyard...

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

90°
Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :


11% Ø 1.5 M

On request:


2% Ø 0.8 U


22% Ø 1.5 M


16% Ø 2.5 U


Non perforated


Bending in perforation


Stopped 4 sides

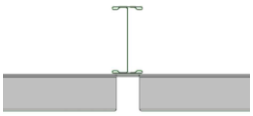
Bespoke perforation ? Consult us !

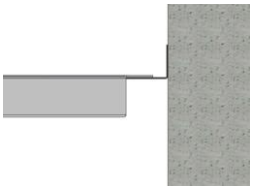
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request





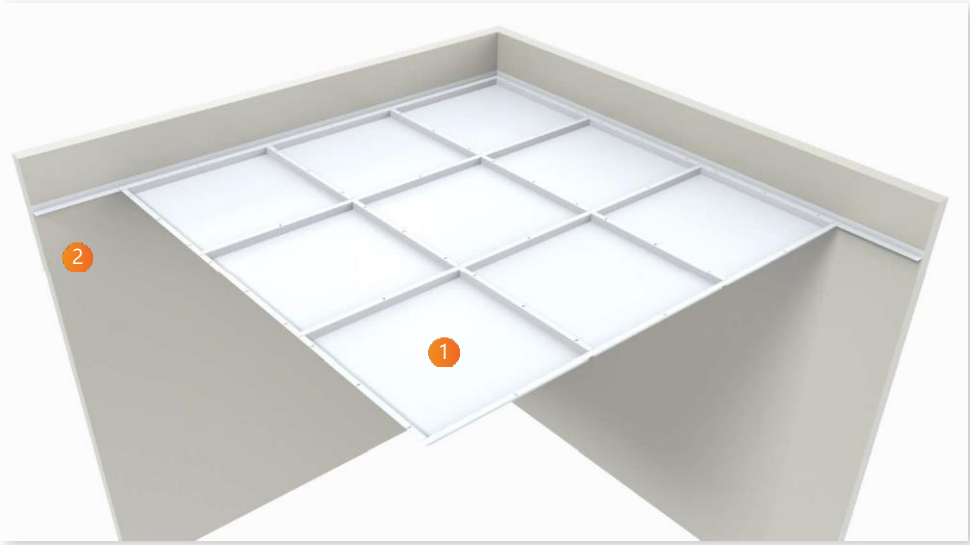
Installation in accordance with DTU 58.1

Frames : Panels installed on the underside of a commercial primary framing. The panels are mechanically fixed at the bottom of the hollow joint at a maximum spacing of 1200 mm in the supporting framing.

The primary framing is suspended at 1200 mm centres, starting 300 mm from the wall. Primary rail spacing up to 1200 mm.

Edges : The panels are installed on a single edge angle or in a hollow joint.

Removal : The panels are mechanically fixed. It is necessary to unscrew the panels



1 EC2 JC Panel

2 REC L Edge corner

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

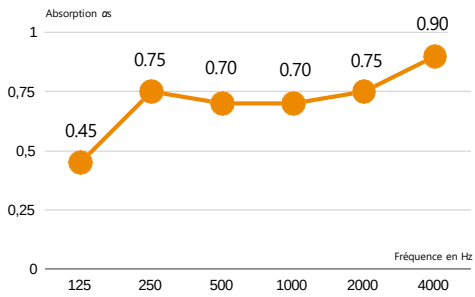
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

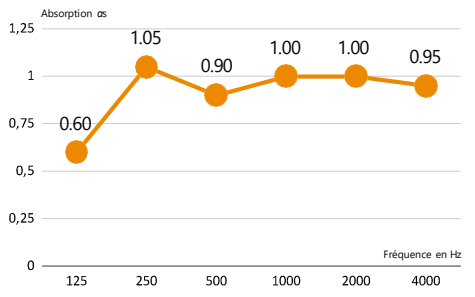
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

PANEL ON CONCEALED GRID

EC4 H

Product description

The EC4H is a self-supporting sheet installed under an invisible supporting framing of type H profiles. The frames are perpendicular to the facades according to the layout plan. The panels are made of 5 to 8/10th thick steel sheet, perforated or not, with a wide choice of colours.

The panels, with sharp, abutting edges, have notches to accommodate the H profile. Each panel can be dismantled independently of the others by simply stripping them.

Access to the plenum for maintenance is simplified and the ceiling retains a monolithic appearance.

Use

Rastered office tops, open-spaces, meeting rooms, computer rooms, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm
Other width on request
Length within the limit of self-supporting
(675 x 1800 mm maximum)

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

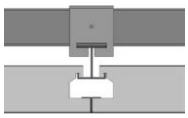
Bespoke perforation ? Consult us !

Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request



Installation in accordance with DTU 58.1

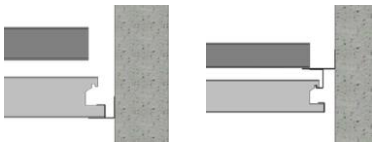
Frames : Panels mounted on an invisible PREC H profile frame, using a notch system at the end of the panel. The H-profiles are suspended under a perpendicular PREC PU primary framing to ensure the system's stability.

Hanging positioned at 1200 mm centres, starting 300 mm from the wall.

Edges : The panels are fitted to the perimeter edge angles.

The panels can be finished with a shadow gap by fitting them under a half-H profile fixed under an adjustable bracket.

Removal : Opening the EC4H panel : Push vertically then move sideways.



Corner edge | Hollow joint edge

1 EC4 H Panel
2 REC L Edge corner
3 PREC H Extruded H profile
4 SUSP H H profile hanger
5 RACC H H profile connector
6 PREC PU Primary profile
7 SUSP PU Primary profile hanger
8 RACC PU Primary profile connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

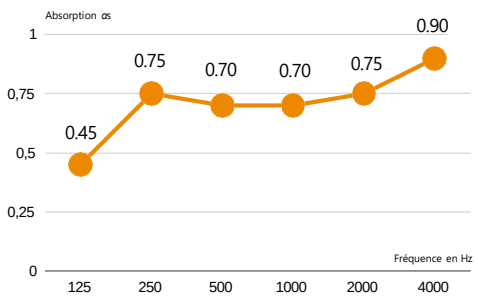
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

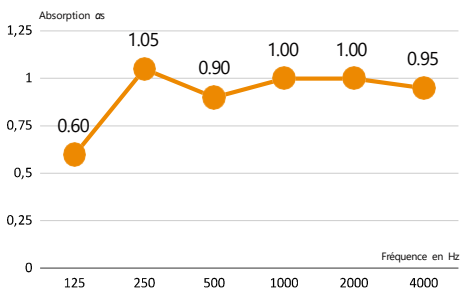
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC31

Product description

The EC31 is a self-supporting, flush-edged panel that can be tilted by simply uncovering it. It hinges on a pivot profile that leaves a minimum 20 mm gap on either side of the panel, allowing it to absorb slight differences in traffic width.

The EC31 panel provides full and easy access to the ceiling plenum without taking up any framing space.

Any geometry can be envisaged to adapt to the shape of the building, as well as any type of technical equipment recess.

Use

Circulation ceilings for buildings such as hospitals, office buildings, shopping malls, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 mm (Other width on request)

Length : 500 mm min – 2500 mm max

Height : 35 mm

Self supporting : 2500 x 600 mm max

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

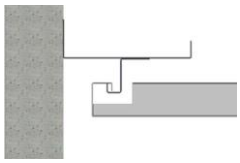
Bespoke perforation ? Consult us !

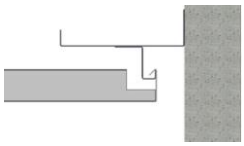
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

In hallways : Panels installed on standard ECHAME PREC J hanging profiles. To be bolted under the adjustment bracket fixed to the wall every 600 mm.

The panels are installed with a minimum 20 mm hollow joint on each side.

removal : Opening the EC31 panel: Push vertically on the kickplate side then move sideways to escape the hanging profile.

The panel remains suspended on the edge pivot profile.

The panel is closed by reversing the movement.

1 EC31 Panels

2 PREC PLR bracket profile

3 J PREC J Hanging profile

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

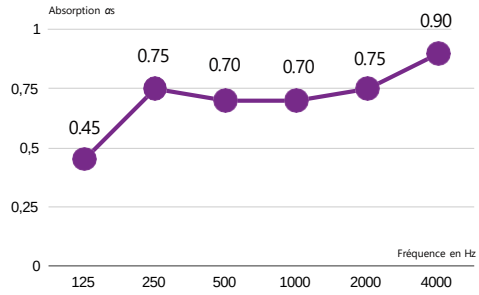
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Acoustics

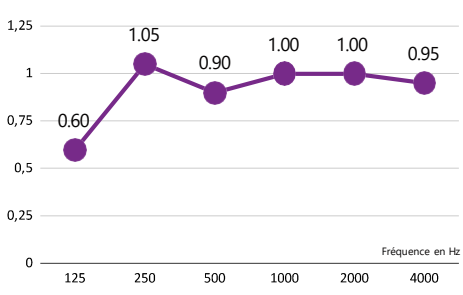
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC3

Product description

The EC3 is a single-sided tilting panel that pivots on the pivot edge profile and remains suspended in the open position. It leaves the plenum completely free to access This facilitates access to the technical networks and allows easy maintenance.

Special panels can be used to adapt to the shape of corridors, to accommodate direction changes. Lighting fittings or lighting strips can be integrated into the edge profiles.

The EC3 panel can also be used in office ceilings, where it can be installed in a shadow gap, using specific double hook profiles depending on the desired shadow gap.

Use

Circulation ceilings for buildings such as hospitals, office buildings, shopping malls, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 mm (Other width on request)

Length : 500 mm min – 2500 mm max

Height : 35 mm

Self supporting : 2500 x 600 mm max

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

Bespoke perforation ? Consult us !

Options

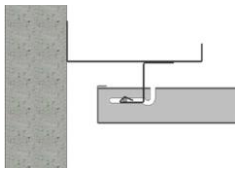
Special cut-outs for lighting and HVAC equipment on request

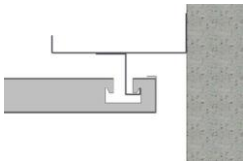
Fire stability ceiling (SF)

End of grid panel with the addition of an internal reinforcing crossbar

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

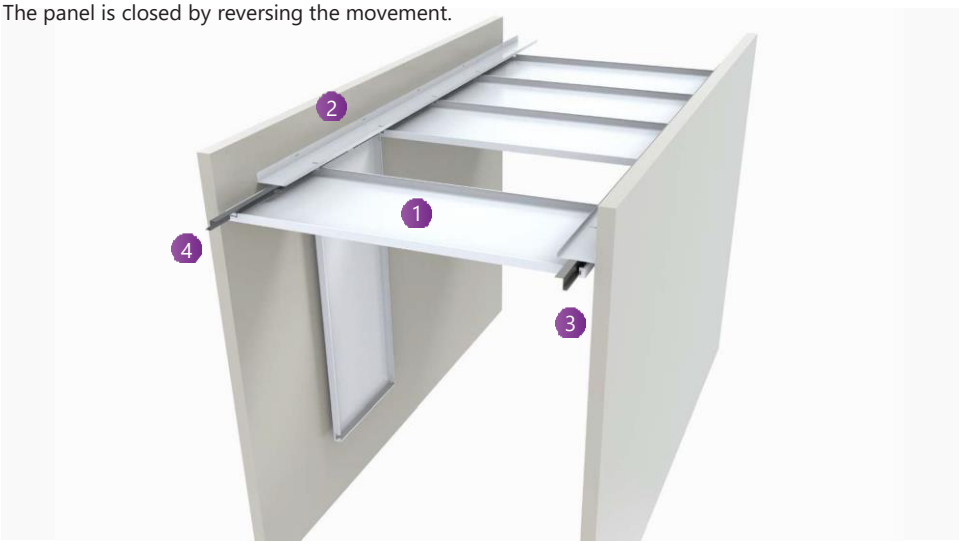
In hallways: Panels installed on a specific EC3 ACCRO / PIVOT framing. To be bolted under the adjustment bracket fixed to the wall every 600 mm. The panels are installed with a minimum 25 mm hollow joint on each side.

The adjustment brackets are suspended from the concrete slab at their ends by a threaded rod with a 1200 mm pitch.

removal : Opening the EC3 panel: Push vertically on the kickplate side then move sideways to escape the hanging profile.

The panel remains suspended on the edge pivot profile.

The panel is closed by reversing the movement.



1 EC3 Panel
2 PREC PLR Bracket profile
3 PREC J Hook profile J
4 PREC PIV300 Pivot profile

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

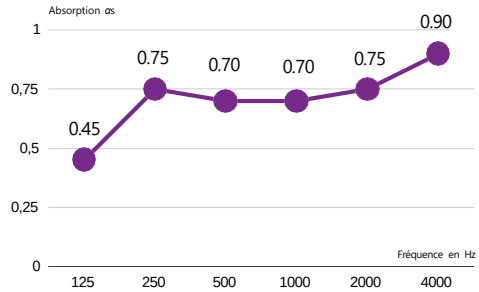
No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Acoustics

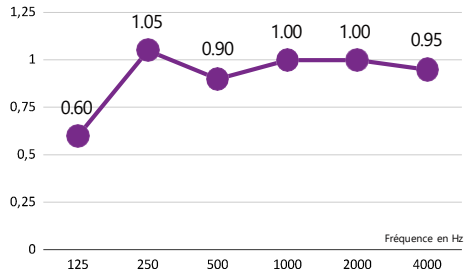
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

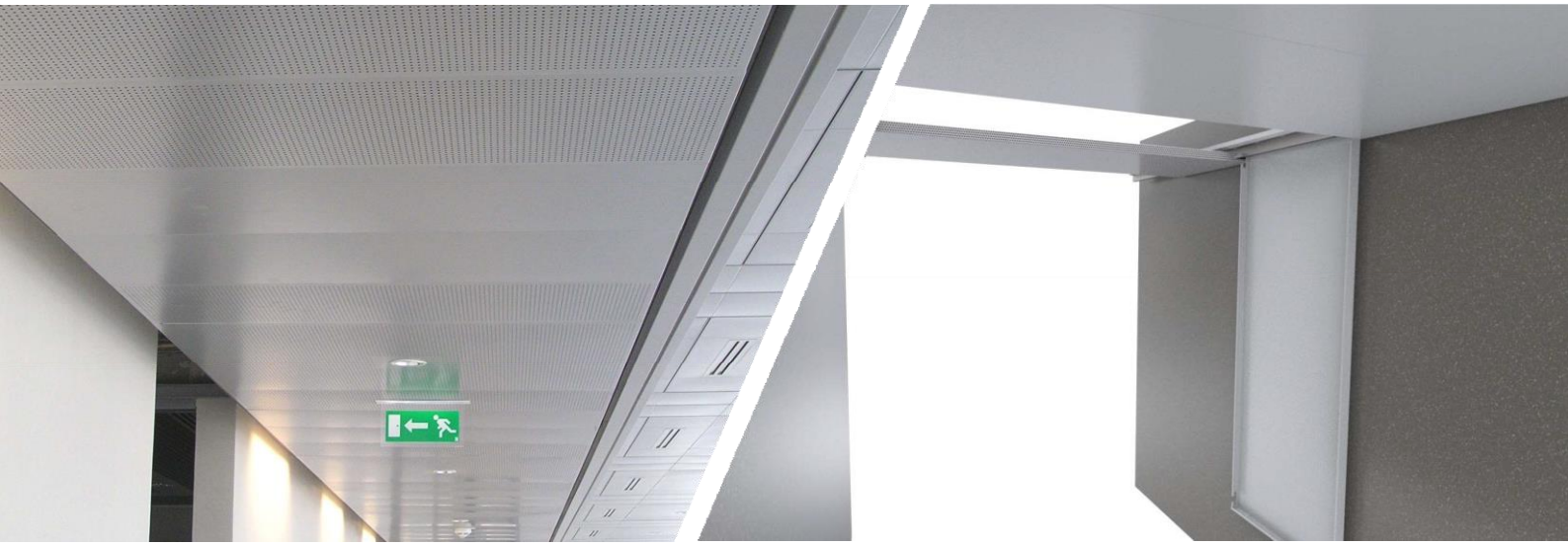
Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

EC30



Product description

The EC30 is a tilting panel that can be opened from either side. It can remain suspended in the open position on either of the hanging profiles. It leaves the plenum completely free to access This facilitates access to the technical networks and allows easy maintenance.

Special panels can be used to adapt to the shape of corridors, to accommodate direction changes or to manage the frames ends. Lighting fittings or lighting strips can be integrated into the edge profiles.

The EC30 panel can also be used in office ceilings, with a hollow joint installation, removable by means of double hung profiles.

Use

Circulation ceilings for buildings such as hospitals, office buildings, shopping malls, etc.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 mm (Other width on request)

Length : 500 mm min – 2500 mm max

Height : 35 mm

Self supporting : 2500 x 600 mm max

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

Stopped 4 sides

Bespoke perforation ? Consult us !

Options

Special cut-outs for lighting and HVAC equipment on request

Fire stability ceiling (SF)

End of grid panel with the addition of an internal reinforcing crossbar

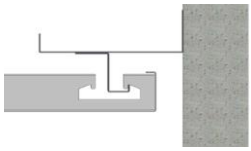
Installation method

All special profiles available on request

Installation in accordance with DTU 58.1

In hallways : Panels installed under standard PREC J hanging profile. To be bolted to an adjustment bracket fixed to the wall every 600 mm. The panels are installed with a minimum 12 mm hollow joint on each side.

The adjustment brackets are suspended from the concrete slab at their ends by a threaded rod with a 1200 mm pitch.



As frame : Panels installed under ECHAME double hooking profiles, allowing the panel to be removed by stripping and tilting. There is a 12 mm functional hollow joint between the trays. Each panel can be dismantled independently of the others.
Removal : Opening the EC30 panel : Push vertically, then move sideways to escape the hanging profile.
The panel remains suspended on the edge pivot profile.
The panel is closed by reversing the movement.

1 EC30 Panel
2 PREC PLR Bracket profile
3 PREC J Hook profile J

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

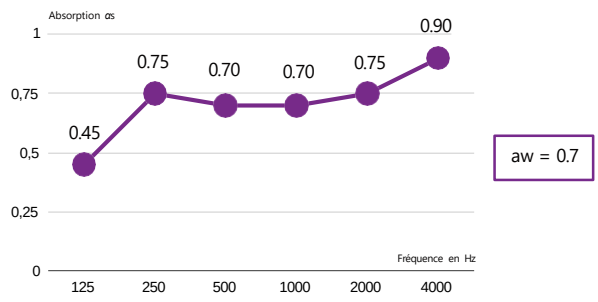
No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Acoustics

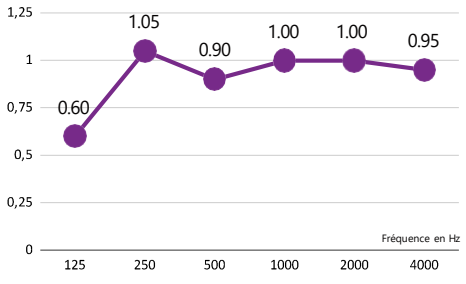
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

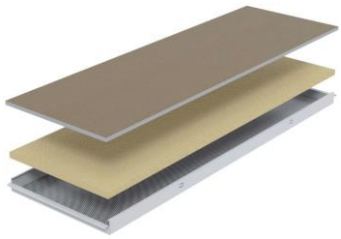
EC2 L

Product description

The heavy-duty panel is a solution for office floors and large partitioned areas. EC2 L panels are self-supporting and rest on a visible C-rail framing.

The panels are made up of an acoustic complex combining absorption (mineral wool) and insulation (plasterboard). These ceiling solutions prevent the transmission of noise between adjacent rooms.

The panels, with sharp, abutting edges, have Z-shaped folds at each end to rest on the load-bearing profiles. A safety fold is provided at the end to ensure that the panels are held securely on the framing. The panels surface is the same as the supporting profiles. The complex can be cut to fit technical equipment at the factory.



Use

Office floors, meeting rooms requiring lateral insulation.

Materials

Galvanized steel 5/10 to 8/10.
Depending on the width of the panels

Other materials on request

Dimensions

Standard width 300 / 600 / 675 mm

Other width on request

Length within the limit of self-supporting
(675 x 1800 mm maximum)

90°
Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :


11% Ø 1.5 M

On request:


2% Ø 0.8 U


22% Ø 1.5 M


16% Ø 2.5 U


Non perforated


Bending in perforation


Longitudinal perforation


Stopped 4 sides

Bespoke perforation ? Consult us !

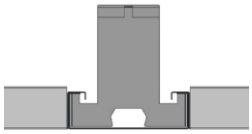
Options

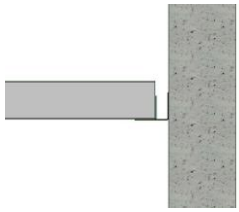
Special cut-outs for lighting and HVAC equipment on request

Cooling ceiling

Installation method

All special profiles available on request





Installation in accordance with DTU 58.1

Frames:

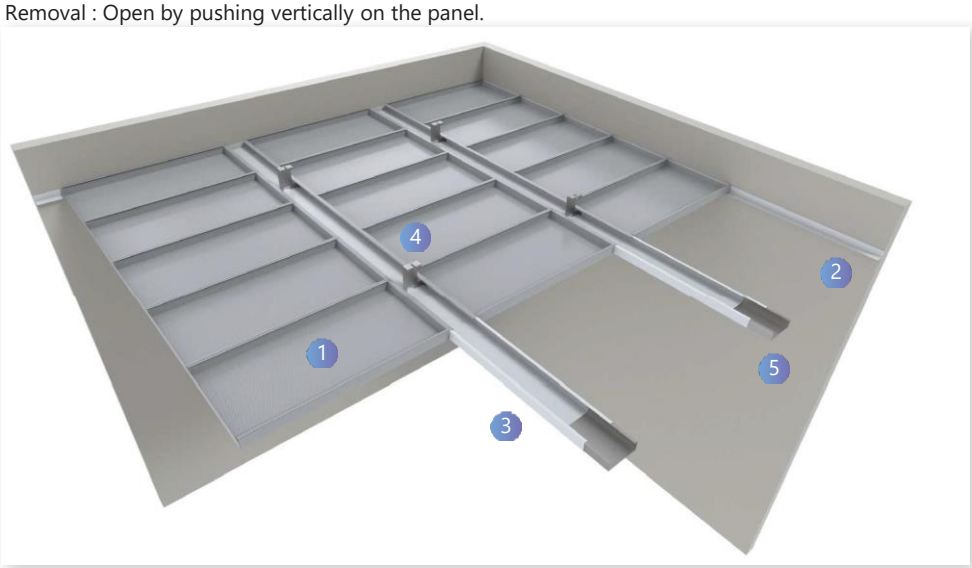
Panels laid on C rails (various widths, with or without shadow gap)

Hanging positioned at 1200 mm centres, starting 300 mm from the wall.

Joining clips between C rails for perfect framing alignment.

Edges : Panels installed on single angle or hollow joint.

Removal : Open by pushing vertically on the panel.



1 EC2 BRZ Panel
2 REC L Edge corner
3 PREC C C-bandraster
4 SUSP C C-bandraster hanger
5 C RACC C C Bandraster connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

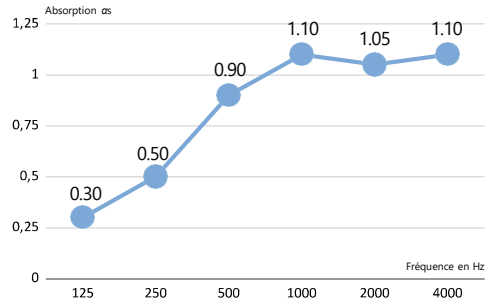
Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

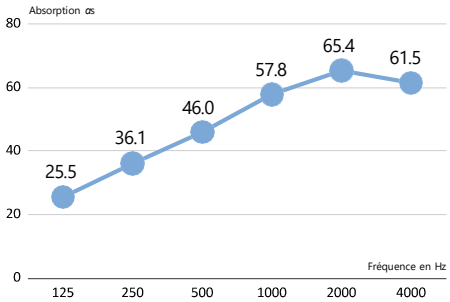
Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + Rockwool 30 mm + plasterboard 13 mm



aw = 0,8 (H)



Dnfw = 46 dB (-3 ;-10)

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC2 SF

Product description

EC2 SF is a self-supporting panels installed on edge angles.
Designed for installation in the building corridors subject to fire stability requirements, it is simple to install and easy to dismantle to allow access to the plenum.

Use

Circulation ceilings for high-rise buildings subject to fire stability regulations.
In France, the decree of 22 March 2004 relating to the fire resistance of products, construction elements and works, requires a minimum stability of 15 min for circulation ceilings in high-rise buildings.

Materials

Galvanized steel 7/10 thickness.

Dimensions

Width : 300 mm (SF 30) / 600 mm (SF 15)
Length on request: 500 mm minimum
/ 2345 mm maximum)
Height : 35 mm

Sharp corner / Longitudinal rod

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 **9005**

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

Non perforated

Bending in perforation

Longitudinal perforation

Non-standard perforation not available for the fire stability report.

Options

The ceiling and its framing must not support any load other than their own weight.

Miscellaneous equipment not included in the test assembly (lighting, ventilation, sound system, signs, etc.) may be hung from the main structure. may be attached to the main or secondary structure of the building using hangers. These can pass through the panel with a minimum of clearance. This secondary structure must then be hot-checked, by test or calculation in accordance with current standards.

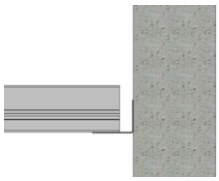
Installation method

All special profiles available on request

The installation method must follow the recommendations in the CSTB test report (available on request):

The edge profiles are 35 x 30 mm angles. The 35 mm flange is fixed to the concrete walls with metal expansion dowel. These fixings are arranged at a maximum pitch of 600 mm. These profiles are thus arranged around the entire perimeter of the ceiling.

The panels sit on the edge angles with a minimum overlap of 20 mm and a minimum gap of 10 mm at each end. There is no clearance at the corridor ends, where the last panels sit on three sides of the edge profiles.



1 EC2 SF Panel

2 REC L SF Edge corner

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Fire restistance (according to NF EN 13501-2 : 2016-07)

- EC2 SF 600 mm : R 15 min (PV CSTB n°RS21-022/B)
- EC2 SF 300 mm : R 30 min (PV CSTB n°RS21-022/B)

Acoustics

Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

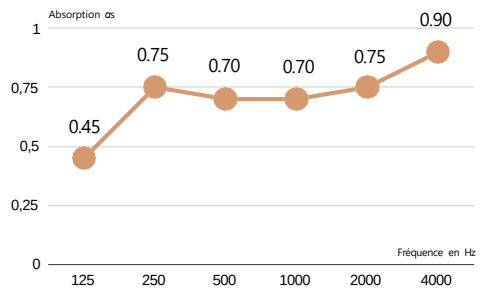
Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

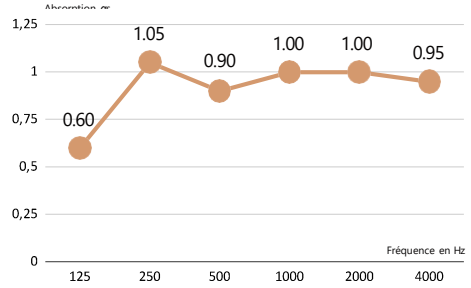
ESDS sheet available on the INIES website (www.inies.fr)

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

EC3 SF

Product description

The EC3 SF is a tilting opening panel that pivots on the perimeter profile and remains suspended in the open position. It leaves the plenum completely free to access This facilitates access to the technical networks and allows easy maintenance.
Designed for installation in the building corridors subject to fire stability requirements, it is simple to install and easy to dismantle to allow access to the plenum.

Use

Circulation ceilings for high-rise buildings subject to fire stability regulations.
In France, the decree of 22 March 2004 relating to the fire resistance of products, construction elements and works, requires a minimum stability of 15 min for circulation ceilings in high-rise buildings.

Materials

Galvanized steel 7/10 thickness.

Dimensions

Width : Up to 600 mm (SF R30)
Length on request : 500 mm minimum / 2345 mm maximum)
Height : 35 mm

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 | 9016 | 9010 | 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

Non perforated

Bending in perforation

Longitudinal perforation

Non-standard perforation not available for the fire stability report.

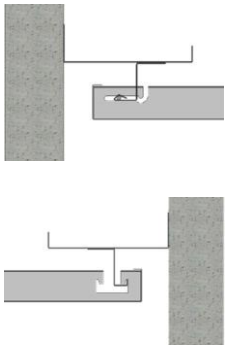
Options

The ceiling and its framing must not support any load other than their own weight.

Miscellaneous equipment not included in the test assembly (lighting, ventilation, sound system, signs, etc.) may be hung from the main structure. may be attached to the main or secondary structure of the building using hangers. These can pass through the panel with a minimum of clearance. This secondary structure must then be hot-checked, by test or calculation in accordance with current standards.

Installation method

All special profiles available on request



The installation method must follow the recommendations in the CSTB test report (available on request):

Panels installed under ACCRO and PIVOT J-sections specific to EC3.
These J-sections are bolted to a 40x133 mm adjustment bracket fixed to the wall with metal wall plugs every 600 mm and suspended from the ceiling by an M6 threaded rod at 1000 mm centres.

The panels are installed with a minimum 25 mm hollow joint on each side.

Removal : Opening the EC3 panels : Push vertically, then move sideways to escape the hanging profile.
The panel pivots and remains attached to the edge pivot profile.
The panel is closed by reversing the movement.

1 EC3 Panel
2 PREC PLR Bracket profile
3 PREC J Hook profile J
4 PREC PIV300 Pivot profile

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

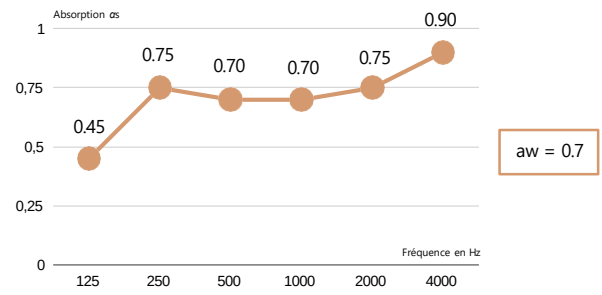
Fire resistance (According to NF EN 13501-2 : 2016-07)

- EC3 SF : R 30 min (PV CSTB n°RS21-022/C)

Acoustics

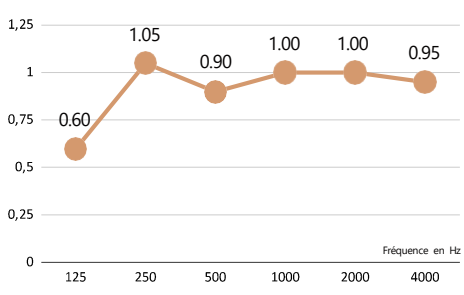
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

EC30 SF

Product description

The EC30 SF is a tilting opening panel that pivots on the perimeter profile in two sides and remains suspended in the open position. It leaves the plenum completely free to access This facilitates access to the technical networks and allows easy maintenance.
Designed for installation in the building corridors subject to fire stability requirements, it is simple to install and easy to dismantle to allow access to the plenum.

Use

Circulation ceilings for high-rise buildings subject to fire stability regulations.
In France, the decree of 22 March 2004 relating to the fire resistance of products, construction elements and works, requires a minimum stability of 15 min for circulation ceilings in high-rise buildings.

Materials

Galvanized steel 7/10 thickness.

Dimensions

Width : Up to 600 mm (SF R30)
Length on request : 500 mm minimum / 2345 mm maximum)
Height : 35 mm

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 **9005**

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

Non perforated

Bending in perforation

Longitudinal perforation

Non-standard perforation not available for the fire stability report.

Options

The ceiling and its framing must not support any load other than their own weight.

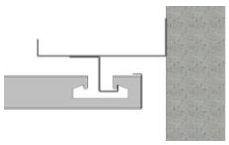
Miscellaneous equipment not included in the test assembly (lighting, ventilation, sound system, signs, etc.) may be hung from the main structure. may be attached to the main or secondary structure of the building using hangers. These can pass through the panel with a minimum of clearance. This secondary structure must then be hot-checked, by test or calculation in accordance with current standards.

Installation method

All special profiles available on request

The installation method must follow the recommendations in the CSTB test report (available on request):

Panels installed under PREC J profiles-sections specific to EC30.
These J-sections are bolted to a 40x133 mm adjustment bracket fixed to the wall with metal wall plugs every 600 mm and suspended from the ceiling by an M6 threaded rod at 1000 mm centres.



The panels are installed with a minimum 12 mm hollow joint on each side.

Removal : Opening the EC30 panels : Push vertically, then move sideways to escape the hanging profile.
The panel pivots and remains attached to the edge pivot profile.
The panel is closed by reversing the movement.

1 EC30 Panel
2 PREC PLR Bracket profile
3 PREC J Hook profile J

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

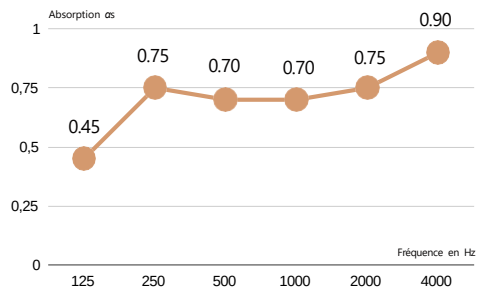
Fire resistance (According to NF EN 13501-2 : 2016-07)

- EC30 SF : R 30 min (PV CSTB n°RS17-063)

Acoustics

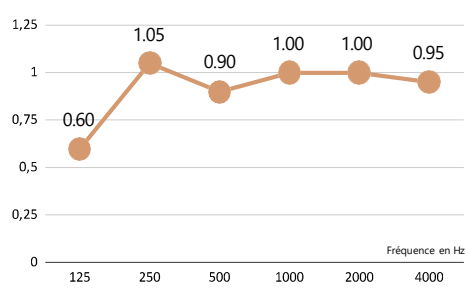
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

CE marking (according to EN 13964)

LONG SPAN PANEL

EC2 CLIP

Product description

The self-supporting EC2 CLIP panel is designed for indoor or outdoor use, with a clip system that allows large panels to be installed. The jointed, sharp-edged panels can be dismantled, with a longitudinal seam on one side and a crushed fold on the other.

They are hooked under load-bearing profiles notched to the width of the panels.

Use

Halls, outdoor walkways, courtyards, etc.

Materials

Galvanized steel 6/10 or 7/10 thickness.

Dimensions

Width : 300 mm

Length up to 6000 mm, under carrier profile at a distance of 1200 mm for indoor use.

Sharp corner

Straight raised ends for end-to-end installation

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Longitudinal perforation

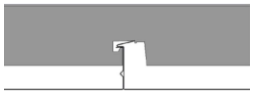
Bespoke perforation ? Consult us !

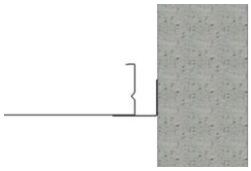
Options

Special cut-outs for lighting and HVAC equipment on request

Installation method

All special profiles available on request



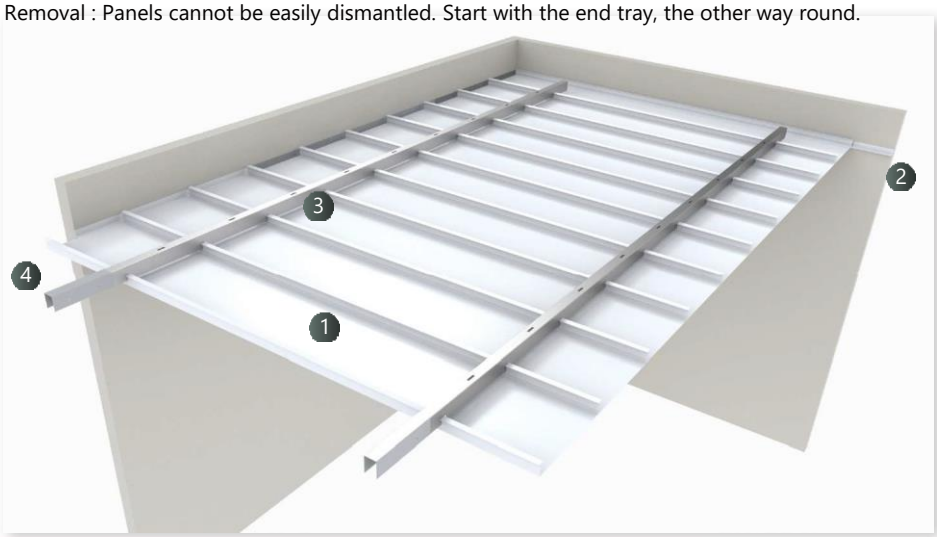


Installation in accordance with DTU 58.1

Frames : Panels clipped to overlap invisible PREC CLIP notched framing.
Hanging positioned at 1200 mm centres, starting 300 mm from the wall. Distance between rails up to 1200 mm indoors (900 mm maximum recommended outdoors).
In the case of a wide installation with several panels installed end to end, provide a straight upturned end across the width to ensure that the panels are perfectly flush.

Edges : The panels are installed on REC L corner profiles or REC U runners for better support
The panel is clipped to the bottom of the angle on one side and then translated to overlap the opposite angle.

Removal : Panels cannot be easily dismantled. Start with the end tray, the other way round.



1 EC2 CLIP Panel
2 REC L Edge corner
3 PREC CLIP Clip carrier profile
4 RACC CLIP Clip carrier profile connector

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

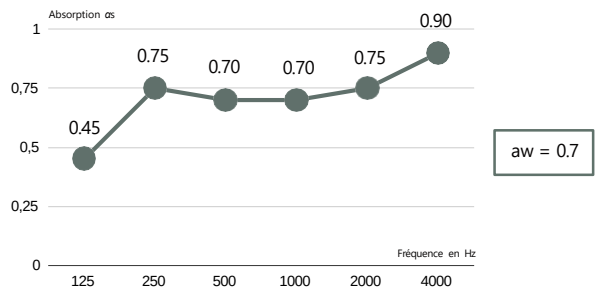
No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Acoustics

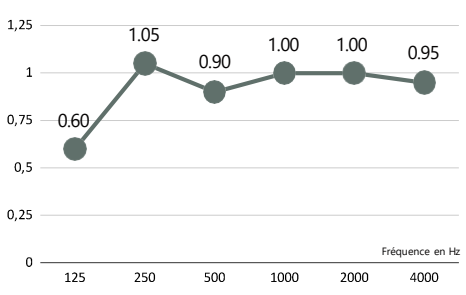
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

FREE HANGING PANEL

ÎLOT C

Product description

ILOTS C are standard panels that can be suspended on ropes to create floating units that allow you to adapt the volumes of the treated premises. Different altitudes, inclinations, combinations of formats... this type of solution allows great architectural freedom.

These acoustic islands are easy to install and particularly suitable when it is not possible to install a wall-to-wall ceiling.

Use

Reception halls, office floors, high-rise premises, etc.

Materials

Galvanized steel 7/10.

Other materials on request

Dimensions

Standard : 600 x 600 mm / 600 x 1200 mm / 1200 x 1200 mm

Height : 50 mm

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 9016 9010 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Stopped 4 sides

Bespoke perforation ? Consult us !

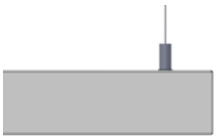
Options

Special cut-outs for lighting and HVAC equipment on request

Activation for cooling ceiling

Installation method

All special profiles available on request



Installation in accordance with DTU 58.1

Installation : C Islands are suspended individually by 4 adjustable cables.
The adjustable stainless-steel cables are doweled into the ceiling and fixed to the panel using an M6 threaded end cap.

The threaded end allows the cable to slide and the height of the panel to be adjusted simply by pressing.

Removal : The panels can be dismantled by unscrewing the threaded end caps or by sliding the cables through the end caps until they exit.

1 Ilot C Island

2 Adjustable stainless-steel cables

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

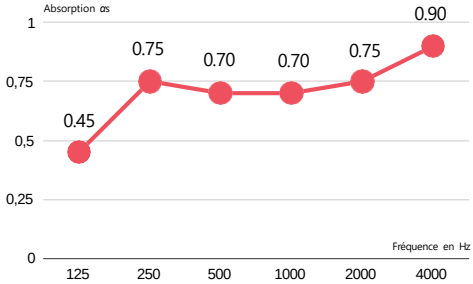
No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Acoustics

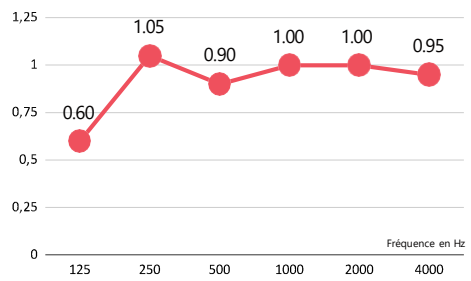
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



aw = 1

CE marking (according to EN 13964)

ÎLOT J

Product description

J Islands are used to maintain the unfinished appearance of rooms while treating acoustics and allowing good air circulation in ceilings and plenums.
The J Island is made up of a large tray or an assembly of panels installed edge to edge and supported by a primary load-bearing structure such as a J profile.
The system can support large panels and can also be used to assemble several elements to achieve non-standard lengths.
The J Island has the ability to tilt over the supporting profile to allow access to the technical equipment located above.

Use

Reception halls, office floors, high-rise premises, etc.

Materials

Galvanized steel 7/10.

Aluminium on request
Stainless steel on request

Dimensions

Width : Up to 1200 mm

Length on request : 500 mm minimum / 2500 mm maximum by panel

Height : 50 mm

Sharp corner

Colors

- Pre-painted White 137 (~ RAL 9003)
- Post-painted, Polyseter powder coating RAL :

9003 | 9016 | 9010 | 9005

- Any other RAL colour on request

Light reflection

CSTB report EMI 18-26077242-1 :
Up to 88%, post painted RAL 9016
Summary in the colors section of the catalogue

Perforations

Standard :

11% Ø 1.5 M

On request:

2% Ø 0.8 U

22% Ø 1.5 M

16% Ø 2.5 U

Non perforated

Bending in perforation

Stopped 4 sides

Bespoke perforation ? Consult us !

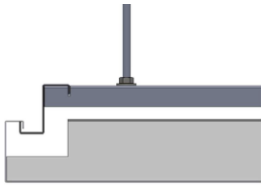
Options

Special cut-outs for lighting and HVAC equipment on request

Activation for cooling ceiling

Installation method

All special profiles available on request

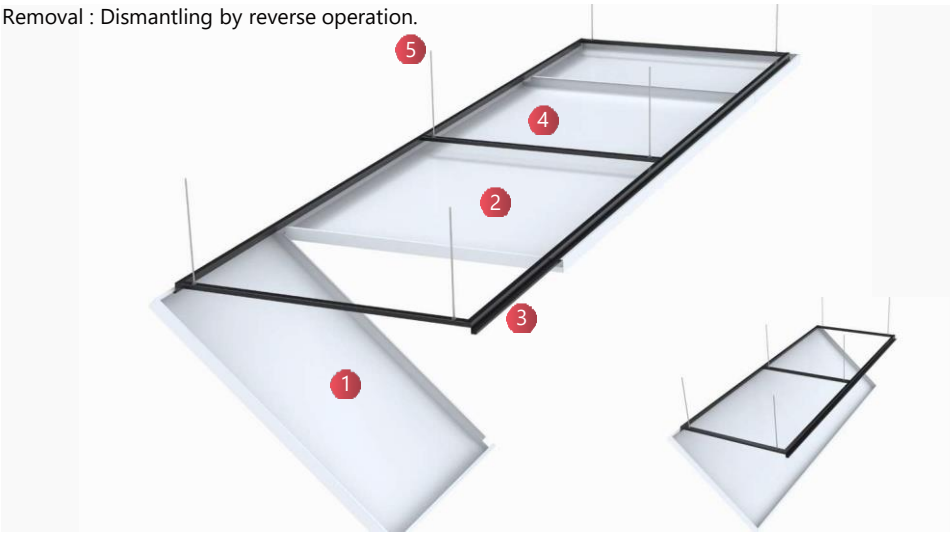


Installation in accordance with DTU 58.1

Installation : The primary structure is made up of an assembly of J sections fixed to the ends of U-shaped supports, all suspended from the ceiling by M8 diameter threaded rods.
This frame holds the panels in place along the entire length of the island.

In the case of an island made up of several panels, the two end panels are closed at the ends, while the intermediate panels have notches through which the J profiles can pass.
Each panel is installed independently by hooking the first side under the J profile, then shifting the panel and hooking the second side over the opposite J profile.

Removal : Dismantling by reverse operation.



1 Ilot J End panel
2 Ilot J Intermediate panel
3 J Profile
4 U Primary hanger profile
5 M8 Threaded shaft

Fire

Reaction to fire (according to EN 13501-1)

Euroclass A1 for the following products:

- non-perforated pre-painted panel
- pre-painted panel with non-woven fleece or surfaced rock wool lining

Euroclass A2-s1,d0 for products:

- Post-lacquered panels with or without lining

Cleaning

Metal ceilings are resistant and easy to clean.
For dust : Dry clean with a soft cloth or hoover with a soft bristle brush.
For stains : Clean with a damp cloth soaked in a non-abrasive cleaner diluted in water.
For persistent, greasy stains, diluted alcoholic solutions can be used.

Environment

100% recyclable ceiling, odourless, easy to maintain and does not generate dust, particles, or vapour.

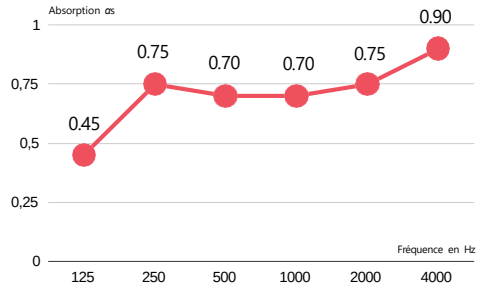
No VOC or formaldehyde emissions.
(Classification A for LR30)

ESDS sheet available on the INIES website (www.inies.fr)

Acoustics

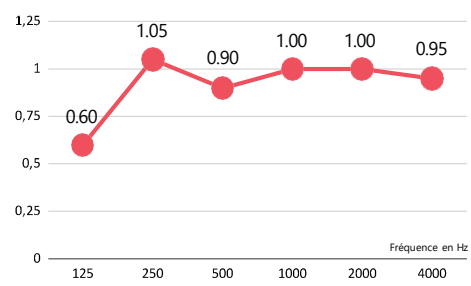
Sound absorption measured in accordance with NF EN ISO 354. Acoustic certificates available on request.

Perforation 11% + black non-woven



aw = 0.7

Perforation 11% + Rockwool 30 mm



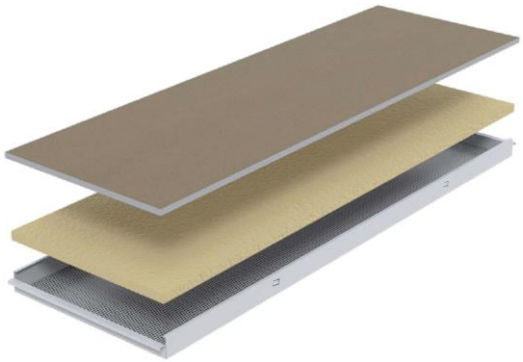
aw = 1

CE marking (according to EN 13964)

Options

ECHAME's standard products range can be enhanced with a number of options to adapt them to the requirements of your site.

If you have any specific requirements, please do not hesitate to contact our sales department, who will be able to provide you with appropriate solutions.

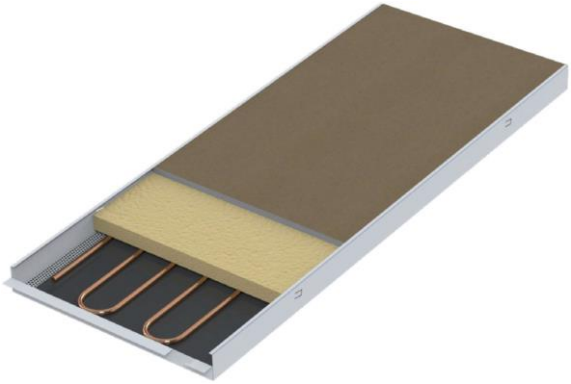


Heavy panels

This solution can be adapted to our EC2, EC3, EC31... The heavy-duty panel solution can be used for lateral insulation between adjoining partitioned rooms under a sloping ceiling.

Lateral insulation performance of up to 49 dB with a complex composed of 30 mm rock wool and 13 mm plasterboard.

Our heavy panels are marked L.



Activated panels

Fitted with copper tube activation systems bonded to the inside of the metal panel, our products are used to heat or cool offices.

Whether in heating or cooling mode, our ceilings contribute to user comfort

Special cut-outs for lighting and HVAC

We can handle your factory requirements for light fittings, HVAC grilles or other technical accessories.

- Round cut-outs
- Rectangular cut-outs
- Rectangular flanged cut-outs

FAST hook-on

This solution can be fitted to our EC2 BRZ type C-rail tiles.
The FAST notch allows access to the plenum for maintenance operations while leaving the ceiling panels suspended on its framing.

End of grid panel

Panel with the addition of an internal reinforcing crossbar to hide the notch for fixing the perimeter panels and finish the ceiling frames on invisible framing with a full-edge tray.
This solution guarantees a perfect shadow joint.

Long overlapping edge (BJR)

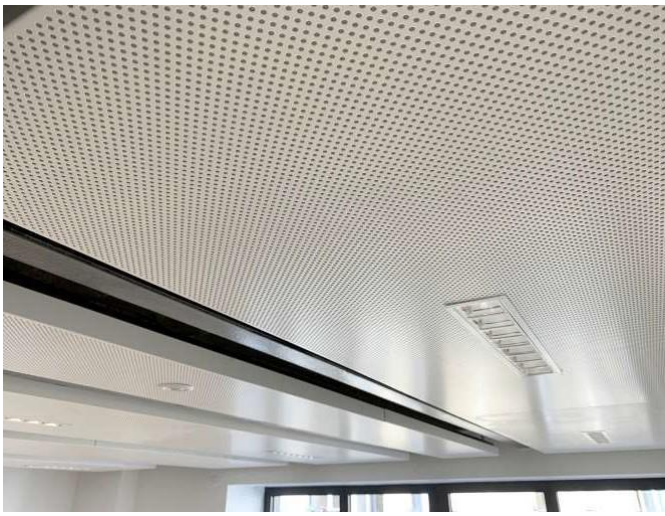
Self-supporting type EC2 tile with a long edge with the fold facing outwards. This option provides a complete overlap between tiles laid edge to edge, which is useful when you want to prevent light from passing between panels.

Finishings

Type of perforation, material, colour - metal offers a wide range of possibilities and combinations to give free rein to your imagination

Thanks to our extensive stock of materials, we can offer you standard perforations and colours with short lead times.

We can also meet a wide range of specific colour and perforation requirements. Contact our sales department to discuss the feasibility of your metal ceilings, partitions, and cladding.



Perforations

Perforations are made on coils or sheets before folding. They contribute to the acoustic and aesthetic properties of a tile.

Perforations can vary in size, shape, layout and spacing.

Together, these elements determine the percentage of empty space compared with an unperforated sheet.

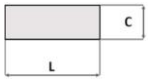
The coding of the type of perforation works as follows :

A letter designating the shape followed by a number indicating its dimension

R > round hole

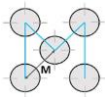
C > square hole

LR > oblong hole

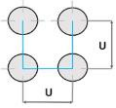


LC > rectangular hole

A letter designating the shape followed by a number indicating its dimension

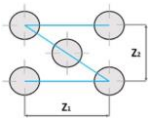


M > 90° staggered



U > aligned square

T > 60° staggered



Z > alternating (Z_1 x Z_2)

The open area percentage follows or precedes these different terms
Example: R1.5 M5.65 11%

- It is necessary to specify the orientation of certain shapes or arrangements by means of a drawing. Examples: the rhombuses formed by the T layout, the orientation of the holes in oblong shapes (vertical, horizontal, diagonal, aligned, crossed, herringbone, etc.).

- Each combination of these alpha-numeric codes has a corresponding formula for calculating the empty space percentage.

- The choice of points between which the centre-to-centre distance is measured can vary from one supplier to another, so you have to rely on the open area percentage.

- When determining the dimensions of a sheet and the bending dimensions, you need to consider the stretching of the material caused by this operation. Stretch is a function of thickness.

Weight of an unperforated sheet: (Dimension in mm)

lenght x width x thickness x density = weight (kg)

Density examples (kg/dm3) :		
Steel > 8	Stainless > 8	Aluminium > 2.7

Weight of a perforated sheet :

Unperforated sheet weight x (1 – coefficient) = weight (kg)

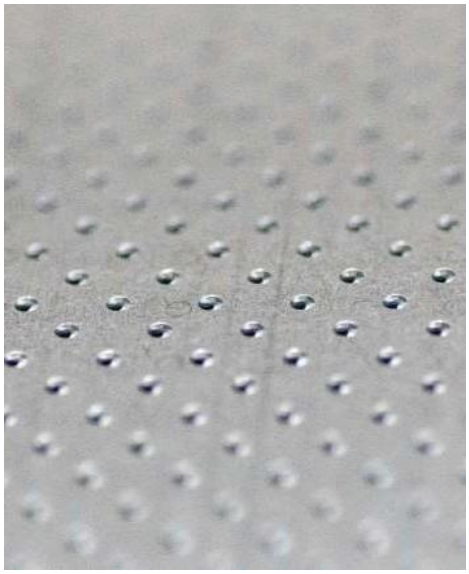
(The coefficient corresponds to the percentage of void divided 100, example : 11% > 0.11)

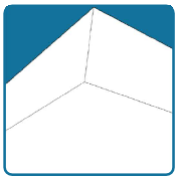
Remarks :

The perforations do not necessarily cover the entire sheet, which affects the calculation.

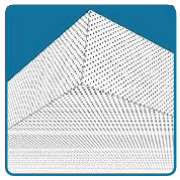
In addition to these basic characteristics, the following parameters can vary the production constraints and therefore the cost :

- The metal chosen (galvanised steel, electro-galvanised steel, stainless steel, aluminium)
- Whether the material is pre-painted or post-painted
- The addition of lubricant or plastic film to protect the perforation tool
- The absence of surface damage (scratches, bur
- Flatness requirements
- Dimensions of the coil of material, in particular its width
- Squareness accuracy (include a margin)
- Perforated area dimensions

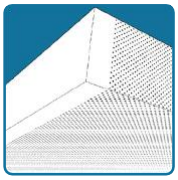




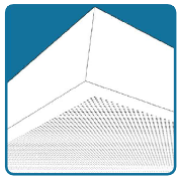
NP - Non perforated



PP – Bending in perforation

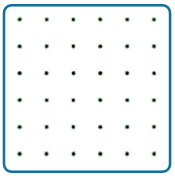


BPL – Longitudinal perforation

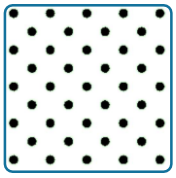


AR4C - Perforation stopped on 4 sides

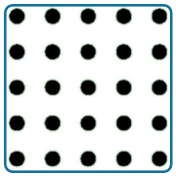
The know-how and experience of the Echame team guarantees the optimization and simplification of the choice of these parameters through a point-by-point consulting process.



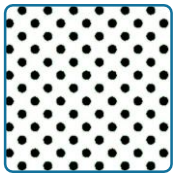
2% R0,8 U



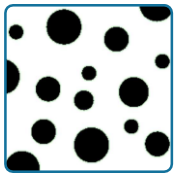
11% R1,5 M



16% R2,5 U



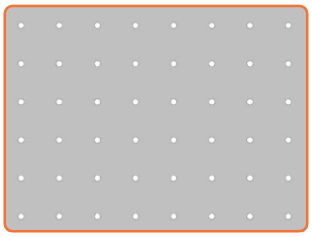
22% R1,5 M



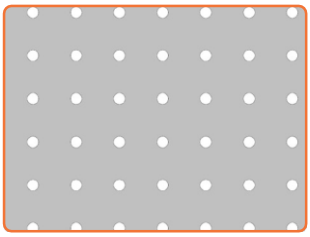
25% Nuagée

Perforations on request

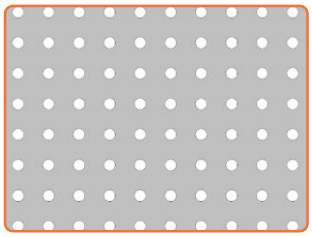
Here are some examples of perforations that can be produced on request. Please do not hesitate to contact us :



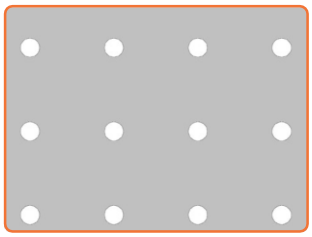
R0,8 U5 2%



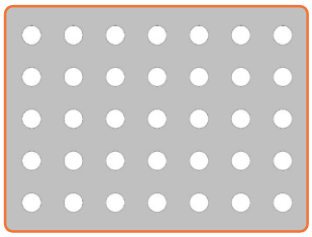
R1,5 U5,65 5,5%



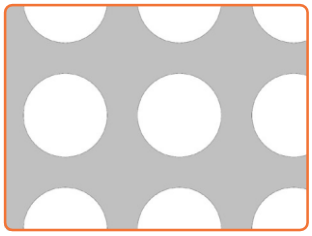
R1,5 U4 11%



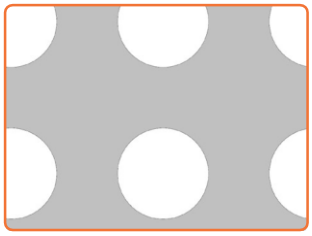
R2,5 U11 4%



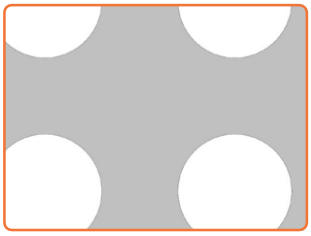
R2,5 U5,5 16%



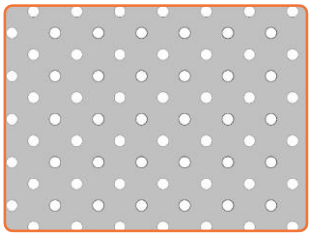
R11 U15 42,2%



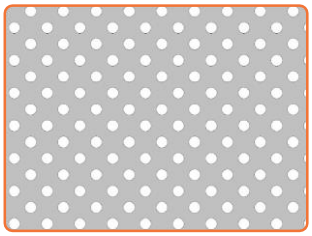
R12 U20 28%



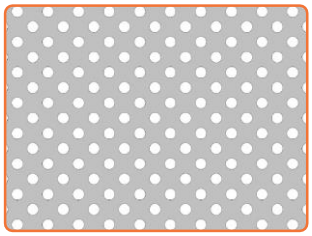
R15 U25 28,3%



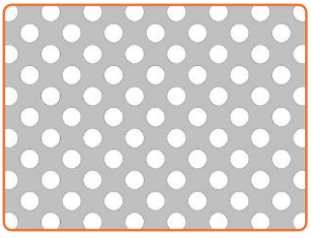
R1,5 M5,65 11%



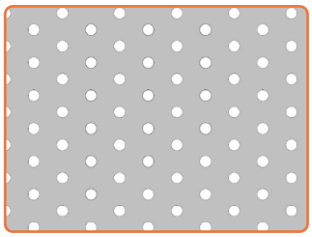
R1,5 M4,3 19%



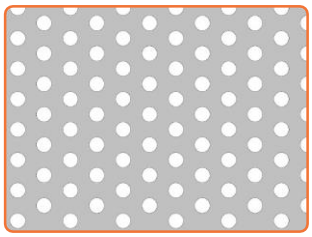
R1,5 M4 22%



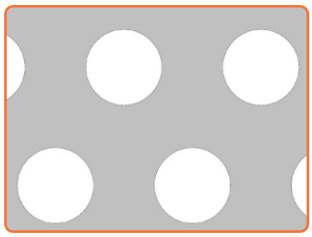
R2,5 M5,5 32%



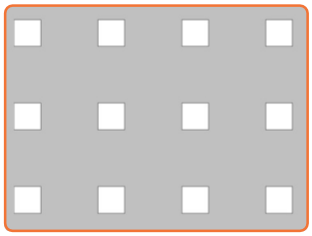
R1,5 T4,33 11%



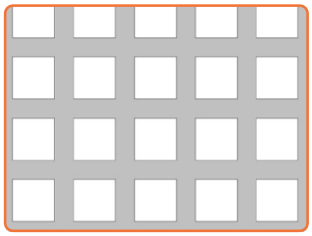
R2 T4 22,7%



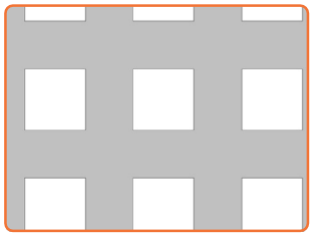
R10 T18 28%



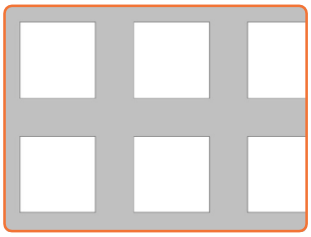
C3 U11 10,1%



C5,5 U8 47,3%

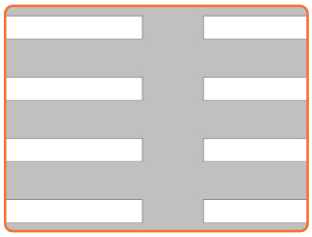


C8 U14,28 31,4%

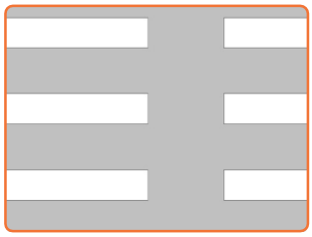


C10 U15 44,4%

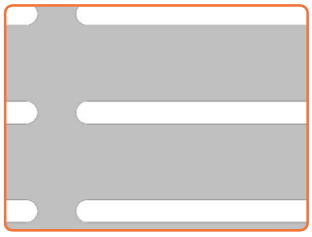
LC21X1 EA23



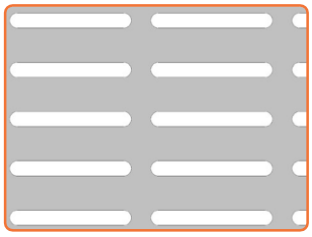
LC53X3 EA8,05



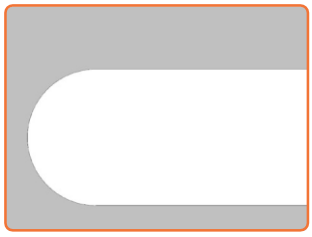
LC61X4 EA10



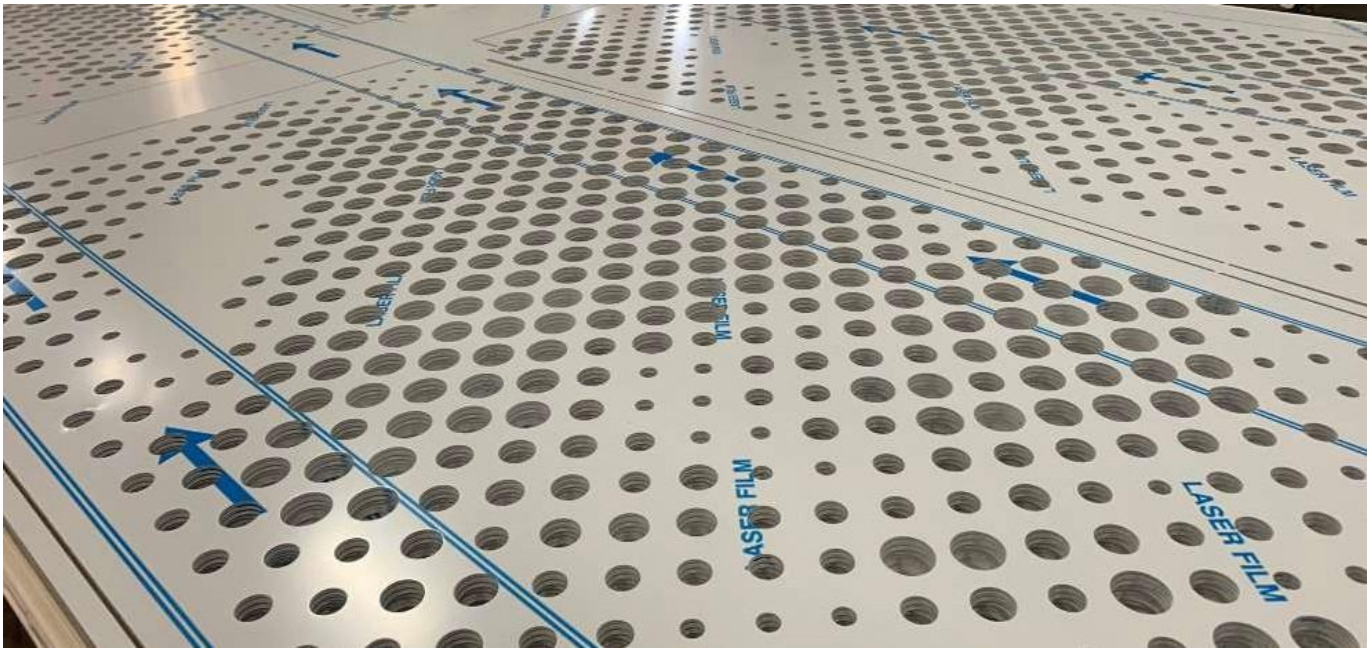
LR67X3 EA13



LR14X2 EA6,5 23%



LR50X18 EA39


LASER FILM
LASER FILM

Colors

ECHAME works with pre-painted sheets from forges or galvanised steel sheets which receive a post-painting treatment directly in the factory.
ECHAME is equipped with its own polyester powder coating line, which enables it to produce all colours according to the RAL colour chart on a 30% gloss basis.

The light reflection indexes of our standard whites have been tested in accordance with the EN410 standard. Light reflection depends not only on the colour but also on the perforation rate.

LIGHT REFLECTION (in %)

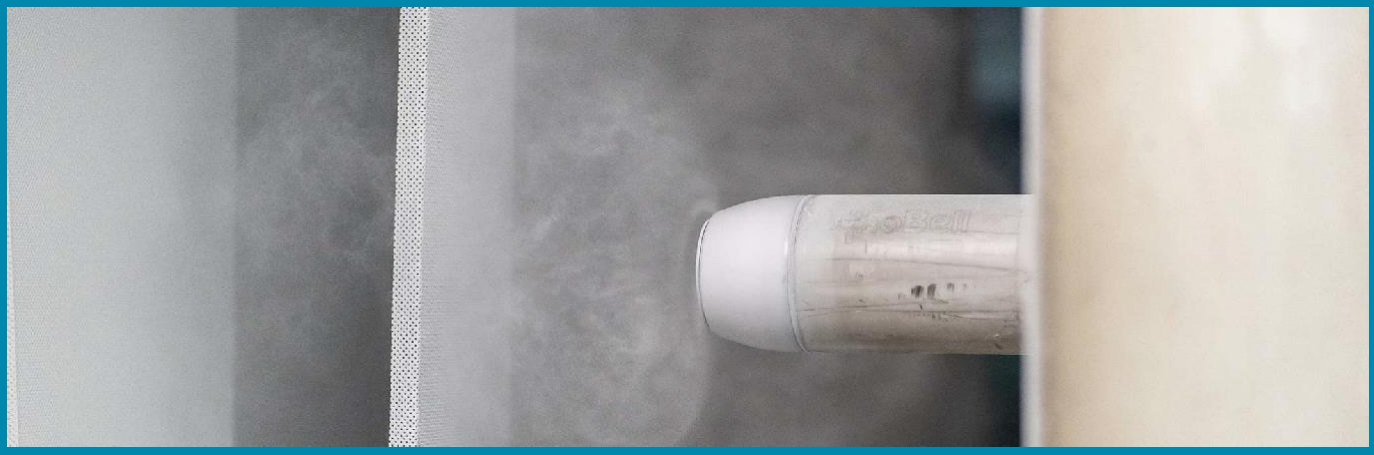
According to EN 410
PV : CSTB n° EMI 18-26077242-1

	Non perforated	11% perforation	16% perforation	22% perforation
Pre-painted 137	78	70	65	63
RAL 9003	85	73	68	66
RAL 9010	86	76	71	71
RAL 9016	88	77	73	72

CLARITY (CIELAB) (in %)

According to NF EN ISO 11664-1
PV : CSTB n° EMI 18-26077242-1

	Non perforated	11% perforation	16% perforation	22% perforation
Pre-painted 137	91	87	84	83
RAL 9003	94	89	86	85
RAL 9010	94	90	88	88
RAL 9016	95	90	88	88



Prepainted : White 137 (~ RAL 9003)

White 137

Polyester powder coating : Whites RAL 9003, 9016, 9010, noir 9005 30% gloss and textured

RAL 9003 | RAL 9016 | RAL 9010 | RAL 9005 | RAL 9006

Polyester powder coating : Other colors RAL on request

RAL 1001 | RAL 5002 | RAL 3005 | RAL 6005 | RAL 7004

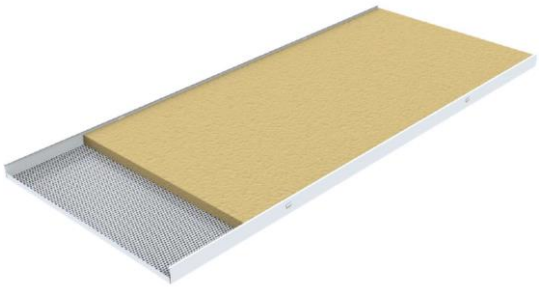
RAL 7035

Coverings

Empty panel
NU
Alpha w = NC

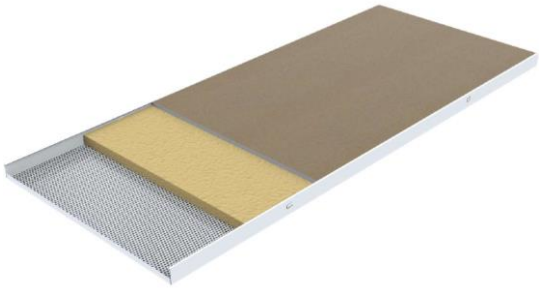
Non-woven black
INT
Alpha w = 0,7

Glasswool Sonebel 164 black
30 mm
SONE
Alpha w = 0.9



Rockwool black surfaced 30 mm
LR30
Alpha w = 1

Rockwool 30 mm
bagged film PU
LR30 PU
Alpha w = 0.95



Rockwool black surfaced 30 mm
+ plasterboard
LR30 BA13
Alpha w = 0,8

Acoustic performances

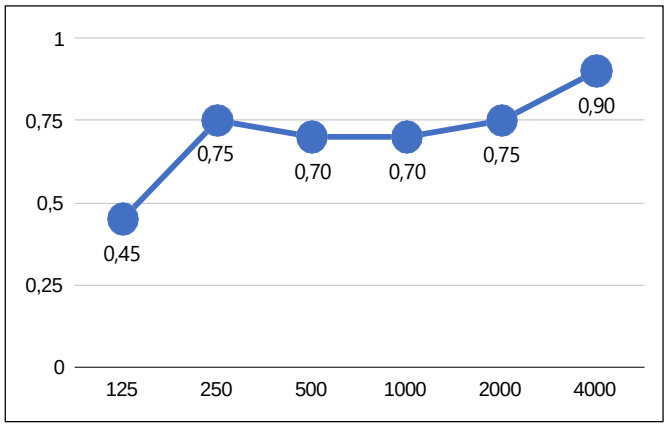
Average absorption coefficients Alpha w laboratory-tested in accordance with standards NF EN 16487 and NF EN ISO 354, supplemented by standard NF EN ISO 11654 for the expression of the αw value.

Our panels offer excellent absorption performance to guarantee optimum acoustic comfort at all times.

Typical test for a perforated panel (with perforation rate greater than or equal to 11% and covering)

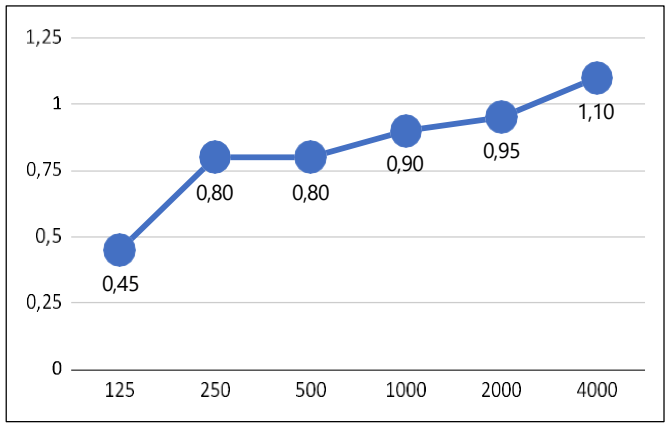
Absorption

Non-woven black - INT



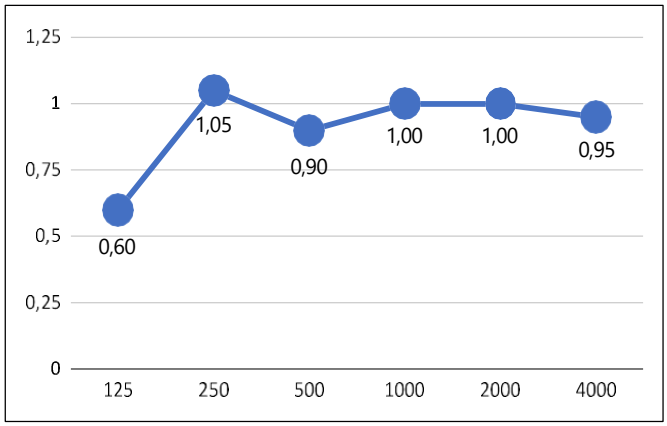
Fréquence en Hz	125	250	500	1000	2000	4000	αw
Coef α p	0,45	0,75	0,70	0,70	0,75	0,90	0,7 (LH)

Glasswool Sonebel 164 - SONE



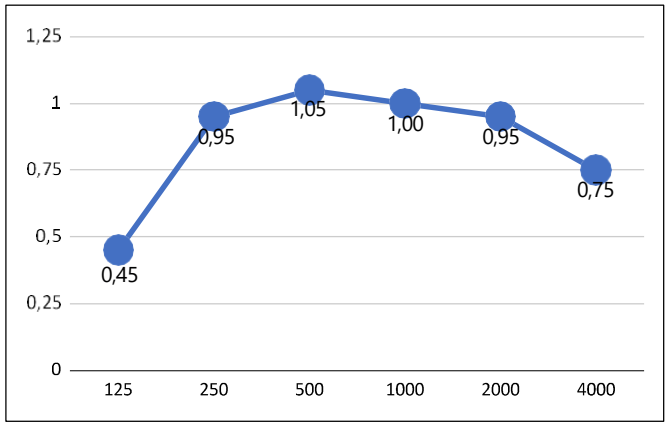
Fréquence en Hz	125	250	500	1000	2000	4000	αw
Coef α p	0,45	0,80	0,80	0,90	0,95	1,10	0,90

Rockwool 30 mm - LR30



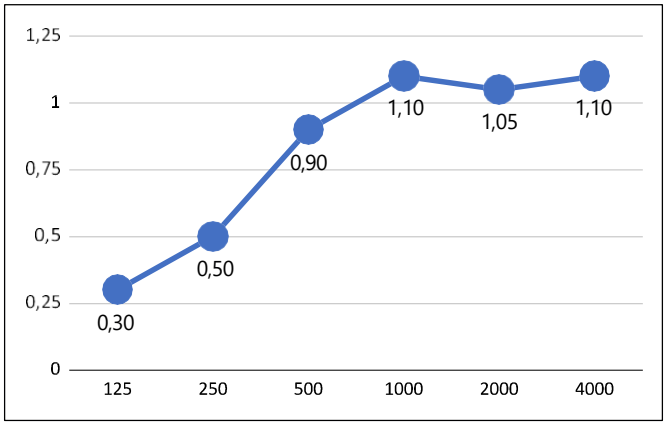
Fréquence en Hz	125	250	500	1000	2000	4000	αw
Coef α p	0,60	1,05	0,90	1,00	1,00	0,95	1,00

Bagged rockwool - LR30 PU



Fréquence en Hz	125	250	500	1000	2000	4000	αw
Coef α p	0,45	0,95	1,05	1,00	0,95	0,75	0,95

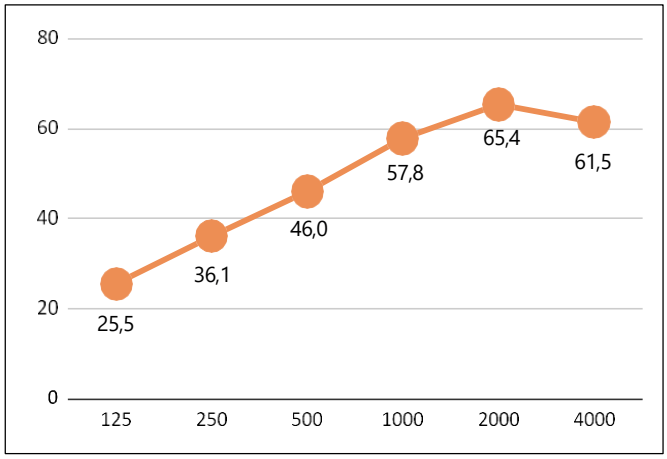
Heavy panel (L) - LR30 BA13



Fréquence en Hz	125	250	500	1000	2000	4000	αw
Coef α p	0,30	0,50	0,90	1,10	1,05	1,10	0,8 (H)

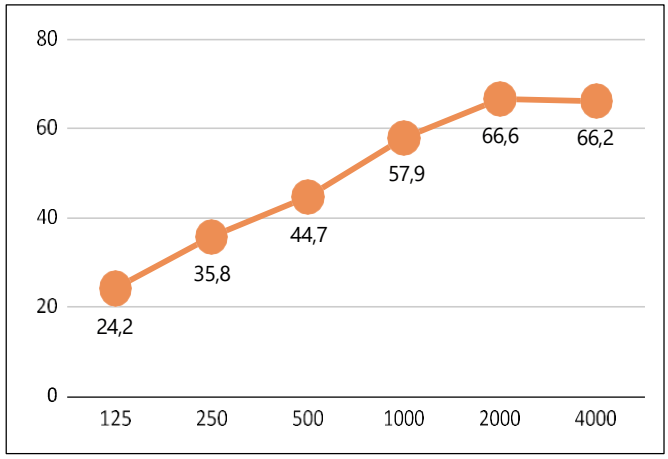
Lateral insulation

Heavy panel (L) : Rockwool+ plasterboard - LR30 BA13

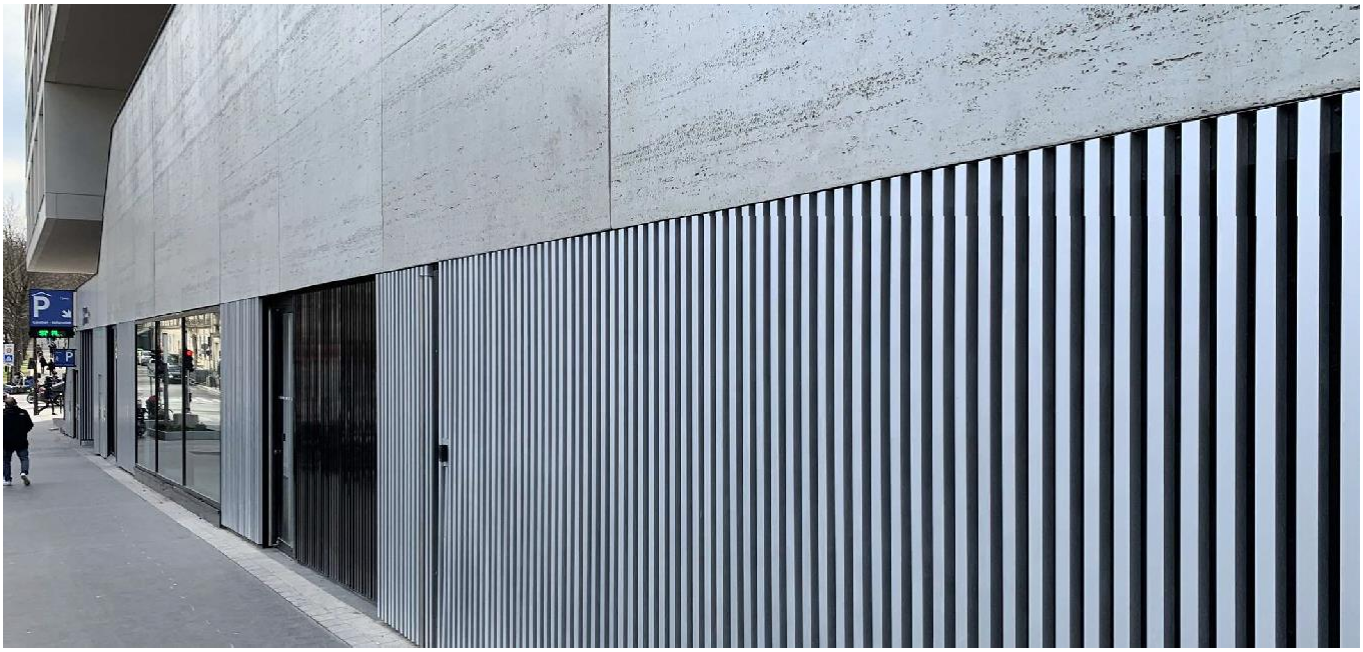


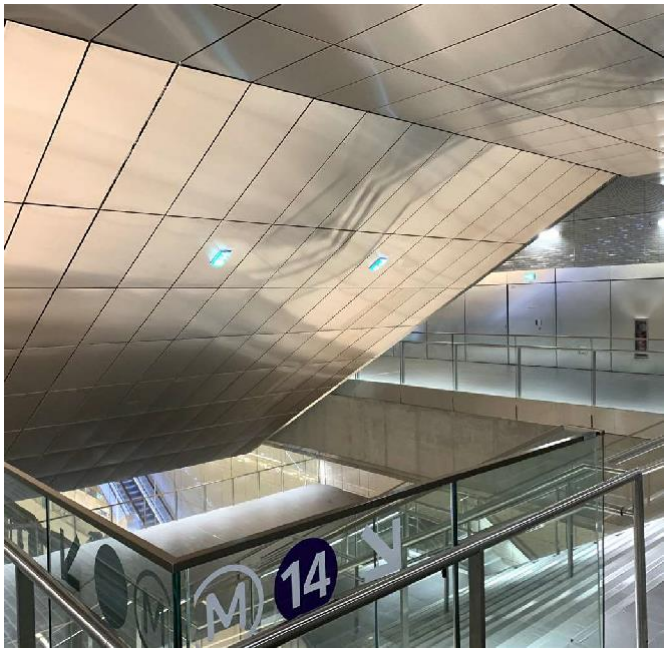
Fréquence en Hz	125	250	500	1000	2000	4000	Dn,f,w
Dn,f	25,5	36,1	46,0	57,8	65,4	61,5	46 (-3;-10) dB

Heavy panel (L) : Rockwool LR50 + steel sheet 1,2



Fréquence en Hz	125	250	500	1000	2000	4000	Dn,f,w
Dn,f	24,2	35,8	44,7	57,9	66,6	66,2	45 (-2;-9) dB




M
14

Summary of the tests

Absorption								
	f en Hz	***125***	***250***	***500***	***1000***	***2000***	***4000***	***αw***
EC2 / EC3 / EC30 / EC4								
Perfo > 11% + non woven / 300 mm plenum	***Coef αp***	0,45	0,75	0,7	0,7	0,75	0,9	**0,7 (LH)**
PV : CSTB AC99-061/1 du 25/05/1999								
Perfo > 11% + LV (Sonebel 164) 30 mm / 300 mm plenum	***Coef αp***	0,45	0,8	0,8	0,9	0,95	1,1	**0,9**
PV : CSTB AC99-061/2 du 25/05/1999								
Perfo > 11% + LR 30 mm / 300 mm plenum	***Coef αp***	0,6	1,05	0,9	1	1	0,95	**1**
PV : CSTB AC15-26056223/4 du 28/04/2015								
Perfo > 11% + LR 30 mm / no plénum	***Coef αp***	0,1	0,4	0,85	1	1,05	0,95	**0,7 (MH)**
PV : CSTB AC15-26056223/5 du 28/04/2015								
Perfo > 11% + LR 30 mm bagged / 200 mm plenum	***Coef αp***	0,45	0,95	1,05	1	0,95	0,75	**0,95**
PV : CSTB N°AC17-26071850-3 du 9/05/2019								
Perfo Micro 2% + LR 30 mm / 200 mm plenum	***Coef αp***	0,55	0,85	0,9	1	0,85	0,55	**0,75 (LM)**
PV : CSTB N°AC17-26071850-4 du 9/05/2019								
Perfo Avalson 25% + LR 50 mm / 200 mm plenum	***Coef αp***	0,15	0,7	1,05	1,05	1,05	1	**1**
PV : CSTB N°AC17-26071850-4 du 9/05/2019								
EC2 L / EC3 L								
Perfo > 11% + LR 20 mm + BA13 / 300 mm plenum	***Coef αp***	0,2	0,25	0,5	0,95	1,05	0,95	**0,5 (MH)**
PV : CSTB AC15-26056223/3 du 28/04/2015								
Perfo > 11% + LR 30 mm + BA13 / 300 mm plenum	***Coef αp***	0,3	0,5	0,9	1,1	1,05	1,1	**0,8 (H)**
PV : CSTB AC15-26056223/2 du 28/04/2015								
Perfo > 11% + LV 25 mm + BA13 / 300 mm plenum	***Coef αp***	0,25	0,25	0,4	0,65	0,85	0,85	**0,45 (H)**
PV : CEBTP BPI13.6.6074/2 du 07/04/2006								

Extensions for variants in perforation rate and construction systems:

Extension N°15/01 of n°AC15-26056223 report

Extension of results N° 19/01-Rév01 du 9/07/2019 to AC17-26071850- (3/5/6) report

Extension of results n°19/10 to AC17-26071850-3 à 7 report

Lateral insulation								
	f en Hz	***125***	***250***	***500***	***1000***	***2000***	***4000***	***Dn,f,w***
EC2 L								
Perfo < 22% + LR 30 mm + BA13	*Dn,f*	25,5	36,05	46	57,8	65,35	61,45	**46 (-3;-10)**
PV : CSTB N°AC17-26071850-1 du 9/05/2019								
Perfo < 22% + non woven + LR 50 mm + steel sheet 1,2 mm	*Dn,f*	24,2	35,75	44,65	57,9	66,6	66,15	**45 (-2;-9)**
PV : CSTB N°AC17-26071850-2 du 9/05/2019								
Perfo 11% + LV 25 mm + BA13	*Dn,f*	32,65	38,85	42,45	52,15	58,15	57,2	**48 (-2;-7)**
PV : CEBTP B565.5.2027/1 du 05/07/2005								

Extensions for perforation rate variants:

Extension of results N° 19/01-Rév01 du 9/07/2019 of AC17-26071850- (1/2) report

Fire performances

Reaction to fire

(According to EN 13501-1)

Panel	Prepainted steel	Prepainted steel	Prepainted steel	Prepainted steel	Prepainted steel	Prepainted steel
Covering	Sans	Non-woven black INT	Sonebel 164 SONE	Rockwool 30 mm LR30	Bagged rockwool LR30 PU	Rockwool + plasterboard LR30 BA13
Reaction to fire class	A1	A1	A2-s1,d0	A1	A2-s1,d0	A2-s1,d0

Panel	Post painted steel	Post painted steel	Post painted steel	Post painted steel	Post painted steel	Post painted steel
Covering	Sans	Non-woven black INT	Sonebel 164 SONE	Rockwool 30 mm LR30	Bagged rockwool LR30 PU	Rockwool + plasterboard LR30 BA13
Reaction to fire class	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0

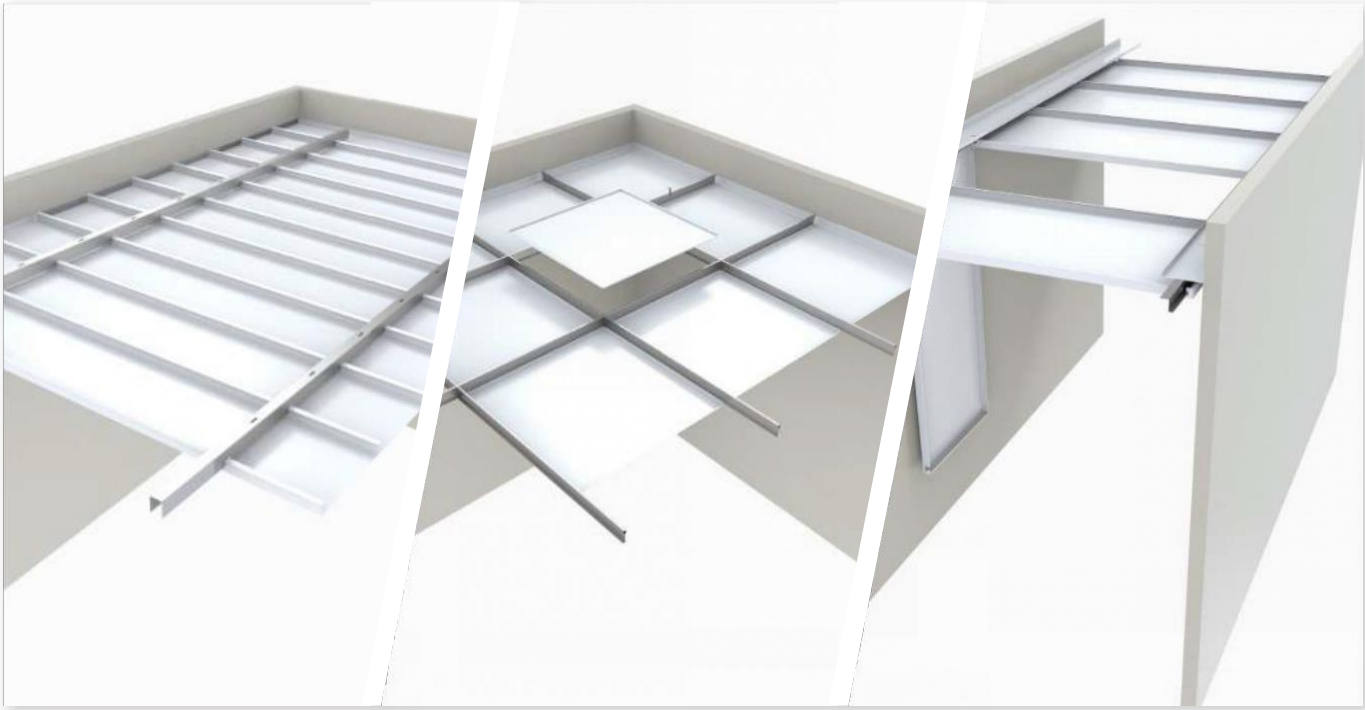
Fire resistance

Fire resistance tests carried out by an approved organization according to NF EN 13501-2 : 2016-07

ECHAME Ceiling	EC2 SF	EC3 SF	EC30 SF
Fire resistance class	EC2 SF 300 mm : R 30 min EC2 SF >300mm : R 15min	EC3 SF : R 30 min	EC30 SF : R 30 min

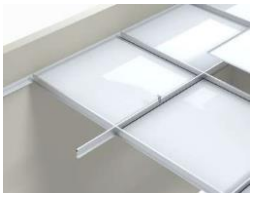
Mounting systems

Standard systems



ECHAME full range :

Family	Ref ECHAME	Designation	Corridors	Perimeter
TILES	EC7 HO	Straight edge metal tile fitted on T grid		• Angle 20x24 (REC L24) • Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Chanel trim 25x40x20 (REC U40)
	EC7 H08	Tegular edge metal tile fitted on T15 grid or hollow joint profile		• Angle 20x24 (REC L24) • Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Chanel trim 25x40x20 (REC U40)
	EC7 H13	Tegular edge metal tile fitted on T24 grid		• Angle 20x24 (REC L24) • Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Chanel trim 25x40x20 (REC U40)
	EC7 CLIP	Clip-in metal tile with sharp edges on a concealed grid		• Angle 20x24 (REC L24) • Chanel trim 25x40x20 (REC U40)
PANEL ON EXPOSED GRID	EC2 BO	Self-supporting open-ended panel, with installation on an exposed grid	Installation on wall angle, hollow joint wall angle or chanel trim	• Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Chanel trim 25x40x20 (REC U40)
	EC2 BRD	Self-supporting panel with straight upturned ends , for installation on an exposed grid	Installation on wall angle, hollow joint wall angle or chanel trim	• Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Chanel trim 25x40x20 (REC U40)
	EC2 BRZ S	Self-supporting panel with ends turned up into Z hooks , for installation on an exposed grid		• Angle 25x30 (REC L30)
	EC2 BRZ B	Self-supporting panel with ends turned up into spoiler hooks , for installation on an exposed grid		• Angle 25x30 (REC L30)

Grid	Hanging accessories	Primary support	Plan
T support rail T24 • PREC T24 P3600 • PREC T24 E1200 • PREC T24 E600 T support rail T15 • PREC T15 P3600 • PREC T15 E1200 • PREC T15 E600	• T hanger 6mm (SUSP T)		
Hollow joint support • PREC JC P3600 • PREC JC E1200 • PREC JC E600 T support rail T15 • PREC T15 P3600 • PREC T15 E1200 • PREC T15 E600	• T hanger 6mm (SUSP T)		
T support rail T24 • PREC T24 P3600 • PREC T24 E1200 • PREC T24 E600	• T hanger 6mm (SUSP T)		
• Clipping rail (PREC R)	• Clipping rail hanger (SUSP R) • Clipping rail connector (RACC R)	• Primary profile19x38x19 (PREC PU)	
			
• Omega bandraster 50/75/100/125/150 mm(PREC LP) • Hollow joint omega bandraster 100 mm – aluminium extruded (PREC LPJC)	• Omega hanger (SUSP LP) • Extruded omega hanger (SUSP LPJC) • Omega connector (RACC LP) • Extruded omega connector (RACC LPJC)		
• C bandraster 50/75/100/125/150 mm (PREC C) • C bandraster 100 mm Hollw joint aluminium extruded (PREC CJC) • C bandraster (Other width 100 mm) dovetail (PREC CQA)	• C hanger (SUSP C) • Extruded C hanger (SUSP CJC) • Dovetail C hanger (SUSP CQA) • C connector (RACC C) • Extruded C connector (RACC CJC) • Dovetail C connector (RACC CQA)		
• B profile aluminium extruded (PREC B)	• T hanger 6mm (SUSP T) • B profile connector (RACC B)		

Family	Ref ECHAME	Designation	Corridors	Perimeter
PANEL ON CONCEALED GRID	EC2 J	Self-supporting panel for hooked edge-to-edge installation under J profiles		• Angle 25x30 (REC L30)
	EC2 JC	Self-supporting panel with external folds for screwing at the bottom of hollow joints under commercial primary framework	Installation on wall angle or hollow joint angle	• Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20)
	EC4 H	Self-supporting panel with notches for edge-to-edge installation under H profile	Wall bracket + half H profile	• Angle 25x30 (REC L30) • Hollow joint angle 25x20x20x20 (REC LJC20) • Wall bracket (PREC PLR) + Half H (REC H/2)
SWING-DOWN PANELS	EC31	Corridor panel with hanging under J profile. System without notch, with fixation under hanging profile over the width of the panel.	Installation under wall bracket and J profile	• Wall bracket (PREC PLR) + J profile (PREC J)
	EC3	Corridor panel opening on one side on a secure pivot profile thanks to a system of notches on the long side.	Installation under wall bracket and J profile or specific pivot profile	• Wall bracket (PREC PLR) + Hooked J profile (PREC J) • EC3 pivot profile (PREC PIV 300)
	EC30	Corridor panel opening on two sides under an hooked/pivot J profile thanks to a system of notches on the long side	Installation under wall bracket and J profile	• Wall bracket (PREC PLR) + Hooked J profile (PREC J)
HEAVY PANEL	EC2 L	EC2 BRZ S type self-supporting panel in heavy version, with mineral wool filling and plasterboard for lateral insulation	Installation on wall angle	• Angle 25x30 (REC L30)

Grid	Hanging accessories	Primary support	Plan
• J profile (PREC J)		• Primary profile 19x38x19 (PREC PU)	
			
• H profile (PREC H)	• H profile hanger (SUSP H) • H profile connector (RACC H)	• Primary profile 19x38x19 (PREC PU)	
			
• Option / double J profile on request			
• Option / double J profile on request			
• C bandraster 50/75/100/125/150 mm (PREC C) • C bandraster 100 mm Hollw joint aluminium extruded (PREC CJC) • C bandraster (Other width 100 mm) dovetail (PREC CQA)	• C hanger (SUSP C) • Extruded C hanger (SUSP CJC) • Dovetail C hanger (SUSP CQA) • C connector (RACC C) • Extruded C connector (RACC CJC) • Dovetail C connector (RACC CQA)		

Family	Ref ECHAME	Designation	Corridors	Perimeter
FIRE RESISTANT CEILING	EC2 SF	EC2 BO type self-supporting panel with assembly system guaranteeing a degree of fire stability of 30 min	Installation on wall angle EC2 SF	• Angle EC2 SF 25x30 (REC L30 SF)
	EC3 SF	EC3 type swing down panel with assembly system guaranteeing a degree of fire stability of 30 min	Installation under wall bracket and J profile or specific pivot profile	• Wall bracket (PREC PLR) + Hooked J profile (PREC J) • EC3 pivot profile (PREC PIV 300)
	EC30 SF	EC30 type swing down panel with assembly system guaranteeing a degree of fire stability of 30 min	Installation under wall bracket and J profile	• Wall bracket (PREC PLR) + Hooked J profile (PREC J)
LONG SPAN PANELS	EC2 CLIP	Long-span panel to clip under a notched frame. The panels are placed edge to edge with longitudinal overlap		• Angle 25x30 (REC L30) • Chanel trim 25x40x20 (REC U40)
ISLAND PANELS	ILOT C	5-sided metal panel of standard dimensions allowing hanging under adjustable cables.		
	ILOT J	Island made up of one or more 5-sided metal panels, type EC31, to be suspended under a J frame		

Grid	Hanging accessories	Primary support	Plan
			
			
			
• Clip profil with notches (PREC CLIP)	• Clip profile (RACC CLIP)		
• 4 adjustable cables M6			
• J profile (PREC J)		• Traverse U spéciale ILOT J	

SUPPORTING PROFILE

PREC T15 P3600 PREC T15 E1200 PREC T15 E600	Standard T15 frame galvanized steel / white lacquered sole	15x38mm, lg 3600 mm 15x32mm, lg 1200 mm 15x32mm, lg 600mm	
PREC T24 P3600 PREC T24 E1200 PREC T24 E600	Standard T24 frame galvanized steel / white lacquered sole	24x38mm, lg 3600 mm 24x32mm, lg 1200 mm 24x25mm, lg 600mm	
PREC JC P3600 PREC JC E1200 PREC JC E600	Standard hollow joint frame galvanized steel / white lacquered	15x45mm, lg 3600 mm 15x45mm, lg 1200 mm 15x45mm, lg 600mm	
PREC B	Hollow joint extruded profile for self-supporting panel Post-coated aluminum	15x55mm, lg 3000 mm	
PREC R	Spring profile for clip-in tiles Galvanized steel	36x28 mm, lg 3600 mm	
PREC CLIP	Notched profile for self-supporting clip-on panel Galvanized steel	50x35x50mm, lg 3000mm, ep 0,8mm	
PREC LP100	Omega profile Post-lacquered galvanized steel	100x30mm, lg 3000 mm, ep 0,8 Autres largeurs sur demande	
PREC LPJC100	Omega profile with hollow joint Post-lacquered extruded aluminum	100x35 mm, lg 3000 mm	
PREC C50 PREC C75 PREC C100 PREC C125	C Bandraster profile Post-lacquered galvanized steel	50x30 mm, lg 3000 mm, ep 1 75x30 mm, lg 3000 mm, ep 1 100x30 mm, lg 3000 mm, ep 1 125x30 mm, lg 3000 mm, ep 1	
PREC CQA C100 JC20	Omega profile with dovetail hollow joint Post-lacquered galvanized steel	100x30 mm, lg 3000 mm, ep 1	
PREC CJC75 PREC CJC100	Hollow joint C Bandraster profile Post-lacquered extruded aluminum	75x30mm, lg 3000mm, ep 1,4 100x31,5 mm, lg 3000 mm, ep 1	
PREC J	Standard J hook/pivot profile Galvanized steel	31x37x20x8mm, lg 3000 mm, ep 1	

PREC 2J	Double hooked profile/ pivot J Galvanized steel	7x20x37x99x37x20x8 mm, lg 3000 mm, ep 1	
PREC H	Aluminum extruded H supporting profile	28,5x33mm, lg 3000mm, ep 1,5	
PREC PU	Primary supporting profile Galvanized steel	U 19x38x19mm, lg 4000mm, ep 1	
PREC PLR	Wall bracket Standard white pre-painted steel	40x133x18mm, lg 3000 mm, ep 1	
PREC PIV 300	Pivot profile with axis at 300 mm center distance Galvanized steel	28x35x24mm, lg 3000mm, ep 1	

EDGE PROFILES

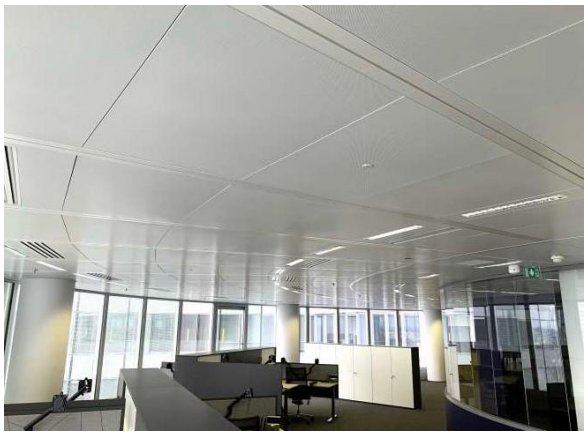
REC L24 REC L30	Wall angle Post-lacquered galvanized steel	19x24mm, lg 3000 mm, ep 0,8 35x30mm, lg 3000 mm, ep 0,8	
REC LJC20	Hollow joint wall angle Post-lacquered galvanized steel	30x20x20x20mm, lg 3000 mm, ep 0,8	
REC U40	Chanel trim U profile Post-lacquered galvanized steel	25x40x20, lg 3000, ep 0,8	
REC L30 SF	Fire stable wall angle Post-lacquered galvanized steel	25x30mm, lg 3000 mm, ep 0,8	
REC H/2	Half H profile Galvanized steel	6x14,3x36x25mm, lg 3000mm, ep 1	

HANGERS			
SUSP T	T hanger for standard profile	Galvanized steel, thickness1,75 mm	
SUSP R	Hanger for spring profile	Galvanized steel, thickness 1,2 mm	
SUSP LP	Hanger for omega bandraster	ht 75mm, thickness 1,5 mm	
SUSP LPJC	Hanger for hollow join extruded omega bandraster	Galvanized steel, thickness 1,2 mm	
SUSP C	Hanger for C bandraster	Galvanized steel, thickness 1,5 mm	
SUSP CJC	Hanger for extruded hollow joint C bandraster	Galvanized steel, thickness 1,2 mm	
SUSP CQA	Hanger for dovetail hollow joint C bandraster	Galvanized steel, thickness 1,2 mm	
SUSP H	Hanger for H profile	Galvanized steel, thickness 1,2 mm	
SUSP PU	Suspension flange for primary profile U type PREC PU	Galvanized steel, thickness 1,2 mm	

RACCORDS			
RACC R	Spring profile connector Galvanized steel	lg 150, ep 0,5	
RACC LP	Omega bandraster connector Standard white pre-painted steel	lg 150 mm, ep 0,5	
RACC LPJC	Extruded hollow joint omega bandraster connector Standard white pre-painted steel	lg 150 mm, ep 0,5	
RACC C	C bandraster connector Standard white pre-painted steel	lg 150 mm, ep 0,5	
RACC CJC	Extruded hollow joint C bandraster connector Standard white pre-painted steel	lg 150 mm, ep 0,5	
RACC CQA	Dovetail hollow joint C bandraster connector Standard white pre-painted steel	lg 150 mm, ep 0,5	
RACC H	H profile connector Galvanized steel	lg 150 mm, ep 0,5	
RACC CLIP	EC2 CLIP notched profile connector Galvanized steel	lg 200 mm, ep 0,5	
RACC PU	PREC PU primary profile connector Galvanized steel	lg 150 mm, ep 0,5	

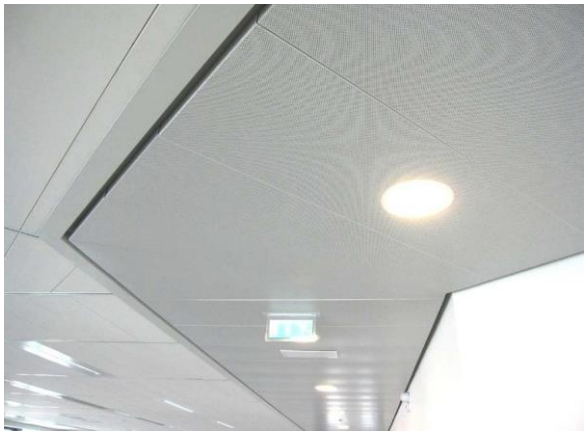
Bespoke

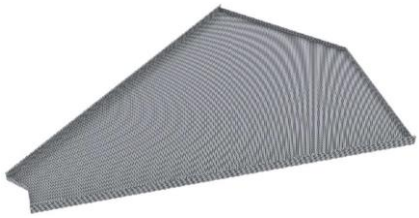
Trapezoidal panels



In the case of curved ceiling frames, ECHAME manufactures trapezoidal panels to match the curvature of the ceiling while allowing standard load-bearing framings to be retained.

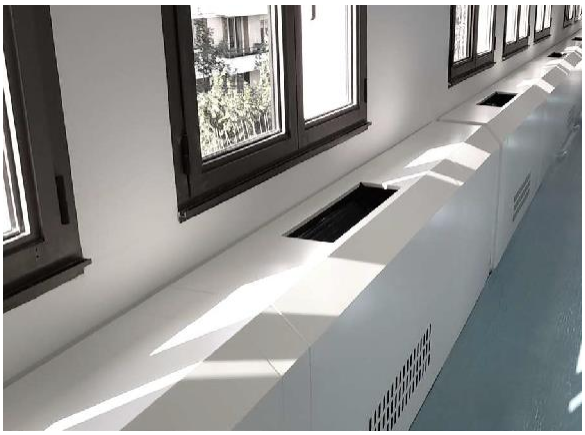
Finishing panels





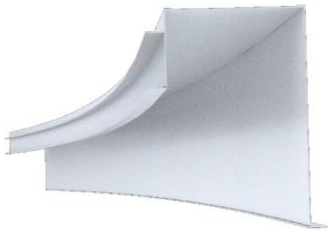
When there are changes of direction in the corridors, or when connecting with partitioning elements that require special panels to be installed, ECHAME manufactures bespoke panels offering a wide choice of shapes. Specific panels designed by our Engineering Department according to your site requirements.

Specific covers



Covers for fan coil units, wall panels, column covers or any other decorative parts. ECHAME is able to manufacture sheet metal parts adapted to the specific requirements of the project.

Bending



Vaulted ceilings, curved cladding profiles. ECHAME can carry out bending operations to bring your ceilings to life.

Decorative cut-outs

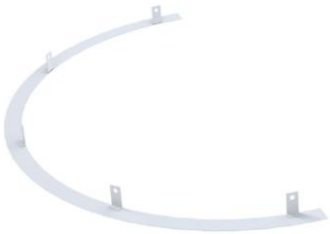
Thanks to its high-performance LASER punching and cutting equipment, ECHAME can produce panels and cassettes with bespoke decorations. Random perforations of large diameters or cut-outs according to your dxf drawings, let your imagination go wild!

Vertical profiles

Sheet metal elements custom shaped so as to take up differences in level between ceilings. We produce panels of all sizes, with various folds, crushed folds and post-painting to provide an optimal level of finish to your ceilings.

POSTS PROFILES

Half post profile:



Hollow joint half post profile:

ECHAME post half-turn profiles are made from LASER cut profiles, bent and assembled with fixing brackets to be doweled directly onto the posts.

Partition connection profiles

Drawing on its experience serving ceiling installers, ECHAME has developed a range of special profiles which make it possible to adapt most installation configurations between partitions and ceilings.
For any special requests, contact our sales department who will study with you the profile best suited to your needs.

Profiles under barriers

Designed to cover barriers under ceilings between office areas and take up different ceiling altimeters.
Our know-how and the flexibility of our industrial process allow us to produce a wide variety of profiles and adapt to most installation configurations.

Whatever your custom shaping request, ask us.

ECHAME, a local

industry for your projects

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