

A photograph of three children in a gymnasium. A boy in a blue and white patterned shirt is sitting on a blue exercise ball, a girl in a green shirt is sitting on a pink exercise ball, and another girl in an orange shirt is standing with her arms raised. The ceiling is a grid of acoustic tiles. A purple rectangular box is overlaid on the ceiling area.

ACOUSTICHOC®

The impact-resistant  
ceiling

## PRODUCT FEATURES



Resistance to  
impacts



Acoustic  
absorption:  $\alpha_w = 1$



Easy to install:  
Requires only  
one fitting

# ACOUSTICHOC®

## The impact-resistant ceiling

To meet the requirements of standard NF EN 13964 - Annex D, Saint-Gobain Eurocooustic has developed the Acoustichoc® range of acoustic ceilings. Thanks to the resilience of their reinforced veils, Acoustichoc® ceilings are suitable for premises subjected to repeated impacts. The Impact 15 and Impact 30 systems are resistant, respectively, to impacts from 15 to 30 km/h (ball-test).

### BALL TEST - STANDARD NF EN 13964 - ANNEX D



#### • It defines three impact-resistant classes:

Classes	Resistance to an impact of:	Equivalent to
1A	16.5 m/s	60 km/h
2A	8 m/s	30 km/h
3A	4 m/s	15 km/h

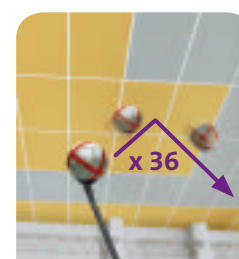


#### Testing protocol:

A handball is mechanically fired from a cannon 36 times to impact the ceiling:

- 12 times vertically
- 12 times at an angle of 60° from two perpendicular directions

Condition for obtaining a classification: "the resistance, the function and the safety of the suspended ceiling must not have undergone unfavourable effects and its appearance must not have changed appreciably."



### PRODUCTS FOR EVERY TYPE OF PREMISES



**Acoustichoc® ceiling:**  
Classrooms, hallways,  
corridors, etc.



**Impact 15 for moderate impacts:**  
Workshops, recreation rooms,  
changing rooms, fitness halls,  
dance halls, day nurseries, etc.



**Impact 30 for significant impacts**  
arising from ball sports: gymnasias  
and sports complexes (handball,  
tennis, volleyball, basketball,  
football, etc.)

ACOUSTICHOC®

## Features making it suitable for schools, sports premises and function rooms

Impact resistance and acoustic management are essential in sports, school and leisure environments. The Acoustichoc® range of acoustic ceilings meets these specific requirements. Thus it encourages concentration and guarantees comfort and safety for all. It is also easy to install thanks to the use of a single clip-on fitting.

### + SAFE

- Impact resistance:
  - Acoustichoc® panels: **Reinforced veil**
  - Impact 15 System: **Class 3A 15 km/h** panels + clips + framework
  - Impact 30 System: **Class 2A 30 km/h** panels + clips + framework
- Fire resistance: **A1** for colours, **A2-s1, d0** for white
- Fire resistance:  **REI 30<sup>(1)</sup>**  **SF 30<sup>(2)</sup>**
- IAQ: **A+**
- Moisture resistance: Acoustichoc® ceilings are **100% flat** regardless of the moisture content.

### + SIMPLE

- **One single clip-on fitting** to be attached
- Easy to maintain

### + COMFORT

- Acoustic absorption:  $\alpha_w = 1$
- Thermal resistance: **R = 1.14 m<sup>2</sup> K/W (40 mm)**

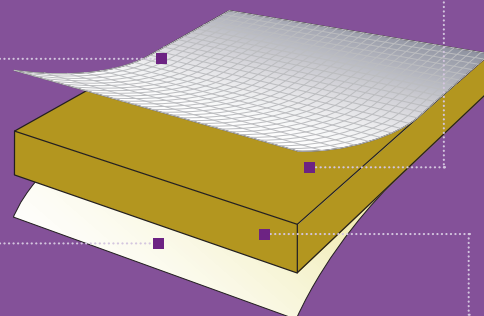
<sup>(1)</sup> See reference test report

<sup>(2)</sup> See classification report



Decorative white or coloured glass fibre veil, reinforced by a grid.

High density rock wool panel, 22 or 40 mm



Natural glass fibre veil on reverse side

A EDGES

A edges

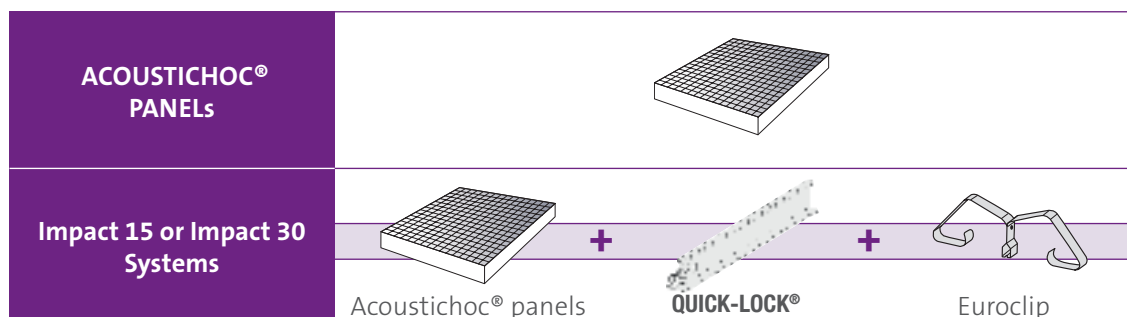
Acoustichoc®

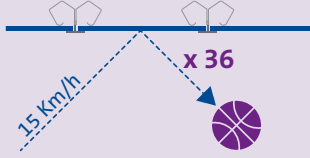
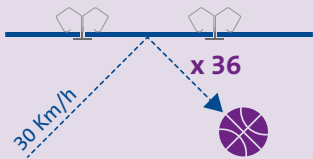
# ACOUSTICHOC®

## + SAFE

- **Impact resistance.**

- Acoustichoc® ceilings are especially suitable for premises subjected to repeated impacts: **In accordance with standard NF EN 13964 - Annex D, Impact 15 and Impact 30 systems** (Acoustichoc® panels + Clip-on T24 - T35 **QUICK-LOCK®** framework + Euroclip) resist **impacts of from 15 to 30 km/h.**



Impact 15: for moderate impacts	Impact 30: for heavy impacts
<p>Workshops, recreation rooms, day nurseries, changing rooms, fitness halls, etc.</p>  <p>Withstands more than 36 throws of a hard ball at a speed of 15 km/h<sup>(1)</sup></p>	<p>Gymnasia, sports complexes, ice rinks, etc.</p>  <p>Withstands more than 36 throws of a hard ball at a speed of 30 km/h<sup>(1)</sup>.</p>

- Acoustichoc® panels used on their own are especially suited to premises requiring a lower impact resistance or else a high maintenance frequency thanks to their **reinforced exposed veils**.

- **Fire resistance.**

- Acoustichoc® ceilings have the best possible classification in terms of fire resistance: **A1 for colours and A2-s1, d0 for white.**

- **Fire resistance.**

- Acoustichoc® ceilings connected to **QUICK-LOCK®** frameworks have a fire resistance of:  **REI 30<sup>(2)</sup>** and  **SF 30<sup>(3)</sup>** in accordance with the Belgian standard **NBN 713-020**.

- **Air quality.**

- The ceilings of the Acoustichoc® range are **classified A+.**



- **Resistance to humidity.**

- Acoustichoc® ceilings are **100% flat** regardless of the moisture content, thanks to the intrinsic qualities of Eurocoustic rockwool.

<sup>(1)</sup> Certified performance in accordance with ball test methodology by the laboratories of MFPA Leipzig GmbH, Germany

<sup>(2)</sup> See reference test report

<sup>(3)</sup> See classification report

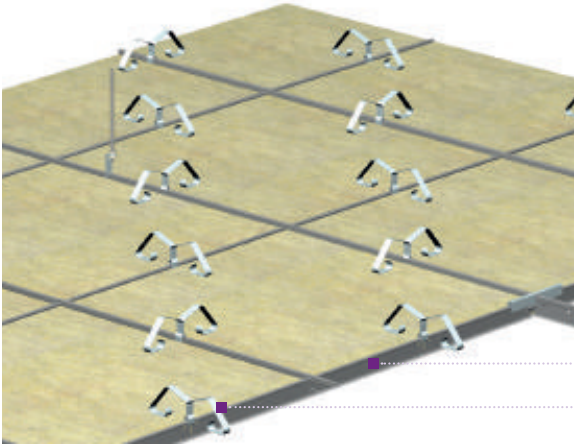
## + SIMPLE

- **Easy-to-install ceilings.**



Acoustichoc® panels are easy to install: **a single clip-on fitting has to be attached.** They are rigid, are easily handled and cut with a cutter. **they are laid onto an exposed T15** (22 mm thick, 600 x 600 mm panel) **T24** (22 or 40 mm thick) or **T35** (40 mm thick) framework.

## IMPACT SYSTEMS



- **ACOUSTICHOC® CEILINGS**

### IMPACT 15

**600 x 600 mm and 1200 x 600 x 22 mm**

- T24 bearers positioned every 1200 mm
- 1200 mm spacer perpendicularly every 600 mm
- Spacers of 600 mm to close the 600 mm modules

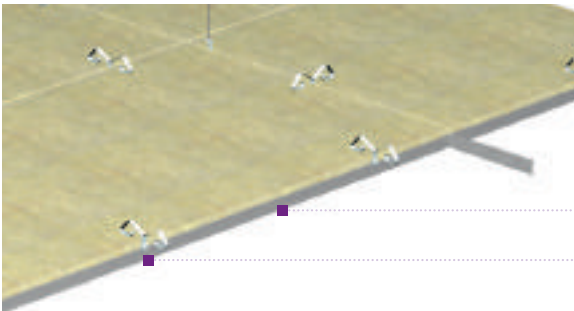
**QUICK-LOCK® clip-on framework**

**6 Euroclips per m<sup>2</sup>\***

**Threaded rod**



\*Typical number of clips per m<sup>2</sup>. To be calculated depending on the design of the building.



- **ACOUSTICHOC® CEILINGS**

### IMPACT 30

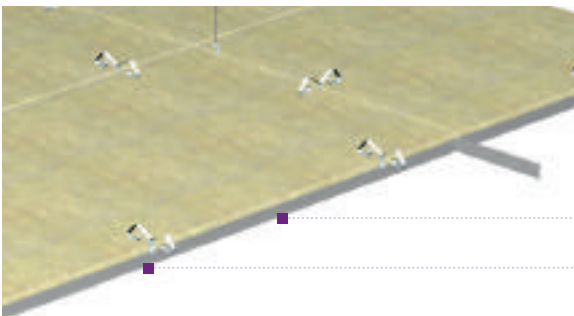
**1200 x 600 x 40 mm**

- T24 bearers positioned every 1200 mm
- 1200 mm spacer perpendicularly every 600 mm

**QUICK-LOCK® clip-on framework**

**5 Euroclips per m<sup>2</sup>\***

\*Typical number of clips per m<sup>2</sup>. To be calculated depending on the design of the building.



- **ACOUSTICHOC® CEILINGS**

### IMPACT 30

**1500 x 1000 x 40 mm**

- T35 bearers positioned every 1500 mm
- 1500 mm spacer perpendicularly every 1000 mm

**QUICK-LOCK® clip-on framework**

**2 Euroclips per m<sup>2</sup>\***

\*Typical number of clips per m<sup>2</sup>. To be calculated depending on the design of the building.

- **Easy-to-maintain ceilings.**




Acoustichoc® ceilings are easy to clean. Their surface can be cleaned with a light brush and/or a vacuum cleaner, thereby contributing to the ceiling's life expectancy.

# ACOUSTICHOC®

## + COMFORT

- **Acoustic absorption.**

 Acoustichoc® ceilings have an  $\alpha_w = 1$  for acoustic absorption.

- **Thermal resistance.**

 Acoustichoc® ceilings have a thermal resistance of: **R = 1.14 m<sup>2</sup> K/W (40 mm)**.

## OPTIONS AND PERFORMANCE

### Dimensions:

Thickness (mm)	22	40
Modules (mm)	600 x 600 1200 x 600	600 x 1200 1000 x 1500

### Colours, décors and finishes:



White



Beige



Blue



Grey



Yellow



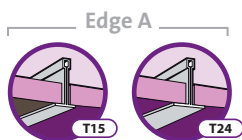
Green



Black

STAY IN TOUCH WITH THE  
EUROCOUSTIC RANGE



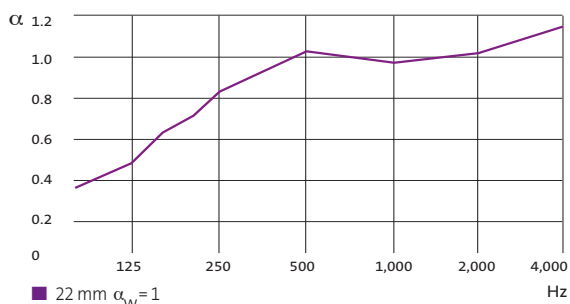


## Acoustichoc® 22 mm

- > Self-supporting rigid rockwool panel.
- > Decorative glass fibre veil reinforced by a grid.
- > Designed to be installed on a T15 or T24 framework.



### Acoustic absorption



### Fire resistance

- In accordance with EN 13501-1:
- Euroclass A1 for the colours.
- Euroclass A2-s1, d0 for white.



### Fire resistance

- Acoustichoc® 600 x 600 x 22 ceilings installed with a T24 framework (see reference test report) meet the requirements of article CO13 of the public building (Établissement Recevant du Public (ERP)) fire regulations.

Classification	Modules (in mm)	Load-bearing structures	Additional insulation
REI 30	600 x 600	Concrete, Steel	No
REI 30	600 x 600	Wood, Concrete, Steel	160 mm Euralène 603 + 0 to 200 mm of IBR

- Acoustichoc® ceilings (1200 x 600 and 600 x 22 mm) fixed to a T24 framework (see technical reference notice) are SF 30 accordance with Belgian standard NBN 713-020.



### Resistance to humidity

- 100% flat regardless of the moisture content



### CE marking

- DoP No.: 0007-06 (white),
- DoP No.: 0007-07 (colours),



### Impact resistance

- Acoustichoc® ceilings, thanks to their reinforced veil are specially designed for areas subject to repeated impacts. By combining Acoustichoc® panels with Impact 15 or 30 systems, they will withstand impacts from 15 to 30 km/h.



### Environment and Health

#### Environment

- Mineral wools are recyclable and the vast majority of production waste is recycled.
- FDES (Environmental and Health Declaration Forms) are available at [www.inies.fr](http://www.inies.fr) for projects following the HQE approach.

- Eurocoustic is certified to ISO 14001:2004 "Environmental Management System".

### Health

- Rockwool panels are made with fibres that are exempt from the carcinogen classification (European Regulation 1272/2008 modified by European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (Group 3).



### Indoor Air Quality

- Acoustichoc® ceilings are classified A+.



### Installation

#### Installing ceilings

- Shall comply with the requirements of French Building Code DTU 58.1 (Document Technique Unifié), French standards P68203-1 and -2 and other DTUs in force, depending on the nature of the rooms.
- Acoustichoc® panels are rigid, are easily handled and cut with a cutter, are fixed onto an exposed T15 framework (600 x 600 x 22 mm panels) or T24 (600 and 1200 x 600 x 22 mm panels).
- It is recommended that air circulation should be provided between the rooms and the plenum to balance the temperature and pressures on each side of the ceiling.



### Maintenance

- The surface of Acoustichoc® ceilings can be cleaned with a light brush and/or a vacuum cleaner, thereby contributing to the ceiling's life expectancy.

### SUMMARY TABLE

Colours	White - Beige - Blue - Grey - Yellow - Green - Black
Edge	A
Frameworks	T15 - T24

### Module dimensions (in mm)

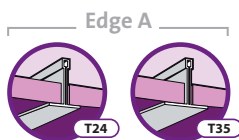
Width	600	600
Length	600	1200
Thickness	22	22

### Packaging

Panels/pack	24	12
m <sup>2</sup> /pack	8.64	8.64
Packs/pallet	18	18
Service class	B	B

All Eurocoustic packs are protected by a shrink-wrapped film. The pallets are banded and must be stored under cover.



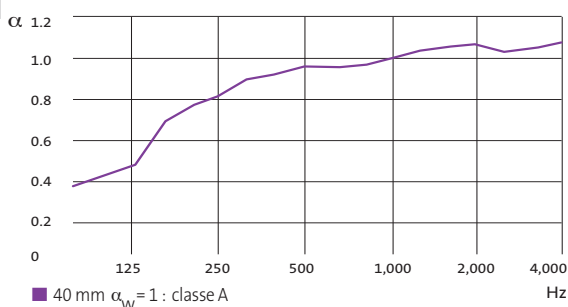


## Acoustichoc® 40 mm

- > Self-supporting rigid rockwool panel.
- > Decorative glass fibre veil reinforced by a grid.
- > Designed to be fixed to a T24 or T35 framework.



### Acoustic absorption



### Fire resistance

- In accordance with EN 13501-1:
  - Euroclass A1 for the colours.
  - Euroclass A2-s1, d0 for white.



### Fire resistance

- Acoustichoc® 600 x 600 x 22 ceilings installed with a T24 framework (see reference test report) meet the requirements of article CO13 of the ERP fire regulations.

Classification	Modules (in mm)	Load-bearing structures	Additional insulation
REI 30	600 x 600	Concrete, Steel	No
REI 30	600 x 600	Wood, Concrete, Steel	160 mm Eurothane 603 + 0 to 200 mm of IBR

- Acoustichoc® ceilings (1200 x 600 x 40 mm) fixed to a T24 framework (see technical reference notice) are SF 30 accordance with Belgian standard NBN 713-020.



### Resistance to humidity

- 100% flat regardless of the moisture content.



### CE marking

- DoP No.: 0007-06 (white),
- DoP No.: 0007-07 (colours),



### Impact resistance

- Acoustichoc® ceilings, thanks to their reinforced veil, are specially designed for areas subject to repeated impacts. By combining Acoustichoc® panels with Impact 15 or 30 systems, they will withstand impacts from 15 to 30 km/h.



### Thermal resistance

- Acoustichoc® ceilings have a thermal resistance of:

Thickness	Thermal resistance
40 mm	R = 1.14 m <sup>2</sup> K/W



### Environment and Health

#### Environment

- Mineral wools are recyclable and the vast majority of production waste is recycled.
- FDES (Environmental and Health Declaration Forms) are available at [www.inies.fr](http://www.inies.fr) for projects following the HQE approach.
- Eurocoustic is certified to ISO 14001:2004 "Environmental Management System".

#### Health

- Rockwool panels are made with fibres that are exempt from the carcinogen classification (European Regulation 1272/2008 modified by European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (Group 3).



### Indoor Air Quality

- Acoustichoc® ceilings are classified A+.



### Installation

#### Installing ceilings

- Shall comply with the requirements of standards DTU 58.1, P 68203-1 and -2 and other DTUs in force depending on the nature of the rooms.
- Acoustichoc® panels are rigid, easily handled and cut with a cutter and are fixed onto an exposed T24 or T35 framework (40 mm thickness).
- It is recommended that air circulation should be provided between the rooms and the plenum to balance the temperature and pressures on each side of the ceiling.



### Cleaning

- The surface of Acoustichoc® ceilings can be cleaned with a light brush and/or a vacuum cleaner, thereby contributing to the ceiling's life expectancy.

## SUMMARY TABLE

Colours	White - Beige- Blue - Grey - Yellow - Green - Black
Edge	A
Frameworks	T24 - T35

### Module dimensions (in mm)

Width	600	1000
Length	1200	1500
Thickness	40	40

### Packaging

Panels/pack	20	4
m <sup>2</sup> /pack	7.20	6
Packs/pallet	12	14
Service class	B	B

All Eurocoustic packs are protected by a shrink-wrapped film. The pallets are banded and must be stored under cover.





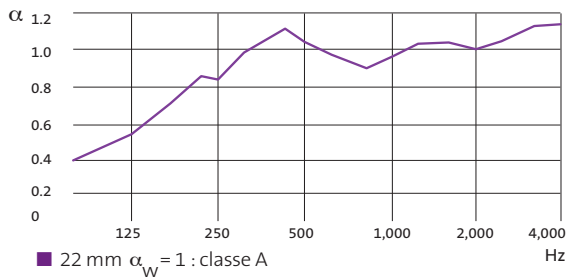


## Acoustichoc® Impact 15

- > System made up of Acoustichoc® 600 x 600 mm panels, **QUICK-LOCK®** Clip-On frameworks and anti-lift clips.
- > Designed to be fixed to a **QUICK-LOCK®** exposed T24 framework.



### Acoustic absorption



### Fire resistance

- In accordance with EN 13501-1:
- Euroclass A1 for the colours.
  - Euroclass A2-s1, d0 for white.



### Resistance to humidity

100% flat regardless of the moisture content.



### CE marking

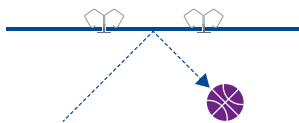
- DoP No.: 0007-06 for white.
- DoP No.: 0007-07 for the colours.



### Impact resistance

For moderate impacts:

- Class 3A: Certified performance in accordance with ball test methodology by the laboratories of MFPA Leipzig GmbH, Germany, to EN 13964 – Annex D.



Withstands more than 36 throws of a hard ball at a speed of 15 km/h.



### Environment and Health

#### Environment

- Mineral wools are recyclable and the vast majority of production waste is recycled.
- FDES (Environmental and Health Declaration Forms) are available at [www.inies.fr](http://www.inies.fr) for projects following the HQE approach.
- Eurocoustic is certified to ISO 14001:2004 "Environmental Management System".

#### Health

- Rockwool panels are made with fibres that are exempt from the carcinogen classification (European Regulation 1272/2008 modified by European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (Group 3).



### Indoor Air Quality

- Acoustichoc® Impact 15 ceilings are classified A+.



### Installation

- Shall comply with the requirements of standards DTU 58.1, P 68203-1 and -2 and other DTUs in force depending on the nature of the rooms.
- T24 bearers will be laid out in parallel lines 1200 mm apart. Every 600 mm they will have a 1200 mm spacer laid crosswise and a spacer of 600 mm to close the 600 mm modules (+4 Euroclips/panel).
- T24 bearers will be laid out in parallel lines 1200 mm apart. Every 600 mm they will have a 1200 mm spacer laid crosswise.
- It is recommended that air circulation should be provided between the rooms and the plenum to balance the temperature and pressures on each side of the ceiling.

To install an Impact 15 system the following components are needed:

Panels	Euroclips
600 x 600 x 22 mm	6/m <sup>2</sup>
1200 x 600 x 22 mm	5/m <sup>2</sup>

\* Indicative quantity of clips per m<sup>2</sup> to be calculated depending on the building's configuration.



### Cleaning

- The surface of Acoustichoc® ceilings can be cleaned with a light brush and/or a vacuum cleaner, thereby contributing to the ceiling's life expectancy.

### SUMMARY TABLE

	Panels
Colours	White, Beige, Blue, Grey, Yellow, Green, Black
Edge	A
Framework	T24

### Dimensions (in mm)

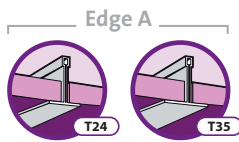
	600	1200
Width	600	1200
Length	600	600
Thickness	22	22

### Packaging

Products	Panels 600 x 600	Panels 1200 x 600	Euroclips
Units/pack	20	10	100
m <sup>2</sup> /pack	8.64	8.64	-
Packs/pallet	18	18	-
Service class	B	B	A

All Eurocoustic packs are protected by a shrink-wrapped film. The pallets are banded and must be stored under cover.

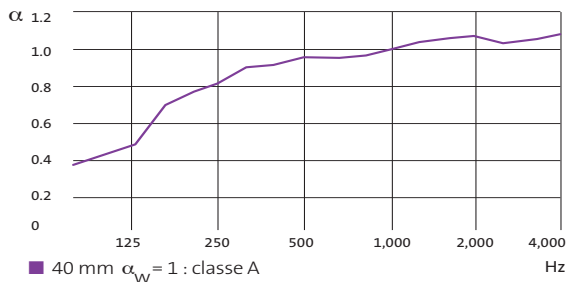




## Acoustichoc® Impact 30

- > System made up of Acoustichoc® 1200 x 600 x 40 mm or 1500 x 1000 x 40 mm panels, **QUICK-LOCK®** frameworks and anti-lift clips.
- > Designed to be fixed to an exposed **QUICK-LOCK®** T24 or T35 framework

### Acoustic absorption



### Fire resistance

- In accordance with EN 13501-1:
- Euroclass A1 for the colours.
- Euroclass A2-s1, d0 for white.

### Resistance to humidity

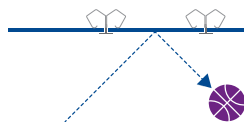
- 100% flat regardless of the moisture content.

### CE marking

- DoP No.: 0007-06 for white.
- DoP No.: 0007-07 for the colours.

### Impact resistance

- For significant impacts:
- Class 2A: Certified performance in accordance with ball test methodology by the laboratories of MFPA Leipzig GmbH, Germany, to EN 13964 – Annex D.



Withstands more than 36 throws of a hard ball at a speed of 30 km/h.

### Environment and Health

- Environment**
- Mineral wools are recyclable and the vast majority of production waste is recycled.
- FDES (Environmental and Health Declaration Forms) are available at [www.inies.fr](http://www.inies.fr) for projects following the HQE approach.
- Eurocoustic is certified to ISO 14001:2004 “Environmental Management System”.

- Health**
- Rockwool panels are made with fibres that are exempt from the carcinogen classification (European Regulation 1272/2008 modified by European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (Group 3).

### Interior Air Quality

- Acoustichoc® Impact 30 ceilings are classified A+.



### Installation

- Shall comply with the requirements of standards DTU 58.1, P 68203-1 and -2 and other DTUs in force depending on the nature of the rooms.

#### Acoustichoc® Impact 30 ceiling: 1200 x 600 x 40 mm

- T24 bearers will be laid out in parallel lines 1200 mm apart. Every 600 mm they will have a 1200 mm spacer laid crosswise.

#### Acoustichoc® Impact 30 ceiling: 1500 x 1000 x 40 mm

- T35 bearers will be laid out in parallel lines 1500 mm apart. Every 1000 mm they will have a 1500 mm spacer laid crosswise.



To install an Impact 30 system the following components are needed per m<sup>2</sup>:

Panels	Euroclips
600 x 1200 x 40 mm	5/m <sup>2</sup>
1000 x 1500 x 40 mm	2/m <sup>2</sup>

\* Indicative quantity of clips per m<sup>2</sup> to be calculated depending on the building's configuration.

### Cleaning

- The surface of Acoustichoc® ceilings can be cleaned with a light brush and/or a vacuum cleaner, thereby contributing to the ceiling's life expectancy.

### SUMMARY TABLE

	Panels
Colour	White, Beige, Blue, Grey, Yellow, Green, Black
Edge	A
Frameworks	T24 or T35

### Dimensions (in mm)

	600	1000
Width	600	1000
Length	1200	1500
Thickness	40	40

### Packaging

Products	Panels 1200 x 600	Panels 1000 x 1500	Euroclips
Units/pack	10	4	100
m <sup>2</sup> /pack	7.20	6	-
Packs/pallet	12	12	-
Service class	B	B	A

All Eurocoustic packs are protected by a shrink-wrapped film. The pallets are banded and must be stored under cover.





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