

TONGA®

ULTRA CLEAN
&
ULTRA CLEAN HP



Acoustic ceilings
for hygiene

PRODUCT FEATURES



6 cleaning methods



Acoustic absorption



Suitable for rooms with
health risks

TONGA® ULTRA CLEAN & ULTRA CLEAN HP

Acoustic ceilings for hygiene

The Tonga® Ultra Clean and Tonga® Ultra Clean HP ceilings are particularly suitable for rooms with high health risks thanks to their ISO 4 classification and their ability to block fungal growth.

REGULAR MAINTENANCE

Basic and regular cleaning of a room

Mild methods:
Sponge/Steam

TONGA® ULTRA CLEAN

INTENSIVE MAINTENANCE

More exhaustive cleaning of a room

More intense methods:
High-pressure cleaning

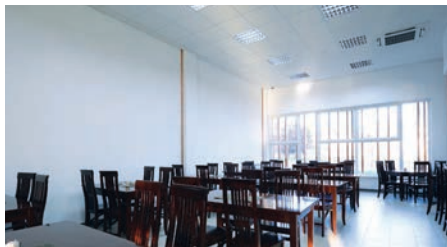
TONGA® ULTRA CLEAN HP

2 MAINTENANCE REQUIREMENTS: 2 PRODUCTS

ROOMS WITH
FREQUENT
ACCESS
TO PLENUM



COLLECTIVE
CATERING
AREAS



WET ROOMS



KITCHENS



LABORATORIES







TONGA® ULTRA CLEAN & ULTRA CLEAN HP

The Tonga® Ultra Clean and Tonga® Ultra Clean HP ceilings provide an acoustic solution to the requirements of such specific areas, for easier to maintain, safer and longer lasting ceilings.

INCREASED CLEANLINESS

- Cleaning methods tested by an independent laboratory

-  - Compressed air
-  - Wet sponge with or without detergent
-  - Dry or wet steam + dry cloth
-  - High-pressure cleaning

INCREASED SAFETY

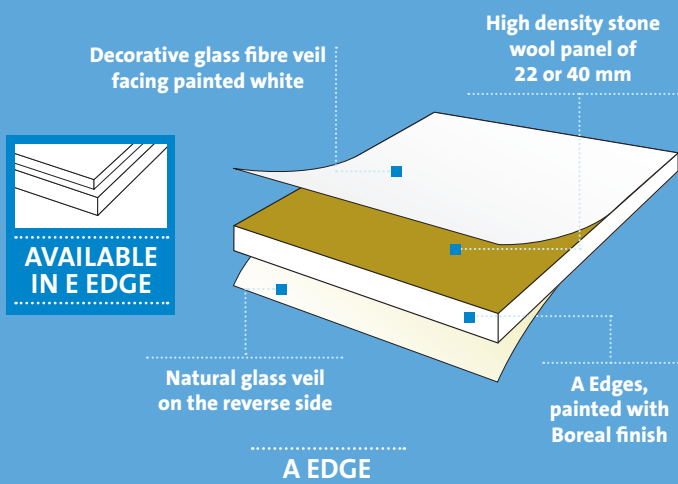
- Fire resistance: **A1** - Tonga® Ultra Clean
- Fire resistance:  **REI 30** -  **SF 30**
- Control of airborne particles: **ISO 4**
- No fungal development: **Degree 0**
- **Guarantee 15 years:** Tonga® Ultra Clean + **QUICK-LOCK®** grids.

INCREASED COMFORT

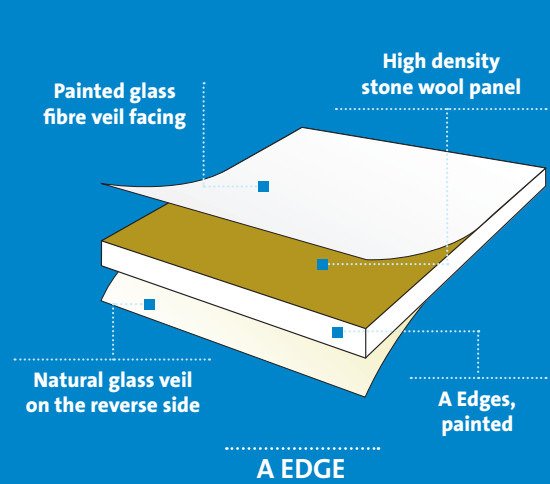
- Acoustic absorption: $\alpha_w = 1$ (A Edge)
- Light reflection: **> 89%** Tonga® Ultra Clean



Tonga® Ultra Clean



Tonga® Ultra Clean HP



TONGA® ULTRA CLEAN & ULTRA CLEAN HP

INCREASED CLEANLINESS

- Clean and easily maintained ceilings.

- 6 cleaning methods tested by an independent laboratory



- **Increased resistance to manipulation** due to its high density stone wool panel and its easy-to-clean finish.

+ SAFETY

• FIRE PROTECTION

		TONGA® ULTRA CLEAN	TONGA® ULTRA CLEAN HP
Reaction to fire		A1	A2-s1, d0
Fire resistance with QUICK-LOCK® grids		REI 30 ⁽¹⁾ SF 30 ⁽²⁾	REI 30 ⁽¹⁾ SF 30 ⁽²⁾

• CONTROL OF PARTICLES

Control of airborne particles		ISO 4	ISO 4
Resistance to fungi		Degree 0 No fungal growth	Degree 0* No fungal growth
Resistance to humidity		100% flat	100% flat

• COMFORT

Acoustic		$\alpha_w = 1$ for A edge and $\alpha_w = 0.90$ for E edge	$\alpha_w = 1$
Light reflection		> 89%	> 84%**

⁽¹⁾ See reference test report

⁽²⁾ See classification report

* According to method A of the norm

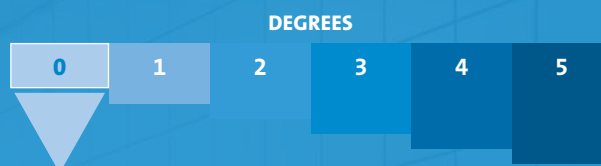
** White facing reflection



RESISTANCE TO FUNGI: DEGREE 0

Determines the resistance of the product to the development of micro-organisms.

The lower the index, the more resistant the ceiling is to fungal growth.



Tonga® Ultra Clean and Tonga® Ultra Clean HP:
Degree 0, no fungal growth.



CONTROL OF AIRBORNE PARTICLES ISO 4

Determines the concentration of particles emitted by the ceiling into the room.

The lower the ISO index, the less the ceiling pollutes.



Tonga® Ultra Clean and Tonga® Ultra Clean HP:
ISO 4.

Guarantee

Saint-Gobain Eurocoustic guarantees its complete system for 15 years:
Tonga® Ultra Clean ceiling tiles + QUICK-LOCK® grids.

Garantie

15

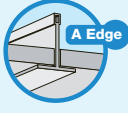

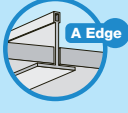



ans/years

Warranty

TONGA® ULTRA CLEAN & ULTRA CLEAN HP

THE CHOICE AND THE PERFORMANCES

Dimensions, colours and finishes:

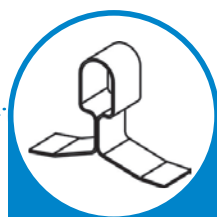
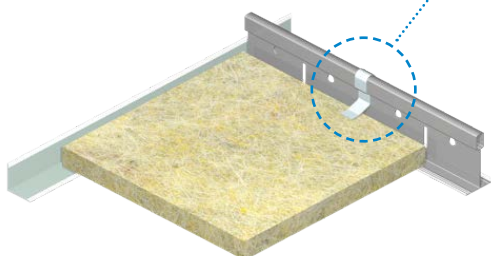
	TONGA® ULTRA CLEAN		TONGA® ULTRA CLEAN HP	
				
Thickness (mm)	22	40	20	22
Modules (mm)	600 x 600 1200 x 600	600 x 600 1200 x 600	600 x 600 1200 x 600 1200 x 1200	600 x 600 1200 x 600
Colours	White	White	White	White
Finishes	 Boreal	 Boreal	 Boreal	White veil

- Pot of paint available on request to cover the edge trimmings

EUROCLIP HP FOR TONGA® ULTRA CLEAN HP

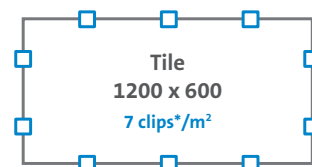
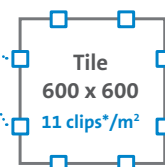
The Euroclip HP maintains your tiles in place on the grids to enable you to clean your ceilings without having to remove the tiles.

It is specially designed to withstand a wet environment.



EUROCLIP HP
100 units/pack

Installing Euroclip HP:



* Estimate to be validated in function of the room.

Installation advice:

- Apply a silicon seal on the tile and frame, to avoid the risk of mould.
- Use a Corro+ L-shaped angle.
- Do not place clips at the angles.

A CONSISTENTLY REACTIVE SERVICE

Eurocoustic, an unequalled quality of service.

The minimum order is one pack, to satisfy your needs as closely as possible.

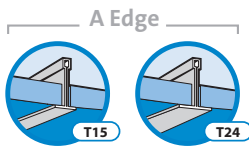


Remain connected with
TONGA® ULTRA CLEAN & ULTRA CLEAN HP

VIEW THE TONGA® ULTRA CLEAN
& ULTRA CLEAN HP VIDEO ON

You **Tube** OR



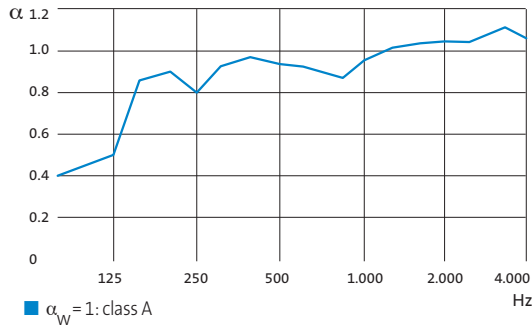


Tonga® Ultra Clean A 22 mm

- > Rigid stone wool self-supporting panel.
- > Boreal finish.
- > Reinforced by a natural glass fibre veil on the reverse side.



Acoustic absorption



Light

- **Light reflection:** The light reflection coefficient is greater than 89 %.
- **White:** L = 95.6% - according to the NF EN ISO 11664-4 standard.
- **Shine:** Matt - The shine level is 2.54% at an angle of 85° - according to NF EN ISO 2813 standard.
- **Light diffusion:** > 99 % of the light is diffused.



Fire reaction

- In accordance with EN 13501-1: Euroclass A1.



Fire resistance

- **FR** Tonga® Ultra Clean A 22 mm 600 x 600 mm ceilings installed on a T24 **QUICK-LOCK®** grids (see reference test report) satisfy the requirements of clause CO13 in the French fire regulations for ERP*.

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

- **FR** Tonga® Ultra Clean A 22 mm (600 x 600 and 1200 x 600mm) ceilings installed on a T24 **QUICK-LOCK®** grids (see reference classification report) are in line with the standard NBN 713-020.

Thermal-acoustic insulation

- For an increase in the thermal-acoustic insulation, the laying of an insulator of 0 to 200 mm of IBR (max R ≈ 5m² K/W) bare or with aluminium vapour barrier, is recommended.

* ERP, Buildings open to the public.



Resistance to humidity

- No sagging regardless of the moisture content.



Environment and health

Environment

- Mineral wool is recyclable and the production scraps are mostly recycled.
- Environmental and Sanitary Declaration Sheet are available at www.inies.fr.
- Eurocoustic is certified ISO 14001: 2004 "Environmental Management System".

Health

- The stone wool panels are manufactured with fibres exempt from the carcinogenic classification (European Regulation 1272/2008 modified by the European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (group 3).



CE Marking

- DoP No: 0007-04.



Indoor air quality

- Tonga® Ultra Clean A 22 mm ceilings are classified A.



Control of airborne particles

- Tonga® Ultra Clean A 22 mm ceilings are classified ISO 4 according to Standard ISO 14 644.1.



Resistance to fungi

- Tonga® Ultra Clean A 22 mm ceilings do not allow the development of fungi: Degree 0 according to standard ISO 846.



Installation

- Shall comply with the requirements of standard in force depending on the nature of the rooms.
- 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.
- Tonga® Ultra Clean A 22 mm ceilings are placed on a T15 - T24 frame.
- Tiles are easily cut, quietly and without dust using a cutter.



Cleaning

- The painted surface of Tonga® Ultra Clean A 22 mm ceilings does not retain dust, which makes it easier to clean.
- Tonga® Ultra Clean A 22 mm ceilings can be cleaned with a lightweight brush, vacuum cleaner, compressed air, wet sponge (with or without detergent), wet or dry steam + dry cloth.
- Appropriate cleaning will help lengthen the life duration of Tonga® Ultra Clean A 22 mm ceilings.

AT A GLANCE

Colours	Boreal finish, white	
Edges	A	
Grids	T15 - T24	

Module size (in mm)

Width	600	600
Length	600	1200
Thickness	22	22

Packaging

Panels/Pack	24	12
m ² /Pack	8.64	8.64
Packs/Pallet	16	16
Service class	A	B

Tonga® Ultra Clean A 22 mm ceilings are packaged in 6-face boxes. All Eurocoustic packs are shrink-wrapped.



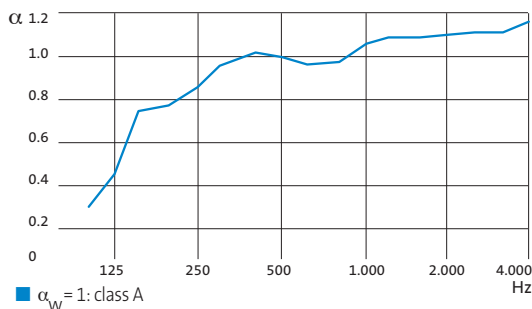


Tonga® Ultra Clean A 40 mm

- > Rigid stone wool self-supporting panel.
- > Boreal finish.
- > Reinforced by a natural glass fibre veil on the reverse side.



Acoustic absorption



Light

- **Light reflection:** The light reflection coefficient is greater than 89%.
- **White:** L = 95.6% - according to the NF EN ISO 11664-4 standard.
- **Shine:** Matt - The shine level is 2.5% at an angle of 85° - according to NF EN ISO 2813 standard.
- **Light diffusion:** > 99 % of the light is diffused.



Fire reaction

- In accordance with EN 13501-1: Euroclass A1.



Fire resistance

- **FR** Tonga® Ultra Clean A 40 mm 600 x 600 mm ceilings installed on a T24 **QUICK-LOCK®** grids (see reference test report) satisfy the requirements of clause CO13 in the French fire regulations for ERP*.

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 Eurolène® 603 + 0 to 200 mm of IBR

- **FR** Tonga® Ultra Clean A 40 mm (600 x 600 and 1200 x 600mm) ceilings installed on a T24 **QUICK-LOCK®** grids (see reference classification report) are in line with the standard NBN 713-020.

Thermal-acoustic insulation

- For an increase in the thermal-acoustic insulation, the laying of an insulator of 0 to 200 mm of IBR (max R ≈ 5m² K/W) bare or with aluminium vapour barrier, is recommended.

*ERP, Buildings open to the public.



Resistance to humidity

- No sagging regardless of the moisture content.



Thermal resistance

- Tonga® Ultra Clean A 40 mm ceilings benefit from a thermal resistance of:

Thickness	Thermal resistance
40 mm	1.14 m ² K/W



Environment and health

Environment

- Mineral wools are recyclable and the vast majority of production waste is recycled.

- Environmental and Sanitary Declaration Sheet are available at www.inies.fr.

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

Health

- Stone wool panels are manufactured with fibres exonerated 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).



CE Marking

- DoP No: 0007-04.



Indoor air quality

- Tonga® Ultra Clean A 40 mm ceilings are classified A.



Control of airborne particles

- Tonga® Ultra Clean A 40 mm ceilings are classified ISO 4 according to Standard ISO 14 644.1.



Resistance to fungi

- Tonga® Ultra Clean A 40 mm ceilings do not allow the development of fungi: Degree 0 according to standard ISO 846.



Installation

- Shall comply with the requirements of standard in force depending on the nature of the rooms.
- 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.
- Tonga® Ultra Clean A 40 mm ceilings are placed on a T24 frame.
- Tiles are cut, quietly and without dust using a cutter.



Cleaning

- The painted surface of Tonga® Ultra Clean A 40 mm ceilings does not retain dust, which makes it easier to clean.
- Tonga® Ultra Clean A 40 mm ceilings can be cleaned with a lightweight brush, vacuum cleaner, compressed air, wet sponge (with or without detergent), wet or dry steam + dry cloth.
- Appropriate cleaning will help lengthen the life duration of Tonga® Ultra Clean A 40 mm ceilings.

AT A GLANCE

Colours	Boreal finish, white	
Edges	A	
Grids	T24	

Module size (in mm)

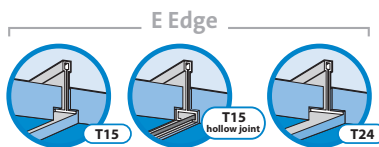
Width	600	600
Length	600	1200
Thickness	40	40

Packaging

Panels/Pack	12	6
m ² /Pack	4.32	4.32
Packs/Pallet	18	18
Service class	A	B

Tonga® Ultra Clean A 40 mm ceilings are packaged in 6-face boxes. All Eurocoustic packs are shrink-wrapped.



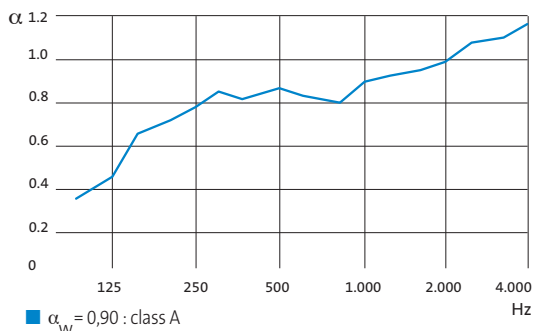


Tonga® Ultra Clean E 20 mm

- > Rigid stone wool self-supporting panel.
- > Boreal finish.
- > Reinforced by a natural glass fibre veil on the reverse side.



Acoustic absorption



Light

- **Light reflection:** The light reflection coefficient is greater than 89 %.
- **White:** L = 95.6% - according to the NF EN ISO 11664-4 standard.
- **Shine:** Matt - The shine level is 2.54% at an angle of 85° - according to NF EN ISO 2813 standard.
- **Light diffusion:** > 99 % of the light is diffused.



Fire reaction

- In accordance with EN 13501-1: Euroclass A1.



Fire resistance

- **Tonga® Ultra Clean E 20 mm 600 x 600 mm ceilings** installed on a T24 **QUICK-LOCK®** grids (see reference test report) satisfy the requirements of clause CO13 in the French fire regulations for ERP*.

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

- **Tonga® Ultra Clean E 20 mm (600 x 600 and 1200 x 600mm) ceilings** installed on a T24 **QUICK-LOCK®** grids (see reference classification report) are in line with the standard NBN 713-020.

Thermal-acoustic insulation

- For an increase in the thermal-acoustic insulation, the laying of an insulator of 0 to 200 mm of IBR (max R ≈ 5m² K/W) bare or with aluminium vapour barrier, is recommended.

* ERP, Buildings open to the public.



Resistance to humidity

- No sagging regardless of the moisture content.



Environment and health

Environment

- Mineral wools are recyclable and the vast majority of production waste is recycled.
- Environmental and Sanitary Declaration Sheet are available at www.inies.fr.
- Eurocoustic is certified ISO 14001: 2004 "Environmental Management System".

Health

- Stone wool panels are manufactured with fibres exonerated 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).



CE Marking

- DoP No: 0007-04.



Indoor air quality

- Tonga® Ultra Clean E 20 mm ceilings are classified A.



Control of airborne particles

- Tonga® Ultra Clean E 20 mm ceilings are classified ISO 4 according to Standard ISO 14 644.1.



Resistance to fungi

- Tonga® Ultra Clean E 20 mm ceilings do not allow the development of fungi: Degree 0 according to standard ISO 846.



Installation

- Shall comply with the requirements of standard in force depending on the nature of the rooms.
- 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.
- Tonga® Ultra Clean E 20 mm ceilings are placed on a T15 - T15 hollow joint - T24 frame.
- Tiles are cut, quietly and without dust using a cutter.



Cleaning

- The painted surface of Tonga® Ultra Clean E 20 mm ceilings does not retain dust, which makes it easier to clean.
- Tonga® Ultra Clean E 20 mm ceilings can be cleaned with a lightweight brush, vacuum cleaner, compressed air, wet sponge (with or without detergent), wet or dry steam + dry cloth.
- Appropriate cleaning will help lengthen Tonga® Ultra Clean E 20 mm ceilings life duration.

AT A GLANCE

Colours	Boreal finish, white	
Edges	E	
Grids	T15 - T15 hollow joint	T24

Module size (in mm)

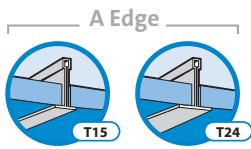
Width	600	600	1200
Length	600	1200	1200
Thickness	20	20	20

Packaging

Panels/Pack	20	10	6
m²/Pack	7.20	7.20	8.64
Packs/Pallet	20	20	18
Service class	A	C	C

Tonga® Ultra Clean E 20 mm ceilings are packaged in 6-face boxes. All Eurocoustic packs are shrink-wrapped.





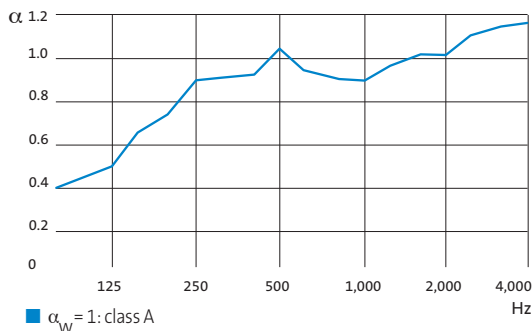
Tonga® Ultra Clean HP

A 22 mm

- > Self-supporting rigid stone wool panel surfaced with a white facing on the visible side.
- > Reinforced by a natural glass fibre veil on the reverse side.
- > Closed edges.



Acoustic absorption



Light

- **Light reflection:** The light reflection coefficient is greater than 84 %.
- **White:** L = 93.72% - according to the NF EN ISO 11664-4 standard.
- **Shine:** The shine level is 0.25% - at an angle of 85° according to NF EN ISO 2813 standard.
- **Light diffusion:** 99,80 % of the light is diffused.



Fire reaction

- In accordance with EN 13501-1: Euroclass A2-s1, d0.



Fire resistance

- **Tonga® Ultra Clean HPA 22 mm ceilings 600 x 600 mm** installed on a T24 **QUICK-LOCK®** grids (see reference test report) satisfy the requirements of clause CO13 in the French fire regulations for ERP*.

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

- **Tonga® Ultra Clean A 22 mm ceilings (600 x 600 and 1200 x 600mm)** ceilings installed on a T24 **QUICK-LOCK®** grids (see reference classification report) are in line with the standard NBN 713-020.

Thermal-acoustic insulation

- For an increase in the thermal-acoustic insulation, the laying of an insulator of 0 to 200 mm of IBR (max R ≈ 5m² K/W) bare or with aluminium vapour barrier, is recommended.

*ERP, Buildings open to the public.



Resistance to humidity

- No sagging, humidity resistant.



Environment and health

Environment

- Mineral wool is recyclable and the vast majority of production waste is recycled.
- Environmental and Sanitary Declaration Sheet are available at www.inies.fr.
- Eurocoustic is certified ISO 14001: 2004 "Environmental Management System".

Health

- The stone wool panels are manufactured with fibres exempt from the carcinogenic classification (European Regulation 1272/2008 modified by the European Regulation 790/2009). According to the International Cancer Research Centre, mineral wool cannot be classified for its carcinogenicity for Humans (group 3).



CE marking

- DoP No: 0007-15.



Indoor air quality

- Ceilings Tonga® Ultra Clean HP A 22 mm are classified A+.



Control of airborne particles

- Tonga® Ultra Clean HP A 22 mm ceilings are classified ISO 4 according to Standard ISO 14 644-1.



Resistance to fungi

- Tonga® Ultra Clean HP A 22 mm ceilings do not allow the development of fungi: Degree 0 according to Standard ISO 846 - Method A.



Installation

- Shall comply with the requirements of standard in force depending on the nature of the rooms.
- Air circulation between the spaces and the plenum is recommended to balance temperature and pressure on both sides of the ceiling.
- Tonga® Ultra Clean HP A 22 ceilings are installed on T15 - T24 grids.
- The panels must be installed in a grids system with a silicon seal and must be maintained with anti-lift clips such as Euroclip HP.
- Tiles are cut without noise or dust using a cutter.



Cleaning

- Tonga Ultra Clean HP A 22 painted surface does not retain dust, which makes it easier to clean.
- Tonga® Ultra Clean HP A22 ceilings may be cleaned using high pressure cleaning (up to 100 bar) at a rate of 1 cleaning per month during 10 years. Refer to producer recommendations for cleaning conditions. The panels must then be maintained on the frame with clips: Euroclip HP.
- Other possible maintenance methods: a lightweight brush, vacuum cleaner, compressed air, wet sponge (with or without detergent), wet or dry steam + dry cloth.
- Appropriate cleaning will help lengthen Tonga® Ultra Clean HP A 22 ceiling's life duration.

AT A GLANCE

Colours	White
Edges	A
Grids	T15 - T24

Module size (in mm)

Width	600	600
Length	600	1200
Thickness	22	22

Packaging

Panels/Pack	24	12
m²/Pack	8.64	8.64
Packs/Pallet	16	16
Service class	A	C

Tonga® Ultra Clean HP A 22 mm ceilings are packaged in 6-face boxes. All Eurocoustic packs are shrink-wrapped.



Export Commercial **TEAM**

FRENCH OVERSEAS DEPARTEMENTS AND TERRITORIES

	CEILING TILES AND FRAMES
Sales Manager	CUSTOMER SERVICE
Etienne ALEXANDRE Tel.: +(32) 479 82 97 29	Jordan BISSERIER Tel.: +33 (0)1 56 37 03 82 Fax.: +33 (0)1 56 37 02 69

MAGHREB

	CEILING TILES AND FRAMES
Sales Manager	CUSTOMER SERVICE
Etienne ALEXANDRE Tel.: +(32) 479 82 97 29	Loubna NEFARI Tel.: +33 (0)1 56 37 03 88 Fax: +33 (0)1 56 37 02 69

ASIA - MIDDLE EAST SOUTH-AFRICA ICELAND

	CEILING TILES AND FRAMES
Sales Manager	CUSTOMER SERVICE
Jérémy SIMON Tel.: +(33) 6 87 72 85 74	Christine PAILLET Tel.: +33 (0)1 56 37 02 42 Fax: +33 (0)1 56 37 02 69

TECHNICAL ASSISTANCE

Delphine DRAY
Tel.: +(33) 1 56 37 03 87
Fax.: + (33) 1 56 37 02 69
delphine.dray@saint-gobain.com

