



TONGA®
30TH
BIRTHDAY!

NEW
TONGA®



**BETTER,
SAFER, EASIER**



FORMAN
BUILDING SYSTEMS

For more information or sales enquiries:

0800 45 4000
www.forman.co.nz

eurocoustic
SAINT-GOBAIN

TONGA®

30TH BIRTHDAY !

This year, **Eurocoustic**, producer of stone wool since **1979**, celebrates **the 30th anniversary of its best seller product Tonga®**. For the last 30 years, **Tonga®** ceilings have been well-known and well-established products, recognised for their acoustic performance and aesthetic properties.

Millions of square meters have been sold since the beginning, as much as twice the earth's circumference and it's just the beginning.

To celebrate this anniversary, **Eurocoustic** R&D department has developed the new **Tonga®** range, adapted to all your projects, with higher performances.

Better, safer, easier, the new **Tonga®** range is the answer to all your requirements and gives you a total freedom of creation.

Lets's discover the new Tonga® range!



BETTER

Comfort

- Acoustic absorption $\alpha_w 1^*$ that gives priority to the end-user comfort.
- Additional natural light input of + 6% compared to standard ceilings for more luminosity.

* E-edge = $\alpha_w 0.95$

Value

- A 11% reduction of artificial light needs due to its new technical veil and its light reflection power.

Sustainable

- 100% humidity resistant
- The first ceiling range with an A+ French sanitary classification for Indoor Air Quality.

SAFER

- The best Euroclassification (fire reaction) **A1** for white, A2-s1, d0 for Eurocolors and patterns.
- A 15 years' warranty on full system (ceiling tiles and grids). Refer to Warranty conditions



The new Tonga®: innovation from Eurocoustic

A new innovative surface

- Additional natural light input: + 6%
- Electric lighting needs: - 11%
- No added formaldehyde

A new high performance board

- Acoustic absorption: $\alpha_w 1$
- Euroclass (fire reaction): **A1** for whites, **A2-s1, d0** for Eurocolors and patterns
- **Tonga®** achieves the lowest VOC emission rating therefore contributing to a safer interior environment

MADE IN FRANCE

EASIER

Freedom of choice

More than **700**
aesthetic possibilities

There is one **Tonga®** solution for each of your project:

- E-edge (white)
- A-edge (white, Eurocolors and patterns)
- 7 different sizes
- 61 colours and patterns

BETTER

+ comfort
+ value
+ safety
+ sustainable

Eurocoustic places R&D at the center of its development and contributes to sustainable projects adapted to end-user needs. The new **Tonga®** provides you with even more comfort, safety and performances.

Comfort

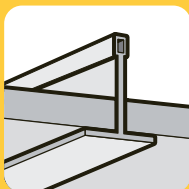


Acoustic absorption

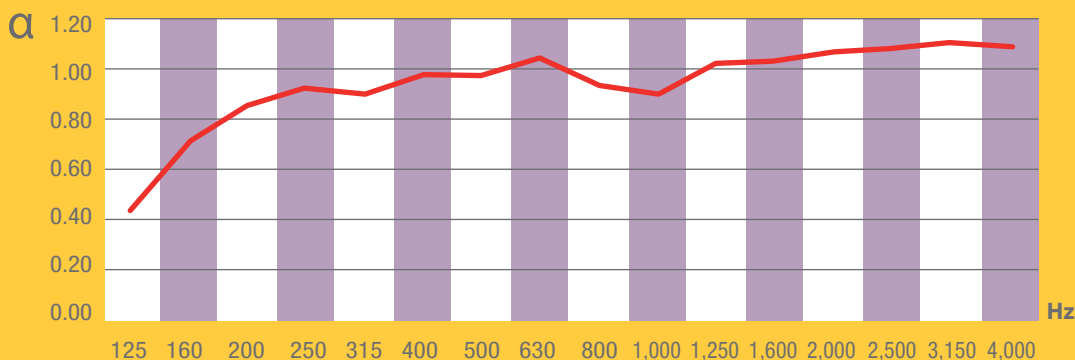
Principles of sound absorption: the incidental sound energy sustained by walls is split into transmitted, reflective and absorbed energy. According to the nature of the walls of the premises, it is possible to influence the quantity of absorbed and reflected energy. The absorption capacity of a material is estimated with the coefficient of absorption Alpha Sabine by frequency on a scale from 0 to 1 (maximum absorption). The new **Tonga®** range rating reaches $\alpha_w 1$ and provides a better acoustic comfort.

*E-edge = $\alpha_w 0.95$

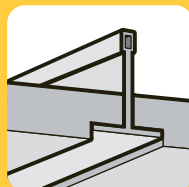
Tonga® A 22



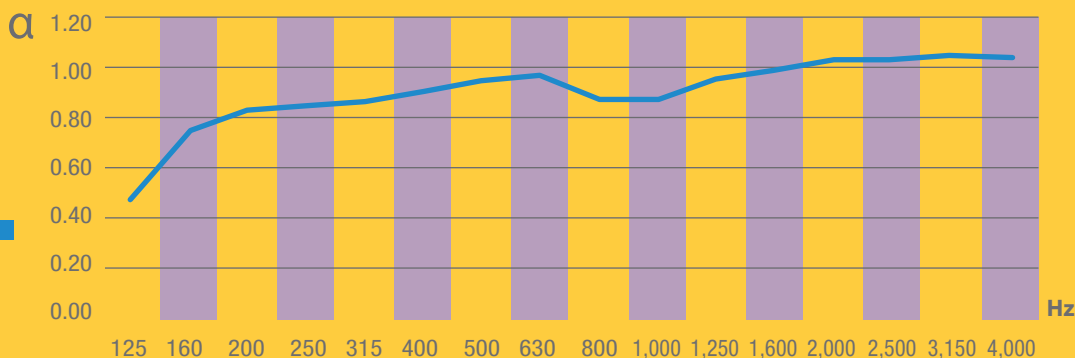
A-edge $\alpha_w 1$



Tonga® E 20



E-edge $\alpha_w 0.95$

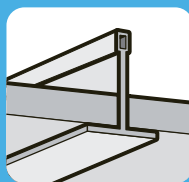


Lateral sound insulation

Lateral sound insulation is the reduction of the sound transmission from one space to another, through walls and suspended ceilings.

The performance of the ceiling's sound insulation is expressed by a unique indication: Dnfw measured in laboratory and expressed in dB. A **Tonga®** Ceiling associated with a Eurocoustic barrier (Acoustipan or Acoustibloc) is a performing solution to reduce the problem of noise pollution between 2 spaces.

Tonga® A 40



A-edge $\alpha_w 1$

Acoustipan
or
Acoustibloc

PRODUCTS	Thickness (mm)	DRAWING	ACOUSTIC BARRIER	Dnfw dB (C ; Ctr)
Tonga®	40		ACOUSTIPAN	39 (-2 ; -7)
Tonga®	40		ACOUSTIBLOC	42 (-1 ; -8)



Additional natural light input

Thanks to their high light reflection rating, **Eurocoustic** ceilings diffuse the natural light they receive and therefore contribute to the natural light input. The average daylight quotient can be increased by **6%***.

The colorimetric index (**L. a. b**) of **Tonga®** is the closest to pure white which improves the quality of the diffused light. That index represents the brightness (in %, from 0 for black to 100 for white); **a** and **b** represent 2 colours spectrum going respectively from green to red and blue to yellow with values in the -120 / +120 range.

*Value based on the study of a typical 20 m² office space.



Thermal

Thickness	Thermal Resistance
20 mm	R = 0.51 m ² K/W
22 mm	R = 0.61 m ² K/W
40 mm	R = 1.14 m ² K/W

Value



Lighting

By reinforcing natural light, **Tonga®** ceilings reduce by **11%*** artificial lighting needs and thus participate in energy saving on lightning.

*Value based on the study of a typical 20 m² office space.

Sustainable



Health and environment

Eurocoustic stone wool panels do not contain any material classified as carcinogenic (European Directive 1272/2008 modified through European Directive (790/2009). According to the International Agency for Research on Cancer, stone wool cannot be classified as regards its carcinogenicity to humans (group 3).



Indoor Air Quality

The new **Tonga®** is the first ceiling range with an A+ French sanitary classification for Indoor Air Quality.



SAFER



Fire reaction

The **Tonga®** stone wood panels have reached the highest performing fire classification:

- White: A1 incombustible
- Colours and patterns: A2-s1, d0



Fire resistance

In case of fire in a public building, **Tonga® A** ceilings can participate to the building resistance and insure maximum safety to the end-user. The **Tonga® A** Range (600 x 600 mm) complies with European norms and standards, French fire regulatory requirements (C013 article), Belgium and Italian standards for supporting structures.

The fire resistance of **Tonga®** ceilings is as follow:

- REI 30 (concrete, steel) **Tonga®** 40 ceilings
- REI 30 (wood, concrete, steel) **Tonga®** 22 ceilings + 160 mm - Eurolène 603
- REI 30 (wood, concrete, steel) **Tonga®** 40 ceilings + 160 mm - Eurolène 603.



Humidity resistant

Tonga® ceilings are non-hydrophilic, they are 100 % rigid and stable no matter the hygrometry level without any sagging.



15 years warranty

You will benefit of a 15 years warranty if you use the complete ceilings system: new **Tonga®** ceiling tiles + new **Quick Lock®** grids.

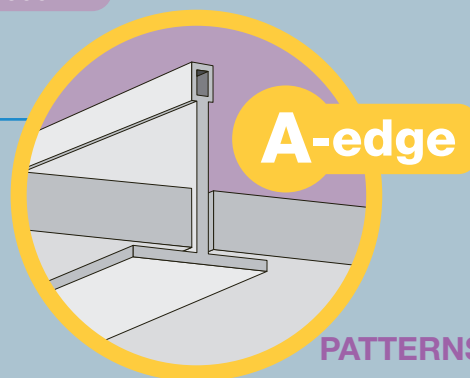
EASIER

Freedom of choice

You are free to choose: edges, sizes, colours and patterns. More than 700 possibilities are available. There is a **Tonga®** solution for each of your project.

Tonga® A-edge range

Tissue	White / Eurocolors		Patterns	
Thicknesses (mm)	22	40	22	40
Sizes (mm)	600 x 600	600 x 600	600 x 600	600 x 600
	1200 x 600	1200 x 600	1200 x 600	1200 x 600
	1200 x 1200			
	1500 x 600	1500 x 600		
	1800 x 600	1800 x 600		
	2000 x 600	2000 x 600		
	2400 x 600	2400 x 600		



Colours and Patterns

EUROCOLORS

082	09					
EC01	EC02	EC03	EC04	EC05	EC06	
EC07	EC08	EC09	EC10	EC11	EC12	EC13
EC14	EC15	EC16	EC17	EC18	EC19	EC20
EC21	EC22	EC23	EC24	EC25	EC26	EC27
EC28	EC29	EC30	EC31	EC32	EC33	
EC34	EC35	EC36	EC37	EC38	EC39	EC40
EC41	EC42	EC43	EC44	EC45	EC46	EC47

PATTERNS

CLOUD

EN48	EN30	EN19
EN44	EN43	

FOAM

EE48	EE30	EE19
EE44	EE43	

ATOLL® CORAL®

EA49	EC49
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Tonga® E-edge range

Tissue

White

Thickness (mm)

20

Sizes (mm)

T15

T24

600 x 600

600 x 600

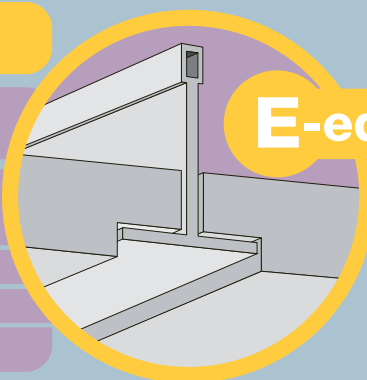
1200 x 600

1200 x 600

1200 x 1200

1200 x 1200

E-edge



Quick-Lock® grids

Recommended to install the new **Tonga®** Range, **Quick-Lock®** grids are available for T15, T24 and T35. By choosing them from the Eurocolors range, you can bring harmony or add some contrast to your project. **Quick-Lock®** grids benefit from a 15 years warranty if used together with **Tonga®** tiles (see warranty conditions).

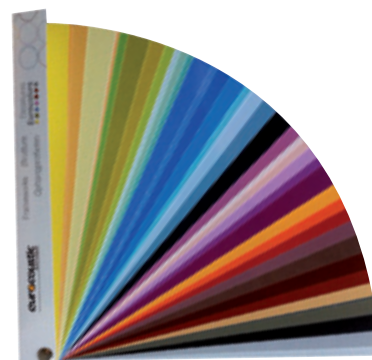
Garantie

15

ans/years

Warranty

On the full system
(tiles and grids and
profiles).



Tonga® ceilings range is easy and quick to install



We recommend air circulation between the room and the plenum in order to balance out any temperature and pressure differences on each side of the ceiling.

- You can cut the tiles with a cutter without efforts, noise and dust.
- Way of fixing for installation are indicated on the back of the tiles.

ALL OVER THE WORLD



- | | | | | |
|---------------------------|--------------------|---------------------|----------------|-----------------------------|
| ① Algeria | ⑨ France | ⑪ Italy | ⑲ Poland | ⑳ Syria |
| ② Australia | ⑩ French Guiana | ⑫ Luxembourg | ⑳ Portugal | ㉑ Thailand |
| ③ Austria | ⑪ French Polynesia | ⑬ Morocco | ㉒ Reunion (la) | ㉓ Tunisia |
| ④ Belgium | ⑫ Greece | ⑭ Martinique | ㉔ Romania | ㉕ United Arab Emirates |
| ⑤ Bulgaria | ⑬ Guadeloupe | ⑮ Netherlands (the) | ㉖ Russia | ㉗ United Kingdom |
| ⑥ Czech Republic | ⑭ Hong-Kong | ⑯ New Caledonia | ㉘ Singapore | ㉙ Western African countries |
| ⑦ Eastern Adriatic Region | ⑮ Hungary | ㉚ New Zealand | ㉙ Slovakia | |
| ⑧ Egypt | ⑯ Iceland | ㉛ Philippines (the) | ㉚ Spain | |

SERVICE CHARTER

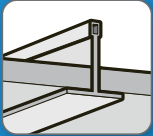
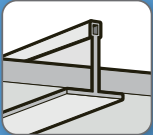
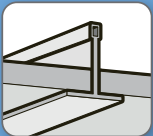
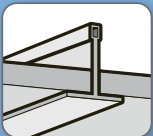
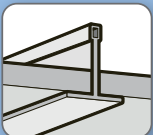
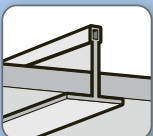
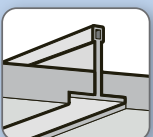
Class A: Production every week

Class B: Production every two weeks

Class C: Please contact us

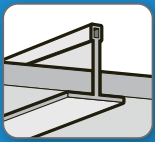
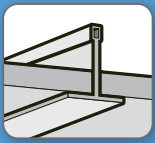
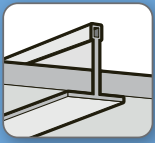
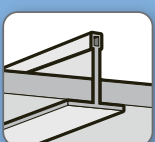
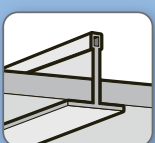
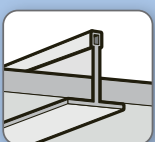


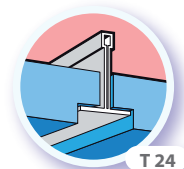
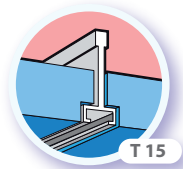
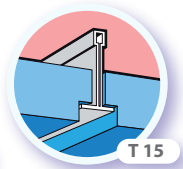
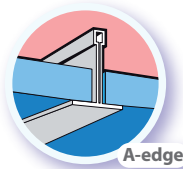
SERVICE CHARTER

	Sizes		Panels/Pack	m ² /pack	Pack/pallet	Pallets/truck	Service class
 Tonga® A 22 White	600 x 600 x 22		24	8.64	18	22	A
	1200 x 600 x 22		12	8.64	18	22	A
	1200 x 1200 x 22		6	8.64	17	22	B
	1500 x 600 x 22		10	9.00	20	17	B
	1800 x 600 x 22		10	10.80	20	14	B
	2000 x 600 x 22		10	12.00	20	13	B
	2400 x 600 x 22		6	8.64	18	10	B
 Tonga® A 22 Eurocolors	600 x 600 x 22		24	8.64	18	22	A
	1200 x 600 x 22		12	8.64	18	22	A
	1200 x 1200 x 22		6	8.64	17	22	B
	1500 x 600 x 22		10	9.00	20	17	B
	1800 x 600 x 22		10	10.80	20	14	B
	2000 x 600 x 22		10	12.00	20	13	B
	2400 x 600 x 22		6	8.64	18	10	B
 Tonga® A 22 Patterns	600 x 600 x 22		24	8.64	18	22	A
	1200 x 600 x 22		12	8.64	18	22	A
 Tonga® A 40 White	600 x 600 x 40		20	7.20	12	22	A
	1200 x 600 x 40		10	7.20	12	22	A
	1500 x 600 x 40		8	7.20	14	17	B
	1800 x 600 x 40		8	8.64	14	14	B
	2000 x 600 x 40		8	9.60	14	13	B
	2400 x 600 x 40		6	8.64	10	10	B
 Tonga® A 40 Eurocolors	600 x 600 x 40		20	7.20	12	22	A
	1200 x 600 x 40		10	7.20	12	22	A
	1500 x 600 x 40		8	7.20	14	17	B
	1800 x 600 x 40		8	8.64	14	14	B
	2000 x 600 x 40		8	9.60	14	13	B
	2400 x 600 x 40		6	8.64	10	10	B
 Tonga® A 40 Patterns	600 x 600 x 40		20	7.20	12	22	A
	1200 x 600 x 40		10	7.20	12	22	A
 Tonga® E 20 White	T15	600 x 600 x 20	20	7.20	20	20	A
		1200 x 600 x 20	10	7.20	20	20	A
		1200 x 1200 x 20	6	8.64	18	20	C
	T24	600 x 600 x 20	20	7.20	20	20	A
		1200 x 600 x 20	10	7.20	20	20	C
		1200 x 1200 x 20	6	8.64	18	20	C

NEW TONGA® RANGE

PERFORMANCES

			Sizes (mm)		Light		
	Edge	Tissue	Thickness	Length x Width	Light reflection	Colorimetric index L. a. b	Acoustic absorption
 Tonga® A 22 White	A	White	22	600 x 600	85%	L= 93.85 ± 0.19 a= -0.14 ± 0.19 b= 0.6 ± 0.3	$\alpha_w 1$
				1200 x 600			
				1200 x 1200			
				1500 x 600			
				1800 x 600			
				2000 x 600			
				2400 x 600			
 Tonga® A 22 Colours	A	Eurocolors	22	600 x 600	According to colours	According to colours	$\alpha_w 1$
				1200 x 600			
				1200 x 1200			
				1500 x 600			
				1800 x 600			
				2000 x 600			
				2400 x 600			
 Tonga® A 22 Patterns	A	Atoll Coral Cloud Foam	22	600 x 600	According to patterns	According to patterns	$\alpha_w 1$
				1200 x 600			
 Tonga® A 40 White	A	White	40	600 x 600	85%	L= 93.85 ± 0.19 a= -0.14 ± 0.2 b= 0.6 ± 0.3	$\alpha_w 1$
				1200 x 600			
				1500 x 600			
				1800 x 600			
				2000 x 600			
				2400 x 600			
 Tonga® A 40 Colours	A	Eurocolors	40	600 x 600	According to colours	According to colours	$\alpha_w 1$
				1200 x 600			
				1500 x 600			
				1800 x 600			
				2000 x 600			
				2400 x 600			
 Tonga® A 40 Patterns	A	Atoll Coral Cloud Foam	40	600 x 600	According to patterns	According to patterns	$\alpha_w 1$
				1200 x 600			
 Tonga® E 20 White	E	White	20	600 x 600	85%	L= 93.85 ± 0.19 a= -0.14 ± 0.2 b= 0.6 ± 0.3	$\alpha_w 0.95$
				1200 x 600			
				1200 x 1200			



Acoustic	Safety		Thermal insulation	Sustainability	
Acoustic Barriers	Fire reaction	Fire resistance	Value	Humidity resistance	Indoor Air Quality
•	A1	REI 30 with Euroène	0.61m ² W/K	100%	A+
•	A2-s1, d0	REI 30 with Euroène	0.61m ² W/K	100%	A+
•	A2-s1, d0	REI 30 with Euroène	0.61m ² W/K	100%	A+
With Acoustipan: 39 (-2;-7) dB With Acoustibloc: 42(-1;-8) dB	A1	REI 30	1.14m ² W/K	100%	A+
With Acoustipan: 39 (-2;-7) dB With Acoustibloc: 42(-1;-8) dB	A2-s1, d0	REI 30	1.14m ² W/K	100%	A+
With Acoustipan: 39 (-2;-7) dB With Acoustibloc: 42(-1;-8) dB	A2-s1, d0	REI 30	1.14m ² W/K	100%	A+
•	A1	SF 1/2 h	0.51 m ² W/K	100%	A+

Welcome to the
World of Colours
from Eurocoustic



Choose your
environment and
add your own
touch !

Discover the **FIRST** ceilings simulator online www.eurocoustic-tendance.com



www.eurocoustic.com



FORMAN
BUILDING SYSTEMS

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