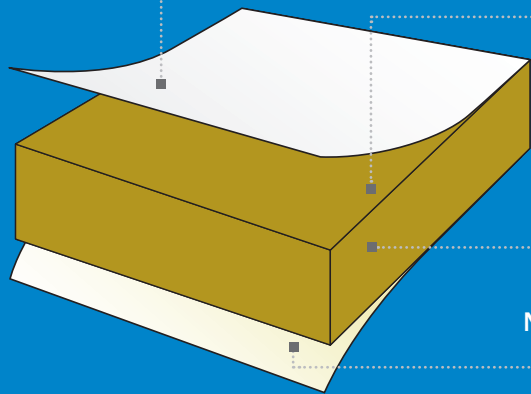


Tonga[®] A 40

Decorative glass fibre veil white,
Eurocolors or patterns

High density
stone wool panel,
40mm thick



A Edges

Natural glass veil
on reverse side

KEY FEATURES

- Acoustic absorption: $\alpha_w = 1$
- Fire reaction: A1 for white and A2-s1, d0 for colours
- Light reflection index: >87%
- No sagging, humidity resistant
- Thermal resistance: 1.14 m².K/W
- -11% energy saving
- Increases the daylight factor by >6%
- High density panel
- Over 700 possible combinations of sizes and surface finish
- 15-year warranty with **QUICK-LOCK[®]** grids
- IAQ : Class A+

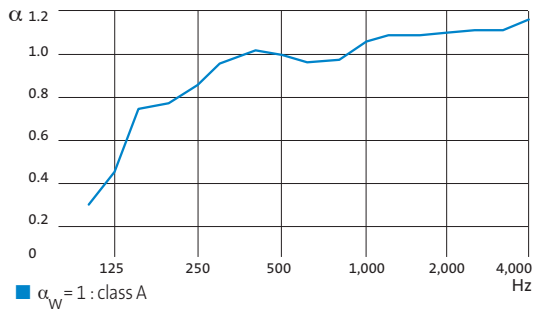


Tonga® A 40

- > Rigid stone wool self-supporting panel.
- > Decorative glass fibre veil on the visible side.
- > Reinforced by a natural glass facing on the reverse side.
- > Designed for use with a T15 - T24 grids.



Acoustic absorption



Light

- **Light Reflection:** Light reflection coefficient superior to 87% for white.
- **White:** L = 94.8% - according to norm NF EN ISO 11664-4
- **Brightness:** mat – the level of brightness is 0.75% at an angle of 85° - according to norm NF EN ISO 2813.
- **Light diffusion:** 100% of the light is diffused.
- **Natural light intake:** 6% improvement in natural light distribution.
- **Lighting needs:** an 11% reduction in lighting needs.



Fire reaction

- According to standard EN 13501-1:
- For white, Euroclass A1
- For colours and patterns, Euroclass A2-s1, d0.



Fire resistance

- Tonga® A 40 ceilings installed with a T24 **QUICK-LOCK®** grids satisfy the requirements of fire resistance Standards.

Rating	Module size (mm)	Standard
REI 20 - 45 (depending on constituent parts, for panels only)	600 x 600	EN 13381-1
REI 60 - 120 (depending on constituent parts, + 160mm of Eurolene® 603 panels)	600 x 600	EN 13381-1
REI 120	600 x 600	EN 1365-2
SF 30	600 to 2400 x 600	NBN 713-020

- Refer to the test reports for classification confirmation and assembly instructions.
- Assembly must be in accordance with the reference test report available on our website.



Humidity performance

- No sagging, humidity resistant.



Thermal resistance

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

Thickness	Thermal resistance
40 mm	1.14 m².K/W



Resistance to bending

- According to standard EN 13964 – appendix F, mechanical resistance can be registered on two parameters :
- The exposure of panels to the maximum atmospherical conditions (% of humidity and °C of Temperature), categorized from A to D :

Class	Conditions of exposure
A	Humidity ≤ 70% Temperature ≤ 25°C
B	Humidity ≤ 90% Temperature ≤ 30°C
C	Humidity ≤ 95% Temperature ≤ 30°C + condensation risk
D	Conditions more extreme than above

- The type of load : for a distributed load, expressed in N/m² (10N/m² – 1 kg/m²)
Tonga® A 40 ceilings are classified C for exposure, and on load bearing C/130 N/m², on all sizes included the largest.



Environment and health

Environment

- Mineral wools are recyclable and the vast majority of our production waste is recycled
- Environmental and Health Declaration Sheets are available at www.inies.fr
- Eurocoustic is ISO 14001 : 2004 certified (Environmental Management System)

Health

- Stone wool panels are made from fibre exempt from carcinogenic classification (EU Regulation 1272/2008 amended by EU Regulation 790/2009). The international Agency for Research on Cancer (IARC), states that mineral wool is not classifiable as to its carcinogenicity to humans (Group 3).



CE marking

- DoP N°: 0007-01 and 0007-02.



Indoor Air Quality

- Ceilings Tonga® A 40 are class A+.





Installation

- Refer to the instructions in DTU 58.1 and the NF P68203-1 and 2 standards and other prevailing DTUs based on the nature of the space.
- Air circulation between the spaces and the plenum is recommended to balance temperature and pressure on both sides of the ceiling.
- Tonga® A 40 ceilings are installed on T15 - T24.
- Tiles are cut without noise or dust using a cutter.



Cleaning

- Tonga® A 40 surface does not retain dust, which makes it easier to clean.
- Tonga® A 40 ceilings can be cleaned with : light brush or vacuum cleaner.
- Appropriate cleaning will help lengthen Tonga® A 40 ceiling's life duration.

AT A GLANCE

Colour	White 09	Eurocolors	Patterns
Edges	A		
Grids	T15 - T24		

Module size (mm)

Width	600	600	600	600	600	600
Length	600	1200	1500	1800	2000	2400
Thickness	40	40	40	40	40	40

Packaging

Panels/pack	20	10	8	8	8	6
m ² /pack	7.20	7.20	7.20	8.64	9.60	8.64
Packs/pallet	12	12	14	14	14	10
Service class	A	A	B	B	B	B

All Eurocoustic packs are shrink-wrapped. Pallets are wrapped in plastic film and must be stored under cover.

COLOURS AND PATTERNS

White



Eurocolors (46 colours)

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

NUAGÉ

EN48	EN30	EN19
EN44	EN43	

ÉCUME

EE48	EE30	EE19
EE44	EE43	

ATOLL®

EA49	EC49
------	------

CORAL®

QUICK-LOCK® GRIDS

Recommended for the installation of the Tonga® range, Quick-LOCK® grids are available in T15 and T24 in the whole Eurocolors palette to coordinate or contrast your ceilings. You also benefit from a 15-year warranty on the whole system (panels and grids).

