

# TONGA® DB 41 A



Tonga® dB 41 A ceilings offer a perfect balance between sound absorption and sound insulation. Ideal in places where acoustic is essential.

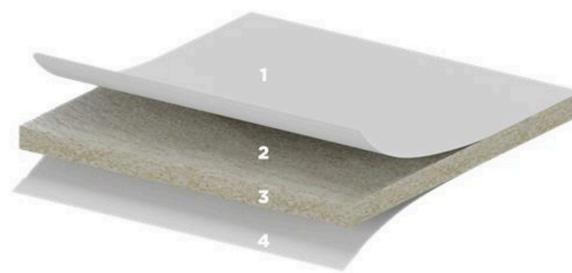


# Tonga® dB 41 A



## PANEL DESCRIPTION

|    |                                                    |
|----|----------------------------------------------------|
| 1: | Decorative glass fiber veil in white               |
| 2: | High density mineral wool panel, 38 mm thick       |
| 3: | A edges                                            |
| 4: | Acoustic membrane glass fiber veil on reverse side |



## TYPE OF APPLICATION

- Office
- Education
- Additional areas
- Healthcare

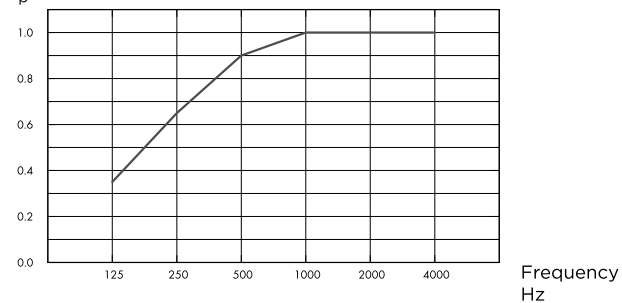


## ACOUSTICS

### Sound Absorption

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value rating for Noise Reduction Coefficient, NRC, according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Eurocoustic Tonga® dB 41 A, 200 mm o.d.s.  
o.d.s = overall depth of system

| THK<br>mm | o.d.s. mm | $\alpha_p$ , Practical sound absorption coefficient |        |        |         |         |         | $\alpha_w$ | Sound absorption class |
|-----------|-----------|-----------------------------------------------------|--------|--------|---------|---------|---------|------------|------------------------|
|           |           | 125 Hz                                              | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |                        |
| 38        | 200       | 0.35                                                | 0.65   | 0.90   | 1.00    | 1.00    | 1.00    | 0.90       | A                      |

| THK<br>mm | o.d.s. mm | NRC  |
|-----------|-----------|------|
| 38        | 200       | 0.90 |

|                  | $D_{nfw}$<br>Weighted normalized flanking level difference,<br>ISO 10848-2 | CAC dB<br>Ceiling Attenuation Class, ASTM 1414,<br>ASTM E413 | $R_w$<br>Weighted sound reduction index, ISO<br>10140-2 |
|------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
|                  | 41 (-2; -8)                                                                | 42                                                           | 22 (-2; -2)                                             |
| +<br>Acoustipan® | 52 (-5; -12)                                                               | 55                                                           | -                                                       |



## VISUAL APPEARANCE

| Property                 | White 09 |
|--------------------------|----------|
| Light Reflectance (LRV%) | 87%      |
| Whiteness (L*)           | 94%      |
| Gloss (85°)              | 1.2      |



## FIRE REACTION

| Standard   | Classification |
|------------|----------------|
| EN 13501-1 | Euroclass A1   |



## FIRE RESISTANCE

See respective classification reports for detailed information on installation and suspension system requirements.

| Standard   | Classification | Size    | Load-bearing structures | Additional insulation |
|------------|----------------|---------|-------------------------|-----------------------|
| EN 13501-2 | REI 30         | 600x600 | Concrete, Steel         | -                     |
| EN 13501-2 | REI 30         | 600x600 | Concrete, Steel, Timber | 160 mm Eurothane® 603 |



## HUMIDITY RESISTANCE

100% flat irrespective of the Relative Humidity.



## INDOOR AIR QUALITY

| Certificate / Label |    |
|---------------------|----|
| French VOC          | A+ |



## MATERIAL HEALTH

|       |                                                                                                                                                                                                                                                                                                                                       |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUCB  | Eurocoustic panels are manufactured using mineral wool certified by the European Certification Board for mineral wool products (EUCB), which independently confirms that mineral wool is produced in conformity with the Note Q of European Regulation (EC) No 1272/2008 and therefore classification as a carcinogen does not apply. |
| REACH | Eurocoustic products comply with the REACH regulation of the European Chemicals Agency and therefore do not contain any Substances of Very High Concern (SVHC) with potential negative impacts on human health or the environment above 100ppm.                                                                                       |



## CARBON FOOTPRINT

Life cycle stages A1 to C4 of the EPD, in compliance with ISO 14025 / EN 15804.

|                | kg CO <sub>2</sub> equiv/m <sup>2</sup> |
|----------------|-----------------------------------------|
| Tonga® dB 41 A | 11.4                                    |



## CIRCULARITY

|                          |                  |
|--------------------------|------------------|
| Minimum recycled content | 24%              |
| Recyclability            | Fully recyclable |



## CLEANABILITY

The ceiling surface does not retain dust, which makes the panels easier to clean. The ceiling can be cleaned using a light brush or a vacuum cleaner. This type of cleaning will help extend the service life of the ceilings.



## INSTALLATION

- You are advised to ensure that air can circulate between the rooms and the plenum to balance the temperature and pressures on each side of the ceiling.
- Tiles can be cut with a craft knife without generating any noise or dust.
- The direction in which the panels should be installed is indicated on the back of the panels.
- Contact us if any mineral wool is to be laid in the plenum.



**CE**

Eurocoustic ceilings are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



## PRODUCT RANGE

The Tonga® dB 41 A ceilings are protected by a heat-shrink film. The pallets are banded and should be stored in a sheltered area

| Format               | 600x600                      | 1200x600                     | 1350x600     | 1500x600     |
|----------------------|------------------------------|------------------------------|--------------|--------------|
| Edge                 | A                            | A                            | A            | A            |
| Grids                | T24                          | T24                          | T24          | T24          |
| Panels/pack          | 12                           | 6                            | 4            | 4            |
| m <sup>2</sup> /pack | 4,32                         | 4,32                         | 3,24         | 3,6          |
| Packs/pallet         | 18                           | 18                           | 28           | 28           |
| Service class        | A (White 09), C (EuroColors) | A (White 09), C (EuroColors) | C (White 09) | C (White 09) |

## COLOURS AND DESIGN

### Colors

|          |
|----------|
| Blanc 09 |
|----------|

### EuroColors

|              |               |                |                |               |                 |                |
|--------------|---------------|----------------|----------------|---------------|-----------------|----------------|
| Argile / D1  | Calcaire / D2 | Craie / D3     | Dune / D4      | Sable / D5    | Terre / D6      | Aluminium / M1 |
| Chrome / M2  | Granite / M3  | Plomb / M4     | Zinc / M6      | Banquise / P1 | Crépuscule / P2 | Givre / P3     |
| Glacier / P4 | Iceberg / P5  | Rosée / P6     | Céladon / T1   | Cuivre / T2   | Ocre / T3       | Outremer / T4  |
| Sienne / T5  | Silex / T6    | Ambre / G1     | Emeraud / G2   | Grenat / G3   | Jade / G4       | Rubis / G5     |
| Saphir / G6  | Soufre / G7   | Topaze / G8    | Turquoise / G9 | Ardoise / V1  | Basalte / V2    | Cobalt / V3    |
| Fer / V4     | Lave / V5     | Météorite / V6 | Noir / V7      |               |                 |                |