ACOUSTIC TILES
Data Sheet Sinfonia



Material	Mineral tile, fleece covered ASTM Type IV, Form 2, Pattern E
Fire hazard properties	Group 1, conforms with NCC Spec C1.10 Clause 4 (tested to AS 5637.1:2015) Group 1-S, conforms with NZBC verification method C/VM2 Appendix A (tested to ISO 9705:2003)
Thermal resistance	0.27 m^2K/W (R-Value) 15 mm thickness 0.36 m^2K/W (R-Value) 20 mm thickness 0.45 m^2K/W (R-Value) 25 mm thickness
Light reflection	approx. 87 (white) (ISO 7724-2, ISO 7724-3)
Sound absorption	up to NRC = 1,00
Sound reduction*	up to CAC = 41 dB
Humidity resistance	up to 100 % RH
Cleanroom class	up to ISO 4 (ISO 14644-1:1999)
Release of formaldehyde	OWAcoustic < 5 $\mu g/m^3$ (ISO 16000)
LEED EQ credit „Low-emitting products“	OWAcoustic < 2 $\mu g/m^3$ (TVOC limit acc. to CDPH < 50 $\mu g/m^3$)

Versions:

Sinfonia Silencia 2
Sinfonia 2
Sinfonia Balance 3
Sinfonia Balance 25 3
Sinfonia Privacy 4
Sinfonia c 5

Special versions:

Sinfonia Humancare 6

Colour availability:

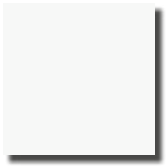
Sinfonia Silencia matt black (similar to RAL 9004) 9
Sinfonia matt black (similar to RAL 9004) 9



Sound absorption figures 11

* dependent on dimension, design, system, soffit and other project specific factors

Detailed product features can be found on the following pages.



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]

*1 dependent on soffit and other specific factors

Sinfonia Silencia

Edge 3

00087491	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 5	✓	3.3	100 %	✓	10

Edge 6

00087492	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 5	✓	3.3	100 %	✓	10

Edge 15

00087493	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 5	✓	3.3	100 %	✓	10

Sinfonia

Edge 3

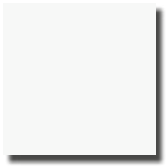
00091883	1200 x 600 x 15		10	**0.90**	A	**29 dB**	99 % RH	ISO 5	✓	3.1	100 %	✓	10

Edge 6

00091884	1200 x 600 x 15		10	**0.90**	A	**29 dB**	99 % RH	ISO 5	✓	3.1	100 %	✓	10

Edge 15

00091885	1200 x 600 x 15		10	**0.90**	A	**29 dB**	99 % RH	ISO 5	✓	3.1	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]

*1 dependent on soffit and other specific factors

Sinfonia Balance

Edge 3

00087515	1200 x 600 x 20		8	**0.80**	B	**37 dB**	99 % RH	ISO 5	✓	4.4	100 %	✓	10

Edge 6

00087516	1200 x 600 x 20		8	**0.80**	B	**37 dB**	99 % RH	ISO 5	✓	4.4	100 %	✓	10

Edge 15

00087517	1200 x 600 x 20		8	**0.80**	B	**37 dB**	99 % RH	ISO 5	✓	4.4	100 %	✓	10

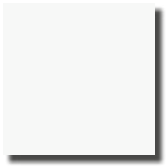
Sinfonia Balance 25

Edge 3

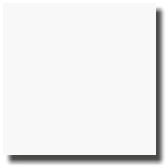
00089671	1200 x 600 x 25		6	**0.90**	A	**40 dB**	99 % RH	ISO 4	✓	5.0	100 %	✓	10

Edge 6

00090581	1200 x 600 x 25		6	**0.90**	A	**40 dB**	99 % RH	ISO 4	✓	5.0	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]
													*1 dependent on soffit and other specific factors
Sinfonia Privacy													
Edge 3													
00087485	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10
Edge 6													
00087486	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10
Edge 15													
00087487	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10
Long Edge 1	Short Edge 3												
on request	1500 x 500 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10
on request	1500 x 300 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10
on request	1200 x 300 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 5	✓	6.4	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]

*1 dependent on soffit and other specific factors

Sinfonia c

Edge 3

00087994	1200 x 600 x 15		10	**0.70**	C	**34 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10

Edge 6

00087531	1200 x 600 x 15		10	**0.70**	C	**34 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10

Edge 15

00087536	1200 x 600 x 15		10	**0.70**	C	**34 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10

Long Edge 1, Short Edge 3

on request	1500 x 500 x 15		10	**0.70**	C	**38 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10
on request	1500 x 300 x 15		10	**0.70**	C	**38 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10
on request	1200 x 300 x 15		10	**0.70**	C	**38 dB**	99 % RH	ISO 5	✓	4.2	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Washability ASTM D4828	Scrubbability ASTM D2486	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty (years)

*1 dependent on soffit and other specific factors

Sinfonia Humancare

Edge

3

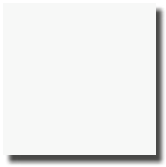
00091886	1200 x 600 x 15		10	**0.90**	B	**29 dB**	99 % RH	ISO 4	✓	✓	✓	3.1	100 %	✓	10

Sinfonia Humancare RH+

Edge

3

00087527	1200 x 600 x 20		8	**0.80**	B	**37 dB**	100 % RH	ISO 5	✓	✓	✓	4.4	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Washability ASTM D4828	Scrubbability ASTM D2486	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty (years)

*1 dependent on soffit and other specific factors

Sinfonia c Humancare

Edge 3

00084255	1200 x 600 x 15		10	**0.70**	C	**34 dB**	95 % RH	ISO 4	✓	✓	✓	4.2	100 %	✓	10

Edge 6

00087531	1200 x 600 x 15		10	**0.70**	C	**34 dB**	95 % RH	ISO 4	✓	✓	✓	4.2	100 %	✓	10

Edge 15

00087536	1200 x 600 x 15		10	**0.70**	C	**34 dB**	95 % RH	ISO 4	✓	✓	✓	4.2	100 %	✓	10

Sinfonia Silencia Humancare

Edge 3

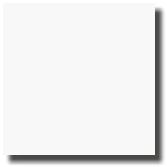
00087495	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 4	✓	✓	✓	3.3	100 %	✓	10

Edge 6

00087496	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 4	✓	✓	✓	3.3	100 %	✓	10

Edge 15

00087497	1200 x 600 x 20		8	**1.00**	A	**24 dB**	99 % RH	ISO 4	✓	✓	✓	3.3	100 %	✓	10



Item no.	Dimensions (nom.) [mm]		PU		NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273		Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]
*1 dependent on soffit and other specific factors															

Sinfonia Privacy Humancare

Edge															
3															
00087488	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 4	✓	✓	✓	6.4	100 %	✓	10
Edge															
6															
00087489	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 4	✓	✓	✓	6.4	100 %	✓	10
Edge															
15															
00087490	1200 x 600 x 20		8	**0.70**	C	**41 dB**	99 % RH	ISO 4	✓	✓	✓	6.4	100 %	✓	10

Humancare

- Compliance with test standard NF S 90-351 in accordance with the stricter classification criteria of the current revision 2013-04
  - clean room class ISO 4 (ISO 14644-01:1999)
  - decontamination class CP(0.5) 5
  - bacteriological purity class M1 or M10

→ suitable for all rooms up to the highest risk zone 4

- Compliance with the internationally recognised JIS-Z-2801 standard (up to 5-log reduction)

- Additionally: active combating of the multiresistant hospital pathogen MRSA and the murine norovirus

Disinfectability:
Even without additional measures, Humancare actively combats bacteria, viruses and fungi. But for applications requiring additional disinfectability, you can also treat the tiles with spray disinfection°. Please feel free to request the corresponding test report from us.

° Two spray applications (standard commercially available handheld spraying device) with e.g. 10 % ACTICIDE®-BAC-50-M solution or Meliseptol® (44 % ethanol solution)



Item no.	Dimensions (nom.) [mm]		PU	NRC	Absorption class	CAC	Humidity resistance	Cleanroom class	Mold and mildew ASTM D3273	Weight approx. [kg/m²]	Recyclability	Recycled content	Warranty [years]

*1 dependent on soffit and other specific factors

Sinfonia Silencia matt black

Edge

3

00098479	1200 x 600 x 20		8	**0.95**	B	**24 dB**	99 % RH	-	✓	3.3	100 %	✓	10

Sinfonia matt black

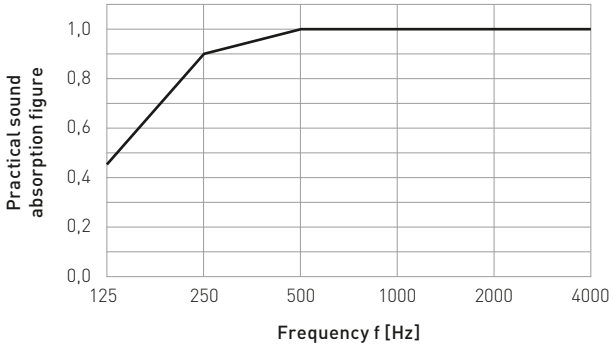
Edge

3

00098281	1200 x 600 x 15		10	**0.90**	A	**27 dB**	99 % RH	-	✓	3.1	100 %	✓	10

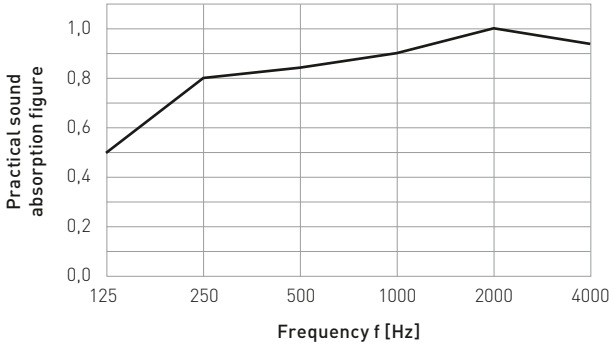
Sound absorption figures

SINFONIA SILENCIA | SINFONIA SILENCIA HUMANCARE



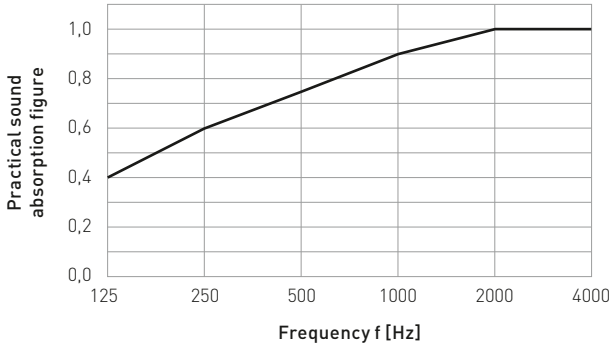
Freq. [Hz]	Suspension depth E200 α_p
125	0.45
250	0.90
500	1.00
1000	1.00
2000	1.00
4000	1.00
NRC	**1.00**

SINFONIA | SINFONIA HUMANCARE



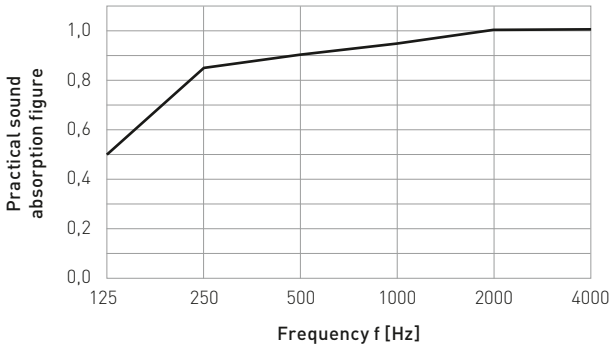
Freq. [Hz]	Suspension depth E200 α_p
125	0.50
250	0.80
500	0.85
1000	0.90
2000	1.00
4000	0.95
NRC	**0.90**

SINFONIA BALANCE



Freq. [Hz]	Suspension depth E200 α_p
125	0.40
250	0.60
500	0.75
1000	0.90
2000	1.00
4000	1.00
NRC	**0.80**

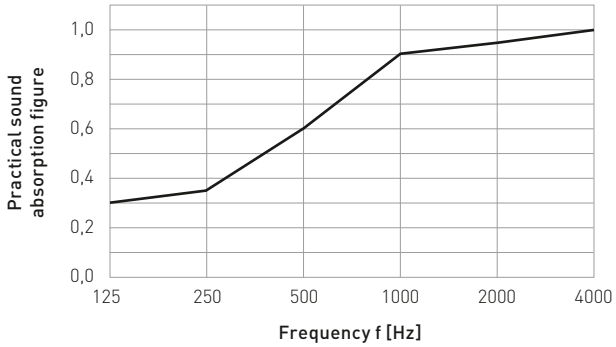
SINFONIA BALANCE 25



Freq. [Hz]	Suspension depth E200 α_p
125	0.50
250	0.85
500	0.90
1000	0.95
2000	1.00
4000	1.00
NRC	**0.90**

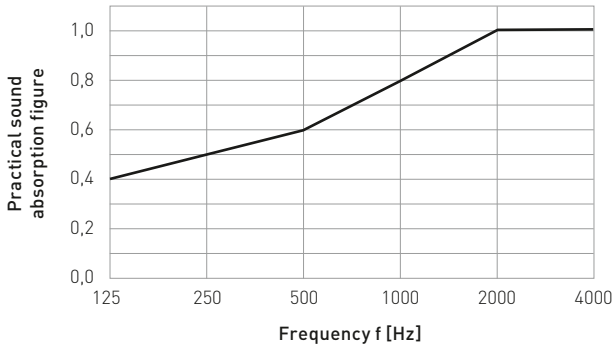
Sound absorption figures

SINFONIA PRIVACY | SINFONIA PRIVACY HUMANCARE



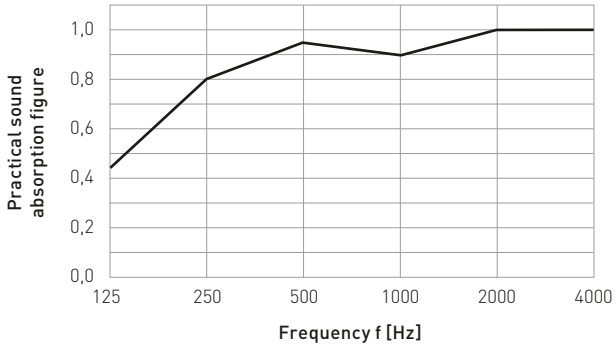
Freq. [Hz]	Suspension depth E200 α_p
125	0.30
250	0.35
500	0.60
1000	0.90
2000	0.95
4000	1.00
NRC	**0.70**

SINFONIA c | SINFONIA c HUMANCARE



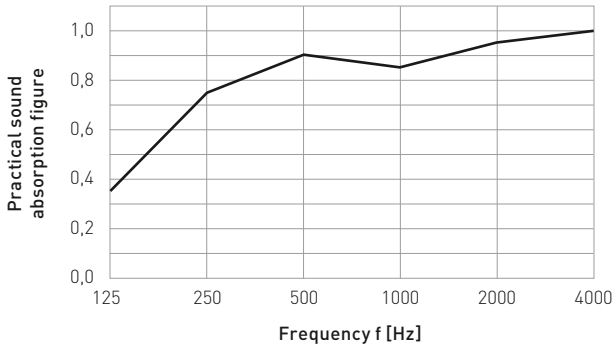
Freq. [Hz]	Suspension depth E200 α_p
125	0.40
250	0.50
500	0.60
1000	0.80
2000	1.00
4000	1.00
NRC	**0.70**

SINFONIA SILENCIA MATT BLACK



Freq. [Hz]	Suspension depth E200 α_p
125	0.45
250	0.80
500	0.95
1000	0.90
2000	1.00
4000	1.00
NRC	**0.95**

SINFONIA MATT BLACK



Freq. [Hz]	Suspension depth E200 α_p
125	0.35
250	0.75
500	0.90
1000	0.85
2000	0.95
4000	1.00
NRC	**0.90**

GENERAL GUIDANCE

Our mineral tiles are manufactured in Germany according to the highest production standards and are subject to constant quality controls. This guarantees consistant high quality of the materiality and performances of our products, which are tailored to the specific needs of the application area. The following section shows a general guidance of the main features of our products.

Dimensions (nom.)
The dimensions (lenght x width x thickness) refers to the grid dimension of the ceiling system. Depending on the version the manufacturing dimensions can differ.

VPE
Packaging unit (pieces/packet)

Fire hazard properties of internal ceiling linings
Any actions, materials, or conditions that might increase the size or severity of a fire or that might cause a fire to start are called fire hazards. Fire properties of building products are regulated to minimize rapid fire spread and smoke growth in buildings and ensure safe and timely evacuation of occupants. OWAcoustic mineral tiles are in Group 1, conforms with NCC Spec C1.10 Clause 4 (tested to AS 5637.1:2015)

Thermal Resistance
The R-value (thermal insulance factor) measures the thermal resistance of a material. This can also be expressed as the temperature difference that will cause one unit of heat to pass through one unit of area over a period of time. The thermal insulance factor R has the units [m^2K/W]

NRC (Noise Reduction Coefficient)
Specifies the absorption properties – viz. the degree of sound reflection – of materials in a closed space according to american standard ASTM E 1264.

Absorption class
Absorption classes according to EN ISO 11654 appendix B:
A (α_w = 0.90; 0.95; 1.00) | **B** (α_w = 0.80; 0.85) | **C** (α_w = 0.60; 0.65; 0.70; 0.75) | **D** (α_w = 0.30; 0.35; 0.40; 0.45; 0.50; 0.55) | **E** (α_w = 0.15; 0.20; 0.25) not classified (α_w = 0.00; 0.05; 0.10)

CAC (Ceiling Attenuation Class)
Specifies the sound insulation properties – viz. the room to room sound transmission through the common cavity – of a ceiling system according to the american standard ASTM E 1414.

Humidity resistance
OWAcoustic ceiling tiles are tested and classified according to EN 13964:2014 with regard to their bending tensile strength in accordance with the stress classes in table 8. The mineral tiles can temporary be subjected to the stated values without sagging. For permanent moisture load use special tiles (Mavroc®).

Cleanroom class
Many of our ceilings meet six of the nine classes that are defined via the maximum limits specified in EN ISO 14644-1 (ISO classes 4 – 9). This means that these ceiling systems are qualified for many clean room areas and even the highest risk areas in the healthcare sector.

Mold and mildew
Mold and mildew resistance tested according to ASTM D 3273.

Weight approx. (kg/m²)
Subject to fluctuations of raw materials and production processes.

Recyclability
All tiles produced from 1999 are 100 % recyclabe in the course of the OWA green circle.

Recycled content
Our products have an up to 50 % recycled content (depending upon type).

Warranty (years)
OWA grants a warranty of 10 years against visible sag. Please have a look at our guaranty bond.

Legal notice
The printing-related colour and quality variations in this catalogue may result in deviations to the original product. A binding product selection should therefore always be made based on an original sample. All details and technical information in these brochures or other publications that relate to OWA ceiling systems are based on test results that were achieved under laboratory conditions. It is the customer's responsibility to ensure that this information is appropriate for their specific application. All system-related data and statements correspond to the current state of technology. They assume the exclusive application of OWA products and their interdependent behaviour which is confirmed by internal and external testing. If they are used in combination with non-OWA products, any warranties or guarantees are invalidated and liability will not be accepted. Subject to technical changes for the purpose of product or system updates. Subject to technical changes without prior announcement. Our general sales, delivery and payment terms and conditions apply. Prices are subject to change without notice.

Subject to mistakes and printing errors.

SUSTAINABILITY

OWA green circle

OWA CEILING SYSTEMS CONTRIBUTE TO CERTIFICATION ACCORDING TO

- **LEED** (Leadership of Energy and Environmental Design)
- **DGNB** (Deutsche Gesellschaft Nachhaltiges Bauen/German Sustainable Building Counsil)
- **BREEAM** (Building Research Establishment Environmental Assessment Methodology)
- The **WELL** Building Standard
- **Green Star** (Green Building Council of Australia)

Certified Management Systems

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