OWAplan



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)
Light reflection	approx. 81 (white – OWAplan XS plaster)
Sound absorption*1	NRC = 0.90
Sound reduction	CAC = 41 dB
Humidity resistance	up to 95 % RH
Release of formaldehyde	OWAcoustic < 5 µg/m³ (ISO 16000)
LEED EQ credit „Low-emitting products“	TVOC limit acc. to CDPH < 50 µg/m³

Versions:



OWAplan^{90} panel

Plaster coatings:



OWAplan XS white
fine or ultra-fine structure*2



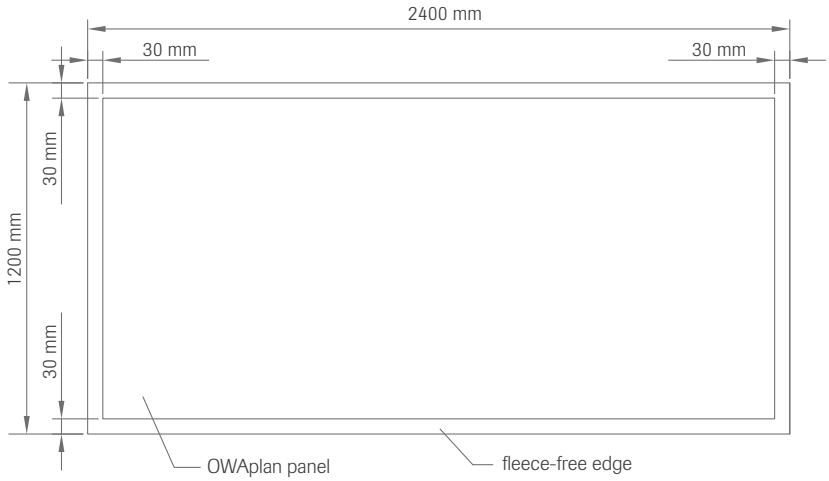
OWAplan color
fine or ultra-fine structure*2
RAL-/NCS-color on request

*1 finished System
*2 dependent on spray pump used
Detailed product features can be found on the following pages.

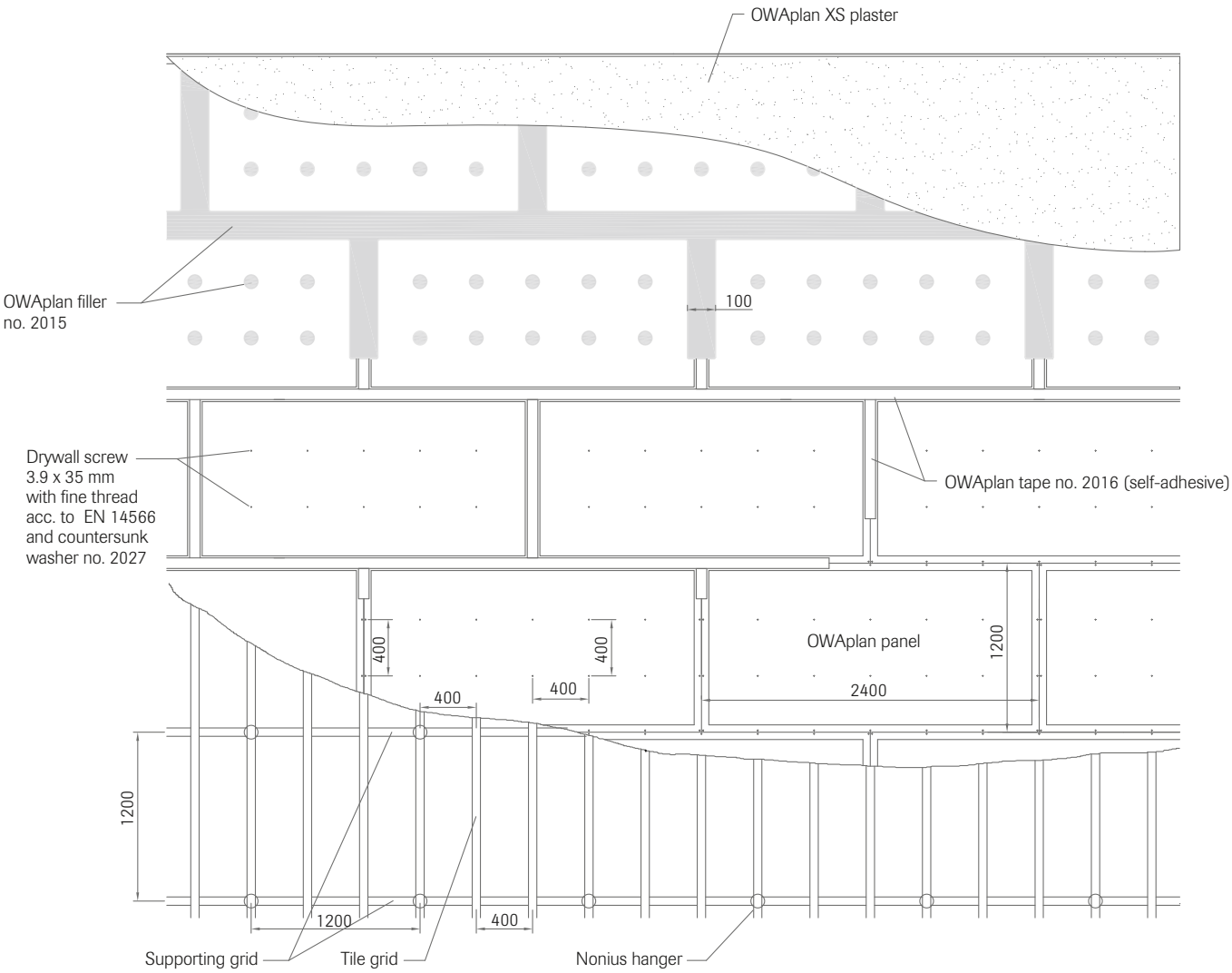
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Item no.	Dimensions (nom.) [mm]		PU	NRC	Humidity resistance	TVOC limit acc. to CDPH	HPD	Carbon footprint/m² (based on EPD A1-A3)	Weight up to [kg/m²]	Recyclability	Recycled content	Recycling content acc. to LEED	Share of renewable raw materials	Warranty (years)
OWAconsult® collection														
OWAplan														
Edge														
3														
00094663	2400 x 1200 x 25		4	0.95	95 % RH	✓	✓	5.25 kg CO_2 eq.	4.40	100 %	✓	19 %	22 %	10
00094656	2400 x 1200 x 25		32	0.95	95 % RH	✓	✓	5.25 kg CO_2 eq.	4.40	100 %	✓	19 %	22 %	10



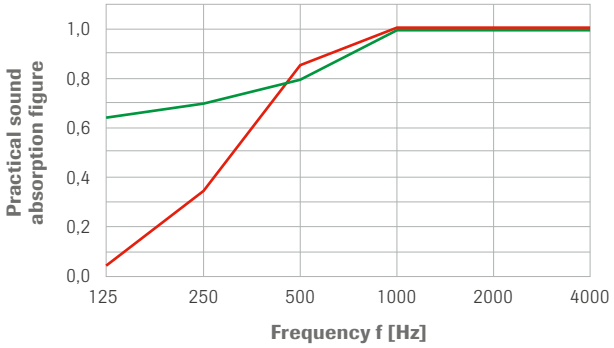
Item no.	Product description	Material	PU
by others	Nonius hanger acc. to EN 13964 for C profile 60/27 (upper and lower part), maximum load: 0,40 kN	galvanized steel	
by others	Safety pin	galvanized steel	
by others	U-shaped hanger acc. to EN 13964 for inclined/direct mounting	galvanized steel	
by others	C profile 60/27, 4000 x 60 x 27 x 0.6 mm acc. to EN 14195	galvanized steel	
by others	Cross connector or equivalent for C profile 60/27 acc. to EN 13964	galvanized steel	
by others	Profile connector for C profile 60/27 acc. to EN 13964	galvanized steel	
by others	Drywall screw 3.9 x 35 mm with fine thread acc. to EN 14566	galvanized steel	
00085458	Self-tapping screw no. 2024 for for no. 51/27	galvanized steel	100 pcs.
00083070	Angle profile no. 51/27 for 25 mm OWAplan boards hight: 52 mm, width: 27 mm, thickness: 0.7 mm, length: 3000 mm, visible side: white	galvanized steel	10 pcs.
00093939	Countersunk washer no. 2027	galvanized steel	500 pcs.
00084276	OWAplan tape no. 2016	textile tape	90 m
00084275	OWAplan filler no. 2015, ready to mix	dry goods	7,5 kg
00084278	OWAplan XS plaster no. 2018, ready to mix	dry goods	7,5 kg
00093200	OWAplan XS plaster no. 2020, ready to use	wet goods	15 kg
on request	OWAplan color plaster no. 2025	wet goods	15 kg



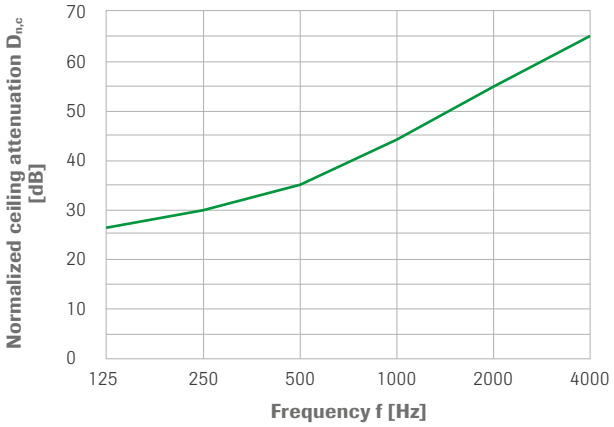
For installation requirements see brochure 1031 e

Acoustic performance

Seamless acoustic ceiling OWAplan incl. plaster coating



Freq. [Hz]	A-mounting α_p	E400 α_p
125	0.05	0.65
250	0.35	0.70
500	0.85	0.80
1000	1.00	1.00
2000	1.00	1.00
4000	1.00	1.00
NRC	**0.80**	**0.90**
AC(1.5)	**170**	**180**
SAA	**0.82**	**0.91**



Freq. [Hz]	$D_{n,c}$ [dB]
125	26
250	30
500	35
1000	44
2000	55
4000	65
CAC	**41**

Repainting the finished installation may lead to a reduction in sound absorption performance.

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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 [m²K/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.

Washability
Washability tested according to ASTM D4828.

Scrubbability
Scrubbability tested according to ASTM D2486.

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

Weight approx. (kg/m^2)
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 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

Odenwald Faserplattenwerk GmbH
Dr.-F.-A.-Freundt-Straße 3 | 63916 Amorbach
tel +49 9373 201-0 | info@owa.de
www.owa.de | www.owaceilings.com.au

OWA Australia
Suite 12, Wotso Level 1
5 Blake Street Kogarah,
NSW 2217

Data sheet **OWAplan aus**
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