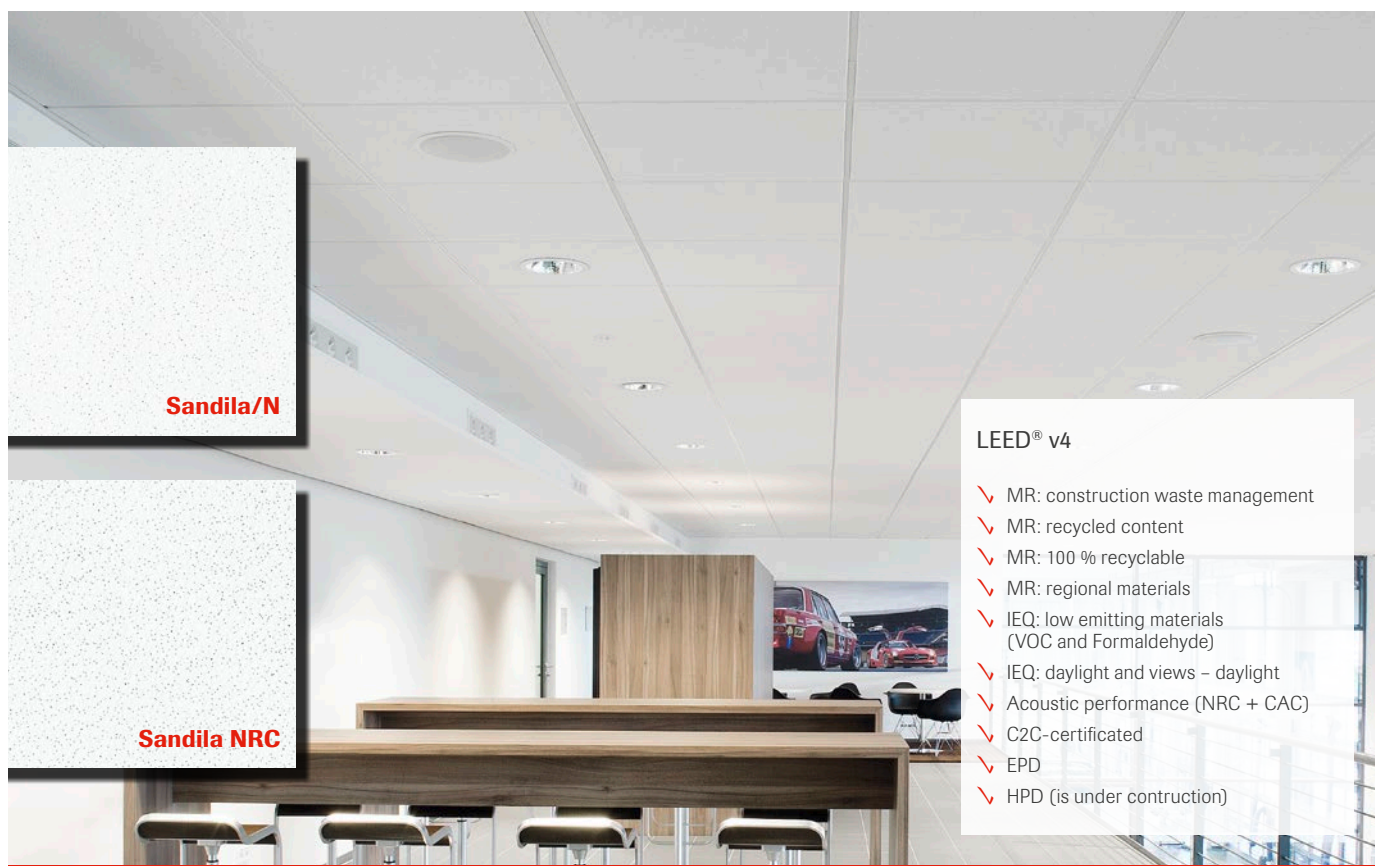


Sandila



LEED® v4

- ✓ MR: construction waste management
- ✓ MR: recycled content
- ✓ MR: 100 % recyclable
- ✓ MR: regional materials
- ✓ IEQ: low emitting materials (VOC and Formaldehyde)
- ✓ IEQ: daylight and views – daylight
- ✓ Acoustic performance (NRC + CAC)
- ✓ C2C-certificated
- ✓ EPD
- ✓ HPD (is under construction)

| | |
|----------------------------|---|
| Material | Mineral tile, sand covered ASTM E 1264 classification Type III, Form 2, Pattern C E |
| Reaction to fire | CAN/ULC-S102 (ASTM E84) class A (ASTM E 1264) Flame Spread Index 25 or less Smoke Developed Index 50 or less |
| Light reflection | approx. 84 (ASTM E 1477) (Sandila/N) approx. 83 (ASTM E 1477) (Sandila NRC) |
| Sound absorption | up to NRC = 0.70 |
| Sound reduction* | up to CAC = 37 dB |
| Humidity resistance | up to 95 % RH |
| Resistance to fire* | up to REI 180 (EN 13501-2:2016-12) |
| DIN 18177 | TVOC 1 / FH 1 / PM 1 |

Versions:



| | |
|----------------------|---|
| Sandila/N | 2 |
| Sandila/N smart..... | 2 |
| Sandila NRC | 3 |

* 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.) [Inches] | PU | Sqft/carton | Cartons/pallet | NRC ASTM C423 | NRC* EN ISO 11654 | CAC ASTM E1414 | CAC* ISO 10848-2 | Humidity resistance | Cleanroom class | Washability ASTM D4828 | Scrubability ASTM D2486 | Mold and mildew ASTM D3273 | Resistance to fire up to ▲ | Weight approx. [lbs/sqft] | Weight approx. [lbs/carton] | Recyclability | Recycled content | Low VOC emissions | Warranty (years) |
|----------|-------------------------------|----|-------------|----------------|------------------|----------------------|-------------------|---------------------|---------------------|-----------------|---------------------------|----------------------------|-------------------------------|----------------------------|---------------------------|-----------------------------|---------------|------------------|-------------------|------------------|
|----------|-------------------------------|----|-------------|----------------|------------------|----------------------|-------------------|---------------------|---------------------|-----------------|---------------------------|----------------------------|-------------------------------|----------------------------|---------------------------|-----------------------------|---------------|------------------|-------------------|------------------|

OWAcoustic® premium Sandila/N


▲ dependent on soffit and other specific factors

Edge

SQ


For visible systems

OWAclic 15/16 or OWAclic 9/16



00082722

24 x 24 x 5/8



12

48

44

0.60

-

37 dB

-

95 % RH

-

✓

✓

✓

REI 180*

1.0

48.0

100 %


✓

✓

30

00082719

48 x 24 x 5/8



10

80

26

0.60

-

37 dB

-

95 % RH

-

✓

✓

✓

REI 60°

1.0

80.0




100 %

✓

✓

30

* OWAclic 9/16 REI 90 | ° OWAclic 9/16 no resistance to fire

| | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------------|---|----|----|----|---|---|-------|---|---------|---|---|---|---|---------|-----|------|-------|---|---|----|
| Edge | | | | | | | | | | | | | | | | | | | | | |
| RE 15/16" | | For visible systems | | | |  | | | | | | | | | | | | | | | |
| | | OWAclic 15/16 | | | | | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | |
| 00082723 | 24 x 24 x 5/8 |  | 10 | 40 | 52 | 0.60 | - | 37 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 180 | 1.0 | 40.0 | 100 % | ✓ | ✓ | 30 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | |
| 00082720 | 48 x 24 x 5/8 |  | 10 | 80 | 26 | 0.60 | - | 37 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 60 | 1.0 | 80.0 | 100 % | ✓ | ✓ | 30 |

| | | | | | | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------------|----|----|----|------|---|-------|---|---------|---|---|---|---|--------|-----|------|-------|---|---|----|
| Edge | | | | | | | | | | | | | | | | | | | | | |
| RE 9/16" | | For visible systems | | | | | | | | | | | | | | | | | | | |
| OWAclic 9/16 | | | | | | | | | | | | | | | | | | | | | |
| 00082724 | 24 x 24 x 5/8 | | 10 | 40 | 52 | 0.60 | - | 37 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 90 | 1.0 | 40.0 | 100 % | ✓ | ✓ | 30 |
| 00082721 | 48 x 24 x 5/8 | | 10 | 80 | 26 | 0.60 | - | 37 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | - | 1.0 | 80.0 | 100 % | ✓ | ✓ | 30 |




OWAcoustic® premium Sandila/N smart



Edge

SQ

For visible systems



OWAclic 15/16 or OWAclic 9/16

| | | | | | | | | | | | | | | | | | | | | | |
|----------|----------------|---|----|----|----|---|------|---|-------|---------|---|---|---|---|--------|-----|------|-------|---|---|----|
| 00084717 | 24 x 24 x 9/16 |  | 12 | 48 | 48 | - | 0.60 | - | 31 dB | 90 % RH | - | ✓ | ✓ | ✓ | REI 60 | 0.9 | 72.0 | 100 % | ✓ | ✓ | 30 |
| 00083014 | 48 x 24 x 9/16 |  | 10 | 80 | 30 | - | 0.60 | - | 31 dB | 90 % RH | - | ✓ | ✓ | ✓ | REI 60 | 0.9 | 72.0 | 100 % | ✓ | ✓ | 30 |





| Item no. | Dimensions (nom.) [Inches] | PU | Sqft/carton | Cartons/pallet | NRC ASTM C423 | NRC* EN ISO 11654 | CAC ASTM E1414 | CAC* ISO 10848-2 | Humidity resistance | Cleanroom class | Washability ASTM D4828 | Scrubability ASTM D2486 | Mold and mildew ASTM D3273 | Resistance to fire up to ▲ | Weight approx. [lbs/sqft] | Weight approx. [lbs/carton] | Recyclability | Recycled content | Low VOC emissions | Warranty (years) |
|----------|-------------------------------|----|-------------|----------------|------------------|----------------------|-------------------|---------------------|---------------------|-----------------|---------------------------|----------------------------|-------------------------------|----------------------------|---------------------------|-----------------------------|---------------|------------------|-------------------|------------------|
|----------|-------------------------------|----|-------------|----------------|------------------|----------------------|-------------------|---------------------|---------------------|-----------------|---------------------------|----------------------------|-------------------------------|----------------------------|---------------------------|-----------------------------|---------------|------------------|-------------------|------------------|

OWAcoustic® premium Sandila NRC

▲ dependent on soffit and other specific factors

Edge



For visible systems

OWAclic 15/16 or OWAclic 9/16



| | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------|--|----|----|----|-------------|---|--------------|---|---------|---|---|---|---|----------|-----|------|-------|---|---|----|
| 00082728 | 24 x 24 x 5/8 | | 12 | 48 | 44 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 180* | 1.0 | 48.0 | 100 % | ✓ | ✓ | 30 |
| 00082725 | 48 x 24 x 5/8 | | 10 | 80 | 26 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 60° | 1.0 | 80.0 | 100 % | ✓ | ✓ | 30 |

* OWAclic 9/16 REI 90 | ° OWAclic 9/16 no resistance to fire

Edge



For visible systems

OWAclic 15/16



| | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------|--|----|----|----|-------------|---|--------------|---|---------|---|---|---|---|---------|-----|------|-------|---|---|----|
| 00082729 | 24 x 24 x 5/8 | | 10 | 40 | 52 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 180 | 1.0 | 40.0 | 100 % | ✓ | ✓ | 30 |
| 00082726 | 48 x 24 x 5/8 | | 10 | 80 | 26 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 60 | 1.0 | 80.0 | 100 % | ✓ | ✓ | 30 |

Edge



For visible systems

OWAclic 9/16



| | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------|--|----|----|----|-------------|---|--------------|---|---------|---|---|---|---|--------|-----|------|-------|---|---|----|
| 00082730 | 24 x 24 x 5/8 | | 10 | 40 | 52 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | REI 90 | 1.0 | 40.0 | 100 % | ✓ | ✓ | 30 |
| 00082727 | 48 x 24 x 5/8 | | 10 | 80 | 26 | 0.70 | - | 35 dB | - | 95 % RH | - | ✓ | ✓ | ✓ | - | 1.0 | 80.0 | 100 % | ✓ | ✓ | 30 |



General guidance

Our mineral tiles are manufactured in Germany according to the highest production standards and are subject to constant quality controls. This guarantees constant 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.) [Inches]

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

PU

Packaging unit (pieces/carton)

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. Values acc. to manufacturers declaration. Measured and calculated according to ASTM C423.

NRC*

Measured according to EN ISO 354:2003 | EN 16487. Calculated according to ASTM C423.

Absorption class

Absorption classes according to EN ISO 11654 appendix B:

A ($\alpha_w = 0.90; 0.95; 1.00$) | **B** ($\alpha_w = 0.80; 0.85$) | **C** ($\alpha_w = 0.60; 0.65; 0.70; 0.75$)

D ($\alpha_w = 0.30; 0.35; 0.40; 0.45; 0.50; 0.55$) | **E** ($\alpha_w = 0.15; 0.20; 0.25$)

not classified ($\alpha_w = 0.00; 0.05; 0.10$)

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. Values acc. to manufacturers declaration. Measured and calculated according to ASTM E1414.

CAC*

Measured according to ISO 10848-2. Calculated according to ASTM E1414.

Humidity resistance

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.

Resistance to fire (up to)

Structural elements based on EN 13501-2:2016-12 encompass the whole structural element and not just the suspended ceiling. This is why this value is dependent on the chosen system, dimension, soffit and other project specific factors.

Weight approx. (lbs/sqft)

Subject to fluctuations of raw materials and production processes.

Weight approx. (lbs/carton)

Subject to fluctuations of raw materials and production processes.

Recyclability

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

Recycled content

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

Low VOC emissions

Total VOC after 28 day $\leq 50\mu\text{g}/\text{m}^3$

Warranty (years)

Terms and conditions see 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



EPD available

Listed at Mindful Materials

OWA ceiling systems contribute to certification according to

- **LEED** (Leadership of Energy and Environmental Design)
- **BREEAM** (Building Research Establishment Environmental Assessment Methodology)
- The **WELL** Building Standard



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