



About Zentia

Zentia pride themselves on being true pioneers in the design and manufacture of world- class mineral ceiling and suspension systems.



With innovative solutions and a rich heritage which spans over 150 years, they are proud to be one of the greatest successes in the building materials industry.

From deep rooted manufacturing origins and a solid Zentia brand foundation, they have evolved into Europe's leading manufacture of mineral fibre ceiling systems; with their products being specified in every environment from schools and workplaces to hotels and hospitals.

What's more their environmental commitment ensures they are striving for a sustainable future. From energy-saving performance features to responsible raw material selection their ceilings for sustainable building design are engineered to reduce environmental impact throughout their life cycle.

In fact, they are the first European mineral ceiling tile manufacturer to achieve Cradle to Cradle® certification. And, did you know, that every year in the UK and Ireland they continue to divert increasingly large amounts of waste from landfill through our ceiling recycling initiatives?

To this day their HQ and manufacturing facilities are based in Team Valley, Gateshead. They also operate in a further 7 countries across Europe.

Ongoing investment in their manufacturing plants and processes will support their continued growth and mission to enable us to offer you the very best products and value possible.



Definition of Technical Performance Icons



30 Year System Guarantee

Products which, when installed with the compatible Zentia tile/grid/accessories, have the Zentia 30 Year System Guarantee.



Sound Absorption

A single-number rating for random incidence sound absorption coefficients as calculated by reference to EN ISO 11654 (w) or, as calculated by reference to ASTM C423 (NRC).



Sound Absorption Class

A classification for sound absorption (A – E) based upon the sound absorption w value.



Sound Reduction

A single-number rating for airborne sound transmission (single pass) as calculated by reference to EN ISO 717-1.



Sound Attenuation

A single-number rating for flanking sound transmission between adjacent rooms, as calculated by reference to EN ISO 717-1.



Fire Reaction

Reaction to fire classification in accordance with EN 13501-1 expressed as Euroclass (A1 – F).



Humidity Resistance

Maximum relative humidity conditions for installation and lifetime of ceiling.



Light Reflectance

Light reflection is the proportion of incident light that is reflected back off the product, when tested in accordance with EN ISO 7724-2 and 3.



Light Diffusion

The percentage of reflected light which is diffused.



Air Quality

Zentia solutions designed to limit the number of airborne particles in a clean room environment are tested against ISO 14644-1 and classified with an ISO class.



Thermal Conductivity

Tested in accordance with EN 12667, the thermal conductivity rating measures the rate of heat flow through a material.



Scratch Resistance

Products with this icon offer a superior level of surface scratch resistance, evaluated with the Hess Rake test.



Product Handling & Durability

Solutions with enhanced durability for improved handling and resistance to damage.



Weight

Weight per unit area of the product (kg/m²).



Colours

Custom colours available for products with this icon.



Dimensions

Custom sizes available for products with this icon.



Grid Systems

Additional compatible grid systems available upon request.



Shapes

Custom shapes available for products with this icon.



Bioguard / Antimicrobial

Bioguard antimicrobial finish as standard on Bioguard Plain and Bioguard Acoustic mineral tiles with this icon.



Seismic

Seismic resistance using specifically designed components and assemblies available for systems with this icon.



Service Integration

Custom factory cut-outs for service integration available for products with this icon.



Cleaning and Disinfection

The frequency and cleaning method of a ceiling varies from one application to another. All products can at least be cleaned with a dry cloth or vacuum cleaner.



Wipeable

With a dry cloth / soft brush.



Wipeable

With a moist cloth.



Washable

With a sponge dampened in water containing mild soap or diluted detergent.



Scrubable

With water containing mild soap or diluted detergent.



Water Spray

Can be cleaned using a high pressure water spray.



Disinfectant

Can be cleaned with disinfectants commonly used in healthcare premises.

Sustainability

Products with this icon are C2C certified, providing a transparent mechanism to compare the sustainability performance of products, showing that they are designed for recycling and can help protect and sustain our environment for future generations by keeping resources in the economy for longer.



Recycled Content

The recycled content of the product, as calculated in accordance with ISO 14021.



Recycling Programme

Products with this icon can be recycled through the Zentia Ceiling Recycling Programme. UK / Ireland only.



VOC

The VOC emission performance in accordance with the French labelling requirements.



Formaldehyde (E1)

Formaldehyde emission level (E1 = Best test result possible).



BIM

BIM objects available for products with this icon.

CE Marking



In Europe, the Construction Products Regulations (305/2011/ EU) defines essential requirements for products (and projects) such that they are safe and fit for their intended use. Harmonized Product Standards respond to these essential requirements and set out what tests must be conducted and how the performance must be communicated. For suspended ceilings the applicable product standard is EN 13964 Suspended Ceilings – Requirements & Test Methods.

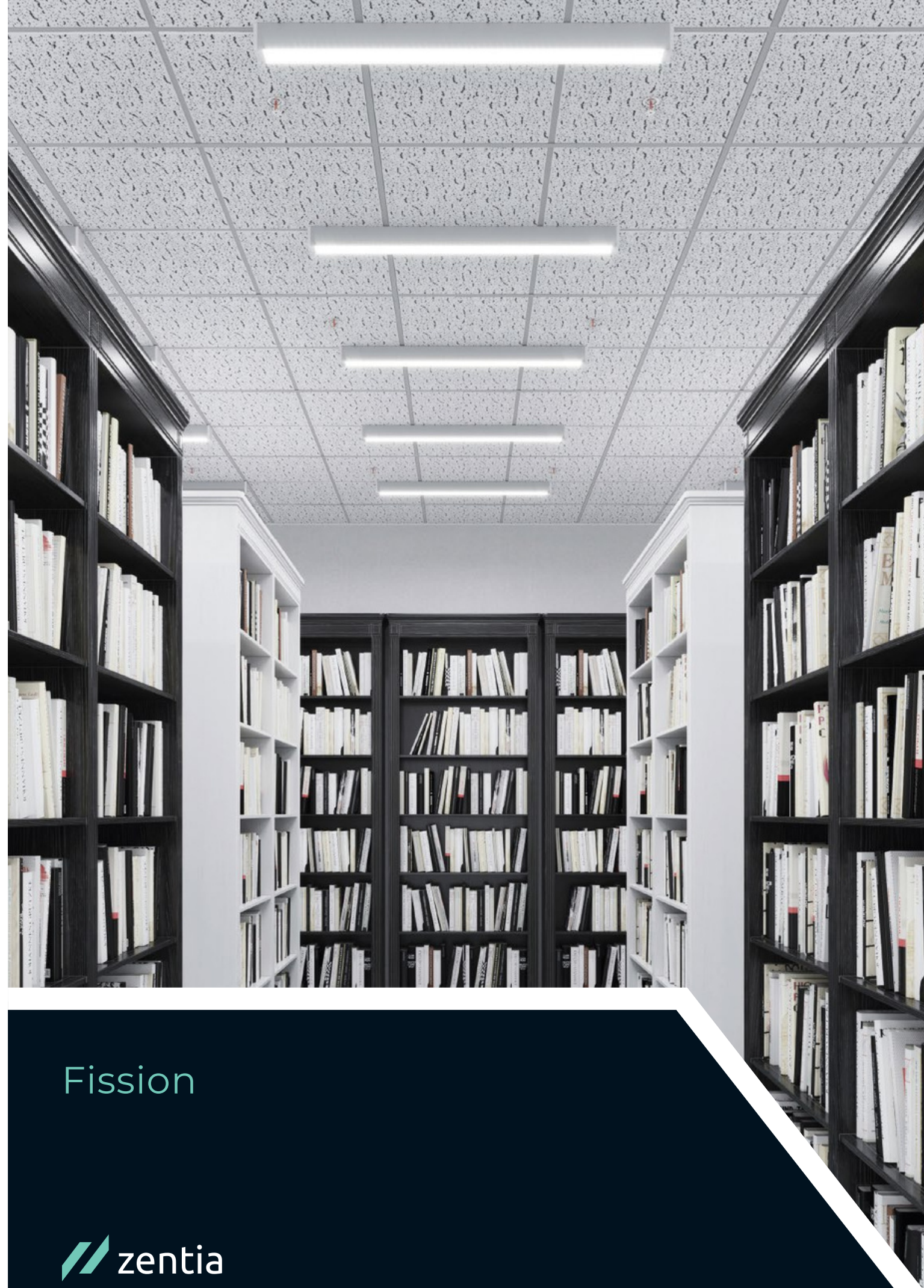
The essential requirements identified for suspended ceiling Membranes (tiles) include:

- // Reaction to Fire (mandatory)
- // Formaldehyde Emissions (mandatory)
- // Sound Absorption
- // Flexural Tensile Strength / Durability
- // Thermal Conductivity

It is mandatory to CE Mark products within the scope of EN 13964 and provide a Declaration of Performance in order to place the product on the market.

All Zentia Declarations of Performance can be found on Zentia's website.





Fission



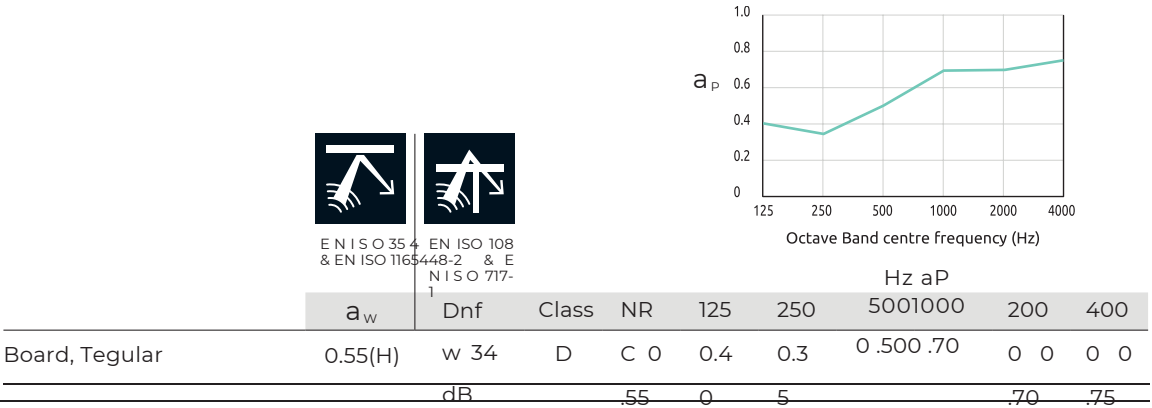
Key Features

- Classic fissured pattern
- Ideal for storage facilities and warehouses

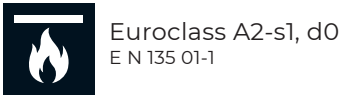


Edge Detail		Board	Tegular
Thickness		15	15
(mm)		600 x 600 958M	600 x 600 962M
Modules		1200 x 600 952M	
(mm)		1220 x 610 755U	
Suspension Systems		Prelude 24 XL2 / T	Prelude 24 XL2 / TLS
Colour		Global White	
Sustainability			

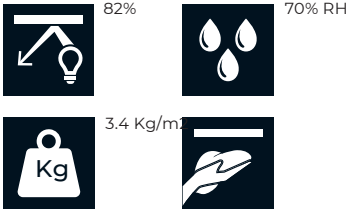
Acoustics



Fire Reaction



Performance & Features



Installation & Maintenance

Manufacturer's Recommendations

Many specifications call for the ceiling to be installed in accordance with the “manufacturer’s recommendations” and this approach is now adopted in BS EN 13964: 2014 “Suspended ceilings – Requirements and test methods” which refers to “Supplier’s instructions”.

The recommendations are given as a guide to such requirements which should be consulted prior to installation.

Where a specific point is not mentioned or for further information on those that are, please contact us or visit zentia.com

Reaction to Fire

Fire reaction is an important consideration for every ceiling system – no matter how simple or complex. Our ceiling tiles are engineered to meet the most stringent industry standards. Select from a broad range of looks and acoustic options to meet your design and fire reaction requirements.

classification. Most Zentia products achieve an A2-s1,d0 performance level, which is significantly better than the most onerous internal linings classification required in the Building Regulations of class B-s3,d2.



Building Regulations

Fire reaction performance for suspended ceilings is shown using the Euroclass fire reaction



Acoustical Technical Glossary

Weighted sound absorption coefficient,

w A single-number rating for random incidence sound absorption coefficients calculated by reference to EN ISO 11654. With this method measured values obtained in accordance with EN ISO 354, are converted into octave bands at 250, 500, 1000, 2000 and 4000Hz and are plotted onto a graph. A standard reference curve is then shifted towards the measured values in steps of 0.05 until a “best fit” is obtained. The derived value of w will vary between 0.00 and 1.00 but is only expressed in multiples of 0.05, eg
w = 0.65.

Shape indicator

With reference to EN ISO 11654, the calculated value of w may be qualified by one or more letters (in brackets) to indicate if the product has excess sound absorption at low (L), medium (M) or high (H) frequencies.

Sound absorption class

With reference to EN ISO 11654, the calculated value of w may additionally be allocated into one of six descriptive classes in accordance with the following table:

Sound absorption class	α_w
A	0.90; 0.95; 1.00
B	0.80; 0.85
C	0.60; 0.65; 0.70; 0.75
D	0.30; 0.35; 0.40; 0.45; 0.50; 0.55
E	0.15; 0.20; 0.25
Not classified	0.00; 0.05; 0.10

Weighted suspended ceiling normalised difference, Dnfw

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne sound insulation of a suspended ceiling above adjacent rooms sharing a common ceiling plenum. It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN 20140-9. Note: EN 20149-9 has now been withdrawn and superseded by EN ISO 10848-2. (see Dnfw), although Dnfw test results still continue to be valid.

Weighted suspended ceiling normalised flanking difference, Dnfw

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne flanking sound transmission of a suspended ceiling above adjacent rooms sharing a common ceiling plenum. It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN ISO 10848-2. This has now superseded EN 20149- 9. (see Dnfw).

Advisory Note

All photographic and design elements supplied in this brochure do not necessarily reflect any recommendation by any of the companies named in this brochure as to the proper use or recommended methods of installation of suspended ceilings and are supplied only as informative material. For technical reasons in printing, differences may appear between colours printed in this brochure and the actual product. The choice of colours should always be made from a sample of the product. All statements and technical information contained in this brochure, or any publication of the companies named in this brochure, relating to Zentia are based on results obtained under laboratory test conditions. It is the responsibility of the user to verify with the seller of the products in writing that such statements and information are appropriate to the specific use intended. Sales of the products and liability of the selling companies are in accordance with the terms and conditions of sale of the selling company. All product specifications are subject to modifications without prior notice.

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Weighted sounds reduction index, R

A single-number rating of the laboratory measurement of (vertical) airborne sound reduction of a suspended ceiling. It is determined by reference to EN ISO 717-1 from measurements of sound reduction index made in accordance with EN ISO 140-3.

Rain noise sound intensity level, L

The laboratory measurement of the sound intensity in a room below a roof construction when subjected to rainfall. It is determined by reference to EN ISO 140-18:2006 – Laboratory measurement of sound generated by rainfall on building elements. The roof’s performance can be tested with or without a suspended ceiling beneath. The intensity of the rainfall tested can be selected from the options given in the standard. A combined A-weighted single-number (LIA) can also be determined. Unlike Dnfw and Rw data, where the =higher the value the better the insulation provided, the lower the intensity value (weighted LIA) the better the insulation performance of the ceiling and roof combination.

Sound attenuation

A term used in relation to the horizontal transmission of sound through a suspended ceiling above adjacent rooms sharing a common ceiling plenum.

Sound reduction

A term used in relation to the vertical transmission of sound through a suspended ceiling.

Noise reduction coefficient, NRC

A single-number descriptor of random incidence sound absorption coefficients. Defined in ASTM C423 as the arithmetical average, to the nearest multiple of 0.05, of the measured sound absorption coefficients for the four one-third octave band centre frequencies of 250, 500, 1,000 and 2,000 Hz.

Sabine / equivalent absorption area (EAA)

A Sabine is a measure of the total sound absorption provided by discrete objects (canopies, screens, furniture, etc) when installed in an architectural space. Because these types of absorbers have more than one surface and may be irregular in form, it is not meaningful to assign sound absorption coefficients to them. Hence the Equivalent Absorption Area per unit (measured in Sabines) is preferred to characterise the absorption provided by an individual ‘space absorber’.

