



RAIL

ezoBord





## Meet RAIL

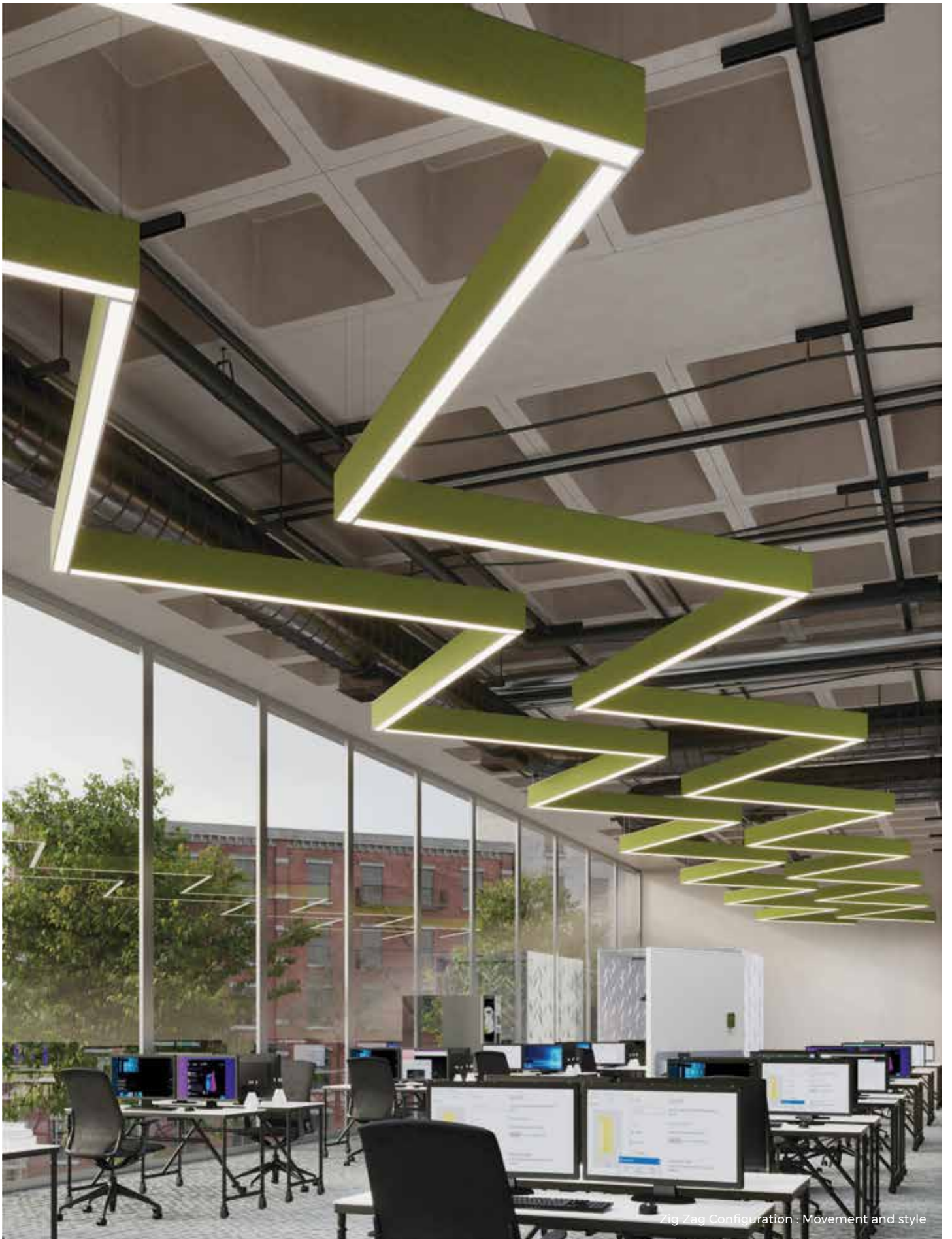
With Rail we are going beyond illumination for interior spaces. True to our acoustic roots, we incorporate the performance of ezoBord material to LED technology providing a synergistic relation between acoustics and lighting as a solution to high-end noise levels, reverberation and poor lighting issues common to open spaces.

Designed in collaboration with Metalumen, Rail comes with a variety of light color temperatures and as a mix with our classic Baffle Systems ("Vesi" and "Veldi").



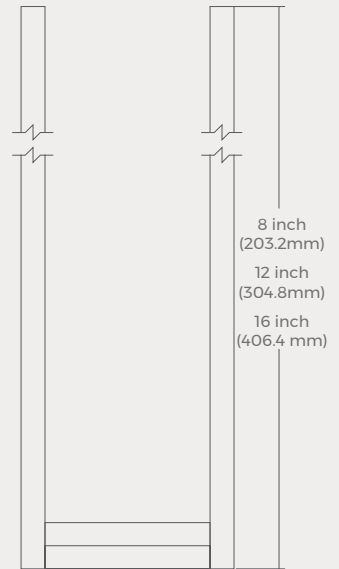
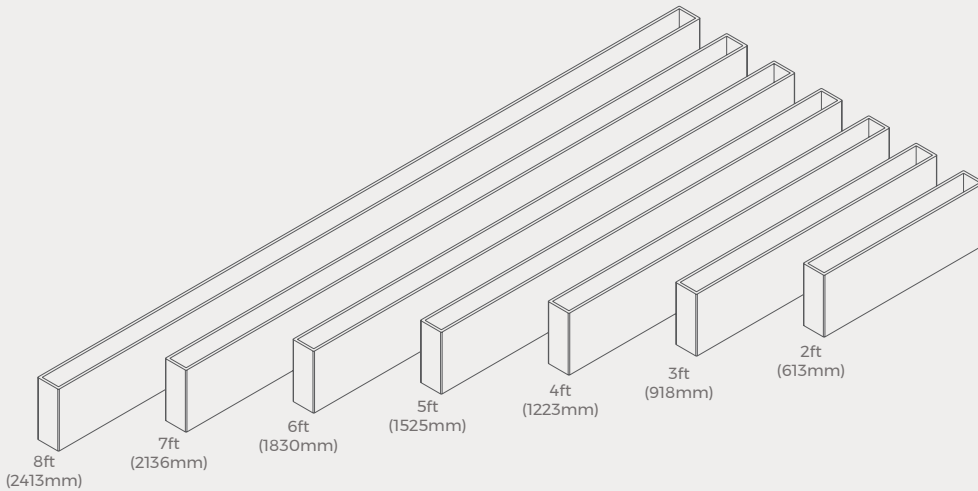


Cross Configuration: Rythm and sequence



Zig Zag Configuration : Movement and style

# Acoustic Specifications



## Dimensions

## Acoustic

### ACOUSTIC BAFFLES

#### COMPOSITION

100% PET (min. 50% recycled content).

#### THICKNESS

Available in two thicknesses:

- 3/8" (9mm) | ±0.5mm
- 1/2" (12mm) | ±0.5mm

#### WEIGHT

- 3/8" (9mm) sheet: 8.4lbs (3.8kg) | ±5%
- 1/2" (12mm) sheet: 16.0lbs (7.26kg) | ±5%

#### HARDNESS

60-65 (Shore C)

#### DIMENSIONS

##### LENGTHS

- 2ft (609.6 mm)
- 3ft (914.4 mm)
- 4ft (1219.2 mm)
- 5ft (1524 mm)
- 6ft (1828.8 mm)
- 7ft (2133.6 mm)
- 8ft (2438.4 mm)

##### HEIGHTS

- 8 Inch (203.2)
- 12 Inch (304.8)
- 16 Inch (406.4)

#### FIRE TESTING

• North America: - ASTM E-84 Class A\* - CAN ULC S102-10

• Europe and UK: - EN13501-1: 2007

#### ENVIRONMENT

Made of polyester fiber, min. 50% of which comes from recycled water bottles which contributes to LEED MR Credit and BREEAM Health and Wellbeing, Materials points due to recycled content, acoustic performance, and low emitting materials. No VOC's: CDPH v1.2 and REACH SVHC Compliant.

#### ACOUSTICS

Refer to ASTM C423-17 test charts for specific absorption coefficients.

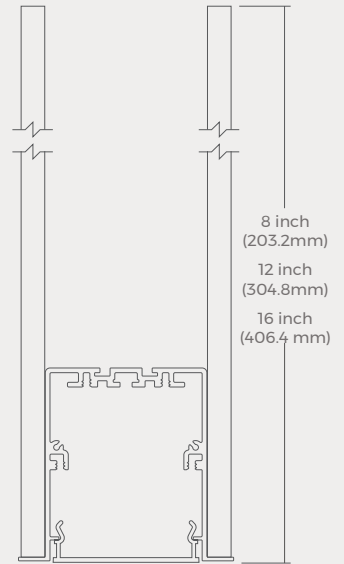
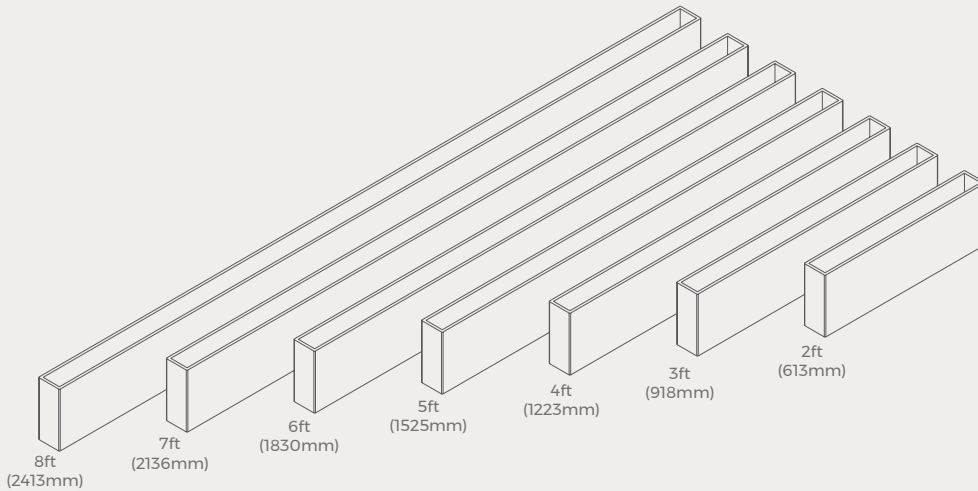
- 3/8" (9mm): NRC 0.95 (subject to mounting conditions)
- 1/2" (12mm): NRC 1.05 (subject to mounting conditions)

#### PRODUCT VARIANCES

Variation in fiber mix and color may occur. All products will be supplied within commercial tolerances.

#### GENERAL

Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.



## Dimensions

## LED

### LED LIGHTS

#### HOUSING

Rigid extruded aluminum body, 2.0mm (0.08") nominal wall thickness. Aluminum end caps.

#### OPTICAL SYSTEM

Metalumen luminaires are designed to utilize leading edge LED technology combined with luminaire optimized reflectors and our custom diffusers, resulting in industry leading optical performance.

#### CRI

83+ for 3500K, 80 minimum for all CCTs in standard configurations.

#### LUMEN MAINTENANCE

Minimum 50,000h with TM-21 lumen maintenance of 85% @ 25°C ambient temperature (calculated based on IESNA LM-80-08 LED test data). L70: ≥60,000hrs.

#### PAINT FINISHES

Satin aluminum, white and black are standard finishes. For custom finish, contact factory.

#### WEIGHT

0.95 kg/300mm [ 2.1 lb/ft ]

#### MOUNTING

Aircraft cable yoke complete with a Quick-Grip field adjustable suspension system. Threaded rod for t-bar and unistrut metal framing system.

#### Electrical

Factory prewired with easy wire quick connect sections.

#### DRIVERS

Metalumen offers 0-10V dimming\* as a standard on our entire LED product offering. Dimming range is 1%-100%. Power factor is > 90%. Class 2 rating. Drivers are integral.

#### APPROVALS

All components are UL/ CSA/QPS recognized or listed. RoHS compliant. This product is cULus listed.

#### ENVIRONMENT

Suitable for dry or damp locations.

\*Standard drivers compatible with passive/ sinking dimmers. Please contact Metalumen if active/ sourcing dimmer support is required.





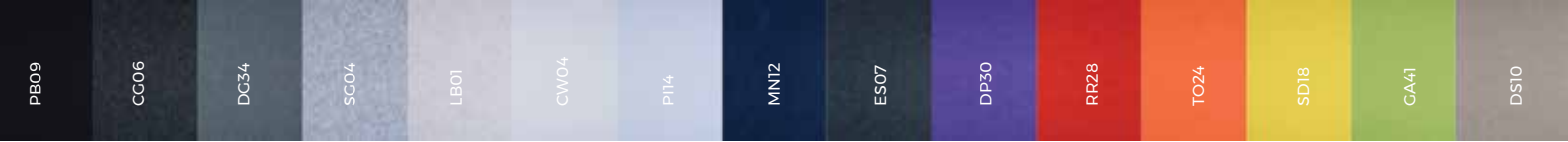
Endless Colour Combinations

Printed Woodgrain Finishes



ezoBord Sheets Available

3/8" (9mm) Colours



1/2" (12mm) Colours

This colors are only used for Acoustic Baffles

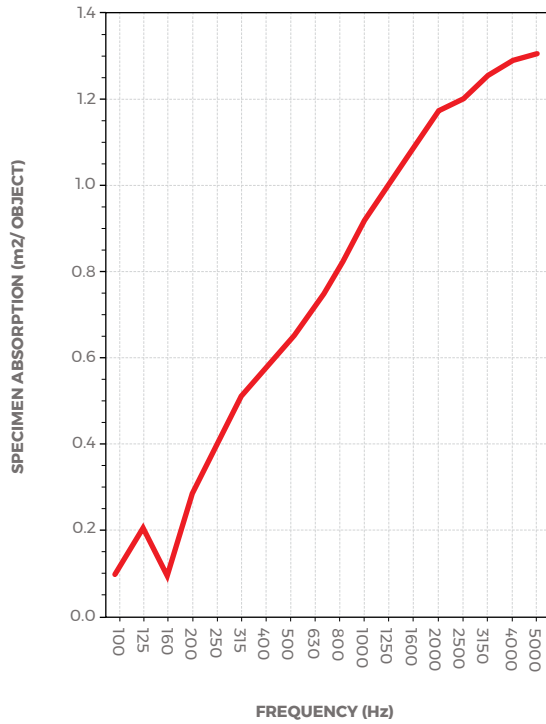




## 3/8" (9mm)

### SOUND ABSORPTION REPORT

Baffles for LED lighting, 9mm material (6 objects, 12 in. apart)



#### ACOUSTICS

**3/8" (9mm) Material:**

LIT

**Thickness:** 3.25 in (82.6 mm)

**Height:** 12 in (304.8 mm)

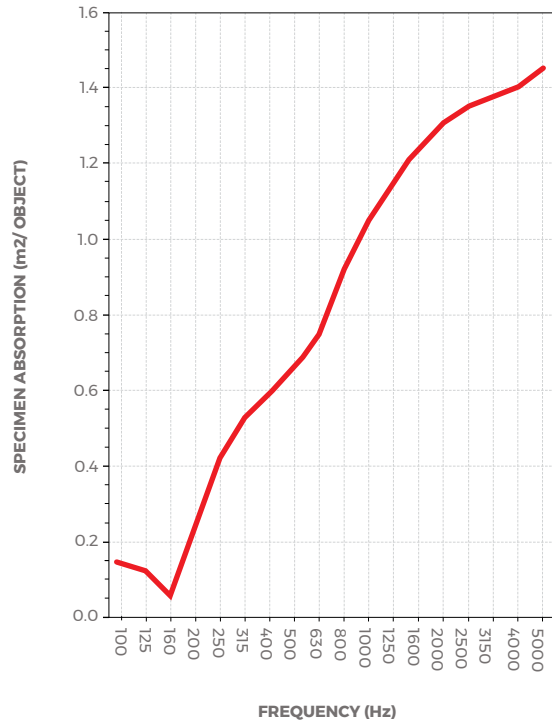
**NRC:** 1.10

**SABINS:** Per Lineal Metre: 4.35 | Per Lineal Foot: 1.33

## 1/2" (12mm)

### SOUND ABSORPTION REPORT

Baffles, 12mm material (6 objects, 12 in. apart)



#### ACOUSTICS

**1/2" (12mm) Material:**

UN-LIT

**Thickness:** 3.125 in (79.4 mm)

**Height:** 11.5 in (292 mm)

**NRC:** 1.20

**SABINS:** Per Lineal Metre: 4.35 | Per Lineal Foot: 1.33

## Color temperatures



3000K



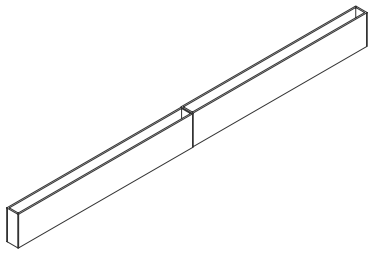
3500K



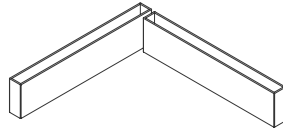
4000K

Light Level Performance			
3500K, 80 CRI, 0-10V Dimming (Standard) per 60000 HOURS of use			
Light Level	Lumens per foot	Wattage per foot	Efficacy (lm/W)
L1	500	5.0	99
L2	750	7.6	99
L3	1000	10.1	99

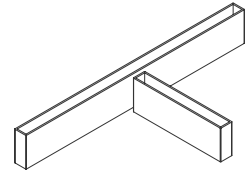
# Configuration Options



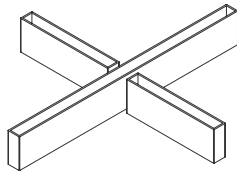
Aligned



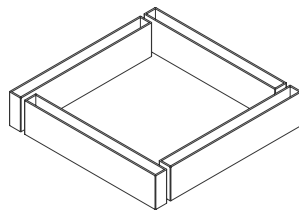
Corner



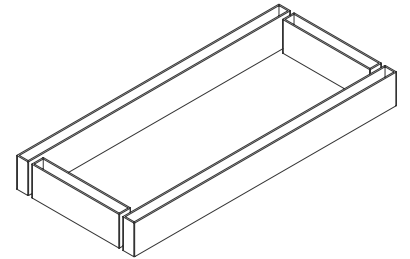
T-Shape



Cross

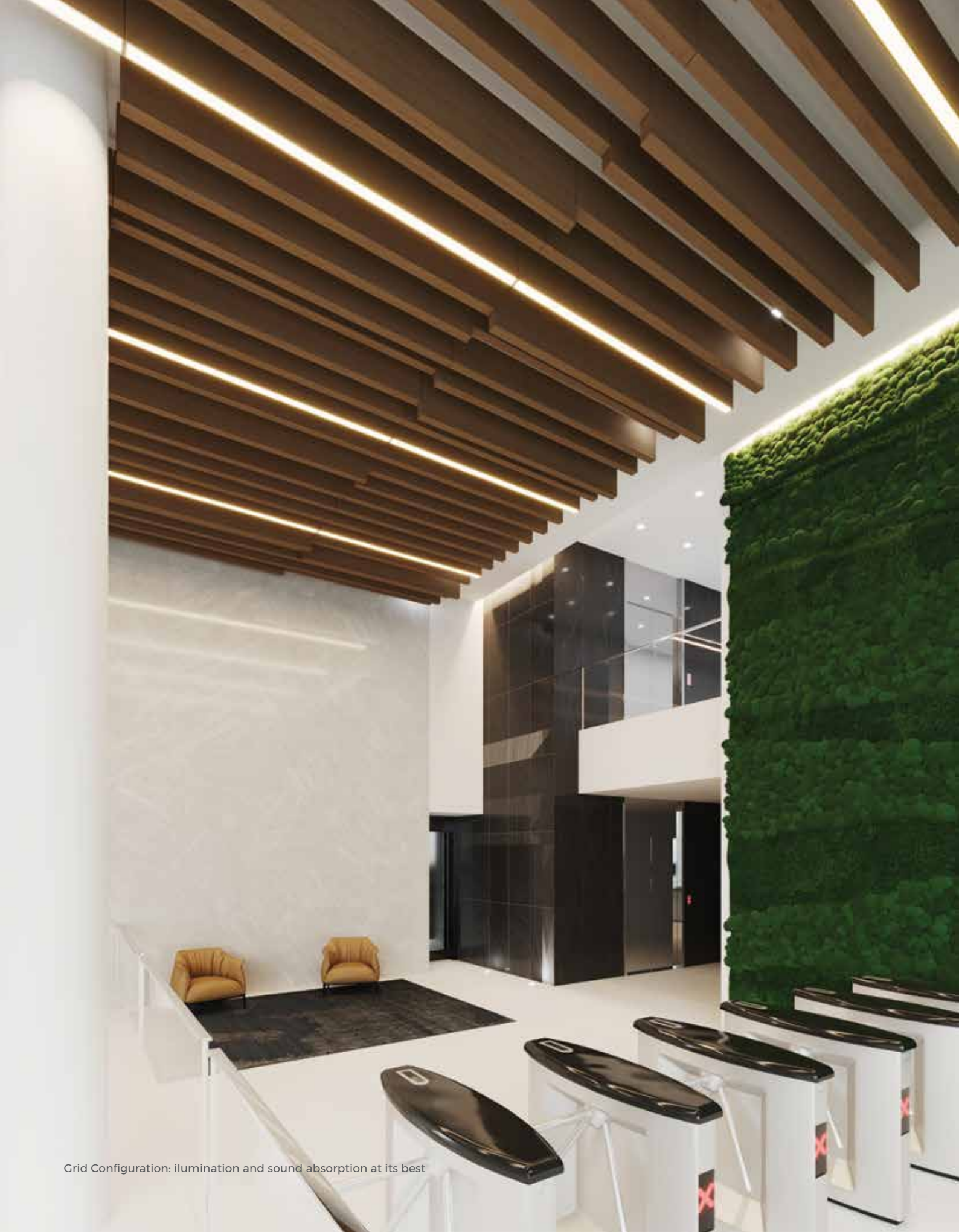


Square



Rectangular

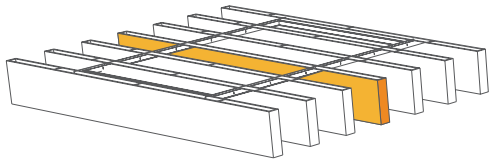




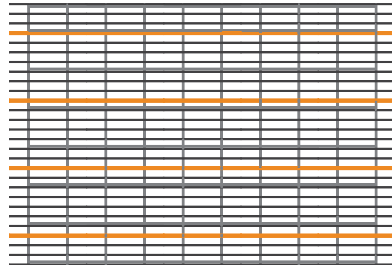
Grid Configuration: illumination and sound absorption at its best



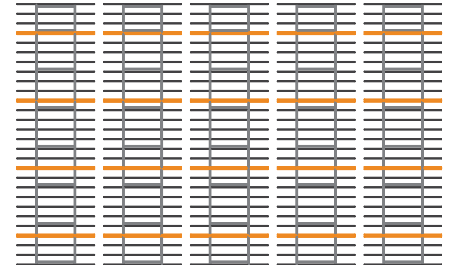
# RAIL+RAIL Configuration



Module



Full Ceiling

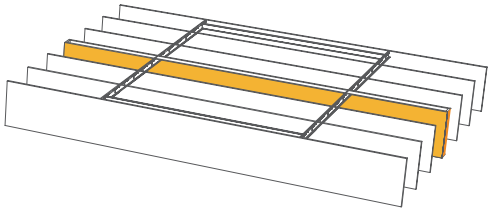


Rows

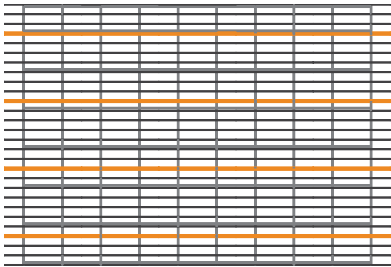


RAIL+ RAIL: acoustic and light performance design.

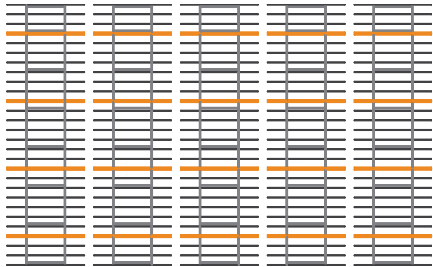
# RAIL+VELDI Configuration



Module



Full Ceiling

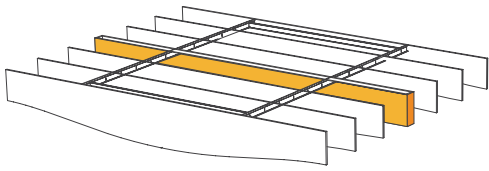


Rows

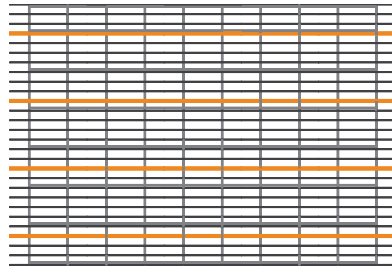


RAIL+ VELDl: changing the game

# RAIL + VESI Configuration



Module



Full Ceiling



Rows



RAIL+ VESI: perfect together to make an statement





Rail makes beautiful any space.

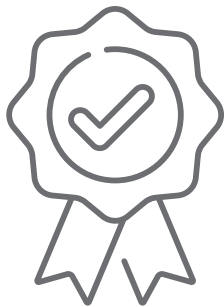
## Our Commitment to the Environment

There are approximately 50 billion water bottles consumed around the world each year, and only about half of those get recycled. The rest end up in landfills, littered through our neighborhoods, or floating in our oceans.

Bottled water consumption has more than doubled since 2000; in 2015 there was the equivalent of more than 5 bottles of water consumed for every person in the USA every single week. This, of course, means that the amount of oil required to produce the energy used for the water bottling process continues to grow.

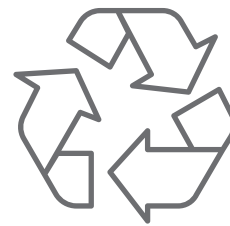
In 2007, the last year global statistics of oil consumption were available, between 32 million and 54 million barrels of oil were used to produce the bottled water that was consumed in the USA alone. This energy is used to make the bottles from PET pellets (1 million tons in the USA), treat water, bottle the water, label the bottles, and transport the bottled water. Most of the energy consumption occurs in the creation of the bottles themselves. To help in the lifecycle of this plastic product, we have chosen to manufacture our material so that it recycles these PET bottles. We are doing our part to reduce the waste. This acoustical and tackable material is made from PET bottles in a zero-waste process with postindustrial recycling. An environmentally friendly, sustainable, and waste reduced alternative to traditional acoustical/tackable material that looks great in any office, education, or open space installation.

## ezoBord is



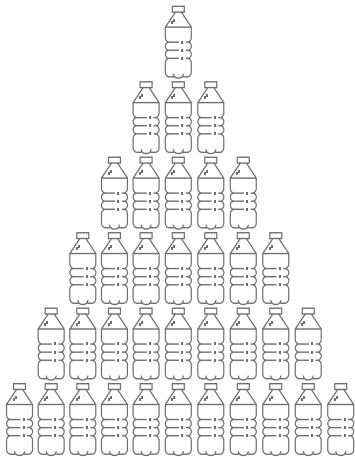
- low VOC
- formaldehyde free

## DID YOU KNOW...



For every pound of recycled PET bottles (approximately 23) energy use is reduced by 84% and greenhouse gas emissions are reduced by 71%.

## + - 166 PET BOTTLES



are used to make one 9mm thick ezoBord sheet

## + - 318 PET BOTTLES



are used to make one 12mm thick ezoBord sheet





Rail enhances any space.





Design configurations are limitless.



Rail wood printed Baffle.

ezoBord™



[www.ezobord.com](http://www.ezobord.com)