



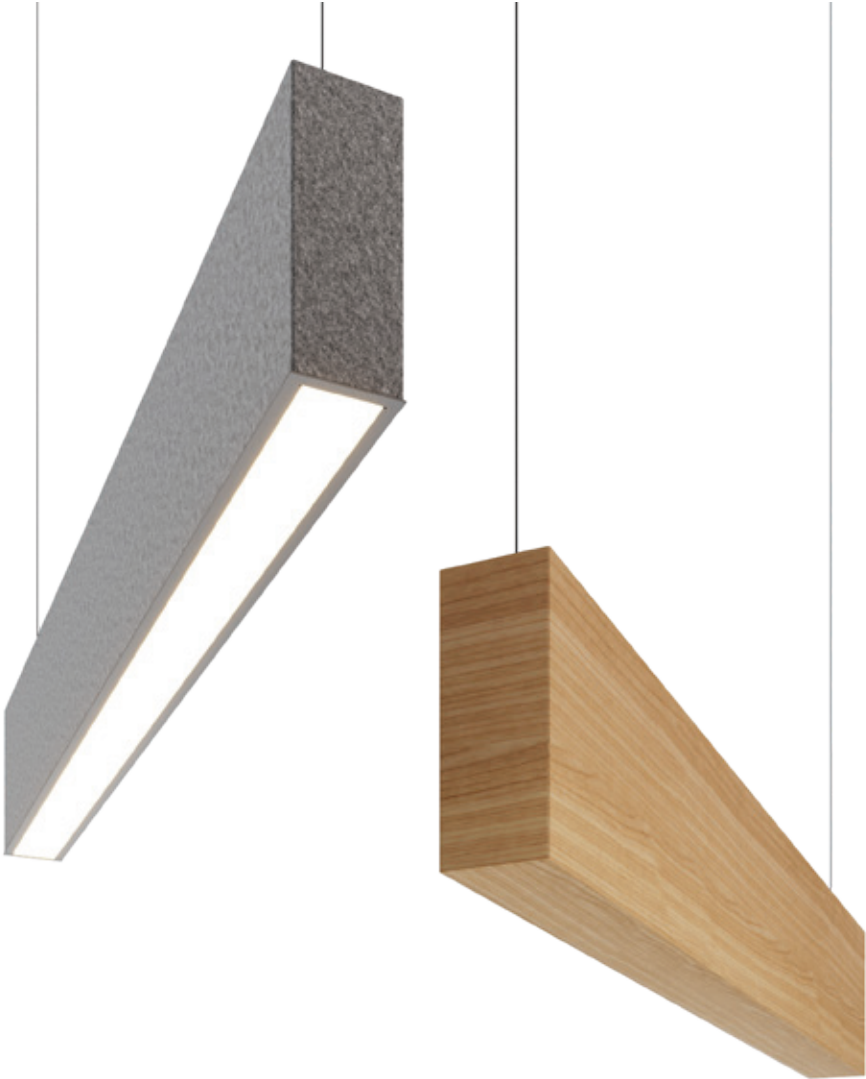
RAIL

EZO
B O R D



MEET RAIL

Cross Configuration: Rythm and sequence

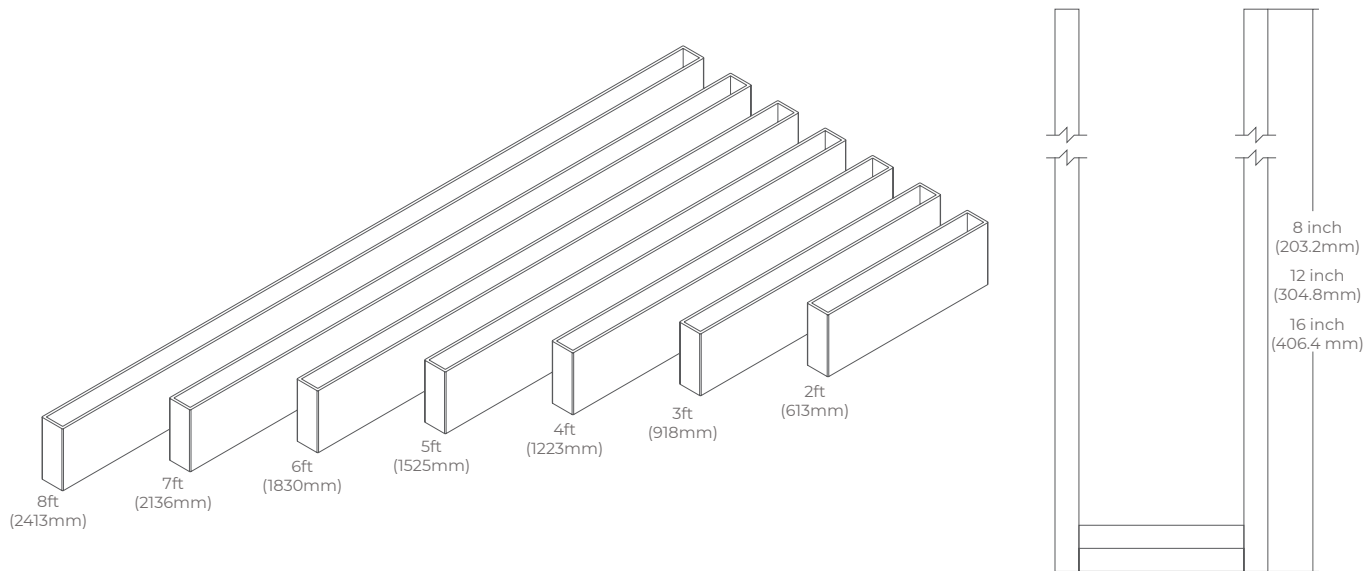


With Rail we are going beyond illumination for interior spaces. True to our acoustic roots, we incorporate the performance of EzoBord material to LED technology providing a synergistic relation between acoustics and lighting as a solution to high-end noise levels, reverberation and poor lighting issues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

RAIL

ACOUSTIC BAFFLES



LENGHTS		HEIGHTS	<div><div>THICKNESS</div><div>3/8" (9mm) or 1/2" (12mm) ±0.5mm</div><div>WEIGHT</div><div>3/8" (9mm) sheet: 8.4lbs (3.8kg) ±5% 1/2" (12mm) sheet: 16.0lbs (7.26kg) ±5%</div><div>HARDNESS</div><div>60-65 (Shore C)</div></div>
2ft (609.6 mm)	6ft (1828.8 mm)	8 Inch (203.2)	
3ft (914.4 mm)	7ft (2133.6 mm)	12 Inch (304.8)	
4ft (1219.2 mm)	8ft (2438.4 mm)	16 Inch (406.4)	
5ft (1524 mm)			

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

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

- FIRE TESTING**
- NORTH AMERICA:**
- ASTM E-84 Class A*
 - CAN ULC S102-10
- EUROPE AND UK:**
- EN13501-1: 2007

ACOUSTICS
Refer to ASTM C423 test chart for specific absorption rates/frequency.

- 3/8" (9mm): NRC 0.75 (subject to mounting conditions and geometrical properties)
- 1/2" (12mm): NRC 0.85 (subject to mounting conditions and geometrical properties)

(subject to mounting conditions and geometrical properties)

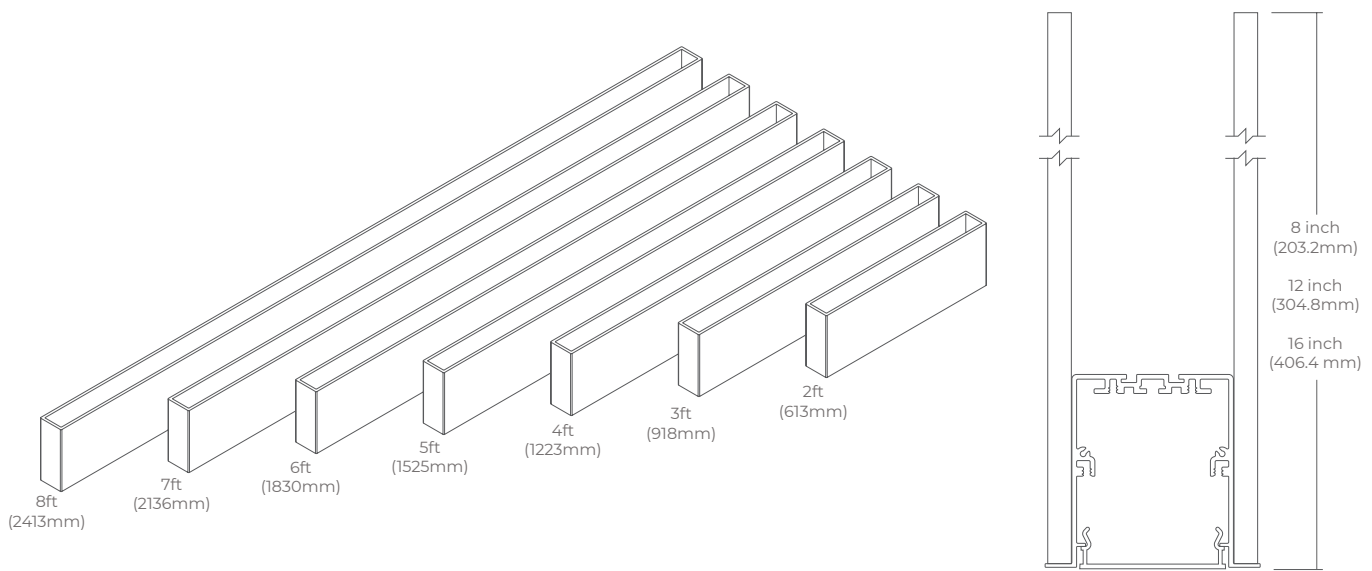
ENVIRONMENT
Made of polyester fiber, min. 50% of which comes from recycled water bottles which contributes to LEED MR Credit and BREEAM Health and Wellbeing, Materials points due to recycled content, acoustic performance, and low emitting materials. No VOC's: CDPH v1.2 and REACH SVHC Compliant.

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.

RAIL

LED LIGHTS



LENGHTS		HEIGHTS	<div><div>THICKNESS</div><div>Aluminum end caps.OPTICAL SYSTEM</div><div>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.</div></div>
2ft (609.6 mm)	6ft (1828.8 mm)	8 Inch (203.2)	<div><div>WEIGHT</div><div>0.95 kg/300mm [2.1 lb/ft]</div></div>
3ft (914.4 mm)	7ft (2133.6 mm)	12 Inch (304.8)	
4ft (1219.2 mm)	8ft (2438.4 mm)	16 Inch (406.4)	
5ft (1524 mm)			

HOUSING
Rigid extruded aluminum body, 2.0mm (0.08") nominal wall

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.

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.

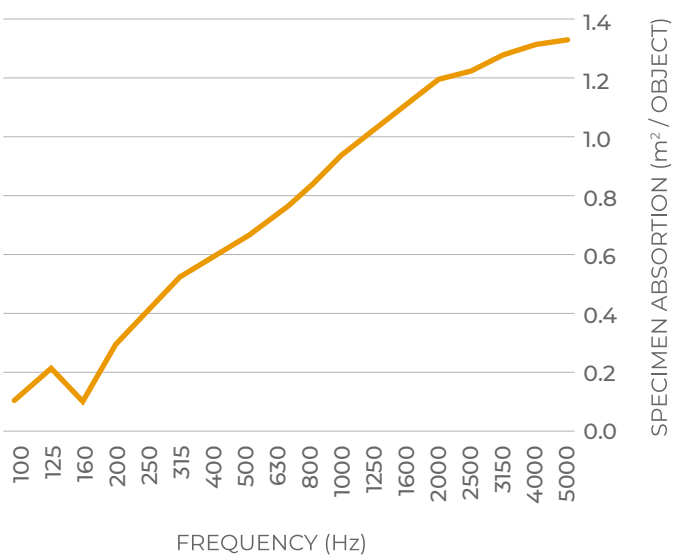
ENVIRONMENT
Suitable for dry or damp locations.

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

ACOUSTIC DATA

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

LIGHT DATA

COLOR TEMPERATURES



3000K



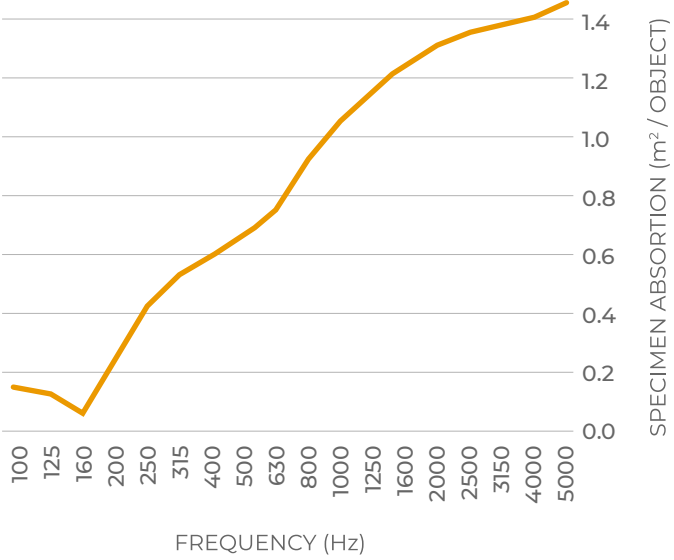
3500K



4000K

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

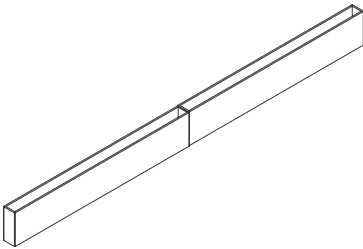
LIGHT LEVEL PERFORMANCE

3500K, 80 CRI, 0-10V Dimming (Standard)
per 60000 HOURS of use

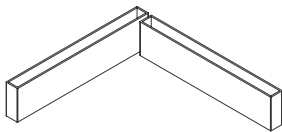
Light Level	Lumens per foot	Wattage per foot	Efficacy (lm/W)
L1	500	5.0	99
L2	750	7.6	99
L3	1000	10.1	99



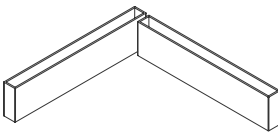
CONFIGURATION OPTIONS



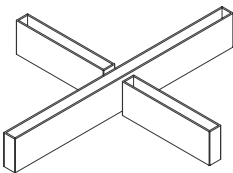
ALIGNED



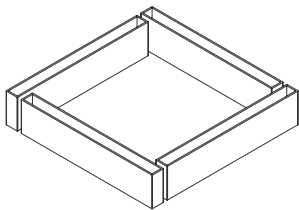
CORNER



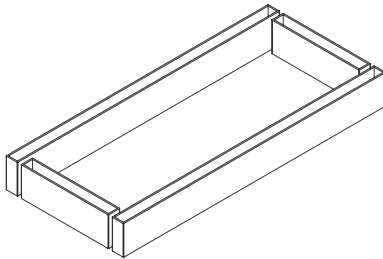
T-SHAPE



CROSS



SQUARE

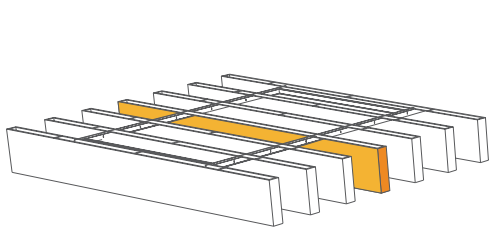


RECTANGULAR

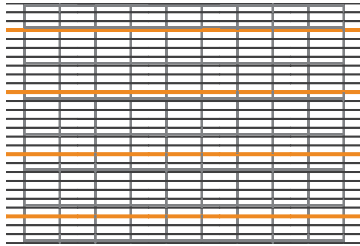


Grid Configuration: illumination and sound absorption at its best

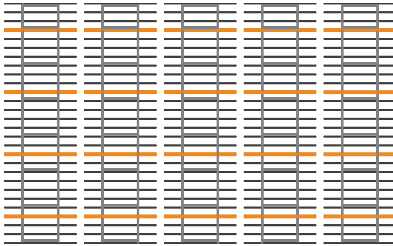
RAIL+RAIL CONFIGURATION



MODULE

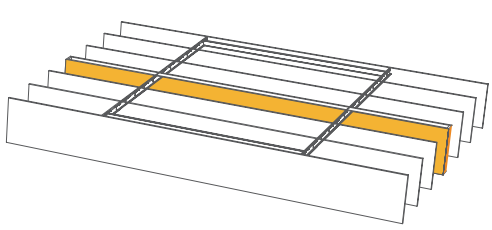


FULL CEILING

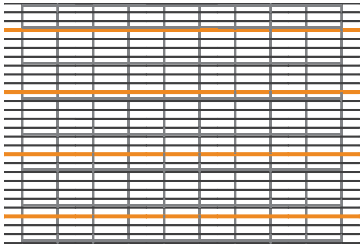


ROWS

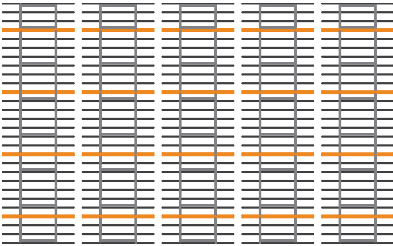
RAIL+VESI CONFIGURATION



MODULE



FULL CEILING



ROWS



RAIL+ RAIL: acoustic and light performance design.



RAIL+ VESI: changing the game



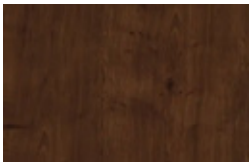
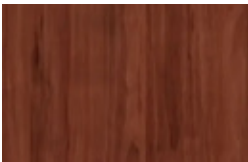

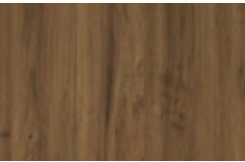




RAIL + VELDI CONFIGURATION





MIX & MATCH YOUR COLORS

PRINT WOOD FINISH & *BASE MATERIAL

				
DARK OAK W-DO-07 CG06	GREY OAK W-GO-08 SG04	WENGE W-WE-02 CG06	APPLE W-AP-05 CG06	CHERRY MATE W-CM-03 DS10
				
WALNUT W-WA-01 DG34	ASH W-AS-06 DS10	YELLOW OAK W-YO-09 DS10	MARMAR MAPLE W-MM-04 DS10	BIRCH SAND W-BS-10 DS10

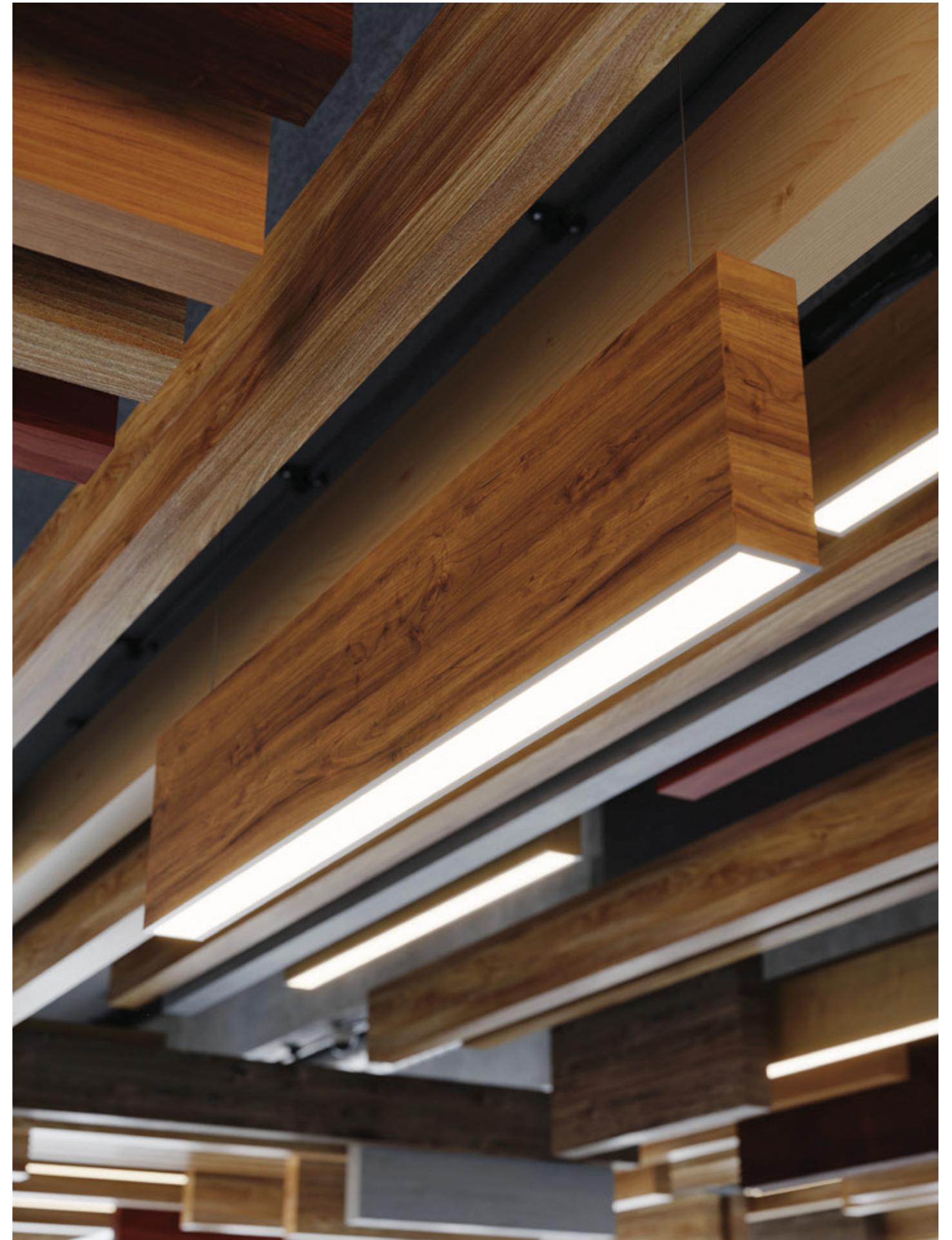
COLOR & FINISHES

COLORS 3/8" (9MM)

				
PURE BLACK PB09	CHARCOAL GRAY CG06	EBONY SLATE ES07	DARK GRAY DG34	SILVER GRAY SG04
				
CLASSIC WHITE CW04	LIGHT BEIGE LB01	DESERT SAND DS10	SUNNY DAYS SD18	TIGER ORANGE TO24
				
RUBY RED RR28	DEEP PURPLE DP30	MIDNIGHT NAVY MN12	POLAR ICE PI14	GREEN APPLE GA41

COLORS 1/2" (12MM)

				
PURE BLACK PB09	CHARCOAL GRAY CG06	BOLD GRAY BG07	ELEPHANT GRAY EG11	SILVER GRAY SG04
				
CLASSIC WHITE CW04	DESERT SAND DS10	TREE BARK TB35	SUNNY DAYS SD18	BRICK RED BR34
				
GRAPE VINE GV36	ROYAL BLUE RB08	POLAR ICE PI14	OCEAN BLUE OB14	MOSS GREEN MG10



ENVIRONMENT

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



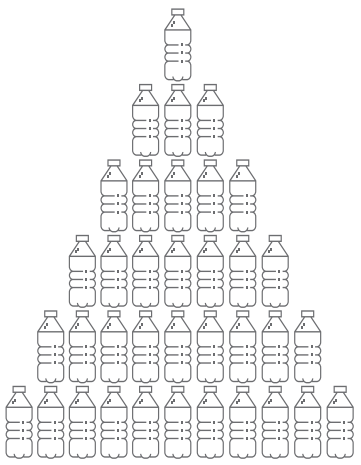
- low VOC
- formaldehyde free

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





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