



# RAIL

BAFFLE

DIRECT

DIRECT/INDIRECT

ezo  
BOARD





## MEET RAIL



Rail Acoustic Baffles are a great solution to control spaces with high indexes of reverberation. Rail Baffle's shape optimizes the NRC performance of every room. This product can be used in hospitality and office spaces. Rail Direct/Indirect represents the latest in acoustic ceiling lights, now with an ability to illuminate both the ceiling above as well as the work surface below. Like its sister acoustic lighting products, Rail Direct/ Indirect delivers both the benefits of lighting and the acoustical integrity that defines EzoBord. It also has the added ability to be hung and displayed at an angle. Aesthetically, Rail Direct/ Indirect delivers choice in design allowing for a selection of cladding material finishes, including wood print.

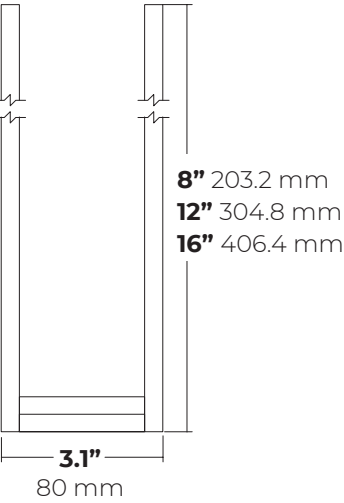
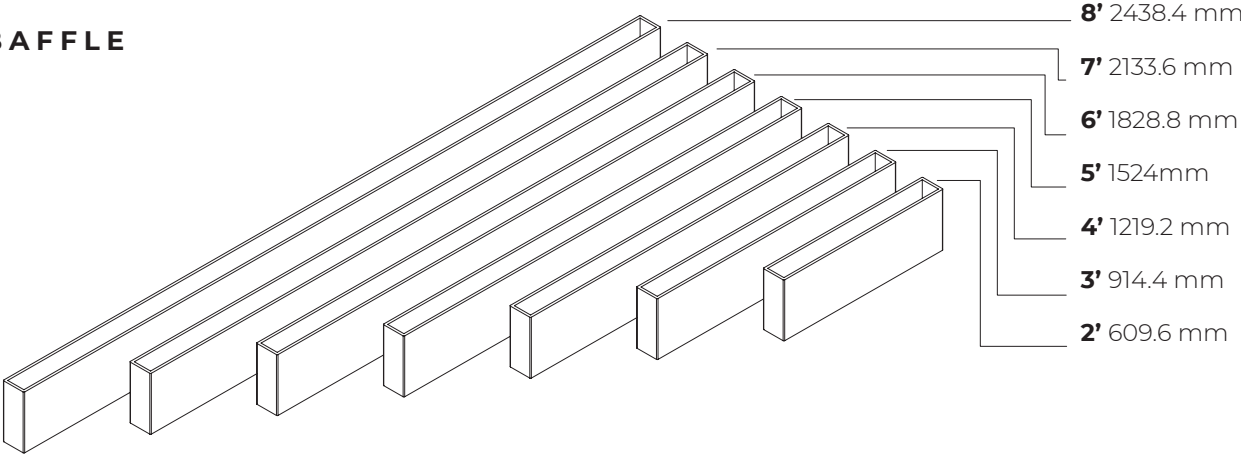






# SPECIFICATIONS

## RAIL BAFFLE



THICKNESS	3/8" 9mm or 1/2" 12mm   $\pm 0.5mm$
WEIGHT	3/8" 9mm sheet: <b>8.4lbs</b> 3.8kg   $\pm 5\%$ 1/2" 12mm sheet: <b>16.0lbs</b> 7.26kg   $\pm 5\%$
HARDNESS	60-65 (Shore C)

### COMPOSITION

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

### ACOUSTICS

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

- **3/8"** (9mm): **0.30 - 0.75 NRC**
- **1/2"** (12mm): **0.40 - 0.80 NRC**

*(subject to mounting conditions)*

### FIRE TESTING

#### NORTH AMERICA:

- ASTM E-84 Class A\*
- CAN ULC S102-10

#### EUROPE AND UK:

- EN13501-1: 2007

*\* Upon request, 1/2"(12mm) sheet material is treated with USA origin post-production flame retardant to Class A surface burning characteristics. Post sheet production FR treatment does not contain any Red List Restricted Chemicals and complies with California Proposition 65. Contact customer service for technical information, test data and safety data sheets for flame retardant*

### 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.

### ENVIRONMENT

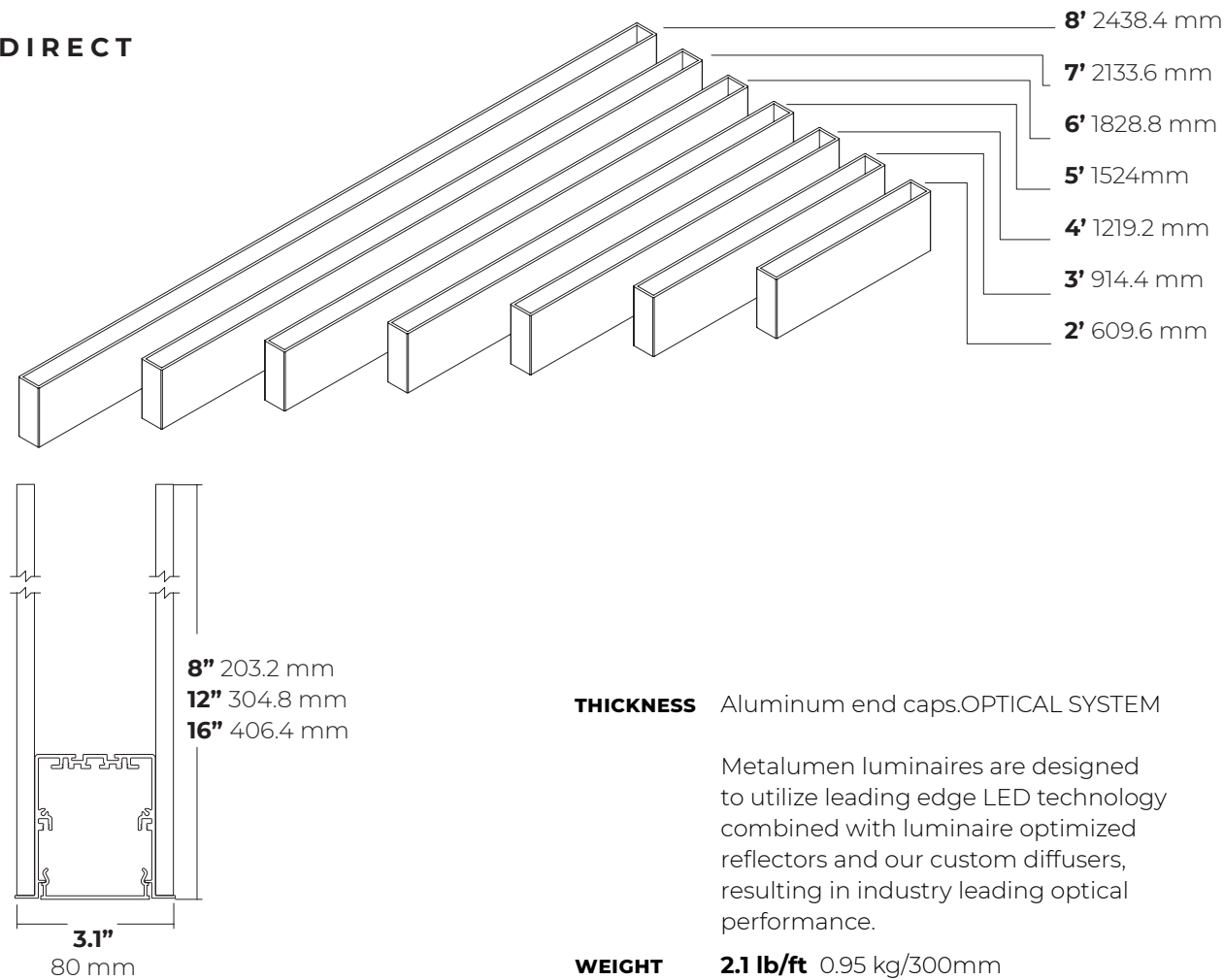
Made of polyester fiber, min. 50% of which comes from recycled water bottles which contributes to LEED MR Credit and BREEAM Health and Wellbeing, Materials points due to recycled content, acoustic performance, and low emitting materials. No VOC's: CDPH v1.2 and REACH SVHC Compliant.





# SPECIFICATIONS

## RAIL DIRECT



**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.

**WEIGHT** 2.1 lb/ft 0.95 kg/300mm

### 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.

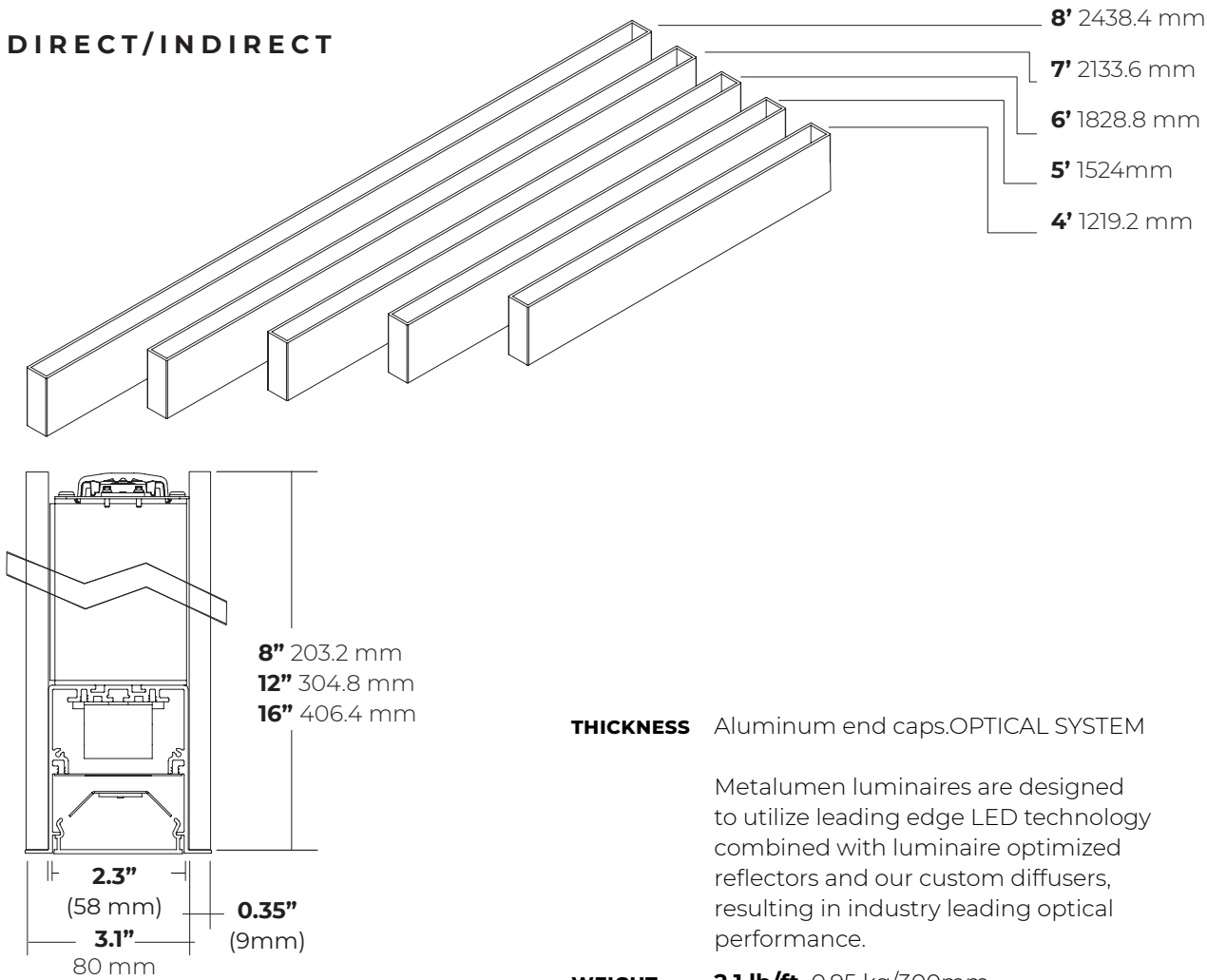
*\*Standard drivers compatible with passive/ sinking dimmers. Please contact Metalumen if active/sourcing dimmer support is required.*





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## RAIL DIRECT/INDIRECT



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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.

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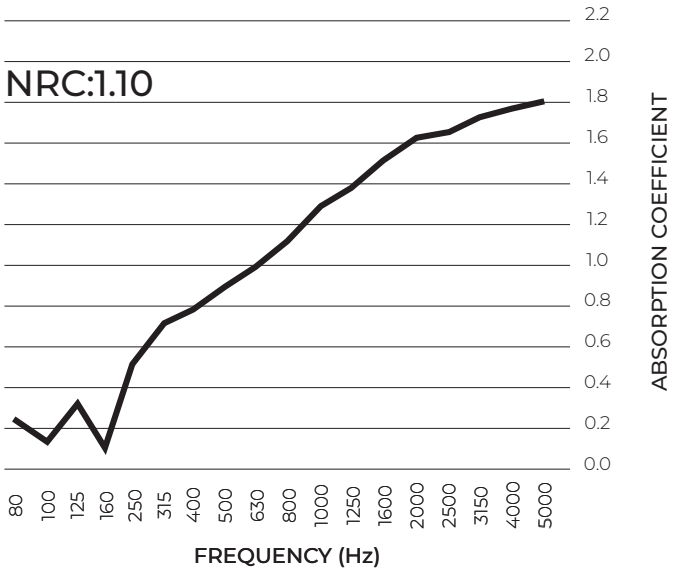
## NOISE REDUCTION - 3/8" (9MM)

Baffles for LED lighting 3/8" (9mm) material  
**MODEL:** LIT (6 objects, 12 in. apart)  
**AVERAGE SABINS:** Per Lineal Metre: 3.76  
Per Lineal Foot: 1.15

### SOUND ABSORPTION COEFFICIENTS

ASTM C423-17

NRC	SAA	125	250	500	1000	2000	4000
1.10	1.07	0.28	0.54	0.89	1.27	1.62	1.78



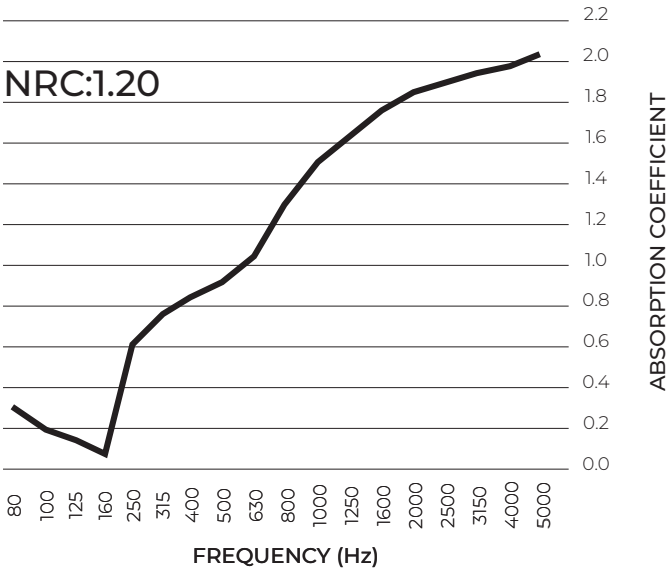
## NOISE REDUCTION - 1/2" (12MM)

Baffles for LED lighting 1/2" (12mm) material  
**MODEL:** UN-LIT (6 objects, 12 in. apart)  
**AVERAGE SABINS:** Per Lineal Metre: 4.14  
Per Lineal Foot: 1.26

### SOUND ABSORPTION COEFFICIENTS

ASTM C423-17

NRC	SAA	125	250	500	1000	2000	4000
1.20	1.20	0.18	0.61	0.93	1.49	1.84	1.97



## LIGHT DATA

### COLOR TEMPERATURES



3000K



3500K



4000K

### LIGHT LEVEL PERFORMANCE

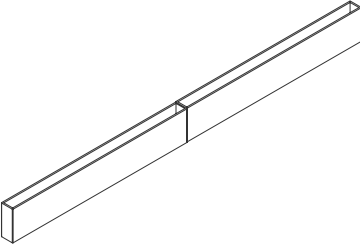
3500K, 80 CRI, 0-10V Dimming (Standard)  
per 60000 HOURS of use

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

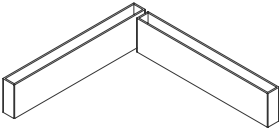




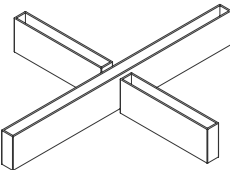
CONFIGURATION OPTIONS



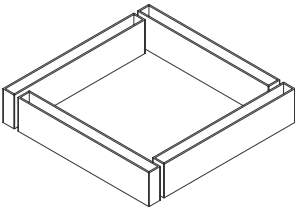
ALIGNED



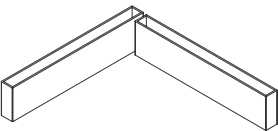
CORNER



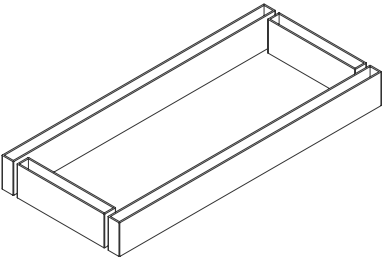
CROSS



SQUARE



T-SHAPE

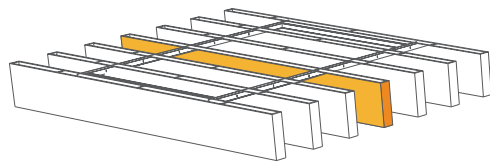


RECTANGULAR

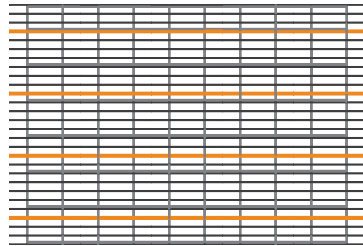




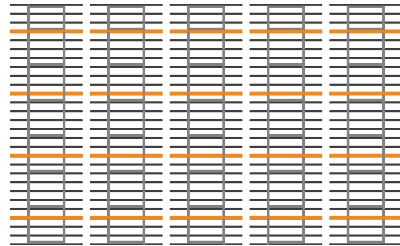
RAIL+RAIL CONFIGURATION



MODULE

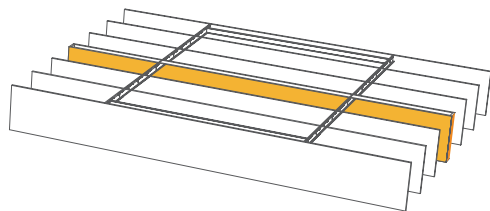


FULL CEILING

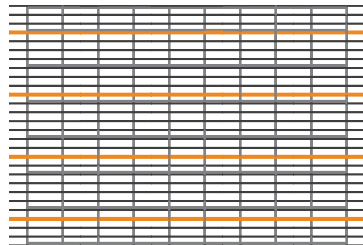


ROWS

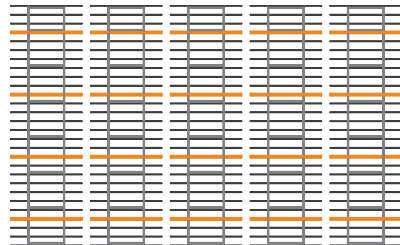
RAIL+VESI CONFIGURATION



MODULE

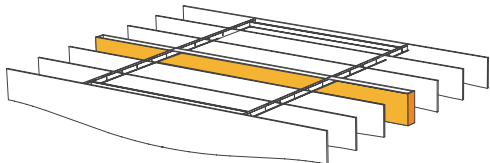


FULL CEILING

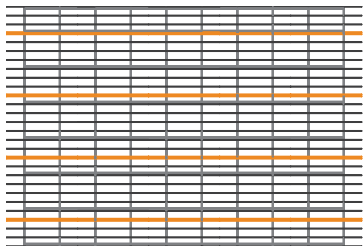


ROWS

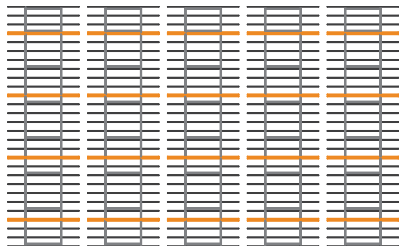
RAIL + VELDI CONFIGURATION



MODULE



FULL CEILING



ROWS









# 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.

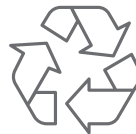
In 2007, the last year global statistics of oil consumption were available, between 32 million and 54 million barrels of oil were used to produce the bottled water that was consumed in the USA alone. This energy is used to make the bottles from PET pellets (1 million tons in the USA), treat water, bottle 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



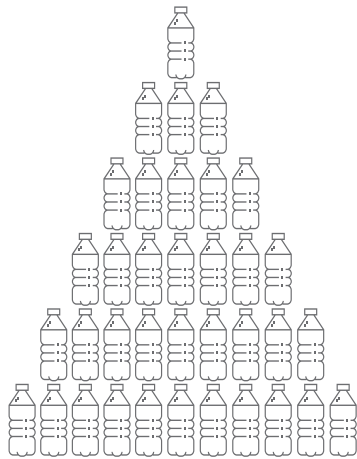
- Low VOC
- Formaldehyde free

## 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%.

## PET BOTTLES



- ± 166 pet bottles are used to make one  $\frac{3}{8}$ " 9mm thick EzoBord sheet.
- ± 318 pet bottles are used to make one  $\frac{1}{2}$ " 12mm thick EzoBord sheet.





## CANADA

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## CENTRAL & LATIN AMERICA

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