

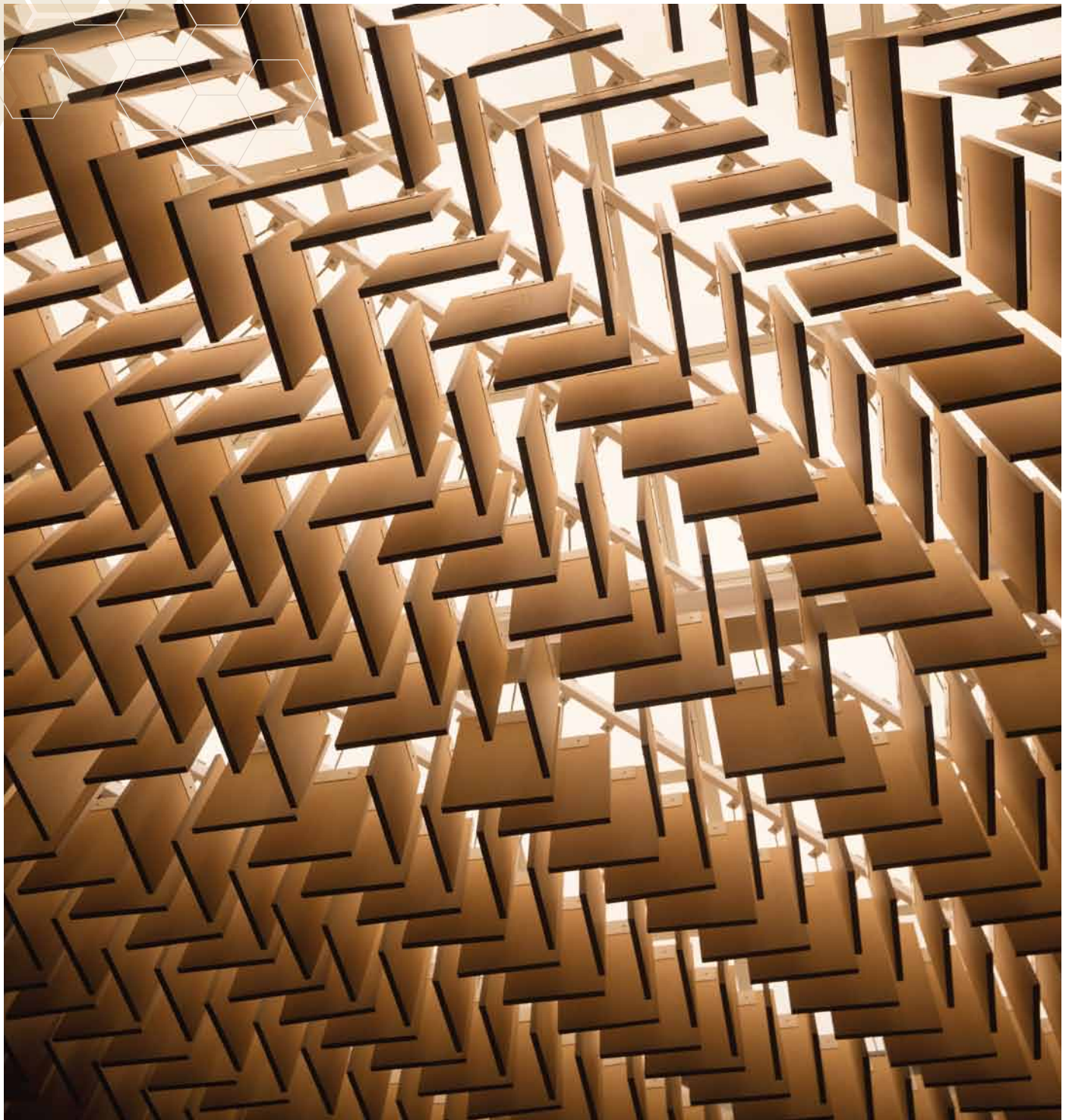
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# PANOLITE



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LIGHT. STRONG. **BOLD.**



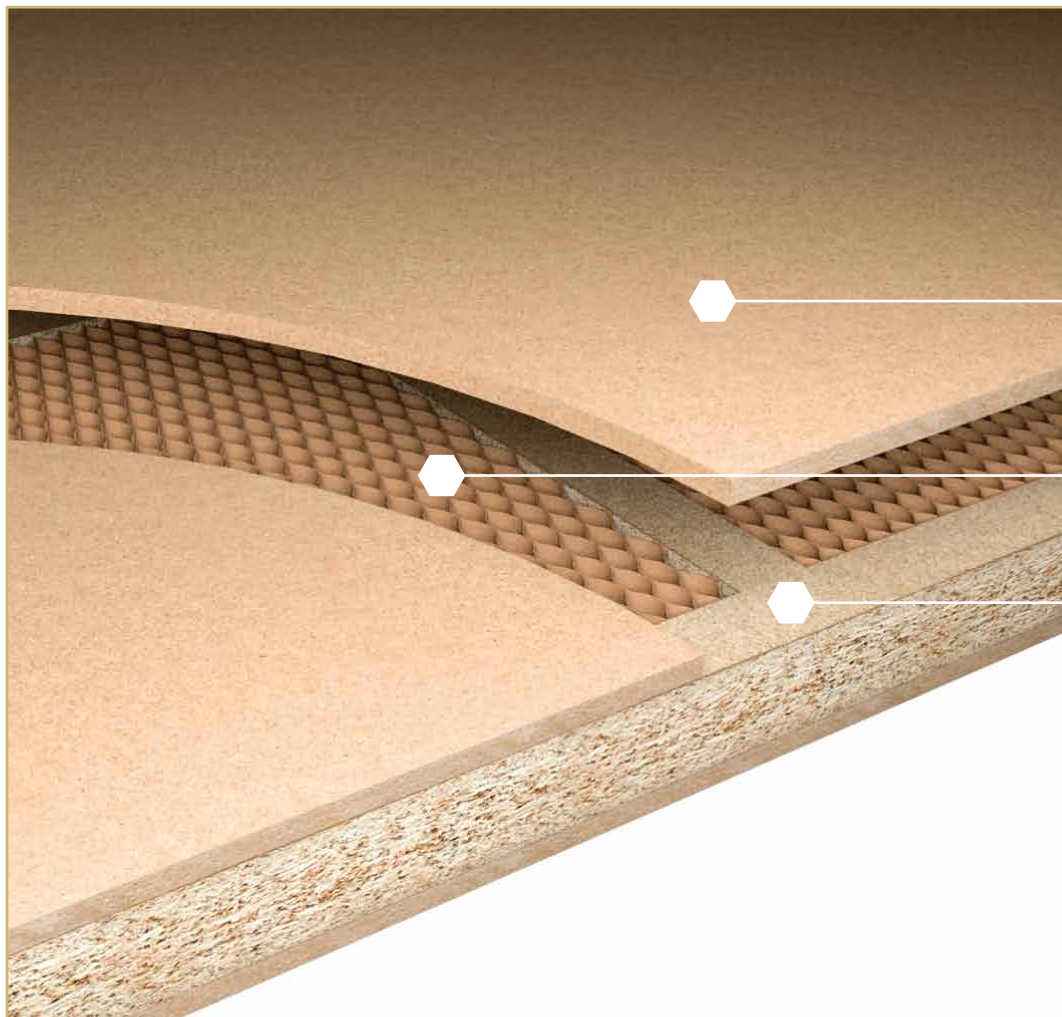
Suggested application: suspended panels

## CHALLENGING SPACE AND GRAVITY

**PANOLITE™** is a lightweight composite panel made of two surface board layers and a honeycomb core. A multitude of finishes can be applied on the surface to create different looks depending on the planned usage.

**PANOLITE™** allies low weight and high strength, two seemingly contradictory properties that are difficult to find combined within other materials, especially when greater thickness is required.

**PANOLITE™** lightweight panels offer visual appeal and design flexibility. They can be used in a wide variety of commercial, institutional, architectural or residential applications.



SURFACE PANEL

HIGH STRENGTH  
HONEYCOMB  
CELL

STRUCTURAL  
FRAME





LIGHT.  
STRONG.  
BOLD.



**LIGHT** The thickness of a finished product should no longer be a barrier for your project, especially in a suspended application. Lightweight panels are easy to handle and install, and they reduce costs on your projects.



**STRONG** By adopting the natural shape of honeycomb cells, PANOLITE™ is using nature's smartest design for achieving maximum strength with a minimum amount of material.



**BOLD** With a thickness up to 3 inches, PANOLITE™ offers the opportunity to create volumes and shapes difficult to obtain with other materials. It can be used in vertical or horizontal applications with a contemporary design.



**STABLE** Being a true composite material, PANOLITE™ engineered lightweight panels deliver high performance dimensional stability. Instead of bending under its own weight, the panel will maintain its flatness.



**ECONOMICAL** Compared to solid wood panels, PANOLITE™ is a very cost-effective solution for creating thick panels. The low weight of PANOLITE™ also significantly reduces shipping and handling costs.







## ENVIRONMENTALLY FRIENDLY

**RECYCLED MATERIALS** Made of recycled natural materials, PANOLITE™ not only offers a very high technical performance, it is also a product that is eco-responsible and sustainable. PANOLITE™ is one of the very few options available on the market for « green » panels in thicknesses above 1 1/8".

**PANEL WITHOUT UREA FORMALDEHYDE** Our manufacturing process is NAUF (no added urea-formaldehyde). NAUF/ULEF (ultra-low emitting formaldehyde) panels are available on special order.

**LEED®** PANOLITE™ lightweight panel qualifies for up to 5 LEED® points based on recycled content, local sourcing as well as indoor air quality.

  
**NAUF / ULEF**





# A LOGICAL CHOICE FOR ENVIRONMENT SUSTAINABILITY



## LEED CREDITS

CATEGORY	GOAL	REQUIREMENTS	CREDITS	QUALIFYING PANOLITE CONTENT
<b>MR 4.1, MR 4.2 recycled content</b>	Increase the use of products that incorporate recycled content material.	Sum of recycled content constitutes at least 10% (MR 4.1) or 20% (MR 4.2) of materials in the project.	10% - 1 point 20% - 2 points	Honeycomb core, surface panel (Particleboard, MDF, HDF).
<b>MR 5.1, MR 5.2 regional materials</b>	Increase the use of materials that are extracted and manufactured within the project region.	5.1 Use a minimum of 30% (20% in US version) of the combined value of construction materials and products manufactured within a 500 miles radius of the project.  5.2 In addition to the requirements of MR 5.1, use a minimum of 20% (10% in US version) of the combined value of construction materials and products extracted, harvested, recovered, processed or manufactured within a 500 miles radius of the project.	5.1 – 1 point 5.1 and 5.2 – 2 points	PANOLITE is manufactured in Lac-Mégantic, Quebec, Canada and the wood fiber is recovered near the manufacturing facilities of the PANOLITE components. See note below for typical distances.
<b>EQ 4.4 indoor environmental quality</b>	Improve indoor air quality.	Composite wood products must contain no added urea formaldehyde resins.	1 point	Panolite panels can be certified ULEF (ultra low emitting formaldehyde)

Note regarding MR 5.1, 5.2: Cities within a 800 km radius (500 miles) from Lac-Mégantic: Montreal, QC 209 km, Portland, ME 220 km, Boston, MA 360 km, Ottawa, ON 377 km, Moncton, NB 476 km, Halifax, NS 584 km, New York, NY 599 km, Rochester, NY 600 km, Toronto, ON 708 km, Philadelphia, PA 718 km, Sudbury, ON 789 km.

PANOLITE™ leads the way to infinite possibilities

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BATHROOM



COMMERCIAL FURNITURE



STORE FIXTURE





# A WIDE VARIETY OF APPLICATIONS

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## DISPLAY & SIGNAGE



## DIVIDER



## OFFICE FURNITURE



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HOME FURNITURE



KITCHEN



SHELVING





## A WIDE VARIETY OF APPLICATIONS

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SUSPENDED PANEL



DOOR



WALL / ARCHITECTURAL PANEL







All lightweight panels can be assembled with a wide variety of surface layers such as particle board, HDF or MDF and offered in a broad range of finishes such as melamine, HPL, real wood veneer or unfinished blank.

The panels are also available in different thicknesses from  $\frac{3}{4}$ " up to 3" in dimensions up to 61" x 121" depending on the required material and finish.

**PANOLITE™** A standard frameless panel mostly designed for customers who prefer to cut, frame and finish the panels themselves. Surface mount hardware and edge banding can be directly applied without reinforcements with a  $\frac{1}{4}$ " or  $\frac{3}{8}$ " surface panel.



**PANOLITE PLUS™** A lightweight panel identical to the PANOLITE™ with an added long  $1 \frac{1}{8}$ " edge reinforcements ready to be drilled, milled or edge-banded for better flexibility.

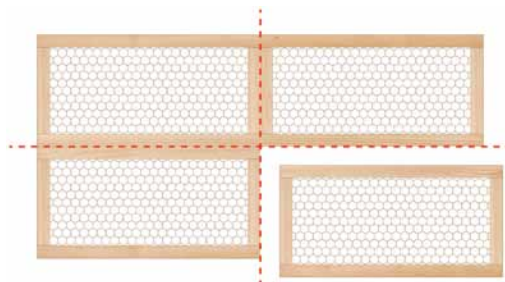


**PANOLITE ELEMENT™** A ready to use, cut-to-size component manufactured with strategically placed framing elements based on the customer's need. PANOLITE ELEMENT™ can be used with any standard edgebanding and hardware in exactly the same manner as they would be used with traditional panels.

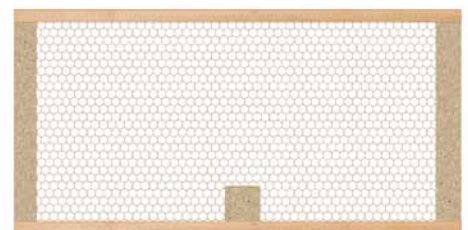


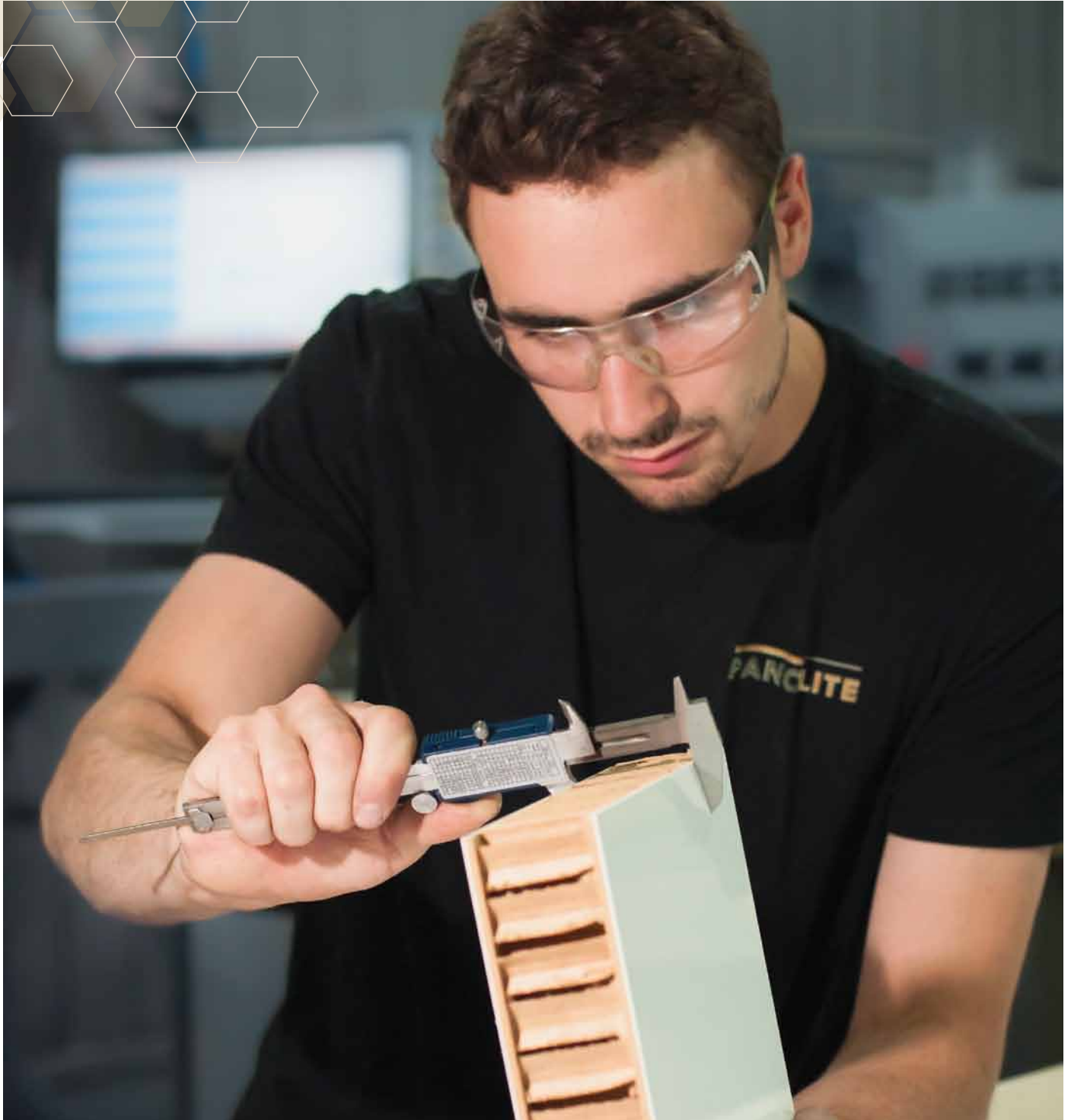
### Suggested applications:

Shelves  
or custom  
components



Door with  
framing for  
handle








# TECHNICAL SPECIFICATIONS

## SURFACE LAYERS / THICKNESS COMBINATIONS

		3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/4"	2 1/2"	2 3/4"	3"
HDF 1/8"		✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	
MDF 1/4"				✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓
Particleboard 3/8"						✓	✓	✓		✓	✓	✓	✓	✓	✓	✓

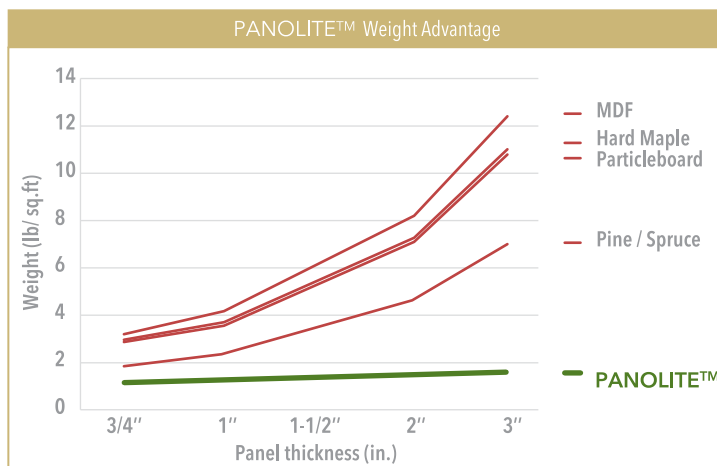
## DIMENSION TOLERANCES

	PANOLITE™		PANOLITE PLUS™		PANOLITE ELEMENT™	
Length and Width Tolerance	± 0.250"	± 6.0 mm	± 0.250"	± 6.0 mm	± 0.063"	± 1.6 mm
Thickness Tolerance	± 0.025"	± 0.6 mm	± 0.025"	± 0.6 mm	± 0.025"	± 0.6 mm

## TECHNICAL SPECIFICATIONS

	PANOLITE™ Properties for a selected panel type: 1 3/4" (45 mm) panel with 3/8" (9,5mm) Tafipan M2 surface layer at 65% RH	
Modulus of Rupture (MOR)	1,820 psi	12.6 N/mm <sup>2</sup>
Modulus of Elasticity (MOE)	333,500 psi	2300 N/mm <sup>2</sup>
Compressive Strength	38 psi	0.26 N/mm <sup>2</sup>
Internal Bond (IB) - Unfinished particleboard	10 psi	70 kPa
Melamine coated particleboard	16 psi	115 kPa
Screwholding (face, surface panel)	202 lb	900 N
Formaldehyde Emissions (surface panel)	< 0.09 ppm (CARB phase 2)	
Climatic Dimensional Stability (65% to 95% RH over 45 days - Thickness change)	0.25% (face material) 0.21% (panel)	
Moisture Content	10% maximum	

## WEIGHT ADVANTAGE





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[WWW.PANOLITE.COM](http://WWW.PANOLITE.COM)

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