

## SoundSense Acoustic Lumber

SoundSense Acoustic Lumber is the first all-weather, environmentally-safe and fully-recyclable panel material. SoundSense Acoustic Lumber outmatches any other panel material, such as plywood, gypsum, MDF, OSB, hardboards and particleboards in many applications: it can be used wherever you would use plywood, and where the elements of weather and water are involved. SoundSense Acoustic Lumber is about 20% heavier than plywood, but it will always maintain that weight, unlike plywood when exposed to water.

SoundSense Acoustic Lumber can be painted. It will resist fire better than wood (but it can also become fire rated, with a fire retardent paint).



### Applications

- Noise reduction indoors, outdoors, underground and underwater
- Building construction
- Marine applications
- Concrete form work
- Transportation
- Open-air facilities and Outdoor Advertising
- Agriculture
- Cargo handling
- Outdoor acoustic fences

### Installation

Cut SoundSense Acoustic Lumber with a carbide tipped saw blade and you can fasten it with nails or screws (screws hold better). Contact cement and some polyurethane glue will stick to it. It does not get slippery when wet.

SoundSense Acoustic Lumber needs no tar application for concrete form work. The same piece can be reused hundreds of times, thus saving considerable costs and labor. It never cracks, splits, peels, delaminates or becomes brittle. No lumber defects - knotholes, check, shake.



## SoundSense Acoustic Lumber Properties

- Physical**

Sheet Size: 4' x 8' (1220mm x 2440mm) or Custom Sizes

Thickness: 6mm 9mm 12mm 16mm 18mm  
1/4" 3/8" 1/2" 5/8" 3/4"

Sheet Weight: 36 lbs 50lbs 70lbs 88 lbs 98 lbs

Number of  
Sheets per Lift: 60 50 40 30 25

Shipping Weight  
per Lift (lbs): 2255 2595 2895 2735 2545

Surface Texture: Slightly Textures

Color: Natural, Grey, or Custom Colors

Tolerance: Length 96" + 1/8 @ 70 Degrees Fahrenheit  
Width 48" = 1/16" @ 70 Degrees Fahrenheit  
Squarness + 3/16"  
Thickness + 0.5mm

- Specifications**

<i>Item</i>	<i>Test Standard</i>	<i>Results (Ft-lb-in)</i>	<i>Results (Metric)</i>
Density	ASTM D2395-83	56.2 lbs/ft	.9 kg/m
Impact Strength	ASTM D3029-90	40.0 ft/lbs	5.5 mm/kg
Flexural Strength – Maximum Fiber Stress	ASTM D790-91	5058.0 psi 3512.5 psi	Long. 36.0 mpa/ Trav. 25.0
Flexural Modulus of Elasticity	ASTM D790-91	78200 psi 44342 psi	Long. 556.5 Mpa Trav. 315.6
Tensile Strength	ASTN D638-91	1264.5 psi 983.5 psi	Long 9.0 Trav. 7.0
Moisture Content	ASTM D4442-92	0.35%	0.35%
Water Absorption	ASTM D570-81	1.90%	1.90%
Compression Rating (Hardness)	ASTM D1037-91	4451 psi	30711.9 kPa
Thermal Resistance (R Value for _")	ASTM C518-4/E380-9a	1.386 (F.ft .h/Btu)	0.244 (m .KW)
Sound Transmission Loss	ASTM E90-90/E492-90	56.5 Db	56.5 dB
Flammability	FMVSS NO. 302	0.15 in/min	0.15 in/min

Code RNER

