

FREQUENTLY ASKED QUESTIONS

1. ***What can Polyboard do for me?***

A: ***Polyboard*** is your perfect solution whenever you need a product to combat the horrid weather, flood, moisture, dry rot, termites; or to double your trailers' lifespan or save your farm from animal diseases. ***Polyboard*** is well known as the "*Savior of Hardwood Floors*", "*Trucks and Trailers' Protector*" and "*Patron Saint of Animal Farms*". However, the application of ***Polyboard*** can only be limited by your imagination! For Ricochets? Oyster-breeding? Ice rinks?

2. ***Why is it that Polyboard can claim to be a 200% eco-friendly product?***

A: ***Polyboard***, itself made of recycled materials, offers 200% environmental protection by eliminating the polluting plastic waste to save our precious trees and rainforests so as to reduce global warming which brings drastic climate changes, disastrous storms and floods, and horrible diseases.

3. ***Doesn't Polyboard produce waste like all other materials?***

A: ***Polyboard*** produces virtually no waste as it is everlasting, reusable, 100% recyclable and available in custom sizes for perfect-fit, thus reducing cutoffs and waste to almost nil. That is what recycling is about!

4. ***How could Polyboard outperform plywood and all other panel materials?***

A: ***Polyboard*** outperforms plywood and all other panel materials in all applications: indoor, outdoors, underground and underwater because of its unrivalled features. ***Polyboard*** is waterproof, damp-proof, decay-proof, weatherproof, soundproof, leakage-proof, corrosion-resistant, termite-repellent, scuff-resistant, heavy impact resistant, UV-resistant, freeze-thaw-resistant, power-washable. It is also non-toxic, odorless, arsenite-free, shock-absorbing, resilient and non-contaminable. Moreover, its solid body cuts off moisture and noise completely and it will remain intact in water for decades.

5. ***How does Polyboard compare with plywood or wood-based panels in usage?***

A: ***Polyboard*** is easy to use like wood but it does not have any lumber defects whatsoever, such as knotholes, shake, check, and it is 12 times

tougher than wood. **Polyboard** has proven to be the best resilient and shock-absorbing anti-moisture subflooring for hardwood and laminated floors, preventing them from buckling or curling up, and thus won the acclaim as the “*Savior of Hardwood Floors*”. **Polyboard** can be used in sub-zero temperatures, as it does not crack, splinter or delaminate under any climate condition.

6. In contrast to Polyboard’s features, what are those of plywood?

A: A comparison will clearly show the marked difference:

Waterproof

Polyboard never swells, buckles or delaminates underwater.

Plywood swells, delaminates and disintegrates in water.

Decay-proof

Polyboard never decays in open air, water, snow and underground.

Plywood decays in wet environment or outdoor exposure.

Damp-proof

Polyboard cuts off moisture completely -- from humid air to heavy rain.

Plywood absorbs and emits moisture, thus buckling the timber floor.

Leakage-proof

Polyboard never leaks through its solid body.

Plywood absorbs water, thus quickly leading to leakage.

Weatherproof

Polyboard is unaffected by any climate condition.

Plywood is affected by all outside elements – dry and wet; hot and cold.

Corrosion-resistant

Polyboard never corrodes by seawater, thinner, alkali, acid or chemicals.

Plywood is highly vulnerable to such corrosive materials.

Soundproof

Polyboard provides excellent sound insulation – 56.5 dB.

Plywood transmits sound and noise.

Freeze-Thaw-resistant

Polyboard never becomes brittle or delaminates in sub-zero temperatures.

Plywood becomes brittle in sub-zero temperatures and will crack, splinter and delaminate.

Forklift Ramming-resistant

Polyboard withstands forklift ramming, heavy knocks and scuffs.

Plywood is always smashed by heavy impacts and easily torn by scuffs.

Termite-repellent

Polyboard repels termites, woodworms and rodents.

Plywood breeds termites and woodworms, especially in humid areas.

UV-resistant

Polyboard resists ultra-violet rays deterioration.

Plywood is vulnerable to ultra-violet rays deterioration.

Power-washable

Polyboard is power-washable, thus ensuring hygienic condition.

Plywood cannot use water to clean as it soaks water and moisture.

Everlasting

Polyboard is almost everlasting and indestructible, lasting for 250 years.

Plywood can be easily damaged and rapidly turned into toxic waste.

Reusable

Polyboard can be re-used repeatedly, thus saving considerable costs.

Plywood is not reusable for lack of durability.

Recyclable

Polyboard is 100% recyclable for numerous times.

Plywood can never be recycled as its toxic glue makes the broken sheet an environmental hazard. Many landfills refuse to accept plywood waste.

Maintenance free

Polyboard is immune from natural erosion. It does not split, splinter or delaminate as a result of expansion and contraction. It therefore needs no maintenance, no replacement, no repainting but it is paintable!

Plywood needs no maintenance but frequent replacement and labor!

Non-toxic

Polyboard is odorless and contains no asbestos, arsenite or toxic glues. Plywood uses toxic glue -- phenol formaldehyde and is environmentally-hazardous because its toxic waste will pollute the air when incinerated and

will poison the groundwater when landfilled. Wood also contains arsenic preservative, which is now banned by the U.S. EPA.

Non-contaminable

Polyboard is non-absorbent, thus attracting no contaminants.

Plywood absorbs moist, dirt, oil, chemical and all sorts of contaminants.

7. Do I need special tools to handle Polyboard?

A: No. Use common woodworking tools will suffice. You can cut, saw, drill, chisel, rout, pop-rivet, sand, foil, fabricate, veneer, varnish or paint **Polyboard** in any way you like. **Polyboard** has excellent nail-holding ability and you may drive a nail or screw across the cut corner without breaking the sheet. No pre-drilling or special nails and screws are necessary.

It is recommended that when cutting a sheet, both sides of the cut must be supported underneath for the full length. This will help to prevent binding the saw blade.

8. How to order Polyboard in custom size? Is there a cutting charge?

A: **Polyboard** can be ordered in any special size so far as the width is not more than 48". Length is unlimited. Shorter sheets are charged at 4' x 8' prices plus a \$2/cut surcharge. However, 4' x 4' sheets are charged at half price plus the cutting charge. Longer sheets will be charged pro rata

plus \$2/cut charge or a 15% surcharge, whichever is higher. The cutting charge may be waived if over 2,000 sheets of one size are ordered.

9. Can I order Polyboard in special thickness? Is minimum order required?

A: Yes. **Polyboard** can be ordered in special thickness. The standard gauges are 6mm, 9mm, 12mm, 16mm, 18mm, 25mm and 28mm, but thinner or thicker sheets may be specially produced to meet your exact requirements for no less than 1 containerload.

10. Is Polyboard colorfast? Can I order sheets in special color?

A: **Polyboard** is available in 15 fadeless colors. Special color of your choice can be ordered but the minimum order is 600 sheets for each size and thickness. **Polyboard** is colorfast and there is no need to repaint. It is, however, paintable!

11. What type of paint is best suited for Polyboard?

A: Latex paint is the best. Spray paints of various bases work well. For instance, 17-31 Seal Grip Synthetic Primer plus PPG Manor Hall exterior or interior Premium Acrylic (2 coats) of Pittsburgh Paints provide a superior paint finish. As usual for all painting work, please make sure that the surface is clean and dry.

12. What type of glue is needed for bonding Polyboard?

A: Latex and contact adhesives are the best although wood glues can also be used for bonding **Polyboard**. Contact adhesives such as Henkel's Pattex, Jaeger 88, Rubstik have been used with good results. To fabricate very thick sheets, it is recommended to use screws and bolts in addition to the use of glue.

13. Can I use silicone caulking for the joints of Polyboard?

A: Yes, but Latex will give you better adhesion.

14. What is the thermal expansion of Polyboard?

A: **Polyboard** will expand 1/4" in an 8' sheet in a temperature range of 50° F to 75° F. It is recommended that a 1/4" gap be allowed between full sheets, especially in an outdoor setting. It is also recommended that oversized holes or slotted holes be provided to prevent buckling.

15. What is the recommended spacing for installing Polyboard horizontally?

A: In order to maximize impact resistance against forklift ramming, **Polyboard** opts for toughness rather than rigidity, and it therefore requires more supports when installed for a load-carrying application. For 12mm, 16mm and 18mm sheets, a minimum of 12" centers is recommended to reduce deflection.

16. How much weight could Polyboard withstand?

A: It depends on the installation and spacing of supports. A 500~600 lbs. load (not point-loading) would be reasonable at 70° F or lower temperature.

17. Is Polyboard heavier than wood?

A: **Polyboard** is about 20% heavier than wood, but it maintains the weight and does not absorb water like plywood and other wood-based panels.

18. What is the "R" value of Polyboard?

A: A 12mm sheet is approximately 1.4.

19. Does Polyboard contain arsenite, asbestos, phenol formaldehyde?

A: Absolutely none! **Polyboard** is non-toxic, odorless and safe to use.

20. Does Polyboard burn?

A: Very slowly and very clean. The FMVSS No. 302 Flammability Test certifies that it burns 0.15 inch per minute. (*Pass Rate: Testing at 30 degrees angle, the fire shall not burn or transmit a flame front across its surface at a rate of more than 4 inches per minute*).

21. Did you know why plywood is a big tree killer?

A: it is the consensus among scientists that plywood is a big tree killer because it requires big trees to produce plywood veneers, and its excessive use is a key factor in wanton deforestation.

For example, 1 million sheets of 18mm will have to clear cut as many as **2,473 acres** of rainforests to make! Can you imagine how many million sheets are used each year? Only the routine annual replacement of

650,000 container floorboards will kill over 2 million 20" x 25' trees, thus cutting down **26,200 acres** of rainforests! Did you know that each of these trees must take 35 to 100 years to grow?

In every hour, 20,000 acres of forests are lost forever. The world's 3 major rainforests are rapidly diminishing. Each year, Indonesia loses 7,500 sq km while 15,000 sq km was clear cut by Brazil, whose deforested area in Amazon is already 60% larger than the third largest rainforest country: Malaysia. Japan will become naked in 2 years' time if its own forests are used for producing plywood. In fact, half of the world's forests have already disappeared and in 20 years' time all forests in Southeast Asia will become extinct if the current pace is maintained!

We must take to heart the world's scientists' catastrophic verdict:
"The loss of rainforests that soak up greenhouse gases would be devastating to the globe's environment and would result in enormous decreases in air quality and increases in lung disease and cancer. The global warming brings drastic climate changes, more disastrous storms and floods, and the melting of the polar ice caps will raise sea levels to submerge many coastal cities -- London, New York, Tokyo, Shanghai!"

Alarmingly, the polar ice caps are indeed melting!

Meanwhile, tens of millions of tons of plastic waste are plaguing our environments. The incineration of plastic waste not only damages the ozone layer further to threaten our safety and living condition, but also produces the cancer-causing dioxin and polychlorobiphenyl concentrate. Burying such ashes would pollute the groundwater and the effect could be ever worse than nuclear bombardment!

Using plywood and burning plastics would doubly quicken the process of our self-destruction!

Do you wish to be a big tree killer or an eco-friend?

You too can help remedy the situation by saving trees and rainforests.