

# Polyboard

®  
Patented  
Worldwide  
GB9604236.1



The World's Unique All-Weather • Eco-Friendly • Waterproof • Colorfast Board  
*Moisture? Flood? Dry Rot? Termites? Buckling Timber Floor?  
Polyboard is the only proven solution for you!*

- ★ **WATERPROOF**
- ★ **DAMP-PROOF**
- ★ **LEAKAGE-PROOF**
- ★ **DECAY-PROOF**
- ★ **SOUNDPROOF**
- ★ **WEATHERPROOF**
- ★ **CORROSION-RESISTANT**
- ★ **TERMITE-REPELLENT**
- ★ **ANIMAL-CHEW-DETERRENT**
- ★ **FORKLIFT RAMMING-RESISTANT**
- ★ **EVERLASTING • INDESTRUCTIBLE**
- ★ **REUSABLE • RECYCLABLE**
- ★ **MAINTENANCE FREE**
- ★ **POWER-WASHABLE**
- ★ **VIBRANT COLORS • EMBOSSED PATTERNS**
- ★ **NON-TOXIC • ARSENIC-FREE**
- ★ **EASY TO USE LIKE WOOD**
- ★ **LOOK LIKE WOOD BUT BETTER THAN WOOD**
- ★ **CUSTOM-SIZE IN 6mm – 44mm X ANY LENGTH**
- ★ **THERMOFORMABLE FOR EXACT FIT**

***The 400% Eco-Protecting Polyboard outperforms other panels in all applications!***



Polyboard is produced by specially-designed,  
custom-built fully automatic equipment,  
using the unique REP Technology and formulae.

MANUFACTURER

**NEW CITY RESOURCES INC.**

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*Use Polyboard – You can help*

- *eliminate polluting waste*
- *save many precious* 
- *fight G lobal W arming*

The World's Unique All-Weather

Eco-friendly

# Polyboard

Everlasting

Colorfast Waterproof Board

- ★ **WATERPROOF**  
*It never deteriorates underwater, even for 100 years!*
- ★ **DECAY-PROOF**  
*It never rots in open air, water or underground.*
- ★ **DAMP-PROOF**  
*It never absorbs or emits moisture.*
- ★ **WEATHERPROOF**  
*It is unaffected by any climatic condition.*
- ★ **SOUNDPROOF**  
*It provides excellent sound insulation – 56.5 dB.*
- ★ **CORROSION-RESISTANT**  
*It never corrodes in seawater, alkali or acids.*
- ★ **TERMITE-REPELLENT**  
*It repels termites, woodworms, rodents.*
- ★ **RESILIENT • SHOCK-RESISTANT**  
*It is resilient, absorbing impact shocks to avoid knock-on damage. Squeak-free when walked on.*
- ★ **SOLID • NON-ABSORBENT**  
*Its solid body never peels or absorbs contaminants.*
- ★ **POWER-WASHABLE**  
*It keeps your installation always clean and hygienic.*
- ★ **FORKLIFT RAMMING-RESISTANT**  
*It withstands heavy impact, scuffs, forklift ramming.*
- ★ **ANIMAL-CHEW-DETERRENT**  
*It deters animal-chew to prevent spreading diseases.*



- ★ **EVERLASTING • INDESTRUCTIBLE**  
*It is everlasting and never breaks up when hit.*
- ★ **REUSABLE • COST-SAVING**  
*It can be used forever and reusable, thus saving considerable costs and labor. Unique!*
- ★ **MAINTENANCE FREE**  
*It is immune from natural erosion, never splintering as a result of expansion and contraction. No maintenance!*
- ★ **EASY TO USE LIKE WOOD**  
*It can be sawn, drilled, chiseled, routed, sanded, foiled, veneered, varnished, painted. Superb nail-holding ability.*
- ★ **LOOK LIKE WOOD BUT BETTER THAN WOOD**  
*It never cracks or peels. No lumber/plywood defects. 12 times tougher than wood. 10 elegant woodgrains.*
- ★ **CUSTOM-CUT • THERMOFORMABLE FOR EXACT NEED**  
*It can be supplied in any custom-cut size in 6 mm – 44 mm and thermoformable to fit your exact needs.*
- ★ **VIBRANT COLORS • EMBOSSED PATTERNS**  
*It offers many colors and patterns to suit your taste.*
- ★ **NON-TOXIC • ODORLESS • ARSENIC-FREE**  
*It contains no asbestos, arsenic or toxic glues.*
- ★ **400% ENVIRONMENTAL PROTECTION**  
*It is recycled to eliminate polluting plastic waste, save trees and recyclable, generating no gas emission in production nor any waste in use. 4-fold eco-protection!*

**A Total Zero-Waste Solution to Save Our Environment**

**Too Good to be True? See the Difference! Ask the Regular Users!**

POLYBOARD – Non-toxic Solid Sheet	in comparison with	PLYWOOD • MDF • OSB – Toxic-glued Sheets
WATERPROOF	←--→	Swell, buckle and disintegrate in water
DAMP-PROOF	←--→	Absorb and emit moisture, causing condensation and taint
LEAKAGE-PROOF	←--→	Seepage-channelling to leak
DECAY-PROOF	←--→	Decay in wet environment and dry rot
WEATHERPROOF	←--→	Deteriorate rapidly outdoors
SOUNDPROOF	←--→	Sound transmitting
CORROSION-RESISTANT	←--→	Corroded by seawater, alkali, acids, chemicals ...
FORKLIFT RAMMING-RESISTANT	←--→	Easily torn and smashed when hit or snagged
FREEZE-THAW-RESISTANT	←--→	Delaminate and split in cold weather
TERMITE-REPELLENT	←--→	Termite/Woodworm-breeding
ANIMAL-CHEW-DETERRENT	←--→	Induce animal-chew to spread diseases and Bird Flu
POWER-WASHABLE	←--→	Deteriorate when getting wet. Uncleanable
COLORFAST • EMBOSSED PATTERNS	←--→	Painting and re-painting inevitable. No embossed patterns
RESILIENT • SHOCK-RESISTANT	←--→	Knock-on impact damage always caused
SOLID • NON-ABSORBENT	←--→	Absorb odors, flavors, oil and contaminants
NON-TOXIC • ODORLESS	←--→	Toxic-glue and preservative causing musty smell and taint
EVERLASTING • INDESTRUCTIBLE	←--→	Frequent replacement required, losing your money plus downtime
ECO-FRIENDLY • TREE-SAVING	←--→	Destroy rainforests to worsen Global Warming
REUSABLE • FULLY RECYCLABLE	←--→	Unreusable • Non-recyclable. Waste is toxic and hazardous
MAINTENANCE FREE	←--→	Costly maintenance and labor-intensive
CUSTOM-CUT • THERMOFORM FOR EXACT FIT	←--→	Wasting material to create waste. Absolutely not formable.

Truckload after truckload of Polyboard being delivered to the regular users



# Polyboard

**Moisture? Flood? Leakage? Dry Rot? Termites?  
Polyboard will save you all such Troubles!**

## Building Construction

**Polyboard - "The Saviour of Hardwood Flooring"** The Indispensable Anti-moisture and Termite-repellent Subflooring that prevents hardwood floor from buckling or curling up. Imitated Brick Wall System; Multi-purpose Wall Curtains for Facelift and Remodelling; Waterproof and Resilient Core for Laminate Floors; Leakage-preventing Skirting; Waterproof Base for Kitchen Tabletops, Kitchen Cabinets, Washroom Vanity tops; Anti-dampness Wardrobe Back Panels; Soundproof Partitions; Damp-proof Wallcovering and Flooring for Basement; Anti-moisture Core for Raised Floors; All-Weather Reusable Hoardings for Work Sites in fast colors; Impact-resistant Scaffolding Protective Canopies for dropping debris; Waterproof Wallcoverings for Tunnels and Sewers; Demountable Work Site Buildings; Temporary Carparks and Roadways; Decay-proof Outdoor Partitions; Toilet Cubicles; Waste Disposal Units; Recycled Recyclers. **Polyboard is everlasting and indestructible, 12 times tougher than wood and it outlasts any other wooden or metal panel material, as it never rots, cracks, delaminates or rusts under any climatic condition. Recycled, Fully Recyclable, Constantly Reusable and Custom-sized, Polyboard offers 400% Environmental Protection for a total zero-waste solution to benefit your community.**

Horrorifying?



Only Polyboard Subflooring can save you such nightmare!

## Transportation

**Polyboard - "Truck Protector"** Truck/Trailers' Anti-Forklift-Ramming Scuff-liners, Side Panels, Roofs and Threshold Sub-bases; Bus and Tram Decks; Vans and Pick-up Floors; Cargo Train Walls and Liners; Refrigerated Trucks; Livestock Transport; Horse Trailer Floors and Liners; Mud-Flaps for Vehicles. **Ideal for Ocean Container Protective Walls and Liners, withstanding heavy impact and forklift poundings to lengthen the container life for many more years. Everlasting • Indestructible • Power-washable • Waterproof • Corrosion-resistant • Termite-repellent Polyboard is the norm for fitting 53-ft. Trailers, Trucks, Buses, Vans, Trains, Mobile homes and Containers.**



## Recreation

**Unrivalled damp-proof Resilient and Shock Absorbing Base for Sports Floors.** Gymnasiums; Swimming Pools; Children's Playground Equipment, Skate Board Ramps; Ice Skating Rinks; Children's Playhouses; Colorful Resilient Safety Walls for Kindergarten and Day Care Centres; Anti-Ricochet Indoor Firing Ranges; Outdoor Basketball Backboards; Fences for Race Courses and Golf Courses; Ice Hockey Rink Puck Boards and Subflooring; Hobby Gardening Troughs; Dog Houses; Washable Floors and Partitions for Zoos and Ocean Parks; ....



## Outdoor Facilities

**Polyfence system of all fencing styles in 20 fadeless vibrant colors.** Hoardings for Ranches and Compounds; Outdoors Furniture – Tables, Chairs, Benches, Booths for Parks, Stadiums, Ocean Parks, Zoos, Beaches; Guard Houses; Demountable Temporary Housing, Stores, Sheds, Canteens; Emergency Shelters; Golf Course Outdoor Washrooms; Golf Range Divisions; Go-Kart Barriers; Exterior Sheathing and Panelling; Billboards; Signage; Road Signs; Highway Traffic Signs; Noise Reduction Barriers; Portable Toilet Cubicles; Hurricane Shelter Panels; Ski Resort Cabins; Anti-riot Protective Panels ....



## Marine Applications

All kinds of marine uses. Dock and Pier Decking Structures; Marinas; Boat Sheds; Docking Chokes; Marine Retaining Walls; Pontoons; Jetties; Boat Decks and Steps; Boat Inner Floor Lining; Seaside Resorts; Beach Booths; Lifeguard Houses; Lakeside Walkways; Underwater Structures. **Polyboard will remain intact even submerged in seawater for 100 years!**



## Industries

Acid-resistant Walls, Floors and Partitions for Factories, especially those requiring corrosion protection, such as Chemical, Electroplating, Dyeing, etc. Conveyor Belt Bed Liners; Ice Storage Partition Panels; Freezer and Cooler Outer Walls; Fume Hood; Scuff Rails; Anti-Forklift Ramming Panels; Thermoformed Home Generator Covers; Soundproof Panels; Acoustic Enclosures. **Most effective Noise Silencers.**

## Agriculture

Fences, Gates, Partitions, Floors, Dividers, Walls for all sorts of Farms – Hog, Calving, Chicken, Fish, Deer, Ostrich; Horse Stables; Milking Parlours; Sheep Winter Houses; Mink Boxes; Fish Markets; Greenhouses; Bin Liners; Troughs; Chutes; Feeders; Mangers; Cabins and Sheds. **Power-washable to avoid Bird Flu. Animal Chew-deterrent to prevent spreading diseases.**



**Polyboard's applications can only be limited by your imagination!**

# POLYBOARD IN COMPARISON WITH OTHER PANEL MATERIALS

Feature	Solid Wood board	Plywood board	H D F board	M D F board	Particle board	Straw/ OSB	Gypsum board	Cement Fiber board	POLYBOARD
WATERPROOF	X	X	X	X	X	X	X	✓	✓
WEATHERPROOF	X	X	X	X	X	X	X	✓	✓
DECAY-PROOF	X	X	X	X	X	X	X	✓	✓
DAMP-PROOF	X	X	X	X	X	X	X	✓	✓
LEAKAGE-PROOF	X	X	X	X	X	X	X	✓	✓
SOUNDPROOF	X	X	X	X	X	X	X	?	✓
CORROSION-RESISTANT	X	X	X	X	X	X	X	✓	✓
CHEMICAL-RESISTANT	X	X	X	X	X	X	X	✓	✓
FORKLIFT RAMMING-RESISTANT	X	X	X	X	X	X	X	X	✓
TERMITE-REPELLENT	X	X	X	X	X	X	?	✓	✓
FUNGI-REPELLENT	X	X	X	X	X	X	X	✓	✓
UV-RESISTANT	X	X	X	X	X	X	X	?	✓
FREEZE-THAW-RESISTANT	X	X	X	X	X	X	X	✓	✓
SAFE TO USE	✓	*UF/PF	UF/PF	UF/PF	UF/PF	UF/MDI	Fragile	Fragile	✓ No toxic glues
<b>EASY TO USE:</b>									
Sawing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drilling	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chiseling	✓	✓	✓	✓	✓	X	X	X	✓
Routing	✓	✓	✓	✓	✓	X	X	X	✓
Nail-holding	✓	✓	Δ	Δ	Δ	X	X	X	✓
Screw-holding	✓	✓	Δ	Δ	Δ	Δ	Δ	Δ	✓
Sanding	✓	X	X	X	X	X	X	X	✓
Fabricating	✓	✓	✓	✓	✓	X	X	X	✓
Veneering	✓	✓	✓	✓	✓	X	X	X	✓
Varnishing	✓	X	X	X	X	X	X	X	✓
Painting	✓	✓	✓	✓	✓	✓	✓	✓	✓
Glueing	✓	✓	✓	✓	✓	✓	X	X	✓
Concrete form work without tar application	X	X	X	X	X	X	X	X	✓
<b>RECYCLABILITY</b>	X	X	X	X	X	X	X	X	✓
<b>DENSITY</b> (kg/m <sup>3</sup> )	580-880	600-800	800-1200	550-950	550-950	650-850	750-950 <small>(Plasterboard same)</small>	900-1450 <small>(Calcium Silicate board same)</small>	853 kg/m <sup>3</sup>
<b>LIFE SPAN</b>									
Indoors	30 yrs	30 yrs	7-10 yrs	10 yrs	10 yrs	?	?	?	Up to 250 yrs Maintenance free (All-Weather)
Outdoors	15-20 yrs	1 year	?	?	Unusable	Unusable	Unusable	?	
* UF = Urea Formaldehyde PF = Phenol Formaldehyde MDI = Isocyanate Polyurethane _____ Depending on humidity and maintenance _____									

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## POLYBOARD — Properties and Specifications

Testing Item	Testing Standard	Test Result	
Density	ASTM D2395-83	853 kg/m <sup>3</sup>	53.3 lbs/ft <sup>3</sup>
Impact Strength	ASTM D3029-90	5.5 mm/kg	40.0 ft/lbs
Flexural Strength-Maximum Fibre Stress	ASTM D790-91	Long. 36.0 MPa Trav. 25.0 MPa	5 058.0 psi 3 512.5 psi
Flexural Modulus of Elasticity	ASTM D790-91	Long. 556.5 MPa Trav. 315.6 MPa	78 200 psi 44 342 psi
Tensile Strength	ASTM D638-91	Long. 9.0 MPa Trav. 7.0 MPa	1 264.5 psi 983.5 psi
Moisture Content	ASTM D4442-92	0.35%	0.35%
Water Absorption	ASTM D570-81	1.9%	1.9%
Compression Rating (Hardness)	ASTM D1037-91	30 711.9 kPa	4 451 psi
Thermal Resistance (R Value)	ASTM C518-84/E380-9a	0.244 (m <sup>2</sup> -KW)	1.386 (F-ft <sup>2</sup> -h /Btu)
Sound Transmission Loss (80-6,300 Hz)	ASTM E90-90/E492-90	56.5 dB	56.5 dB
Dimensional Stability – Creep Modulus	ASTM D2990	3.8 MPa/cm	551 psi/in
Dimensional Stability – Load Deflection	ASTM D2990	1.42 • 10 <sup>-2</sup> of Span	1.42 • 10 <sup>-2</sup> of Span
Flammability	UL 94HB	21.9 mm/min	21.9 mm/min†

\* All ASTM tests are performed in compliance with the National Research Council Canada Guidelines with certificates. †Specified Maximum: 40 mm/min.

- Thickness :** 1/4" 3/8" 1/2" 5/8" 3/4" 1" 1 1/4" 1 1/2" 1 5/8" 1 3/4"  
 (6 mm) (9 mm) (12 mm) (16 mm) (18 mm) (25 mm) (28 mm) (32 mm) (38 mm) (44 mm)
- Weight :** 1.2 lbs 1.6 lbs 2.3 lbs 2.9 lbs 3.2 lbs 4.4 lbs 5.0 lbs 5.5 lbs 6.5 lbs 7.5 lbs (sq. ft.)
- Sheet size :** 4' X 8' (1220 mm X 2440 mm) or any custom-cut size. Square edge
- Texture :** Smooth – matt surface / Woodgrain
- Color :** Standard Colors – Greenish White and Grey. Cedar, Clay, Brown, Tan, Grey, Ash Grey, Hunter Green, Green, Red, Magenta, Orange, Purple, Yellow, Lemon Yellow, Dark Blue, Light Blue, Blue, Black, White.
- Woodgrain :** Oak, Light Oak, Cherry, Walnut, Rosewood, Mahogany, Teak, Ash, Maple, Beech

### Authorized Distributor

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