

OUTDOOR PLASTIC LUMBER

- Outdoor furniture
- Decking & Walkways
- Fences & Railings
- Landscape facilities
- Markers & Signs
- Structure beams & posts
- Farms & Stables
- Sports & Recreational facilities

Recycled **CONTENT** Plastic Lumber

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RECYCLED PLASTIC LUMBER

Making Your Outdoor Projects Stand Out !



WinStar *Extreplas*® Recycled Plastic Lumber, made from 100% recycled High-Density Polyethylene (HDPE) plastic without any wood powder, represents the forefront of sustainable construction materials.

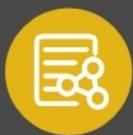
Renowned for its exceptional durability and resistance to water and UV radiation, HDPE offers unparalleled advantages in outdoor applications. It is the best alternative to traditional wood, WPC, and metal across a wide range of uses, including outdoor furniture, decking, fencing, landscape facilities, and more. Opting for WinStar Plastic Lumber is a wise investment that eliminates concerns about product discoloration, rotting, cracking and insect damage. This choice not only saves time and labor costs associated with maintenance and replacement but also ensures long-term benefits for both present and future endeavors.

We provide both Standard Plastic Lumber and Fiberglass Reinforced Lumber, each developed in line with our unwavering commitment to superior quality, longevity, and eco-friendly design principles. At WinStar, superior quality is not a luxury, but a guarantee.



100% Recycled HDPE

No rot or corrosion,
No crack & moth-eaten,
Chemical resistance



Weather Resistant Formula

Level-8 weather resistance
color masterbatch,
UV absorbers & Antioxidants



Ultimate Imitation Wood

Various surface options,
Customized colors,
Natural and beautiful



Overall Cost-effectiveness

Long life & Maintenance-free,
Saving time & labor costs for
maintenance & replacement

Select The Right Materials To Create Quality Projects

Super waterproof & Non-rotting | Long-lasting color & Weather-resistant | Durable and Non-brittle
Long life lasting & Maintenance free | Simply processed & installed



PRODUCT SERIES



Recycled Plastic Lumber
100% Recycled HDPE Plastic

- It is made from recycled high-density polyethylene (HDPE) plastic sourced from safe materials such as milk jugs, shampoo bottles, and detergent bottles.
- It's ideal for various outdoor decoration projects, including outdoor furniture, decking, fences, markers and signs, and landscape facilities, and more.



Structural Lumber
HDPE + Fiberglass Reinforced

- HDPE plastic combined with fiberglass composite reinforcement provides higher strength and performance for structural applications and load-bearing requirements.
- It is suitable for heavy commercial or structural projects such as public boardwalks, structural beams and posts, and other similar applications.

PRODUCT SERIES SELECTION

WinStar provides Recycled Plastic Lumber and Structural Plastic Lumber to meet various outdoor designs and applications. Both series are exquisite imitation wood, durable and eco-friendly, waterproof and non-corrosion, weather-resistant and non-fading. Please contact us for details or free samples.

Items	Recycled Plastic Lumber	Structural Plastic Lumber
Main Raw Materials	100% high quality recycled HDPE plastic	Recycled HDPE plastic+ Fiberglass reinforced
product Categories	Decorative lumber for normal outdoor applications	Structural lumber for higher mechanical properties
Density	0.7 g/cm ³ / 43.7 lbs/ft ³	0.88 g/cm ³ / 54.9 lbs/ft ³
Flexural Modulus	782Mpa / 113,390psi	1,452Mpa / 210,540psi
Flexural Strength	9.3Mpa / 1,360psi	18.9Mpa / 2,750psi
Applications	Outdoor furniture, fencing, decking, Planter boxes, trash cans and other landscaping facilities	Public decking, structural beams and other high-performance projects
Attention		Fiberglass may cause minor discomfort or itching to some people with sensitive skin

MAIN APPLICATIONS

WinStar *Extreplas*® HDPE Poly Lumber offers unmatched performance advantages over wood and WPC, along with an imitated wood appearance. It is particularly suitable for a variety of outdoor and waterfront applications, such as outdoor furniture, decking, fencing, signs and markers, sports and playground equipment, farm and animals, and other landscape facilities etc.



Outdoor Furniture

- Adirondack chairs & Side tables
- Hanging chairs & Swing seats
- Outdoor dining sets
- Garden benches
- Picnic tables
- Outdoor lounge chairs



Landscaping

- Flower beds & Planter boxes
- Trash containers & Trash cans
- Recycled plastic bollards
- Retaining wall
- Sign post & Garden signs
- Garden structures



Decking

- Public & commercial decking
- Pedestrian bridge
- Garden decking
- Marine decking
- Waterfront walkway
- Pool decking



Fencing

- Garden fencing
- Post & rail fencing
- Pasture fences
- farm fences
- Fence panels
- Fence posts



Golf Course

- Golf course signs & Sign posts
- Bag racks & Club racks
- golf ball storage box
- Distance markers
- Podium stands
- Divot mix containers



Agriculture & Animals

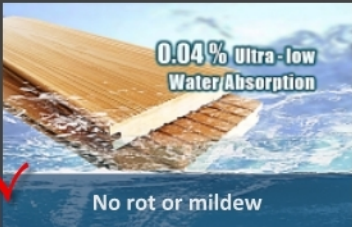
- Stable boards
- Farm fences
- Vineyard posts
- Fence post
- Polywood bird houses
- poly bird feeders

ADVANTAGES AND FEATURES

The perfect fusion of plastic properties and wood aesthetics !

WinStar *Extreplas*® Plastic Lumber is made from high-quality recycled HDPE, using a proprietary weather-resistant formula and a refined low-foaming extrusion process. This ensures not only excellent performance but also a high-end, exquisite appearance that seamlessly blends with the natural environment..

The product is safe, environmentally friendly, and durable, addressing common issues found in wood and WPC used in outdoor projects, such as rotting, mildew, brittle cracking, fading, insect infestation, and the need for frequent maintenance and replacement. It provides the best eco-friendly solution for your outdoor projects.

WOOD Lumber	WPC Lumber	WinStar HDPE Lumber
 Rot & Mildew	 Brittle crack	 0.04% Ultra-low Water Absorption No rot or mildew
 Termites & Woodworms	 Water stains hard to remove	 Level-8 UV & Weather Resistance Formula Long-lasting color & Long life
 Fading & High maintenance	 Replace & Maintenance	 Durable Without Brittle Cracking Maintenance free

Maine Advantages And Features

- Super waterproof, resistant to rot and mildew
- Durable with no brittle cracking
- The colors are durable and customizable
- Natural and beautiful wood-like appearance
- Weather and chemical resistant
- Resistant to termites and borers
- Maintenance-free and easy to clean
- Easy to process and assemble
- Eco-friendly and recyclable

TRUSTWORTHY QUALITY

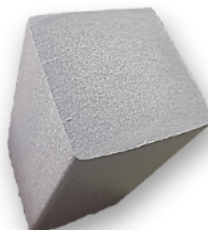
*Professionalism builds
the brand; quality wins
the reputation!*

WinStar utilizes advanced low-foaming plastic extrusion technology and comprehensive quality control to ensure superior quality.

- The internal foaming of the plastic lumber is uniform and delicate, providing optimal performance.
- The micro-foaming surface is smooth, exquisite, and elegant, ensuring consistent quality. Additionally, there are various visual effects to choose from, making your project truly unique.

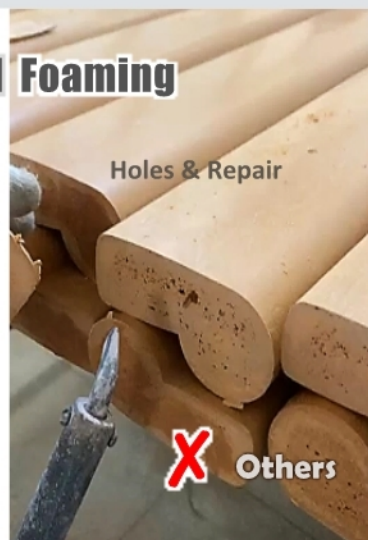
Internal Foaming

★★★★★
Uniform & Fine Foaming



✓ WinStar

Holes & Repair



✗ Others

Lumber Surface

★★★★★
Smooth & Natural



✓ WinStar

Unstable & Rough



✗ Others



QUALITY ASSURANCE

- 19 Patents
- ASTM International Standards
- ISO 9001 Quality Certificate
- ISO 14001 Environmental Certificate
- SGS Test
- BV Test
- Fugro Test
- National High-tech Enterprises



COMMON SIZES OF OUTDOOR LUMBER

Provide customized services for specifications, shapes and lengths

WinStar *Extriplas*® HDPE Poly Lumber not only offers standard specifications but can also be customized in various shapes, sizes, and lengths to suit your project design. Please contact us for a free consultation.

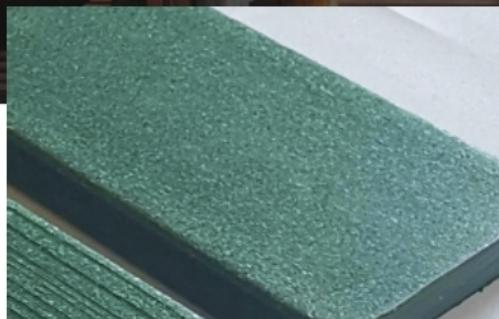
*Free
Samples !*

Nominal Profiles (")	Actual Dimensions	
	(")	(mm)
5/8 × 1 1/2	0.6 × 1.5	15 × 38
5/8 × 2 5/8	0.6 × 2.56	15 × 65
5/8 × 4	0.6 × 3.78	15 × 96
5/8 × 12	0.6 × 11.8	15 × 300
3/4 × 2 5/8	0.75 × 2.63	19 × 67
3/4 × 3 1/2	0.75 × 3.5	19 × 89
3/4 × 4 1/2	0.75 × 4.5	19 × 114
3/4 × 12	0.75 × 11.8	19 × 300
1 × 1 1/2	1.0 × 1.5	25 × 38
1 × 2 3/4	1.0 × 2.75	25 × 70
1 × 5 1/2	1.0 × 5.5	25 × 140
1 × 12	1.0 × 11.8	25 × 300
1 1/2 × 1 1/2	1.5 × 1.5	38 × 38
1 1/2 × 3	1.5 × 3	38 × 76
1 1/2 × 3 1/2	1.5 × 3.5	38 × 89
1 1/2 × 4 3/4	1.5 × 4.73	38 × 120
1 1/2 × 5 1/4	1.5 × 5.24	38 × 133
1 1/2 × 7 1/4	1.5 × 7.25	38 × 184
1 1/2 × 9 1/4	1.5 × 9.21	38 × 234
2 × 4	2 × 4	50 × 100
3 × 3	3 × 3	75 × 75
3 1/2 × 5 1/4	3.5 × 5.24	89 × 133
3 1/2 × 3 1/2	3.5 × 3.5	89 × 89
4 × 4	4 × 4	100 × 100
2" Round	2 Diameter	50 Diameter

MULTIPLE SURFACES

Meeting Your Various Designs And Applications

A good product is not only about excellent performance but also about beauty and comfort. WinStar HDPE Plastic Lumber perfectly combines the performance of plastic with the appearance of wood. Each piece is unique, allowing you and your customers to feel close to nature and relaxed..

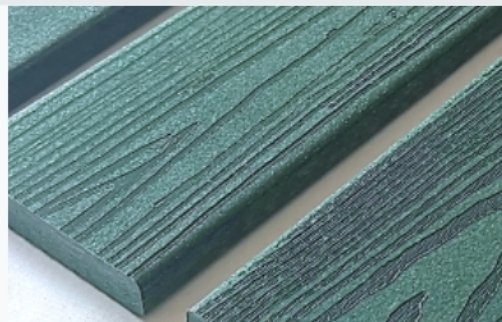


Smooth Surface

The basic micro-foaming surface creates a flawless matte finish that is both beautiful and elegant, exuding a captivating luster. This exquisite finish diminishes the plastic-like appearance, allowing it to blend seamlessly and naturally into various outdoor settings.

Embossed Surface

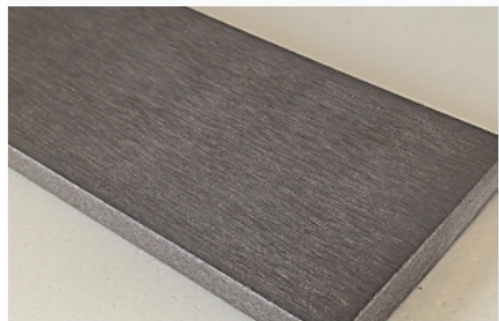
The realistic wood grain, with its intricate layers and textures, enhances the basic micro-foam surface, reflecting the vivid, natural beauty of real painted wood. This high-end artistic finish seamlessly integrates with its surroundings.



Sanding Surface

The special sanding process creates a fiber texture that closely mimics real wood, giving the lumber a natural, understated, and elegant appearance.

* Please note that sanding will reduce wear resistance.



Sanding + Embossed Surface

The combination of wood grain and fiber texture creates an appearance that is indistinguishable from natural wood. This makes it ideal for decorative designs and applications that aim for a pure natural effect.

* Please note that sanding will reduce wear resistance.



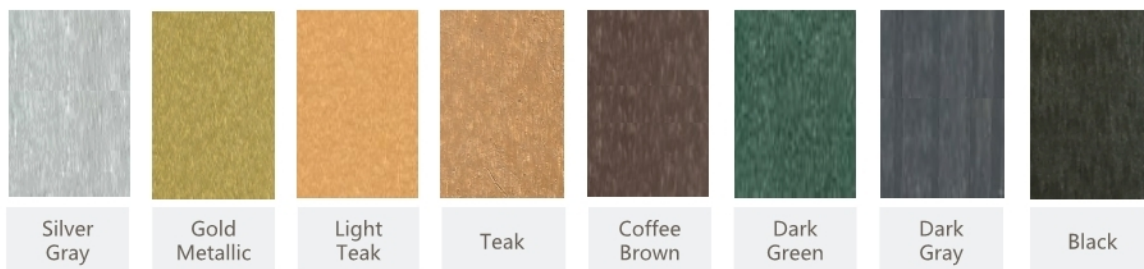
Non-Slip Grooved Surface

The single-sided groove design enhances the lumber's non-slip performance and offers greater versatility. The invisible installation card slot design makes it the top choice for outdoor decking.

POPULAR COLORS AND CUSTOMIZATION

Please contact us for free samples !

WinStar not only offers the most popular colors for your outdoor projects but also provides custom color services to make your design unique and distinctive. Contact us now to inquire about your favorite color.



Full Range Of Customized Services

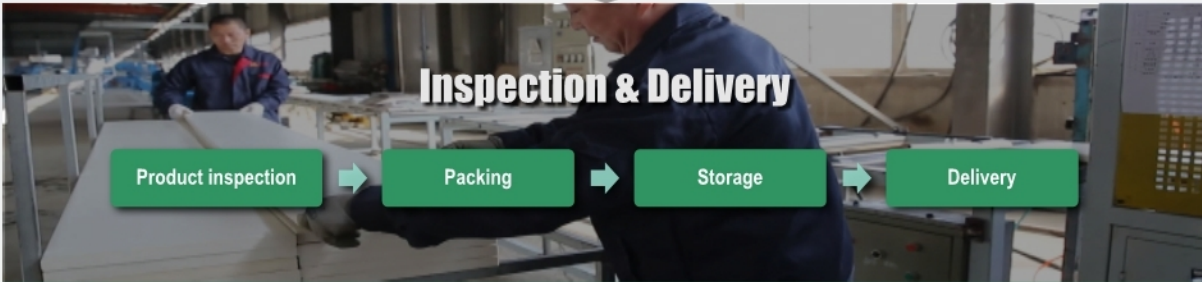
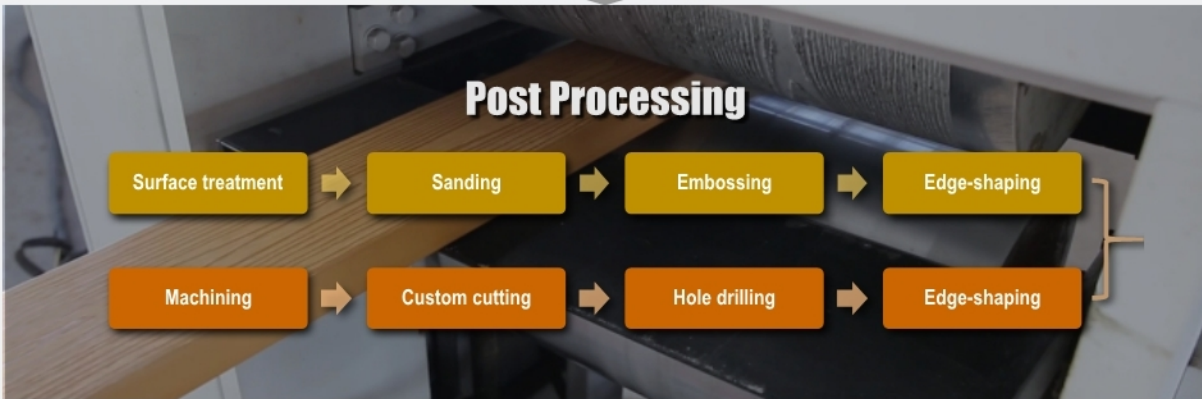
Meeting Your design and assembly needs

- Material & Performance
- Shapes & Specifications
- Length Customization
- Color Customization
- Surface Customization
- Drilling & Cutting Process

Free Samples !

MATURE PRODUCTION PROCESS

Mature Production process ensures high quality and on-time delivery



PROJECT CASES

The perfect blend of plastic durability and wood aesthetics !





Shenyang Win Star Plastic Co., Ltd.

WinStar has been specializing in recycled plastic products for over 25 years, offering innovative environmental solutions to global users with advanced technology, reliable quality, competitive prices, and professional services. Choose recycled plastic lumber over traditional wood, WPC, metal, or concrete to create unique outdoor and marine projects. It's a wise investment for both now and the future..



GET IN TOUCH !

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