

未来へつなぐ持続可能な資源再生システム

Over 99% Recycled Resin

PROTECTIVE MAT

^{ジュライト}
JULIGHT & RAKURAKUBAN
SUPER JULIGHT ^{スーパージュライト}

^{ジュライト} & ^{らくらくばん}
スーパージュライト

Ideal for ground and surface reinforcement in various settings

(In Japan)
This product's trusted by

Main Applications

Safety & Quality

Imperial Household Agency, Ministry of Land, Infrastructure, Transport and Tourism, Japan Self-Defense Forces (used during the Great East Japan Earthquake), JR West, Kumamoto Earthquake Relief, JA Agricultural Sector, National Sports Festival
(Also used in civil engineering/construction sites, factories, warehouses, and various industrial sectors.)

A sustainable alternative to steel plates, plywood, and rubber mats for: Access paths for vehicles at construction sites; Scaffold base protection; Floor protection in work areas; Road surface protection for agricultural machinery; Temporary parking lots... and more.

- Made in Japan using patented extrusion molding technology
- Circular resource use with recycled polyethylene



"Guided by a commitment to human-
and eco-friendly manufacturing"

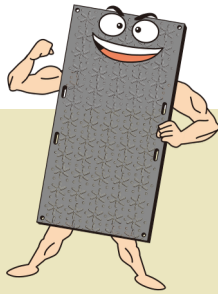
 **Lightweight**

 **Energy-Saving**

 **Safe**

 **Eco-Friendly**

 **Durable**



IDEAL FOR FORESTRY OPERATIONS



Can be laid directly over mud or uneven
ground — instantly usable surface



Easy to remove and clean!



Excellent ground adherence



Unlike materials like steel,
which struggle to grip uneven surfaces



**Highly elastic, flexible, and
resistant to cracking**

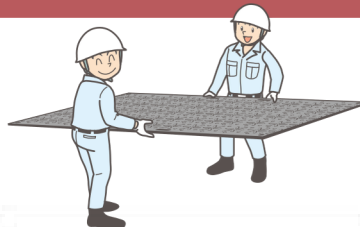


12 times more
load efficiency than
steel plates

**Significant
reduction in
transport costs**



Each mat weighs approx. **40 kg**
easily carried by two people



When laid on solid ground,

Supports a
total vehicle
weight of up
to **80t**

**Quiet to
drive over!**



- Made in Japan through a 100% closed-loop production process, this product is developed using over 50 years of expertise in the resin industry – from material recycling to the final product.
- Strict quality control is ensured through in-house testing systems, regularly checking material quality and product durability.
- It has been recognized for its advanced and eco-friendly production technology with certifications such as NETIS (New Technology Information System by Japan's Ministry of Land, Infrastructure, Transport and Tourism) and the Eco Mark.

PROTECTIVE MAT

JULIGHT ジュライト

The Lightest in the Series – Slip-resistant surface suitable for carts and wheelbarrows

6 / 10

Optional hand hole



HALF SIZE

Option available



Truck bed floor protection



Paved surface protection



Pre-greenhouse work area



Factory indoor flooring



Flooring for pig farms

RAKU RAKUBAN

らくらくばん

Perfect for light-duty tasks in agriculture and forestry!

Optional hand hole



Top

Bottom Flat

Ideal for use around greenhouses, in cultivation areas, temporary parking lots, and access roads for agricultural machinery or light trucks!



CAUTION

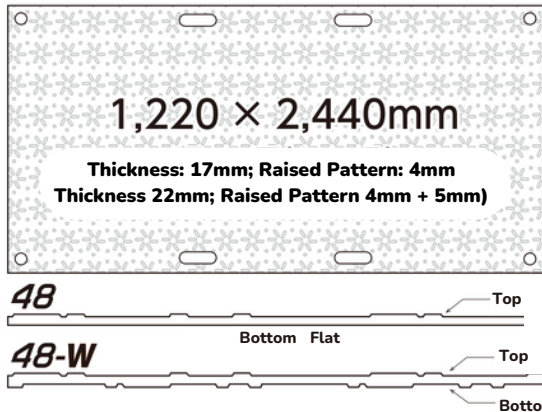
Made of resin. Please take care during handling and maintenance

- Due to its lightweight nature, the mat may shift during use. It is recommended to use fixing joints for added stability.
- Always drive slowly when vehicles move across the mat.
- The mat may be damaged when used over gravel, broken concrete, or sharp objects.
- Do not allow shovels, excavator buckets, or steel-tracked vehicles to hit the mat forcefully - this can lead to cracking or accelerated wear.
- Avoid lifting the mat while it's fixed in place or dragging/carrying heavy objects placed on it - doing so may cause breakage.
- When welding on or near the mat surface, use a flame-resistant sheet to protect it.
- Strong winds or storms may blow the mat away. During heavy rain or bad weather, please ensure the mat is securely fastened or temporarily removed. Since the mat floats on water, it should be firmly secured to prevent it from being washed away during flooding.
- The mat may expand or contract with outdoor temperature changes.
 - + Winter: Low temperatures can cause the mat to become brittle and prone to cracking. Flatten the ground thoroughly to avoid empty gaps beneath the mat.
 - + Summer: Under intense sunlight, the mat may expand significantly and cause buckling if laid edge to edge. Leave a 10 mm gap between each mat.
- When installed on concrete or asphalt surfaces, warping may occur due to heat. Use bolts or anchors to fix the mats in place.

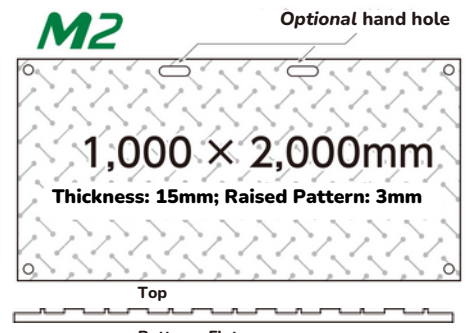
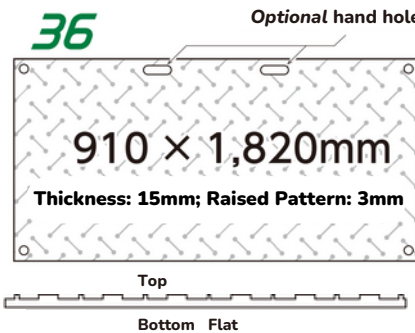
HIGH-QUALITY, SAFE, AND DURABLE PRODUCT MADE WITH PATENTED TECHNOLOGY

SUPERJULIGHT

48 / 48-W



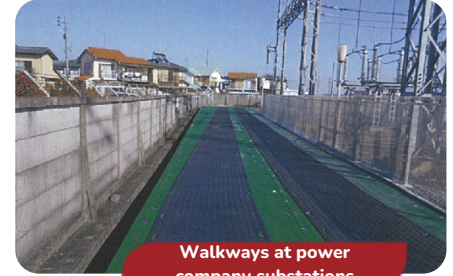
Can be installed easily by just two people – an efficient alternative to plywood



36/M2 HALF SIZE Option available

(*) Note: Due to the nature of the molding process, slight surface cracks may appear in some cases

Construction sites, Civil engineering projects, Temporary installation areas



Supports the movement of trucks and heavy machinery



INSTALLATION GUIDE FOR ROAD MATS

Level the ground

Remove sharp stones and smooth out the surface to avoid deformation during use

Manual installation

The mats are lightweight and can be installed by hand without the need for machinery. Even the heaviest model weighs only about 40kg — half the weight of a steel plate

Secure with accessories

For long-term installation, use fixing accessories to prevent shifting and ensure safe movement on the surface

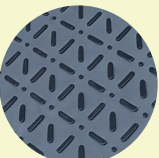
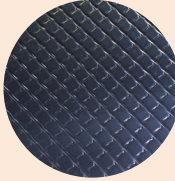
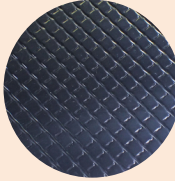
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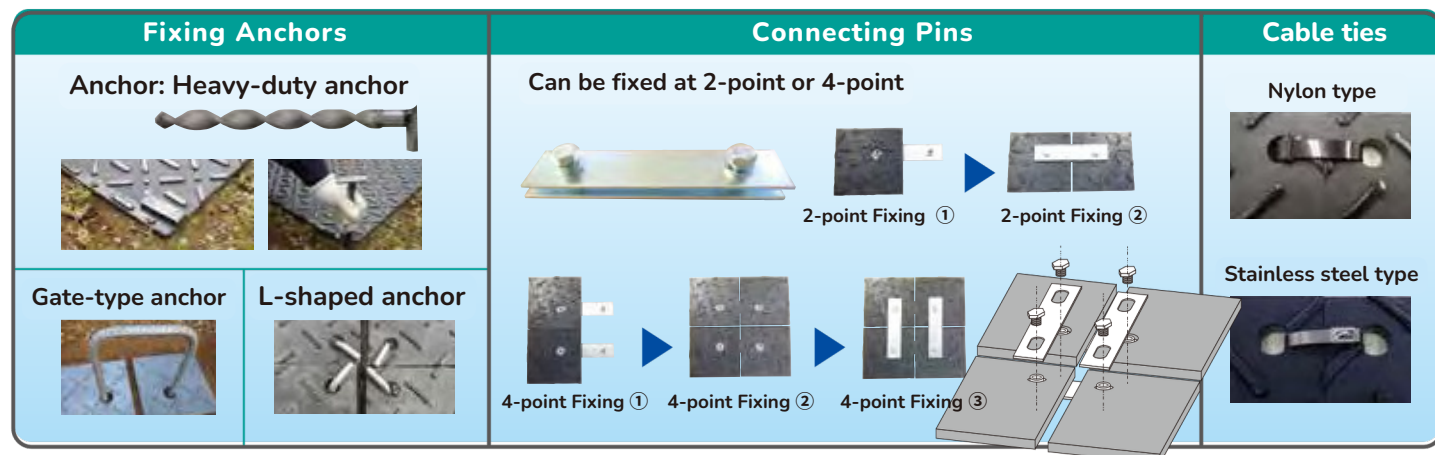
Leave a 10–20mm gap between mats

Since the polyethylene material may expand with temperature changes, leaving gaps helps prevent warping or lifting

LINE-UP

★ All products support loads of up to **80 tons**
(when the ground is sufficiently firm)

Product Name	Dimension (mm)	Weight (kg)	Total Thickness (mm)	Cross-sectional Structure (mm)	Jointing Holes	Product Line Features
Super Julight 48	1,220 × 2,440	40	17	Thickness: 13 + Raised Pattern: 4 4 Handle holes 	φ24 × 4 Handle holes	« Designed for construction sites and heavy-duty working conditions » - Large-format design – enhances work efficiency - Multi-directional raised ribs – optimal anti-slip - Model 48-W features bottom ribs – ensures strong ground grip
Super Julight 48-W			22	Press forming Thickness: 13 + Raised Pattern: Top 4 / Bottom 5 4 Handle holes 		
Super Julight 36	910 × 1,820	19	15	Extrusion press forming 	φ25 × 4 Handle holes	« Applications in agriculture, construction, livestock farming » - Highly versatile 3×6 (910x1820) sheets and 1x2 (1000x2000) sheets - Lightweight – easy to handle, even for women - Reusable – a sustainable alternative to plywood (*) Half-size type available – ideal for narrow spaces
Super Julight 36 Half-size L	455 × 1,820	9.5				
Super Julight 36 Half-size S	910 × 910	9.5				
Super Julight M2	1,000 × 2,000	23	15	Thickness 12 + Raised Pattern Top 3 Hand holes: Customized upon request Extrusion press forming	φ25 × 4 Handle holes	« Temporary road mat for agriculture, orchards, and gardening » - Ultra-light design, specifically made for agricultural use - Ideal for use on paths for agricultural machinery, light trucks, greenhouse entrances, etc. ※ Since the mat is thin, it is recommended to compact the ground before use for optimal performance.
Super Julight M2 Half-size L	500 × 2,000	11.5				
Super Julight M2 Half-size S	1,000 × 1,000	11.5				
Rakuraku Ban	910 × 1,820	10	9	Thickness 6 + Raised Pattern Top 3 Hand holes: Customized upon request 	φ25 × 4 Handle holes	« Ideal for light-duty work; Easy movement for carts and wheelchairs » - The lightest in the entire Product Series. Thin and easy to carry, yet strong enough to withstand vehicle traffic. - Highly flexible – can be rolled up for transport. - Surface with low-profile embossed pattern: + Ensures smooth movement for carts and trolleys + Dirt does not easily accumulate in the grooves (*) Convenient half-size option – perfect for use around narrow walkways..
Julight 6	910 × 1,820	9	6	Extrusion press forming 	φ25 × 4 Handle holes	« Ideal for light-duty work; Easy movement for carts and wheelchairs » - The lightest in the entire Product Series. Thin and easy to carry, yet strong enough to withstand vehicle traffic. - Highly flexible – can be rolled up for transport. - Surface with low-profile embossed pattern: + Ensures smooth movement for carts and trolleys + Dirt does not easily accumulate in the grooves (*) Convenient half-size option – perfect for use around narrow walkways..
Julight 6 Half-size L	455 × 1,820	4.5				
Julight 6 Half-size S	910 × 910	4.5				
Julight 10 (Made to order)	910 × 1,820	15	10	Surface treated with anti-slip texture Optional hand holes available 	φ25 × 4 Handle holes	« Ideal for light-duty work; Easy movement for carts and wheelchairs » - The lightest in the entire Product Series. Thin and easy to carry, yet strong enough to withstand vehicle traffic. - Highly flexible – can be rolled up for transport. - Surface with low-profile embossed pattern: + Ensures smooth movement for carts and trolleys + Dirt does not easily accumulate in the grooves (*) Convenient half-size option – perfect for use around narrow walkways..
Julight 10 Half-size L (Made to order)	455 × 1,820	7.5				
Julight 10 Half-size S (Made to order)	910 × 910	7.5				



FEATURES OF JULIGHT ジュライト

EFFECTIVE ON MUDDY AND UNEVEN SURFACES

★ Recycled Plastic Utilization

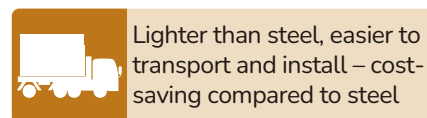
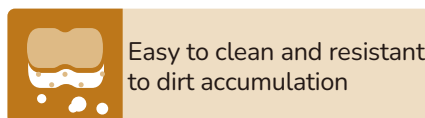
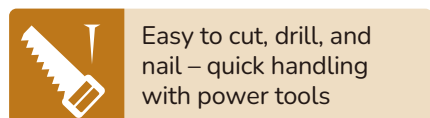
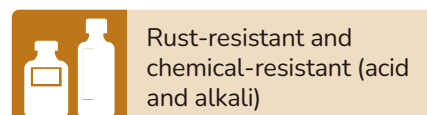
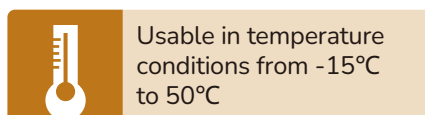
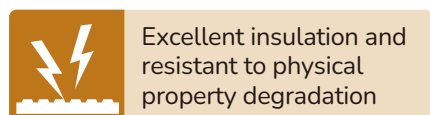
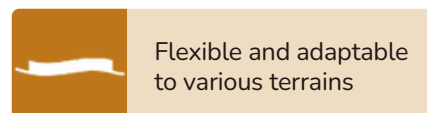
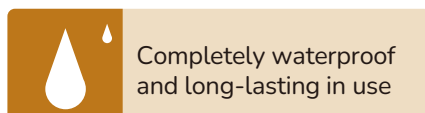
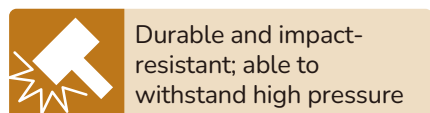
- Recycling plastic from rice bags, food containers, and other common plastic items into polyethylene plastic
- Only carefully selected materials are used – safe for soil and environmentally friendly

★ What is the patented press-molding extrusion technology?

- Raw materials are evenly mixed by a rotating screw, then melted by heat and continuously extruded to form a high-density, uniform material
- As a result of this process, the final product is a mat that is neat, strong, thin, and consistent

Mechanical Properties	Result
Tensile yield stress JIS K7161-2	12.6MPa
Flexural stress JIS K7171	10.7MPa
Compressive stress JIS K7181	29.4MPa (2,998t/m ²)
Charpy impact strength JIS K7111-1	Non-break

※ Tested by the Japan Testing Center for Construction Materials
- www.jtccm.or.jp



Warning To prevent accidents, please do not use the product in the following ways:



Do not use to cover drainage channels or uneven surfaces



Do not use as a base plate for outriggers



Do not start suddenly, stop abruptly, or make sharp turns



Do not use on soil prone to landslides



Do not use fire on the surface

(*) IMPORTANT NOTICE
REGARDING PRODUCT USAGE



Q&A

