



Key Features

Authentic Ice Performance

Premium UHMWPE skating surface delivers a skating experience comparable to natural ice, combining smooth glide, outstanding wear resistance, and long-term durability for both professional and recreational use.

Flexible Installation

Install almost anywhere without refrigeration, water supply, or dedicated buildings. Suitable for both permanent and temporary ice rink projects.

Fast Modular Assembly

Precision-machined interlocking panels allow quick installation, easy relocation, and future expansion with minimal tools.

Low Operating Cost

Eliminate refrigeration systems, cooling equipment, water consumption, and specialized maintenance, dramatically reducing long-term operating expenses.

Key Application

Sports Clubs

Professional training for hockey, figure skating, and recreational skating.

Schools

Safe and reusable skating facilities for educational programs.

Commercial Venues

Attract visitors with year-round skating experiences in malls and entertainment centers.

Municipal Projects

Suitable for parks, public squares, and community recreation areas.

Events

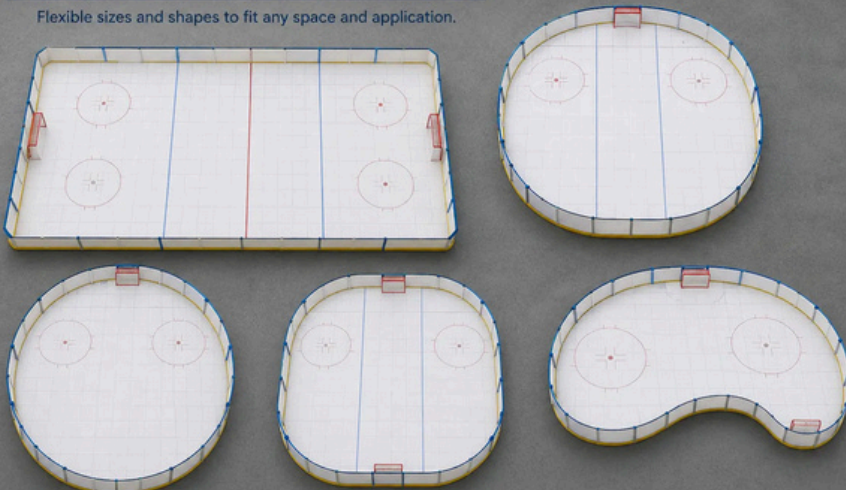
Portable skating rinks for exhibitions, festivals, and seasonal attractions.

Private Use

Compact skating solutions for homes and private sports facilities.

CUSTOM ICE RINK LAYOUTS & SHAPES

Flexible sizes and shapes to fit any space and application.



Why Choose RockRoadMat Synthetic Ice?

- **Self-Lubricating UHMWPE**
No additional lubrication during normal operation.
- **UV Resistant**
Suitable for indoor and outdoor applications.
- **All-Season Operation**
Skate year-round regardless of weather.
- **100% Recyclable**
Environmentally friendly material.

Product Data Sheet

MODEL	LENGTH	WIDTH	THICKNESS	WEIGHT
RR-SI-1000×1000-10	1000 mm / 3.3 ft	1000 mm / 3.3 ft	10 mm / 0.39 in	9.6 kg / 21.2 lbs
RR-SI-2000×1000-15	2000 mm / 6.6 ft	1000 mm / 3.3 ft	15 mm / 0.59 in	28.9 kg / 63.7 lbs
RR-SI-2000×1000-18	2000 mm / 6.6 ft	1000 mm / 3.3 ft	18 mm / 0.71 in	34.7 kg / 76.5 lbs
RR-SI-2000×1000-20	2000 mm / 6.6 ft	1000 mm / 3.3 ft	20 mm / 0.79 in	38.6 kg / 85.0 lbs
RR-SI-2440×1220-9.5	2440 mm / 8 ft	1220 mm / 4 ft	9.5 mm / 0.37 in	27.3 kg / 60.2 lbs
RR-SI-2440×1220-12.7	2440 mm / 8 ft	1220 mm / 4 ft	12.7 mm / 0.50 in	36.5 kg / 80.5 lbs
RR-SI-2440×1220-19	2440 mm / 8 ft	1220 mm / 4 ft	19 mm / 0.75 in	54.6 kg / 120.3 lbs

- Other sizes and thicknesses are available upon request.

Technical Properties

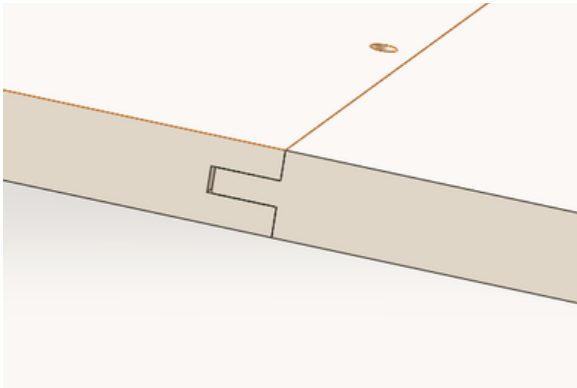
Property	Value
Material	Premium UHMWPE
Density	0.964 g/cm ³
Shore Hardness	64.7 D
Static Friction Coefficient	0.12
Dynamic Friction Coefficient	0.12
Material Friction Coefficient	0.19
Embrittlement Temperature	<-90°C
Linear Thermal Expansion	1.27×10 ⁻⁴ /°C

Technical properties shown are typical values obtained under laboratory conditions and are provided for reference only. Actual values may vary slightly due to normal manufacturing tolerances, raw material batches, and testing methods.

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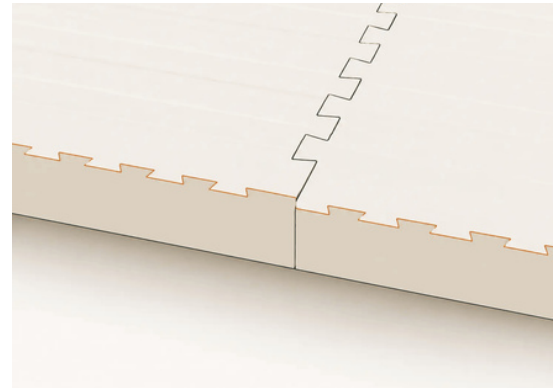
Engineered HDPE & UHMWPE Solutions for Industrial Applications

Connection Systems



Tongue & Groove + Lock Pin

- Suitable for 15–20 mm panels;
- Advantages:
 - Better stability
 - Compensates thermal expansion
 - Commercial-grade performance



Dovetail Connection

- Suitable for All thickness panels;
- Advantages:
 - Economical
 - Simple machining
 - Easy installation

Custom Ice Rink Project Workflow

