

PearlSnow®

All-Round Synthetic Ski & Snowboard Surface

PearlSnow is a versatile synthetic ski and snowboard surface engineered for training slopes, learning areas and year-round mountain operations. It is designed for operators who need a reliable balance between glide, edge control and durability across varying outdoor conditions. PearlSnow delivers a natural, confidence-inspiring ride experience while remaining stable and manageable in daily use.

Modular roll system with patented BulbSet technology



Typical Applications

Beginner and progression ski slopes	Ski and snowboard training areas	Dry ski schools and clubs
Year-round mountain operations	Urban snow sports installations	Multi-use leisure and sports facilities

Material & Structural Design		
PearlSlide uses the same BulbSet-based system architecture as PearlSnow, optimized for speed.		
Surface layer	Functional geometry	Mechanical components
- PE-based high-glide surface - Designed for balanced glide and durability	- BulbSet brush architecture - Supports edge engagement and pressure distribution	- PA66 (nylon) bulb elements - High fatigue resistance and shape retention - No plasticizers required + stable long-term behaviour

Performance & Behaviour

Speed & Glide

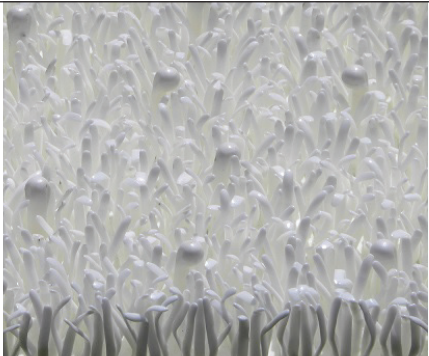
- Fast, consistent glide across real-world conditions
- Reliable edge engagement for controlled carving
- Balanced speed profile for training and progression

ENGINEERED FOR CONTROLLED SPEED AND CONFIDENT EDGE PERFORMANCE

Friction

PearlSnow typically operates in a controlled low-friction range suitable for ski and snowboard training. Based on material behaviour and comparable flat-surface testing, PA66 BulbSet systems such as PearlSnow typically fall around 0.18–0.22, depending on conditions.

Because synthetic ski surfaces are structurally uneven, standardized friction tests are inherently indicative. Real-world glide depends on temperature, moisture, lubrication, rider weight and equipment setup.



Thermal & Outdoor Stability	Installation	Maintenance	Safety & Use Notes
- Indoor and outdoor installations - Temperature range approx. -20 °C to +50 °C - Direct sun exposure and seasonal operation The system is optimized to limit deformation and joint movement under thermal cycling, supporting reliable long-term use. 	- Delivery format: Modular rolls or panels - Typical sub-base: Compacted soil, sand/gravel base, prepared grass or concrete (with base layer) - Fixation concept: Mechanical fixation adapted to soil type and slope - Repairability: Individual sections can be replaced Modular roll or panel system See PearlSnow Installation Manual for full guidelines. 	- Periodic brushing and inspection - In warm or dry conditions: light misting or eco slide agent recommended - Local panel replacement possible No grooming machines required. 	- Designed for controlled ski and snowboard use - Not intended as a primary fall-absorption surface - Best combined with proper slope design and run-out zones Project-specific documentation available upon request. 

✓ Very fast acceleration and high throughput

✓ Predictable behaviour at speed

✓ Modular system with easy replacement

✓ Outdoor-ready design for seasonal resorts

✓ Professional feel for premium attractions

