

Multi-Terrain Rescue Sled

The Multi-Terrain Rescue Sled is an inflatable platform for rapid ice and near-shore water rescue. Manufactured from Hypalon-coated, abrasion-resistant fabric, it is built to withstand rough winter conditions while remaining lightweight and packable.

Low-friction wear strips support fast glide across ice, and a rigid modular foamed-PVC rescue deck sits close to the surface for controlled, low-lift casualty loading. Multiple rope anchoring points, a perimeter grab line, and internal securing straps support safe shore-assisted operations. The sled inflates in approximately 45 seconds and stores compactly for quick deployment.



KEY FEATURES

- Hypalon-coated, highly durable fabric for high resistance to abrasion and puncture
- Low-friction wear strips under each longitudinal chamber for smoother glide on ice
- Controlled-flex inflatable tube that travels evenly over uneven ice surfaces
- Rigid rescue deck made of modular foamed-PVC panels positioned close to the surface
- Rope-guiding anchor points on both ends for shore-supported rescue
- Perimeter grab line to assist a casualty in maintaining hold during rescue
- Internal securing straps for casualty stabilisation and safer handling
- End handles to guide and control the sled during movement and towing
- Safety attachment points enabling connection of a lifeline to rescuers' rescue belts
- Inflation options via compressed air cylinder, foot bellows, or compressor
- Fast inflation time of approximately 45 seconds
- Supplied with two paddles for approach manoeuvring in water and broken ice

TECHNICAL DATA

- Mass: 40 kg
- Overall length: 4.7 m
- Overall width: 1.4 m
- Rescue deck length: 2.5 m
- Rescue deck width: 0.66 m
- Inflatable tube diameter: 0.38 m
- Packed dimensions (L x W x H): 1.0 x 0.65 x 0.45 m
- Inflation time: approximately 45 seconds
- Inflation methods: compressed air cylinder, foot bellows, compressor
- Standard supply: 2 paddles
- Load capacity: not specified in the provided source document

KEY ADVANTAGES

- Faster time-to-casualty thanks to rapid inflation and simple deployment
- Safer casualty boarding and extraction supported by a low-lift deck close to the surface
- Improved approach speed across ice due to low-friction underside design
- Stable working platform for rescuers during close-contact casualty handling
- Effective shore-supported operations enabled by dedicated rope anchoring and guided towing
- Reduced risk during suspected spinal injury scenarios by minimising lifting and excessive movement
- Enhanced rescuer safety through lifeline connection points and secure handling features
- High durability in harsh winter environments with strong resistance to abrasion and puncture
- Compact packed size that improves vehicle stowage, transport, and readiness

PRIMARY APPLICATIONS

- Ice rescue operations on lakes, rivers, and reservoirs
- Near-shore water rescue where ice, slush, or broken ice is present
- Casualty extraction and transport across ice and mixed winter surfaces
- Shore-guided rope-assisted rescue operations
- Low-lift evacuation where spinal injury is suspected
- Training and preparedness for winter rescue units

PRODUCT-MARKET INSIGHT

For winter rescue teams, inflatable sled platforms provide a strong balance of deployment speed, portability, and casualty-handling safety. Compared with higher-freeboard craft, the low-lift deck supports more controlled boarding and extraction, which is especially valuable when spinal injury is suspected. The compact packed size and multi-method inflation simplify vehicle carriage and rapid dispatch, while rope-guided capability supports coordinated shore-assisted rescue in demanding ice conditions