Pink Team Members

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Specifications

Cost: $1200
Weight: 7.5 kg
Folding time: 60 s
Material: Aluminum

Folded size
Height: 61 cm
Length: 25 cm
Width: 50 cm

Unfolded size
Height: 40 cm
Length: 260 cm
Width: 50 cm

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2.009 Product Engineering Process
Massachusetts Institute of Technology
Fortrus
The foldable mountain rescue basket.

A litter is a rescue basket used when difficult terrain must be traversed to transport an injured patient to safety.

Our goal was to make a foldable litter and modular backboard that could be easily carried in by 1 to 2 people in low-angle mountain rescues.

Current litters are often large, heavy, and difficult to carry. This presents rescue workers with difficulty reaching and evacuating a patient. Current backboards weigh around 8 kg and are cumbersome because of their size.

Market research shows that there are over 100 US mountain rescue teams. The average team performs 50 low-angle rescues per year.

Can be assembled in less than one minute.

Folding

Lock

Modular Backboard

Features:
- Honeycomb core
- Lightweight: 5.5 kg
- Length: 214 cm
- Width: 40 cm