

Pink Team Members

Arron Acosta
Adrian Dobson
Andrew Jones
Blake Sessions
Kevin Rustagi
Leo Luo
Liz Theuer
Marguerite Siboni
Michelle Ma
Raymond Ma
Robert Boyd
Stephanie Brown
Tanya Goldhaber
Vu Hong
Yat Ming Victor Li

Fortrus

Pink Team



foldable
lightweight
deployable

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

2009pink@mit.edu
2.009 Product Engineering Process
Massachusetts Institute of Technology

Fortrus

The foldable mountain rescue basket.

Folding



Can be assembled in less than one minute.

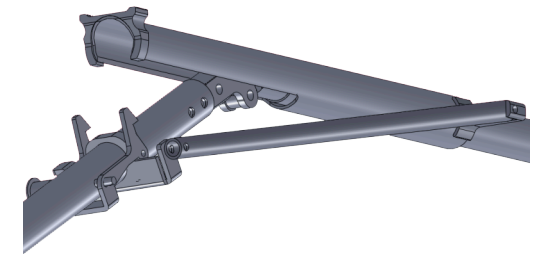
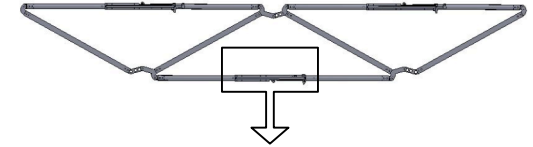
A litter is a rescue basket used when difficult terrain must be traversed to transport an injured patient to safety.

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.

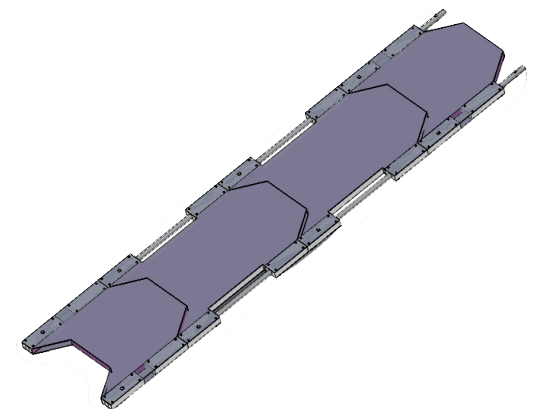
Current litters are often large, heavy, and difficult to carry. This presents rescue workers with difficulty reaching and evacuating a patient. Current backboards weigh around 8 kg and are cumbersome because of their size.

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

Lock



Modular Backboard



Features:

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