EasyPak

a backpack-mounted, expanding tent
The 1-2 person tent market is large, and growing

The 1-2 Person Tent Expenditures, US

The overall 1-2 person tent market is growing steadily

Sources: http://sbrnet.com/
EasyPak is competitive with single-person tents

Top criteria for single-person tent purchasing are:

weight
usable space
durability
ease of setup

Bivey sacks from REI run $100 and weigh 15 oz.

Single-person tents cost $120+ and weigh ~3 lbs, 11 oz.

EasyPak has clear advantages over competitors

JakPak, a combination jacket and tent, is perceived as too expensive and cheaply constructed. TentPak, a combination backpack and tent, is heavy at 11.81 lbs and fills the entire backpack. EasyPak mounts outside the backpack and currently weighs 9.75 lbs. Will weigh less in finalized form.

Lessons learned

Linear springs can’t be used for angular applications

Going forward

Use lighter-weight materials

Use higher force torsion springs

Add horizontal structural supports
Questions?