





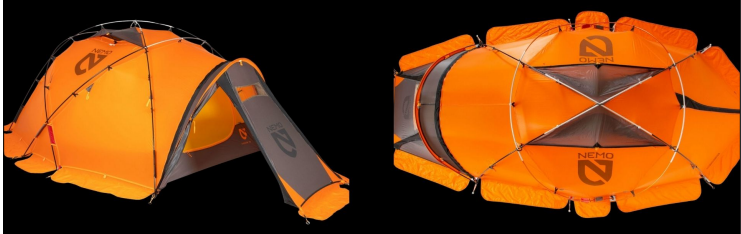
MAINTAIN COMFORT FOR A LONG ENOUGH PERIOD OF TIME SO THE HIKER CAN REST AND RECOVER.

- INSECTS
- COLD
- RAIN / SNOW
- WIND
- WET GROUND

WHAT IS THE PURPOSE OF A BACKPACKING SHELTER?

CURVED POLE SHELTERS

GEODESIC TENTS



MODULARITY IN SHELTER SYSTEMS

WEDGE/DOME TENTS



TYPES OF BACKPACKING SHELTERS

HUB AND POLE TENTS



TYPES OF BACKPACKING SHELTERS

RIDGE & TUNNEL TENTS



MODULARITY IN SHELTER SYSTEMS

STRAIGHT POLE
SHELTERS

FULL-PERIMETER FLOORLESS SHELTERS



TYPES OF BACKPACKING SHELTERS

TREKKING POLE SUPPORTED TENTS

single wall



double wall



TYPES OF BACKPACKING SHELTERS

TREKKING POLE SUPPORTED "HYBRID TARP/TENTS"



TYPES OF BACKPACKING SHELTERS

NO POLE SHELTERS

BIVY SACKS



TYPES OF BACKPACKING SHELTERS









FABRICS

PU-COATED NYLON

- inexpensive, hydrolysis, water absorption, UV degradation, heavy* (fragile when light)

SILNYLON

- strong, light, water absorption, UV degradation

SILPOLY

- light, UV resistance, not as strong as sil, less sagging

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DYNEEMA COMPOSITE FABRICS

- expensive, very light, doesn't stretch, doesn't sag

SHELTER COMPARISON

Protection from:	No Shelter	WRB Bivy	WPB Bivy	Open Tarp	Mid Tarp	1W Tent	2W Tent
Dew	*	**	*****	*****	*****	*****	*****
Wind	*	**	***	**	*****	*****	*****
Rain	*	**	***	**	*****	*****	*****
Snow	*	**	**	**	****	***	*****
Insects	*	*****	*****	*	***	*****	*****
Condensation	*****	****	*	****	***	*	**
Cold	*	**	***	**	***	****	*****
Livability	*****	*	*	***	****	**	**
Weight	*****	****	***	****	***	**	*
Views	*****	*****	*****	***	**	*	*
Cost	*****	***	**	****	**	**	*
Average	2.8	2.9	3.0	2.9	3.5	3.2	3.4

WRB = WATER-RESISTANT BREATHABLE // WPB = WATERPROOF-BREATHABLE // OPEN TARP = FLOORLESS SHELTER WITH PARTIALLY OPEN SIDEWALLS // MID TARP = FULL PERIMETER FLOORLESS SHELTER // 1W = SINGLE-WALL // 2W = DOUBLE-WALL