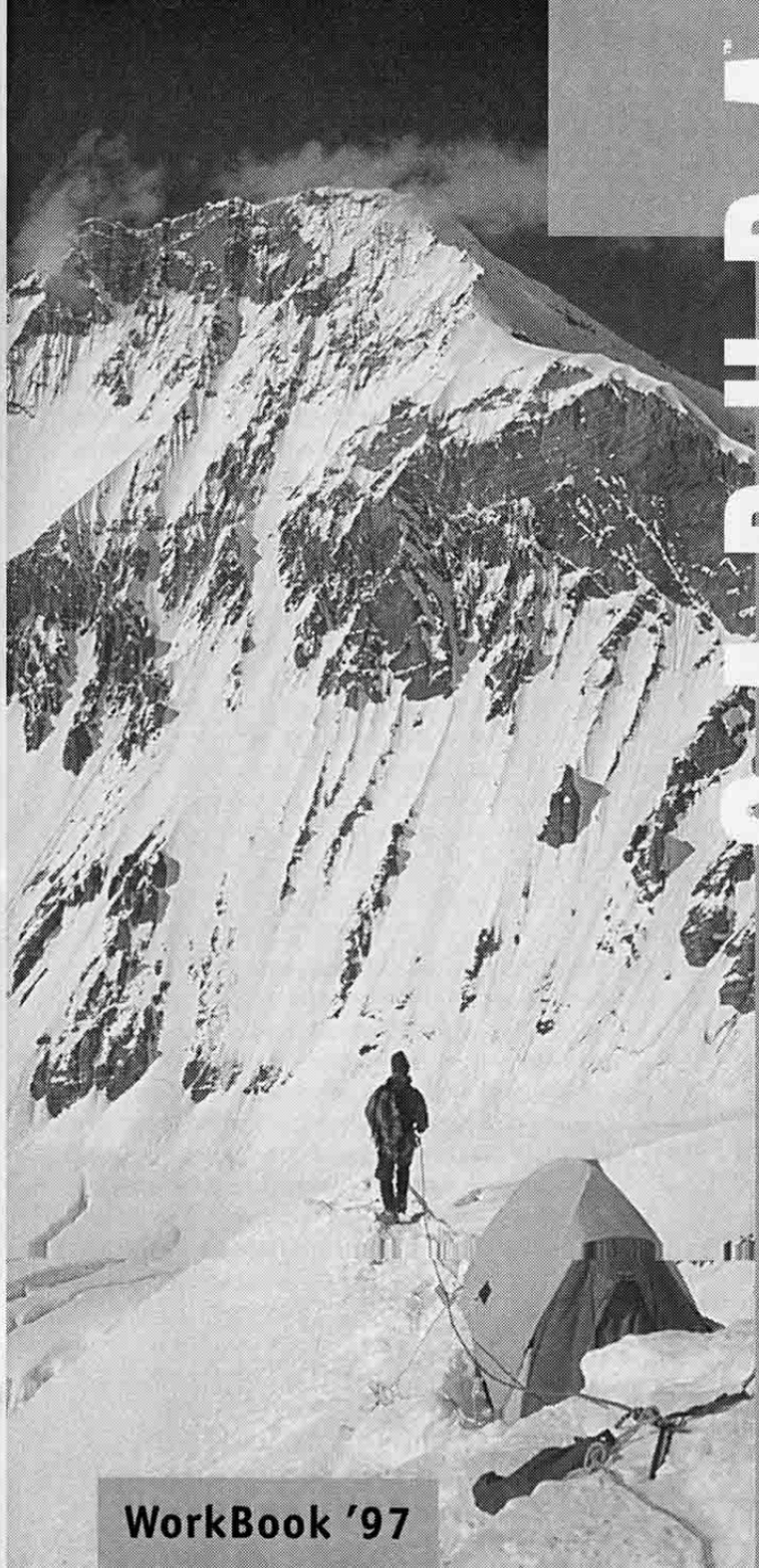
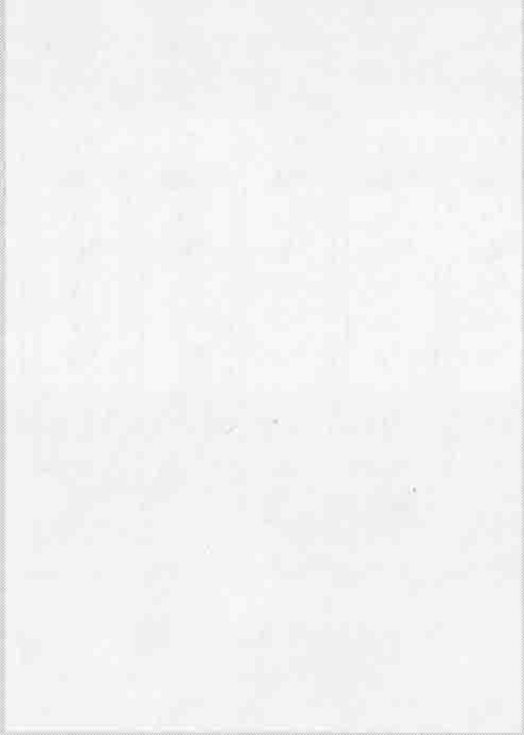


GARUDA™

(406) 587-4153

333 Simmental Way
Bozeman, MT 59715
U.S.A.



WorkBook '97

GARUDA™

Innovation in single and double-wall tent design

Ventilation = Versatility

Versatility in a tent design reflects how well the shelter performs in a variety of climates and environmental conditions. Weatherproofness, strength, durability, ease of pitch and use of space are important, but the characteristic most critical to comfort in changing conditions is a ventilation system. Because ventilation is always the key in a versatile tent design, careful attention has been given to maximize the flow-through air pattern in each Garuda tent. When the weather is nice, most tents have doors and vents that can be opened fully for cross flow. When it is anything less than dry and balmy however, well placed and shielded vent systems are critical for modifying ventilation to maintain comfort.

To advance ventilation past the traditional concepts, it is necessary to incorporate core architectural and structural elements as fundamental features of an effective and adaptable vent system. The frame architecture itself is the basis for the total integration of a system. Just tacking on vents or adding netting to traditional designs does not improve airflow. Purposeful high and low points of the tent for natural airflow do achieve better ventilation as well as compliment frame strength, ergonomics and effective use of materials. Front and rear vestibules and tension cones are practical features that create internal air flow patterns, and also tension the tent frame for significantly greater structural integrity. Though it is not always possible to position your tent into the wind, a frame shape that functions actively in one orientation and passively in others is better than one that performs mediocre in every orientation.

Bringing in fresh air is just one part of being comfortable. Exhausting interior air becomes more important as you seek protection from the weather. Moisture generated in the tent is most quickly and effectively removed through ventilation, before it can condense on the canopy. If you breathe onto your hand, more moisture goes between your fingers than through your skin, which is infinitely more "breathable" than synthetic materials. A synthetic textile does not perform like living tissue – the more systematically efficient a tent fabric is at transporting moisture, the less likely it will dependably and invariably maintain its waterproofness (ever wonder why you breath with your lungs and hydrate through your stomach even when both systems can each process air and liquids adequately in at least one direction?).

Large volumes of air can be transported through carefully placed low vents drawing fresh air in, and

out through integrated high peak vents providing a natural escape for rising warm air. Placement of the vent is more important than size. A large amount of netting area does not necessarily translate to the actual movement of air volume. The airflow must be active as well as passive, creating a sustainable flow pattern – air has to enter directly and exhaust directly. A coordinated system of low vents and high vents achieves this substantially better than a series of mid-height or uncoordinated vents.

If the first element of effective ventilation is the placement of the vent, the second is protecting the vent. All vents need to be generously hooded on the exterior for protection against the elements. Hood designs should maximize unhampered airflow and exterior visibility, and minimize catching unwanted wind or blowing rain. And vent hoods must have the structural support to stay open under wind and snow loads.

Garuda's protected ventilation system handles the moisture overload when climatic conditions simply inhibit the canopy from transmitting excess moisture (i.e. in humid weather, rain, or whenever the exterior canopy surface simply becomes saturated), unlike traditional single-wall tents that historically depend on microporous or other highly "breathable" canopies and closed-up designs. Traditional canopy concepts are dependent on maintaining a warmer interior temperature differential in order to activate their breathability and to maintain their waterproofness. Maintaining a closed environment for the canopy to function is contrary to the effectiveness of ventilation. Even traditional double-wall tents, extolled for their separation of functions for breathability (inner tent body) and weatherproofness (rainfly), function like traditional single-walls – moisture doesn't pass through the completely uncoated tent body without a heat energy (like when you are snug in your sleeping bag). A double-wall is a single-wall when there is not a temperature differential. And a traditional double-wall tent with an all netting canopy and a full coverage rainfly often has less wet weather ventilation than even a traditional single-wall.

For any tent, single or double-wall, it is always important that an effective ventilation system be thoroughly implemented to control potential condensation in unfavorable conditions. By maximizing ventilation and the dispersal of moisture, Garuda tents will eliminate or minimize the effect of any condensation in a wide variety of climates. It is more comfortable to have a versatile shelter with effective ventilation, and just a view of the nasty weather outside.

"The ventilation of this tent is so good that it was downright uncanny. Whether it was 20 degrees or 80 degrees, I was comfortable. And condensation was simply not a consideration in this tent: there never was any. I could live in the Kusala. It is roomy and well constructed. I give it an A+!" (from a 65 day tour)

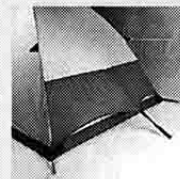
Adventure Cyclist on the Kusala,
January 1996

"With a staff of three, Garuda is one of the smaller companies on the outdoor scene, but the efficiency and strength of their single-wall tents has generated an industry-wide move back to single-layer canopies."

BACKPACKER
Gear Guide,
March 1996

"Seattle-based Garuda Mountaineering is bringing about a resurgence in single-wall tents. Ventilation, wind-resistance, and interior space are all superior...Like the rest of Garuda's designs, the Atman is light, compact, easily pitched and tough-features we get excited about while getting pounded on windy, 13,000 foot passes."

BACKPACKER
on the Atman, April 1994



Rear vents that draw in fresh air are protected from the elements under canopy tension cones, allowing flow-through ventilation in more weather conditions.



Peak vents expell moist air, reducing dependence on the canopy fabric to transmit all condensation.

Garudaland in '97



Garuda advances beyond the traditional notion of the minimalist single-wall tent experience.

When Garuda™ started in 1990, I had one objective – deliver the benefits of single-wall design in more versatile shelters. In the process of using and building numerous tents by hand since 1983, I knew that traditional single-wall concepts could be advanced. By incorporating functional ventilation and features as core architectural elements of the pole frame, these features' functionality could be greatly enhanced and the frame could also be made stronger. Our tents structurally incorporate vestibules, doors, strategic vents, windows, and utility areas not only as desirable characteristics of a portable shelter, but as performance enhancements. By carefully coordinating all these characteristics, Garuda extended the performance and comfort of single-wall tents to a wider range of climates than would have ever been considered before.

Another new year brings our objective yet one more step forward with our offering of versatile shelters delivering performance benefits in both single-wall and double-wall design. Garuda continues to steer the industry by providing tent customers with a choice in superior performing shelters of innovative design and premium craftsmanship. We continue to keep it simple — focus on the core elements of the desirable features and maximize their benefits.

The result is a line of meticulously crafted, slightly contrary tents designed and proven to balance versatility, lightweight and efficiency, with a preference for sound dependability. Garuda utilizes the most appropriate technologies and materials to pioneer the new alternative in tents. Over six years of use in the field, from as near as the local Olympic rainforest to as far as the high camps of Everest, have established the concepts and the tents.

Since the beginning we have been proud to be making every tent in Seattle. We will continue making tents in our new shop in Bozeman, Montana, where will be joining our sister company, Dana Design. Garuda tents will be built along side Dana Design's packs, where each and every step of assembly is performed to insure the precision, care and quality each of our customers have depended on in the field.

Please call us with your tent questions - we will get you answers.

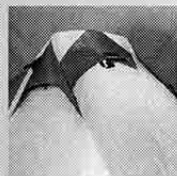
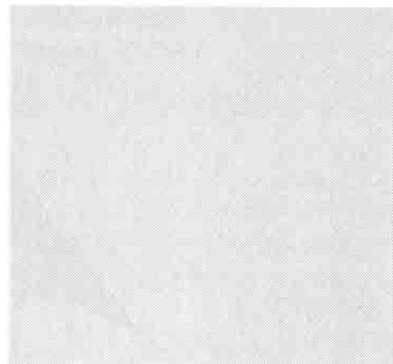
Byron Shutz

Single-Wall Tents

We set a new precedent in 1991 with the introduction of our single-wall designs. These new tents significantly advanced the concepts, performance and versatility of single-wall shelters. Garuda single-wall tents continue to provide the highest value of performance for their weight and size.

The keystone of single-wall tents is their superior performance for the weight. Only a 10-15% reduction in fabric weight is achieved in utilizing just one layer of w/b fabric. The overall tent weight and packed bulk is minimized through the advantages of single-wall design: less duplication of functions (i.e. rainfly to carry and pitch), duplication of materials for a rainfly (webbing, pole sleeves, seams and anchor points), and less overall pole length for the volume. Architectural configurations maximize structural strength, with more weight and bulk savings in the tent body and poles. Ergonomics emphasize sheltering an efficient use of space with architectural simplicity. A frame design intended to be pitched with just three anchor points sets up more quickly and maximizes the efficient dispersal of stress through the least amount of shell material, without requiring additional guy points to bolster the frame.

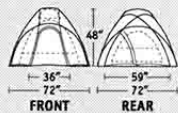
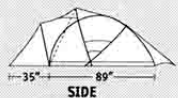
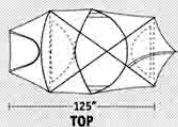
The topic of condensation always seems to parallel that of single-walls. It needn't. There is as great a range in condensation within double-wall tents as there is between double and single-walls. Not all concepts should be equally lumped together, or apart. We are quick to state that a single-wall design may experience interior condensation in a wider variety of adverse conditions than one of our double-walls. The difference may mostly be dependent on the user's use of ventilation. The question becomes whether that degree of condensation has any effect on the livability and comfort to the occupant, and whether that frequency of condensation is of greater inconvenience compared to a standard double-wall than the additional benefits of the Garuda single-wall design. Each Garuda tent has been designed to encourage fresh air-flow and dissipate condensation by maximizing the control of ventilation through low and high vents in even the stormiest conditions. Garuda tents have distinguished and differentiated themselves in the field. Outstanding performance of our shelters outweigh the traditional myth of condensation.



By combining hydrophilic materials with innovative architecture, Garuda extends the performance and comfort of single-wall designs to a wider range of environments.

Trikaya

(Tre•kai'ya)



Floor Area

42.0 sq. ft.
(3.8 m²)

Vestibule Areas

12.5 sq. ft. (front)
4.0 sq. ft. (rear)

Minimum Weight

8 lb., 8 oz.
(3.82 kg)
including
tent, poles and
anchor webs

Poles

5

Packed Size

Tent: 14" x 12" x 5"
(36 x 30 x 13 cm)
Poles: 21" x 3" x 3"
(53 x 8 x 8 cm)

Custom
Ground Cover
is available

The Trikaya set a new standard in efficiency in '94. This bomber tent comfortably shelters three people and all their gear on long, demanding trips. For an ergonomically spacious living area, four color-coded poles support the asymmetrical tent body over a rectangular floor. A fifth colored pole supports the integrated, large, dual-vented front vestibule. The steeply angled rear tension cone forms a ventable vestibule covering the rear door and distributes canopy tension.

A simple slit vent is integrated into each of the side canopy tie-outs and is weather protected by the tension panel. These low center vents and the rear door vent draw in dry air to exhaust moist air out peak vents and doors into the vestibule areas. The wide door on each end backed with a No-See-Um netting window provide controlled foul-weather access and ventilation. The front vestibule's side-hung door features three zipper pulls to adapt venting, access and views. The Trikaya may also be pitched for 3-season use with just four poles: leaving the rear pole home saves 8 ounces.



"Ventilation is this tent's strongest suit.

The Trikaya is studded with unique closable vents that allow moist air to escape, rather than condense on the walls... An elaborate venting system kept condensation at bay, leaving our testers warm and dry during a stormy night...the Trikaya is a complex, high-tech, high-performance unit."

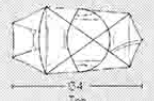
BACKPACKER on the Trikaya, October 1995

"Built in the bombproof tradition of Garuda tents, the Trikaya is a Spartan performance machine in fabric.. As a single-wall, three person tent, you would be hard pressed to find any tent stronger and lighter than this."

COULOIR, on the Trikaya, February 1996

Tambu

(Tom•boo')



Floor Area

35 sq. ft.
(3.2 m²)

Vestibule Area

12.0 sq. ft. (front)
3.0 sq. ft. (rear)

Minimum Weight

7 lb., 4 oz.
(3.30 kg)
including
tent, poles and
anchor webs

Poles

5

Packed Size

Tent: 12" x 8" x 5"
(30 x 20 x 13 cm)
Poles: 21" x 3" x 2"
(53 x 8 x 5 cm)

Custom
Ground Cover
is available

Demand over the years for a two-person mountaineering dome guided the development of the Tambu. This compact, stout tent comfortably shelters two people and their gear. Mirroring the Trikaya in efficiency, the Tambu offers all the essential features in a tightly integrated design.

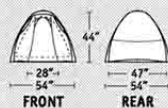
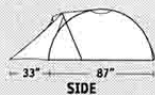
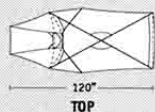
Four color-coded poles efficiently support the asymmetrical tent body over a fully usable rectangular floor. A fifth colored pole supports the full-size, dual-vented, integrated front vestibule. The steeply angled rear tension cone distributes canopy loads and forms a small vestibule covering the rear door.

Weather protected by the pull-out tension panels integrated into each of the side canopies, simple slit vents and the rear door vent draw dry air in to the tent. Moist interior air is exhausted out through peak vents into the vestibule vents. The wide door on each end backed with a No-See-Um netting window provide controlled foul-weather access and ventilation. The front vestibule's side-hung door features three zipper pulls to adapt venting, access and views. Six large netting pockets keep things organized.



K a j a

(Kah'•shuh)

**Floor Area**29.5 sq. ft.
(2.7 m²)**Vestibule Area**

9.0 sq. ft.

Minimum Weight5 lb., 6 oz.
(2.42 kg)
including
tent, poles and
anchor webs**Poles**

3

Packed SizeTent: 11" x 8" x 4"
(28 x 20 x 10 cm)
Poles: 19" x 2" x 2"
(48 x 5 x 5 cm)Custom
Ground Cover
is available

Since its introduction in '93, the Kaja has set the industry standard for light, full-featured mountaineering domes. The Kaja incorporates Garuda's trademark features - light weight, ventilation, strength, dependability, and easy pitching. Three intersecting poles create a bombproof, snow-shedding frame that integrates a vestibule within the smallest overall footprint. The front pole provides maximum floor width and wall support in your shoulder area and increases headroom near the door - where you need them most.



Just three stakes can secure the rear cone and integrated vestibule to fully tension the entire canopy, greatly increasing the tent's structural integrity. Additionally, the zippered rear vent, two independent peak vents, and the high roof line work in conjunction with the vestibule to promote controlled airflow in a variety of conditions. Three zipper pulls on the side-hung vestibule door allow versatile access, venting and a view out the steeply raked hood.

"...the Kaja is the best single-walled tent I've found for all-around alpine climbing and camping."

CLIMBING's Michael Kennedy
on the Kaja October 1994

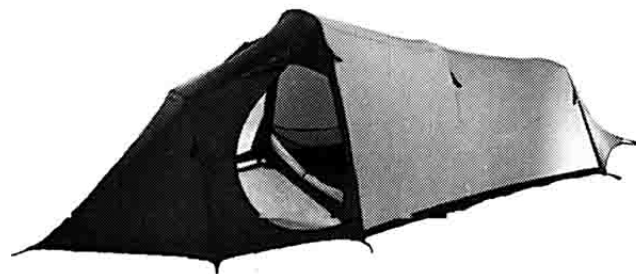
"For really wicked winter conditions and where weight is more of a concern than interior room, the Garuda Kaja, the lightest, easiest to pitch, and most robust shelter, is champ."

CLIMBING's Duane Raleigh
on the Kaja, March 1995

This four season tent accommodates two large people opting for more living space. The integrated vestibule provides a large utility area with two doors and steeply raked peak vents. A drying rack and storage area with a coated floor are incorporated into the vestibule tension cone. Four netting pockets, an overhead drying rack and eight hangloops add convenience to the roomy interior.

Oversize Easton® poles amply support the taut canopy to shed snow and wind. The three main poles are quickly erected outside the tent body, allowing a quick pitch without subjecting the living area to the elements. The color-coded center pole securely supports the main canopy, or it can be left home to save 6 ounces when conditions don't warrant it. In fair weather the rear exterior tension cone may be rolled up to expose the screened vent for complete ventilation and views.

The versatile "Emee" delivers the benefits of single-wall technology in a strong, functional and commodious shelter.



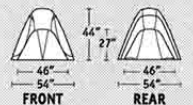
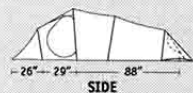
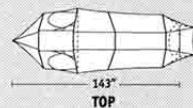
In fair weather, the Emeishan's rear exterior tension cone may be rolled up, revealing a screen vent for increased ventilation and visibility.

The Emeishan is handsomely made, with thoughtful and practical touches such as dual-size pockets in the corners to keep doodads sorted...Although it's expensive, the Emeishan is best regarded as a lifetime investment. It's a no-compromise tent for the serious adventurer.

Outside, on the Emeishan, March 1995

Emeishan

(Em'•ee•shawn')

**Floor Area**29 sq. ft.
(2.6 m²)**Vestibule Area**

15.0 sq. ft.

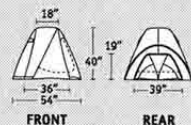
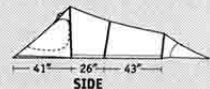
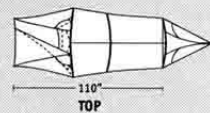
Minimum Weight6 lb., 0 oz.
(2.7 kg)
including
tent, poles and
anchor webs**Poles**

4

Packed SizeTent: 11" x 8" x 5"
(28 x 20 x 13 cm)
Poles: 19" x 3" x 2"
(48 x 8 x 5 cm)Custom
Ground Cover
is available

Kusala

(Koo•saul'•ah)



Floor Area

30.5 sq. ft.

(2.8 m²)

Vestibule Area

7.0 sq. ft.

Minimum Weight

4 lb., 13 oz.

(2.16 kg)

including tent, poles and anchor webs

Poles

3

Packed Size

Tent: 11" x 8" x 4"

(28 x 20 x 10 cm)

Poles: 18" x 2" x 2"

(46 x 5 x 5 cm)

Custom

Ground Cover

is available

A feature-packed, four-season tent designed to capably handle a wide variety of adventures. Modified-hoop poles at each end and a parabolic arch in the center provide a radically strong, stable, light-weight shelter. And if you don't need the added canopy support for high winds or snow, the center pole can be left at home – saving five ounces in weight.



An innovative, floorless vestibule extracted from the tent's main architecture sets the Kusala apart – no other tent in its class so efficiently incorporates a covered entrance and a protected storage area. The vestibule door (shown rolled up to the pole) has 3 zipper sliders to flexibly control access and ventilation. The vent under the unique rear tension cone coordinates with three screened peak vents and the protected inner door to create an adjustable ventilation system, whether the climate is balmy or alpine.

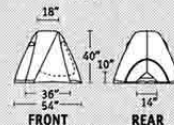
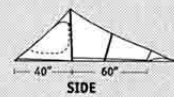
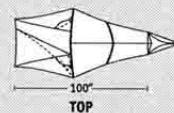
The Kusala epitomizes Garuda design concepts — it is the strongest, most versatile under-5 pound shelter available for a light-n-tight two. Or a soloist wanting everything including the room to invite a companion. Favored by all adventurers roaming a variety of harsh climates, the versatile Kusala is always a welcome sanctuary.

"I took the Kusala to Mt. Rainier last winter on the strength of Byron Shutz' growing reputation for making lightweight, aerodynamic and ergonomically efficient tents. I came away impressed by the Kusala's efficient design, bombproof resistance to the elements, logical use of interior space, taut aerodynamic skin and truly light weight. Additionally, this tent's tight and precisely fitted construction and single-wall canopy virtually eliminate wind noise caused by floppy fabric of lesser designs, a feature greatly appreciated during the storm I encountered."

Couloir, October 1994

Atman

(Aht'•maun)



Floor Area

21.5 sq. ft.

(1.9 m²)

Vestibule Area

7.0 sq. ft.

Minimum Weight

3 lb., 13 oz.

(1.72 kg)

including tent, poles and anchor webs

Poles

2

Packed Size

Tent: 9" x 7" x 4"

(23 x 18 x 10 cm)

Poles: 18" x 2" x 1"

(46 x 5 x 3 cm)

Custom

Ground Cover

is available



1994

Backpacker

"The Atman is a wedgy, two-arch hoop tent designed for the serious four-season soloist. Ventilation, wind-resistance, and interior space are all superior, offering prone and sit-up room for six-footers in a four pound bundle.

Like the rest of Garuda's designs, the Atman is light, compact, easily pitched, and tough."

Equipment Editors, *Backpacker*

As a four season solo tent for the serious traveler, the Atman incorporates the maximum of features and functional space into a tent scaled for one person – delivered at half the weight and bulk of a traditional two-person mountaineering tent.

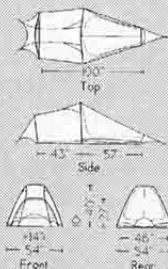
Sharing the design of the Kusala forward of the main pole, Atman

has an exterior vestibule area, protected inner door and two side peak vents. A zippered rear vent under the tension cone allows additional dry air to enter low and exit through the two peak vents. The center pole gives the tent's steep walls added support, creating a strong, snow-shedding canopy (or the center pole may be left home to save 3.5 oz. when conditions don't warrant it).

If you often travel into the unpredictable weather of the high-country or enjoy long journeys through the outback, you will appreciate this capable, secure and practical shelter for the soloist.

K a m e t

(Kah•met')

**Floor Area**

28.5 sq. ft.

(2.6 m²)**Vestibule Area**

Variable Awnings

Minimum Weight

4 lb., 7 oz.

(1.99 kg)

including
tent, poles and
anchor webs**Poles**

2

Packed Size

Tent: 10" x 8" x 3"

(25 x 20 x 8 cm)

Poles: 18" x 2" x 2"

(46 x 5 x 5 cm)

Custom

Ground Cover

is available

A light three season tent featuring lots of fair weather ventilation. This airy tent has two large, screened window canopies, which are also the fully zippered doors. The two side peak vents exhaust warm air drawn in under the door canopies and front vent when the tent is weather-proofed (picture shows canopy panels unzipped and rolled up to the center seam).

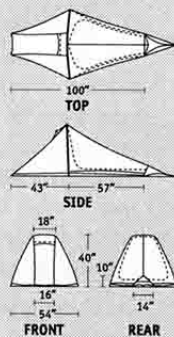
The two doors eliminate access hassles. The canopy doors can be rolled up and secured for unhampered ventilation and views. Each door can always be guyed out at a shallow angle to form a protective awning.

The front pole provides headroom and a weather shedding canopy. The front tension cone vent allows a view out the front and plenty of breeze above your heads.

The Kamet readily and comfortably accommodates a friendly couple for super-light traveling in a varying range of climates.

**J a l a n****J a l a n**

(Juh•lôn')

**Floor Area**

22.5 sq. ft.

(2.1 m²)**Vestibule Area**

variable awnings

Minimum Weight

3 lb., 6 oz.

(1.52 kg)

including
tent, poles and
anchor webs**Poles**

1

Packed Size

Tent: 9" x 7" x 3"

(23 x 18 x 8 cm)

Poles: 18" x 1" x 1"

(46 x 3 x 3 cm)

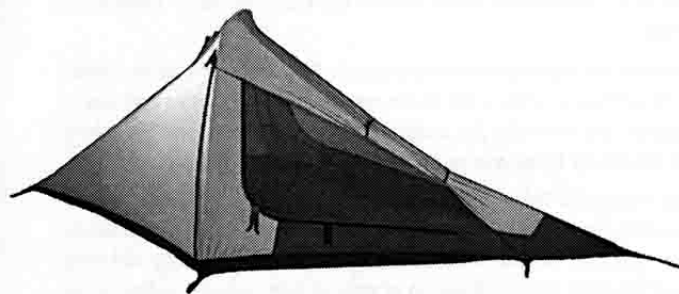
Custom

Ground Cover

is available

A solo three season tent featuring lots of space and protection from the elements. This airy tent has two large, screened window canopies, which are also the fully zippered doors. The peak vent exhausts warm air drawn under the door canopies when the tent is weather-proofed (picture shows canopy panels unzipped and rolled up to the center seam). The simple wedge silhouette sheds wind, rain and snow without a flap.

If your travels are often solo and in the lands of heat and humidity, the Jalan is hard to beat for versatility. It offers more interior room than our Atman, but not the weight of its vestibule space and truly four-weather capabilities. The Jalan is large enough to accommodate a very friendly couple for super-light traveling.



The name is inspired by a casual response to an Indonesian greeting, sometimes meaning "oh, going nowhere and everywhere, just out walking": that attitude sums up this versatile and dependable shelter.

"When opened, the side panels can be staked out to form awnings, or rolled up and toggled along the ridgeline for maximum ventilation...I loved the doors and venting...Pitching was simple since we rarely used more than the three-stake minimum."

Steve Howe

BACKPACKER, June 1993

Double-Wall Tents

We've enhanced the functionality of double-wall tents by incorporating performance concepts proven in our single-walls. This new generation of double-walls significantly advances performance and versatility beyond current expectations by integrating truly effective ventilation, functional features and dependability.

Our double-walls offer more interior room for the weight. Increase in usable volume without additional weight is achieved by utilizing the 1.6 oz. 40 Denier nylon with silicone coating over an asymmetrical frame. Frame architectures are based on Asymmetrical Structural Integrity (ASI). Asymmetrical dome frames feature distinctive high peaks and low ends, allowing our double-walls to offer 1) larger and more usable interior space emphasizing an architectural simplicity with efficient weight and bulk savings, 2) superior wind and snow loading for maximum stability and strength, 3) better protected and adaptable ventilation, 4) effective control of condensation under the rainfly, and 5) an easier three-point pitch maximizing strength.

Garuda tents incorporate low and high vents to encourage air-flow and minimize condensation. The tents maximize ventilation with vents in the continuous pole sleeves and strategic fly vents to the exterior, and minimize the trapping of condensation under the rainfly with a pole design that minimally interrupts condensation driplines to the ground.

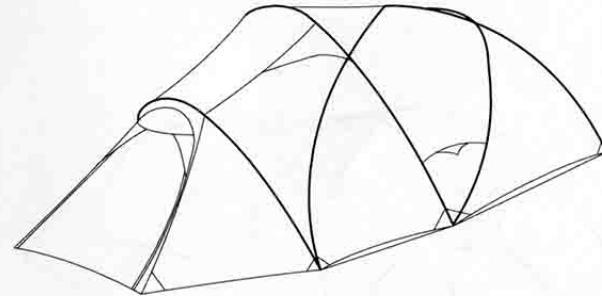
All models feature large integrated front vestibules in conjunction with the rear tension cone/ventilates. These allow the two full size doors to provide covered foul-weather access and controlled, well protected, all-weather ventilation. Vestibules add livability and function as well as structural integrity. The combination of pole sleeves, twisted anchor loops, tensioning anchors and minimum required stakes all ease pitching. Continuous main pole sleeves eliminate the hassle of threading poles through separate sleeves, and better strengthen the tent. Three main anchor points allow a quick pitch, and promote consistent tension on the fly to provide superior weather shedding and drum tight quietness—additional anchor loops and bomber tie-downs secure the tents in very severe conditions. Fly tensioning buckles are field repairable and interchangeable.

Garuda double-walls offer more room with greater performance benefits than traditional designs.

A feature-packed, four-season tent designed to capably handle a wide variety of climates and conditions. The Sahti may be the most comfortable, weather shedding shelter ever sought out by those requiring more room and versatility in a double-wall, and confidence.

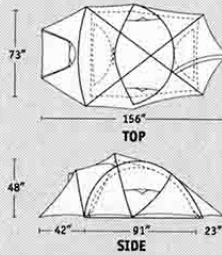
The vestibule door (shown zipped close) has 3 zipper sliders to flexibly control access and ventilation. The vent under the unique rear tension cone coordinates with three screened peak vents and the protected inner door to create an adjustable ventilation system, whether the climate is balmy or alpine.

The fully tensioned fly attaches quickly and can be secured directly to the pole frame.



Sahti

(Sah·tee')



Floor Area

42.8 sq. ft.
(3.9 m²)

Vestibule Area

17.2 sq. ft. (front)
5.0 sq. ft. (rear)

Minimum Weight

9 lb., 4 oz.
(4.16 kg)

including
tent, poles and
anchor webs

Poles

5

Packed Size

Tent: 14" x 12" x 5"
(36 x 30 x 13 cm)

Poles: 21" x 3" x 3"
(53 x 8 x 8 cm)

Custom
Ground Cover
is available

Pattar

(Paht•tar')

A feature-packed, four-season tent capable of handling anywhere you want to go. This solid dome for two and all their gear provides ample frame integrity and stormproofness in the severest conditions, with more versatility and interior space for the weight than conventional shelters.

The Pattar pitches quickly and easily with its pole sleeves and quick-attachment rainfly. A wide door at each end provides easy and convenient access to both vestibules. The rainfly tensioning straps are removable, interchangeable and field repairable.

The vestibule door (shown zipped close) has 3 zipper sliders to flexibly control access and ventilation. The vent under the unique ventable rear tension cone coordinates with three screened peak vents and the protected inner door to create an adjustable ventilation system, whether the climate is balmy or alpine.

For maximum dependability and the advantages of a larger double-wall, Pattar is the choice.

Floor Area

37.1 sq. ft.

(3.4 m²)**Vestibule Area**

14.2 sq. ft. (front)

4.0 sq. ft. (rear)

Minimum Weight

8 lb., 4 oz.

(3.71 kg)

including
tent, poles and
anchor webs

Poles

5

Packed Size

Tent: 12" x 10" x 5"

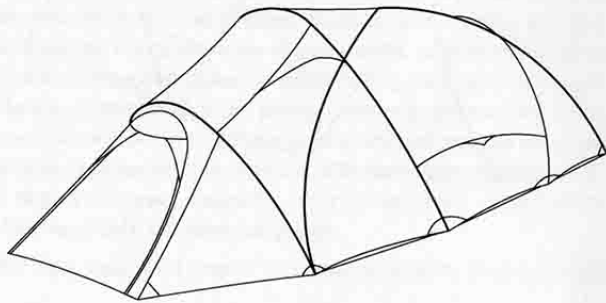
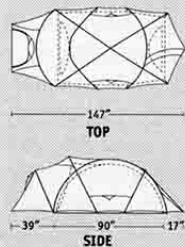
(30 x 25 x 13 cm)

Poles: 21" x 3" x 3"

(53 x 8 x 8 cm)

Custom

Ground Cover
is available

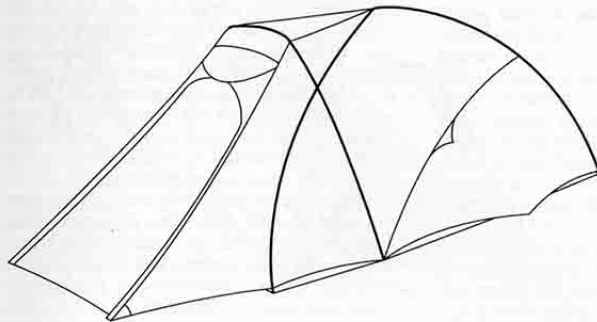


A surprisingly feature-packed, four-season tent designed to capably handle a wide variety of adventures. This double-wall for two and their gear features more space, two doors, an efficiently integrated vestibule with a peak vent, and our quick three-point pitch.

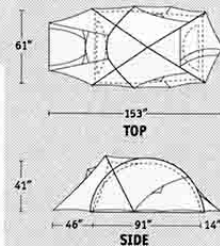
The vestibule door (shown zipped close) has 3 zipper sliders to flexibly control access and ventilation. The vent under the unique rear tension cone coordinates with peak vents and the protected inner door to create an adjustable ventilation system, whether the climate is balmy or alpine.

The side pull-out panels on each fly side evenly tension the tent, positioned so they best bolster the rear sections of the main poles. Additional tie-outs and anchor loops are provided.

The Jana offers foul-weather shelter with plenty of room and comfortable features.

**Jana**

(Jah'•nah)

**Floor Area**

35.0 sq. ft.

(3.2 m²)**Vestibule Area**

12.5 sq. ft. (front)

3.5 sq. ft. (rear)

Minimum Weight

6 lb., 14 oz.

(3.09 kg)

including
tent, poles and
anchor webs

Poles

3

Packed Size

Tent: 12" x 9" x 5"

(30 x 23 x 13 cm)

Poles: 21" x 3" x 2"

(53 x 8 x 5 cm)

Custom

Ground Cover
is available

Tasir

(Tah·zer')

A feature-packed, three-season tent designed to capably handle a wide variety of light but tough traveling. Modified-hoop poles at each end tension the sloped canopy to provide a strong, stable, lightweight shelter. Two doors greatly increase access and ventilation to the long and roomy interior.

Like our Kusala, an innovative, floorless vestibule asymmetrically extracted from the tent's main architecture sets the Tasir apart. The vestibule door (shown rolled up to the pole) has 3 zipper sliders to flexibly control access and ventilation. The vent under the rear tension cone and the low netting canopy panels on either side of it coordinate with the high front screened canopy panels and the protected inner doors to create an effective active or passive ventilation system. The peak vents above each door on the rainfly exhaust moist air from under the rainfly, whether the climate is balmy or alpine.

The Tasir offers great versatility and space in a lightweight hoop shelter.

Floor Area

36.5 sq. ft.

(3.3 m²)

Vestibule Area

Not Applicable

Minimum Weight

5 lb., 2 oz.

(2.31 kg)

including
tent, poles and
anchor webs

Poles

2

Packed Size

Tent: 12" x 8" x 4"

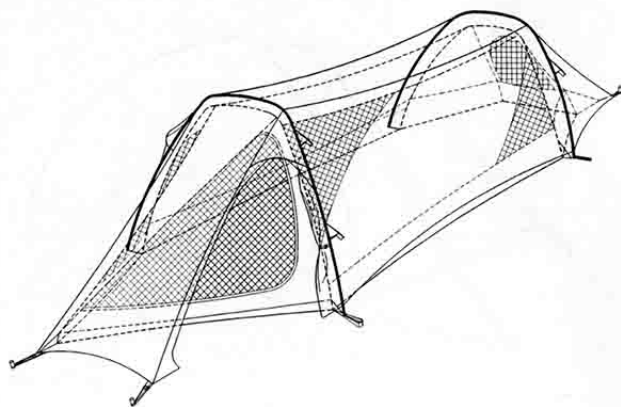
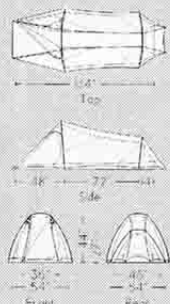
(30 x 20 x 10 cm)

Poles: 21" x 2" x 2"

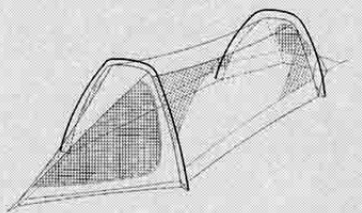
(53 x 5 x 5 cm)

Custom

Ground Cover
is available



Tent body shown without rainfly.



Tarps and Shelters

Garuda is currently developing a line of tarps and shelters. Stay tuned for more information.

Construction Methods

Small Volume

Everyone depends on the one tent they purchase. Garuda designs, builds and inspects ours before delivery on that essential premise. Each carefully designed component has been assembled with meticulous individual attention. Construction details complement the integrated performance of each design.

Culmination of Details

Our specific methods require more time and careful attention, but do deliver lasting performance. We have tested and developed our own construction techniques to sew the tents. Precise catenary cuts improve and direct canopy tension. In the cutting layout, patterns are oriented on the fabric warp and weft to maximize the distribution and control of stress and stretch — not just to minimize fabric waste (cost). Delrin® rod ends are cold-cut then flame melted to round the tip, plus the ends of the rod's tape-sleeves are reinforced with small Oxford patches. All linear materials (webbing, twills, tapes) are hot-cut to insure correct length and prevent fraying of the ends that can allow a stressed webbing to work its way through the thread. Wherever possible anchor webbing loops are box stitched to better distribute tension (we don't just bartack, we box stitch). Pole retainer straps are cut generously long, with over-width hook tapes for a wider overlap to ease setup and takedown. Internal pole pockets are densely woven nylon webbing folded and wrapped with coated oxford to eliminate punch-throughs, reduce abrasion, and catch pole condensation. Corner pole pockets on dome models are attached directly to the bias-tape for easy access, to eliminate through-floor seams, and for easy repair. All stressed areas are amply reinforced.

Seam Construction and Thread

Oversize #46 bonded nylon thread and lock stitch sewing are used throughout production. Nylon thread is stronger than standard polyester and will not rot. Bias-tape construction provides maximum strength and stress dispersal without excessive stretching of seams. Bias-taping isolates the thread from the surface materials, permitting the use of the stronger oversize nylon thread. Taping also allows the hook & loop pole

retainers to be sewn directly on to the tape after the seam is sewn, making the retainers stronger since they distribute streams along the whole seam of both panels, and easier to upgrade since they are not sewn to the canopy itself. We have never had a seam fail, in expedition use or anytime.

Seam Sealing

Each Garuda tent is supplied with SeamGrip Sealant. Garuda does not factory seal-tape the seams. The advent of SeamGrip sealant changes the whole taping issue, greatly improving the performance of seam sealing and maintenance of your tent. A well applied coat will last many years. To insure actual waterproofness, most manufacturers of factory-taped tents recommend that the exterior of the tent still be sealed by the tent owner. Garuda does not factory seal-tape the tent seams for the following reasons:

Taping does not add longterm value to the tent relative to its cost, potential durability, and performance. Hot taping is a precarious process that dictates how the tent is constructed. The overall design is compromised by seams and intersections needing to be rigidly designed for access by the taping machine - intricate but functional detailing and features are often impractical to incorporate into the design with restrictions placed by taping. The seal tape is applied with a mixture of hot air, warm glue, plastic tape and careful monitoring of the rate of application so as not to damage the materials, yet seal well. Hot taping the seams on Nexus-lined materials is essentially soaking the Nexus with enough glue to adhere the tape and prevent the Nexus from wicking moisture into the interior. Applied improperly, hot tape may be nearly useless, weaken the fabric and peel off over time. Sealing the interior does not prevent water from coming into the seam itself - water may be channeled to a weak point where leakage occurs. Tents are exposed to a variety of stresses and tensions - repetitive freezing and thawing may weaken the seam and tape adhesion. And finally, since manufacturers do advise sealing the exterior of taped seams, factory taping only saves half the time to weatherproof a tent, possibly costing more than the value added.

Architecture

While our tents are based on time-tested architectural principles, computer-aided-design (CAD) has always been used to merge these fundamental shapes with the advantages of our current single-wall technology. What came out of our analysis is Asymmetrical Structural Integrity (ASI). Asymmetric, meaning not uniformly shaped, stems from creating a frame offering the most inherent advantages to strength, ventilation and space.

The ASI parabolic, modified-hoop and modified-dome designs all provide an evenly stressed canopy featuring distinctive high peaks and low ends that allow vents to be properly placed, as well as granting more headroom and a longer, tapered floor area that dedicates less weight to poles and fabric. ASI frames in all our tents offer 1) more usable interior ergonomics emphasizing an architectural simplicity for efficient weight and bulk savings, 2) superior wind and snow loading for maximum stability, 3) better protected and adaptable interior ventilation systems, 4) effective control of condensation that does occur, and 5) maximum structural strength with an easier three-point pitch.

Vestibules add livability and actively contribute to function. Protected doors, vents, and windows extend the tent's performance and comfort. Structurally integrating the vestibules and vent cones significantly tensions the tent and disperses stress throughout the canopy shell. With the rear cone anchored windward, the tapered canopies spill the wind, resist buffeting, and actually increase in tautness as gusts force the tent down over its frame. Down-wind vestibules, especially on single-walls, are where the majority of interior moisture is readily directed so it can impact you the least as it condenses and drips to the ground or freezes.

Tent anchor systems employ an elastic or adjustable tensioning anchor to draw and keep the tent tight against its other static anchors. All our tents require only three structural anchors for stability. By designing the tent architecture from the start to be dependent on those points to promote consistent tension on the tent, the structural integrity is enhanced and does not depend on additional tie-outs to provide superior weather shedding and stability. Most "self-supporting" designs may actually require more anchors to: 1) secure and stabilize the tent in winds, 2) maximize available interior room, and 3) keep the canopy or rainfly taut so it does not flap in the wind or stretch in the rain. A tent should always be securely and prudently anchored to its site. Garuda tents are designed to utilize the three main anchor points for a majority of

conditions encountered. In worsening conditions, often just securing the two main side pullouts is adequate. For additional stability in severe weather, additional tie-outs and anchor points are structurally integrated into Garuda designs.

To direct and control canopy tension in all the models, patterns have precise catenary cuts. Carefully fashioning the tents to eliminate excess fabric leaves little slack to sag, flap, billow in the wind, or be carried around. Asymmetrical hoop designs will offer the most efficient sleeping weight-to-volume-to-strength ratio for portable shelters. What you gain with a dome configuration in headroom, portability once pitched, and static snow shedding is also a gain in weight, bulk, set up and complexity.

Access to the tents comes in two different interior door designs. The most effective configuration for weatherproofing and minimizing the weight of zippers, duplicate materials and excess seams is an "Inverted-U" shape. The seam is solid and sealed across the bottom so the door can slough weather to the ground. Zipping up vertically parallel, the door sill can be constructed low so you adjust its threshold height with the zipper pulls for snow or blowing conditions. Though this door-on-the-floor approach gets rolled inside before crawling in and out, it has several more advantages. From the inside one can zip it up to a desirable height to lean over to access the vestibule, or zip higher to fully ventilate out just the highest, most protected point. And the far sleeper from the side the door opens doesn't need to kneel over there partner(s) to get in or out.

The side D-zip door design works best in tent panels where its shape provides the largest available opening. Zipped and tied up to the side the door is out of the way, though the sill threshold is fixed along the bottom zipper track. On vestibules, in an "open-D" not sewn across the bottom, it allows the door to fall completely aside without a lower sill to step over. Three zipper sliders allow vestibule doors to be adjusted for access, ventilation, and views.

Most interior door and vent panels that are shielded by vestibules or hoods are made from uncoated ripstop. Since these panels need not be waterproof, dust-proof ripstop is used to aid in reducing weight and improve ventilation in windy conditions. As in any zipper, care is taken when zipping up against the door's weight and tension. Or when crawling over it.

We continue to keep it simple — focus on the core elements of the desirable features and maximize their benefits.

Premium Materials in Single-Wall Tents

Versatility, strength and dependability are the purpose of each model – the result of thorough design, field testing, choice of materials and craftsmanship. The following materials are applied in single-wall models.

Flooring

Stronger than the usual 100 x 86 pic fabric, Garuda floors are a highcount 160 x 90 taffeta (1.9 oz/yd Single-Ply 70 Denier High-Tenacity Type 6.6 Nylon treated with DWR, UV and FR additives; mill pre-washed to prevent color bleeding) with a 1.25 oz./sq. yd. super urethane polymer coating. The higher count taffeta is 35% tougher and more abrasion resistant, and in conjunction with the 25% heavier coating delivers a minimum average of 170 psi Mullins. We attain that security not by applying a heavier overall coating (literally) that weakens the fabric with every layer that is knifed on, but by starting with a fabric that is inherently more water resistant as well as 35% more durable – greater dependability and versatility without a corresponding increase in the weight/yd. Additionally, all the tents less than 60" in width feature fully seamless "bathtub" floors to minimize leakage points and excess weight. Larger models have a single, easily sealed seam under the center. Color: Eggplant – dark for quick drying and excellent UV-resistance.

Taffeta

A durable 86 pic nylon taffeta (1.8 oz/yd Single-Ply 70 Denier High-Tenacity Type 6.6 Nylon treated with DWR, UV and FR additives; mill pre-washed to prevent color bleeding) with a full 1.0 oz./sq. yd. *Amersil FR* silicone-based polyurethane is used for vestibules, hoods, zipper flaps, tension cones and bias tape binding.

Full-weight *Amersil FR* polyurethane coatings provide significantly greater initial tear strengths and superior after-weathering tear strengths. The *Amersil FR* coating does not bind the fibers like a polyurethane coating, allowing the fabric to retain more of its inherent strength (uncoated substrates are stronger before applying any coating). The *Amersil FR* coating is also inherently more resistant to UV penetration. The material is even less effected by weathering due to the excellent UV prevention provided by putting the coating to the exterior – the taffeta stays stronger significantly longer than a standard nylon or polyester taffeta with polyurethane. The darker color plays a functional role as well – creating heat sinks that warm dry air as it enters to rise up and out the vents. Color: Burgundy – balances being a pleasing accent, drying quickly and excellent UV-resistant qualities.

Ripstop

The single-wall's inner doors and vent panels are constructed of ripstop nylon (1.6 oz/yd single-ply 40 denier high-count, high-tenacity Type 6.6 nylon ripstop treated with DWR, UV and FR additives; mill pre-washed to prevent color bleeding). A high-tensile nylon still offers the best balance of characteristics for tents. The fine weave of the light, durable nylon keeps dust and spindrift out the tent body. Please see the section for single-wall materials for more about nylon.

Netting

No-See-Um nylon netting (Fine-Weave 30 Denier Polyester treated with DWR, UV and FR additives; mill pre-washed to prevent color bleeding) is used for all doors, windows and vents. The fine weave keeps out the smallest pests and the charcoal gray color least distorts your views.

Zippers

All tents use polyester YKK™ zippers with double nickel plated sliders with long pulls for their self-repairing durability, strength, smooth sliding and ability to easily round curves. Tent vestibule doors and some larger interior doors use #7 YKK coil zippers for increased resistance to stress and wear. The lighter weight #5 YKK coil zipper is used on some doors and all interior vents. Color: Black for UV resistance and quick drying.

Poles

We have always use only Easton Aluminum 7075-T9 .340", .355", .380" and .433" diameter anodized aluminum poles, pre-bent where necessary to distribute stress under snow or wind loads, and shock-corded to fold up to less than 18" or 21" in length. The pole sets are hand assembled and corded by SHOKtechnology, utilizing their advanced shock cord, well established as the most resilient and durable cord for all conditions (don't underestimate the added value of this component in sub-freezing conditions). Easton Arch Connectors, stronger than radical pre-bends, complete some framework. The larger diameter poles provide more stiffness and strength in the tent's main pole. Several of the tents feature color-coded pole sets for easy differentiation while pitching. Colors: Gold, Light Green or Black tubes; Gold or Black Arch Connectors.

Vent hoods maintain their shape with Delrin® plastic rods. Dependably keeping the vents protected and open is essential for good ventilation. Delrin has not been known to break, even in severe, continuous cold conditions and it does not absorb moisture or lose its shape like nylon rods or tubing. All the rod end tips are individually cold cut then flame-melted to round or "ball-

up" the tip to reduce potential wear on the fabric reinforcements. Delrin rods may be replaced under warranty for any reason if damaged beyond repair.

Reinforcements & Tie-Outs

All stressed stake-loops are liberally reinforced with patches of waterproof nylon oxford (5.0 oz/yd 200 Denier Nylon Oxford treated with DWR, FR and UV additives coated with 1.0 oz/yd polyurethane) or nylon packcloth (1000 Denier Cordura treated with DWR and UV additives, coated with .75 oz/yd polyurethane). Tie-outs and pull-outs are made from Oxford. Color: Black for UV resistance and quick drying.

Webbing

All webbing is high-quality nylon chosen for its superior abrasion resistance and strength. To prevent fraying, every piece of webbing, hook & loop and tape is hot-cut to length by hand.

Hardware

Posi-Grip™ Toggles on door ties and stuffsacks are light and easy to handle. The acetal construction and spring retains pressure and won't rust. Acetal DB Buckles maintain a good grip on nylon even when wet, will not rust and are strong.

Accessories

Garuda includes the standard accessories you need with each tent. Since guy cord always seems to be a personal choice, ancillary lines are not included.

Tent Manual: complete pitching, use and care info, and step-by-step seam sealing instructions.

TentSack: a large, rectangular-bottom sack with a drawcord and grab handle; solo tents pack in a smaller version.

Custom PoleSack: tube-sack with separate pole and stake pockets, with cinch cord & toggle.

Easton Aluminum 8" Monster Stakes: light, strong, corded tube stake for 3 the main anchors.

Peg Stakes: sturdier-than-usual aluminum eye-pegs for extra tie-downs in severe weather.

Bias-Tape Zipper Pulls: for zipper sliders, with several longer ones for the primary zipper pulls.

Elastic Guy Cords: for guying out the canopy/ vestibule doors (on the Kusala, Atman, Tasir and Jalan).

SeamGrip®: the most durable, flexible, waterproof seam sealer available; lasts many times longer; helps prevent UV degradation to thread, strengthens seams and resists abrasion.

Monoject® Syringe: for the precise and efficient application of SeamGrip sealant, vital for a good seal.

Pole Repair Tube: Easton aluminum "pole sleeve" for emergency field repair.

Fabric Repair Swatches: one swatch of each main fabric for field repairs; if is bigger than the patch, we would gladly like to properly repair it for you. While in the field, augment temporary emergency repairs with self-stick tape.

Optional Ground Covers

To minimize external long-term wear and tear that will eventually compromise any tent flooring's durability, each Garuda tent has available as a separate option a custom-shaped ground cover made of coated nylon taffeta (1.8 oz/yd Single-Ply 70 Denier Nylon Taffeta treated with DWR, UV and FR additives, coated with 1.0 oz tapeable polyurethane for increased durability). Ground covers are black to promote quick drying.

Single-Wall Canopy

The Garuda advantage begins with our exclusive ByroTex™ canopy material developed specifically for us, a three-layer waterproof/breathable fabric laminate. Years of textile research and prototype field testing focused our requirements for the canopy's characteristics: dependably weatherproof, light weight, quick drying, and durable. These characteristics, rather than an emphasis on transmission rates, deliver the benefits of single-wall design with a specific priority for comfort, functional ventilation, and structural integrity. For added safety and versatility, Garuda fabrics are certified CPAI-84 flame-resistant – the first Nexus-lined single-wall tents to do so on the market in 1991.

We tested many textiles and W/B components before selecting these characteristics to best compliment the emphasis on ventilation — canopy breathability is a 2nd priority. Without a significant heat differential in the interior (like when you are snug in your sleeping bag to avoid losing heat), even the uncoated inner tent body of a double-wall does not act much more porous than a w/b laminate. A design emphasis on ventilation to remove moisture before it can condense is critical in any tent. The canopy must dependably keep you dry from the outside.

The laminate is constructed of three components, a highcount ripstop nylon, the “breathable” hydrophilic transfer-coating film, and Nexus®. Since the bulk of interior moisture is most effectively removed through ventilation rather than transported through a material, the interior surface of the single-wall canopy, Nexus® (a 1 oz/yd non-woven apetured polyester textile), is a fuzzy polyester that readily absorbs and distributes moisture across its surface. It works together with the other canopy materials to not only help the material itself

dry quickly by transporting any condensation to the exterior, but more importantly allow the condensation to diffuse, re-evaporate and exhaust from the tent interior through active ventilation.

Since we prioritize ventilation over the dependence on a canopy material to minimize potential condensation, ByroTex can readily emphasize consistent reliable weatherproofness with a minimum waterproof rating of

“The advantages of single-wall designs over the traditional canopy with a separate rainfly layer are considerable. So how can one layer give you all this protection? It is achieved through a high-tech laminate called ByroTex. This fabric is a hydrophilic polymer, 15 microns thick, laminated between ripstop and a polyester Nexus. The keyword is hydrophilic, which means that it transmits water through it by virtue of its own chemistry, without pores. As a result, its performance is not limited by clogged pores from dirt, and is less dependent on a temperature differential to work.”

Couloir, October 1994

65 pounds per square inch. The breathability of ByroTex is achieved through hydrophilic chemistry: water-attracting hydrogen groups within the polymer chain of the coating molecularly transport the moisture condensed on the interior surface to the exterior side. The center layer of the canopy laminate, the hydrophilic film (monolithic hydrophilic, copolymer urethane-base with fire-retardant additive) physically transmits moisture condensation, not suspended water vapor.

When condensation does occur on the interior of ByroTex the moisture can be wicked through like a sponge; on a microporous it must be re-vaporized and forced through the material. A significant temperature differential will not proportionately increase ByroTex performance, as is required in a microporous textile.

The outer layer of the canopy is ripstop nylon (1.6 oz/yd 40 denier high-count, high-tenacity Type 66 nylon ripstop treated with Durable-Water-Repellent silicone (DWR), Ultra-Violet prevention and Fire Retardant additives, mill pre-washed to prevent color bleeding). After evaluating the performance characteristics of polyester versus nylon substrates (the base material or shell), we have found nylon to be stronger, more durable, consistent in color retention, and significantly more abrasion resistant over time. Though current polyesters do not stretch as much when wet, it is also more “brittle” and not as elastic, forgiving or quiet as nylon. Canopy stretch is minimized anyway by the high-count ripstop in conjunction with the directionally laid Nexus. Although more expensive, with the right color (the most effective way to combat UV degradation), a high-count, high-tensile nylon still offers the best balance of characteristics for tents.

ByroTex is strong, waterproof, windproof and stretch-resistant. Our laminate has a proven track record for performance and durability, and is cared for like most urethane-based coatings. Using the method of Discontinuous Dot-Matrix Transfer-Coating to adhere the hydrophilic film to the nylon ripstop, much higher tear strengths are maintained (rather than continuous direct-coat that binds the fibers of any substrate).

Color: Chamois Gold. Chosen for its balance of being visible in a snow/rock environment when finding your tent is desir-

able, yet reasonably blends unobtrusively in a forest when you care not to stand out. It reflects more sunlight than it absorbs in a sunny environment to keep the tent cooler and minimize UV degradation, yet absorbs enough to dry quickly. On unpleasant days, Chamois with the gold Nexus creates a pleasant, bright atmosphere inside the tent.

Double-Wall Materials

The inner tent body walls are constructed of ripstop nylon (1.6 oz/yd single-ply 40 denier x 240T nylon ripstop treated with DWR, UV and FR additives; mill pre-washed to prevent color bleeding).

The fine weave of the light, durable nylon keeps dust and spindrift out the tent body.

For greater strength and durability, the rainfly is constructed of ripstop nylon (1.9 oz/yd single-ply 70 denier x 190T nylon ripstop treated with DWR, UV and FR additives). The rainfly is coated with 1500mm polyurethane. Rainflies are factory seam-taped.

Color: Chamois Gold, as for the single-walls.

Tent Specifications

	4 SEASON SINGLE-WALL MODELS					
	Trikeya	Tambu	Kaja	Emeishan	Kusala	Atman
Capacity	3	2	2	2	2	1
Season Rating	4	4	4	4	4	4
Floor Area (ft ² /m ²)	42.0/3.8	35.0/3.2	29.5/2.7	29.0/2.6	30.5/2.8	21.5/1.9
Vestibule Area (ft ²)	12.5 + 4.0	12.0 + 3.0	9.0	15.0	7.0	7.0
Max. Interior Height (in/cm)	48/122	42/107	44/112	44/112	40/102	40/102
Max. Interior Length (in/cm)	89/226	86/219	88/224	88/224	110/280	100/254
Max. Interior Width (in/cm)	72/183	64/163	54/137	54/137	54/137	54/137
No. of Easton Pole Sets	5	5	3	4	3	2
Easton Pole Diameters	.380/.340	.380/.340	.340	.433/.355	.355/.340	.355/.340
Doors	2	2	1	2	1	1
Low/High Storm Vents ¹	3/4	3/4	1/3	1/2	1/3	1/2
Anchor Stakes Req'd	3	3	3	3	3	3
Total Anchor Loops	9	9	7	9	7	7
Storm Tie-Outs	12	12	6	8	4	2
Tent Body Wt.	6 lb 2 oz	5 lb 2 oz	4 lb 0 oz	4 lb 8 oz	3 lb 15 oz	3 lb 3 oz
Rainfly Wt.	—	—	—	—	—	—
Pole Sets Wt.	2 lb 6 oz	2 lb 2 oz	1 lb 6 oz	1 lb 8 oz	14 oz	10 oz
AVG. MINIMUM WEIGHT	8 lb 8 oz (3.82 kg)	7 lb 4 oz (3.30 kg)	5 lb 6 oz (2.42 kg)	6 lb 0 oz (2.70 kg)	4 lb 13 oz (2.16 kg)	3 lb 13 oz (1.72 kg)
Tent & Pole/Stake Sacks Wt.	3.5 oz	3.5 oz	3.0 oz	3.0 oz	3.0 oz	3.0 oz
Easton & Peg Stakes Wt.	5.0 oz	5.0 oz	5.0 oz	5.0 oz	4.0 oz	4.0 oz
Other Accessories Wt. ²	6.5 oz	6.5 oz	6.5 oz	6.5 oz	6.5 oz	6.5 oz
AVG. PACKAGED WEIGHT	9 lb 8 oz (4.28 kg)	8 lb 1 oz (3.63 kg)	6 lb 5 oz (2.84 kg)	6 lb 15 oz (3.12 kg)	5 lb 11 oz (2.56 kg)	4 lb 11 oz (2.11 kg)
Packed Size: Tent (in)	14 x 12 x 5	12 x 8 x 5	11 x 8 x 4	11 x 8 x 5	11 x 8 x 4	9 x 7 x 4
(cm)	36 x 30 x 13	30 x 20 x 13	28 x 20 x 10	28 x 20 x 13	28 x 20 x 10	23 x 18 x 10
Packed Size: Poles (in)	21 x 3 x 3	21 x 3 x 2	19 x 2 x 2	19 x 3 x 2	18 x 2 x 2	18 x 2 x 1
(cm)	53 x 8 x 8	53 x 8 x 5	48 x 5 x 5	48 x 8 x 5	46 x 5 x 5	46 x 5 x 3
Optional Ground Cover Wt.	10.25 oz	8.75 oz	8.25 oz	7.25 oz	8.25 oz	6.25 oz

¹ Storm Vent figures on some models include vents in vestibules promoting ventilation achieved through the inner tent doors protected by that vestibule; the door itself is not counted as another vent. On models where the door is the vent, it is not counted as both a door and a vent.

² Other Accessories include Tent Manual, Use & Care Manual, zipper pull tapes, guy cords, pole repair tube, fabric repair swatches, SeamGrip™ tubes, and Monoject™ syringe(s).

4 SEASON DOUBLE-WALL MODELS			3 SEASON MODELS		
Sahti	Pattar	Jana	Kamet (SW)	Jalan (SW)	Tasir (DW)
3	2	2	2	1+	2
4	4	4	3	3	3
42.8/3.9	37.1/3.4	35.0/3.2	28.5/2.6	22.5/2.1	36.5/3.3
17.2 + 5.0	14.2 + 4.0	12.5 + 3.5	Awning	Awning	NA
48/122	41/104	41/104	40/102	40/102	44/112
90/229	90/229	91/231	100/254	100/254	134/340
73/185	63/160	61/155	54/137	54/137	54/137
5	5	3	2	1	2
.380/.355	.355	.355	.355	.355	.355
2	2	2	2	2	2
0/3	0/3	0/3	3/2	3/1	3/4
3	3	3	3	3	3
9	11	11	9	7	6
12	12	8	4	2	10
4 lb 6 oz	4 lb 0 oz	3 lb 8 oz	3 lb 12 oz	2 lb 15 oz	3 lb 0 oz
2 lb 5 oz	1 lb 13 oz	1 lb 8 oz	—	—	1 lb 6 oz
2 lb 9 oz	2 lb 7 oz	1 lb 14 oz	11 oz	6 oz	12 oz
9 lb 4 oz (4.16 kg)	8 lb 4 oz (3.71 kg)	6 lb 14 oz (3.09 kg)	4 lb 7 oz (1.99 kg)	3 lb 6 oz (1.52 kg)	5 lb 2 oz (2.31 kg)
3.5 oz	3.5 oz	3.5 oz	3.0 oz	3.0 oz	3.5 oz
5.0 oz	5.0 oz	5.0 oz	4.0 oz	4.0 oz	5.0 oz
5.0 oz	5.0 oz	5.0 oz	6.5 oz	6.5 oz	5.0 oz
10 lb 2 oz (4.56 kg)	9 lb 2 oz (4.11 kg)	7 lb 12 oz (3.49 kg)	5 lb 9 oz (2.50 kg)	4 lb 10 oz (2.08 kg)	6 lb 0 oz (2.70 kg)
14 x 12 x 5	12 x 10 x 5	12 x 9 x 5	10 x 8 x 3	9 x 7 x 3	12 x 8 x 4
36 x 30 x 13	30 x 25 x 13	30 x 23 x 13	25 x 20 x 8	23 x 18 x 8	30 x 20 x 10
21 x 3 x 3	21 x 3 x 3	21 x 3 x 2	18 x 2 x 2	18 x 1 x 1	21 x 2 x 2
53 x 8 x 8	53 x 8 x 8	53 x 8 x 5	46 x 5 x 5	46 x 3 x 3	53 x 5 x 5
8.75 oz	8.75 oz	8.75 oz	8.75 oz	7.5 oz	8.75 oz

The Garuda Guarantee

Garuda takes pride in producing each design to the highest standards of craftsmanship: our goal is high quality, not high volume. We stand behind every product we sell, extending a full warranty to the original owner against defects in workmanship and materials. If your Garuda tent has received proper care, but fails due to defects in manufacturing – we'll repair or replace it at our discretion, at no charge to you.

Garuda and ByroTex are trademarks of Garuda Mountaineering. Nexus is a registered trademark of Precision Fabrics Group, Inc. Easton is a registered trademark of Easton Aluminum Company. SeamGrip is a registered trademark of McNett Corporation. YKK is a trademark of YKK, Inc. Delrin is a registered trademark of E.I. DuPont. Posigrip is a trademark of Duraflex. Monoject is a registered trademark of Sherwood Medical.

Art Direction/Design
Eric Nord Creative Services
Product Photography
Paul Dieter
Front Cover Photo
Mark Udall

Ⓢ This catalog has been printed on recycled paper.

Before selecting any manufacturer's tent based on criteria for its printed specs, we enthusiastically suggest you equally outfit each model as you would use it in the field and compare the actual tents yourself with a scale and tape measurer. Published numbers are not always accurate, nor uniformly representative of how you may interpret their actual impact upon you.