

RAB S10 SB - INTRODUCTION

Opening Quote

Isaac Newton - 'If I have seen further than others, it is by standing upon the shoulders of giants.'

This quote by Sir Isaac Newton relates to the S10 Sleeping Bag overhaul project. Newton acknowledges the people before him. We at Equip Outdoor Technologies also acknowledge the people who have stood before us.

This quote can be translated by acknowledging Rab Carrington's work in sleeping bag design over the past 28 years. It can be translated to acknowledge all those who have worked for Equip, and those who still currently do. It can be translated to acknowledge all those who have contributed to the science of sleeping bag design including aspects from fabric selection, down specifications to laboratory testing. And it acknowledges all those who have ever slept in a sleeping bag.

Therefore, the Rab SS10 project has resulted in a sleeping bag range greater than any other due to standing on the shoulder of the people before us.

Introduction

All products have a beginning and an end. A sleeping bag design has lifetime and it is inevitable that one day it will be succeeded by its predecessor. This is not a bad thing, it is in fact a good thing as it inspires new ideas and innovation that is drawn from that existing pool of knowledge.

The Rab SS10 sleeping bag project was born from a slightly tired existing sleeping bag range and an inspiring funding opportunity to work closely with Leeds University. The combination of Design R&D, lab research, high end fabric suppliers and European down suppliers has allowed our Equip team to identify the perfect all round sleeping bag range.

Key Design Ingredients

Our Equip team must enforce that there is no 'magic' in sleeping bag design, no matter what anyone tells you! There is only the refinement of science and understanding. The Rab SS10 sleeping bag range has identified the golden ratio's that make up a sleeping bag. To disclose these exact figures would be to give away design secrets and Equip's leading edge. However we have no problem with disclosing the areas of ratio's that have been identified as key elements to sleeping bag design. They are:

- Proportionally assigned baffle height
- Proportionally assigned differential cut
- Proportionally assigned baffle offset
- Down insulation fill weight
- Down insulation chamber fill weight
- Down insulation fill power ratings
- Down insulation species and cluster ratios

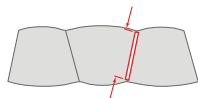
Other aspects that are vital to good sleeping bag design are:

- Shape fit for demographic / purpose
- Construction
- Fabric selection
- Feature set

Outcome

The SS10 Rab sleeping bag range is arguably the most advanced and calculated sleeping bag range in the world. Resulting in sleeping bag products that are superior to all others within the global market place.

RAB S10 SB - BAFFLE HEIGHT



Baffle height is a major key element to superior performance in sleeping bag design.

Baffle height is defined by the measured width of the baffle material excluding the seam allowance.

Why have different baffle heights?? Baffle height allows down to loft outwards and inwards without restricting natural loft. The different baffle heights are proportionally allocated to sleeping bags with different loft volumes. For example, a smaller fill weight sleeping bag of say 500 grams will require a smaller baffle height than sleeping bag with a fill weight 1000 grams. This is because 500 grams of down will loft less and fill less volume than 1000 grams of down of the same down specification.

Baffle height is proportionally assigned not only to fill weight, but also to fill power and cluster ratios. For example 500 grams fill weight at 600 fill power will have less baffle height than 500 grams at 800 fill power. This is because 500 grams of 800 fill power will fill more volume than 500 grams of 600 fill power. This is also true for cluster ratios, for example 90/10 will have greater loft volume over 80/10 of the same fill power and species.

Baffle height can only be applied to products with baffles. Baffle height can not be applied to sewn through products as the inner liner and outer shell are sewn together.

Baffle Height allows the down insulation to loft naturally to its full potential resulting in refined science and greater performance.

RAB S10 SB - DIFFERENTIAL CUT



Differential cut is a major key element to superior performance in sleeping bag design.

Differential cut is defined by the measured difference in circumference between the inner liner pattern and the outer shell pattern.

Why use differential cut?? Differential cut is used in the same way clothing is graded to sizes small, medium and large. A small item of clothing will fit over a small framed person and a large item of clothing will fit over a large framed person.

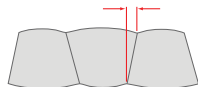
Differential cut is not static over different fill weight bags, instead it is proportionally assigned to suite the fill weight. For example, a smaller fill weight sleeping bag of say 500 grams will have a smaller differential cut than a fill weight sleeping bag of 1000 grams. This is because 500 grams of down will loft less and fill less volume than 1000 grams of down of the same down specification.

The proportion of differential cut is not only assigned to the amount of fill, but also to the specification of down quality. For example 500 grams of 600 fill power will have less assigned differential cut to 500 grams of 800 fill power, this is because the 800 fill power will have greater loft volume. This is also true for cluster ratios, for example 90/10 will have greater loft volume over 80/10 of the same fill power and species. Essentially the differential cut allocation is assigned to the resulting volume that is created from the lofting down insulation.

Differential cut can only applied to products with internal baffle walls , sewn through products are unable to have differential cut as the inner liner and outer shell are sewn together.

Differential cut allows the down insulation to loft naturally to is full potential resulting in refined science and greater performance.

RAB S10 SB - BAFFLE OFFSET



Baffle Offset is a major key element to superior performance in sleeping bag design.

Baffle offset is defined by the measured horizontal difference between the inner liner attachment point and the outer shell attachment point.

Why apply baffle offset?? Baffle offset is the key to creating a trapezoidal chamber shape. The angle of the offset is crucial. It is essential to be not be too steep or too shallow as the baffle angle plays a vital role in creating baffle wall friction which minimises down migration and cold spots. For example an offset angle that is too steep will result in down slipping on the surface of the baffle mesh. An offset angle that is too shallow will add weight due to increased baffle material, but more importantly it will apply un-relaxed forces to the bag making it rest in a crinkle cut state which will ultimately decrease performance.

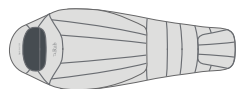
Baffle off set is not static over different fill weight bags, instead it is proportionally assigned to suite the baffle height. For example a baffle height of 10cm can easily have a baffle offset of 2cm. Where as it is physically impossible for a baffle height of 1cm to have an offset of 2cm, as the baffle height is only 1cm.

The proportion of differential cut is not only assigned to the amount of fill, but also to the specification of down quality. For example 500 grams of 600 fill power will have less assigned differential cut to 500 grams of 800 fill power, this is because the 800 fill power will have greater loft volume. This is also true for cluster ratios, for example 90/10 will have greater loft volume over 80/10 of the same fill power and species. Essentially the differential cut allocation is assigned to the resulting volume that is created from the lofting down insulation.

Baffle offset can only be applied to products with internal baffle walls, sewn through products are unable to have differential cut as the inner liner and outer shell are sewn together.

Baffle offset assists in refining sleeping bag science and increasing greater performance.

RAB S10 SB - FILL WEIGHT



Fill Weight = 800gms

The fill weight is a major key element to superior performance in sleeping bag design.

Fill weight is defined by the total amount of down insulation in the sleeping bag which is measured in grams.

Why have different fill weights?? Different fill weights are required due to the variety of climate conditions that sleeping bags will be used in. For example an expedition sleeping bag may require to be functionally adequate at -50 degrees Celsius. Where as a sleeping bag being used in warmer temperate climates may only require to be functionally adequate at +15 degrees Celsius. Therefore an Expedition sleeping bag with 1200 grams fill weight will have a greater R value (warmth rating) over a sleeping bag with 100 grams of fill weight.

Even thou fill weights maybe the same in different styled sleeping bags, this does not mean that they will have the same performance. This is due to factors such as fill power / cluster ratios and actual designs being different.

Fill weight is an exact measurement in grams. To find the weight of the sleeping bag shell, the fill weight can be subtracted from the total weight of the sleeping bag.

The total fill weight is distributed through out the sleeping bags chamber baffles. The down is strategically placed to maximise functionality and performance.

The XL sleeping bags will have 50 grams more down than the equal standard and women's sleeping bags.

Please note that total fill weight may vary if filled in humid environments.

RAB S10 SB - CHAMBER FILL WEIGHT



The chamber fill weight is a major key element to superior performance in sleeping bag design.

Chamber fill weight is defined by the amount of down insulation assigned to a specific baffle chamber which is measured in grams.

Why specifically assign chamber fill weights?? Chamber fill weights are specifically assigned as the amount of assigned down is specific to the size, shape, volume and location of the chamber baffle. Primarily the chamber fill weight is driven by the internal volume that can be achieved by the chamber. The second driving factor is the location, for example the upper chest area will be allocated more down than the lower mid back area, this is to help maximise performance through ergonomics and function.

Each chamber is individually filled accurately during the filling process. Down migration is controlled by the baffle which runs around the perimeter of the chamber.

Chamber fill weight is an exact measurement in grams. Continued quality control can be applied due to knowing these chamber fill weights.

Please note that chamber fill weight may vary if filled in humid environments.

RAB S10 SB - FILL POWER

800 Fill Power

Loft Value

Fill power ratings are a major key element to superior performance in sleeping bag design.

Fill power is defined by the amount of loft that is gained under loft test conditions. The higher the fill power number the greater the loft and the greater the performance of the down insulation.

Goose down fill power ratings within the outdoor industry usually range between 650 and 850 fill power. Duck down fill power ratings within the outdoor industry generally range between 500 and 700 fill power.

There are many different standards for testing loft values, however the 2 main standards are the US standard and the EN standard. The US IDFB method preconditions the down using steam. Whereas the EN method preconditions the down using the tumble dry method. Equip now tests the sleeping bag down using the US standard as this method is primarily used within the outdoor industry.

Over time down can lose its Fill Power rating due to many different factors. Down fill power ratings can generally be regained by having your sleeping bag professionally cleaned.

Leaving down crushed in stuff sacks can damage the down plumes. To prevent damage and maintain down longevity and loft it is best to store the sleeping bags in the storage sack provided.

RAB S10 SB - SPECIES AND CLUSTER RATIOS

90/10 White Goose



The species and cluster ratios are a major key element to superior performance in sleeping bag design.

Species is defined by the type of fowl that the organic down / feather insulation originates from.

Water fowl generally have better quality down with higher R values than land fowl. The outdoor industry tends to generally use Goose and Duck down. Goose down generally has higher fill power lofting performance than duck down (excluding the Eider duck). Goose down generally is available with higher down cluster ratios than duck down which offers greater fill power performance. There is no performance difference between white and grey coloured down of the same specification, it is only a visual difference.

Cluster ratios refer to the percentage of down plume content and percentage of feather content. The greater the down percentage the better the quality and fill power of down.

100% down does not exist as down is always contaminated with a portion of feather content. 95/5 cluster ratios are attainable but are not a reliable consistent source. 90/10 cluster ratios are available on a consistent basis from year to year.

Down is an organic product and will vary from season to season due to factors such as weather, bird condition and so forth.

Equip sources un-crushed sterile European down for use in Rab sleeping bags. The down sourced is a by product from the meat industry.

European down is generally better quality than Chinese down due to the birds being older and having better developed down plumage when the down is harvested.

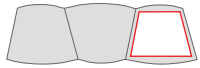
Equip does not support live plucking of mature birds to yield loft values of 900 fill power.

Equip supports free range bird growing environments.

Equip sources down with cluster ratios measured in US standards as these standards are true to value. Therefore US rated 90/10 is in fact 90% down and 10% feather. Whereas EN 100 is in fact only 90.48 % down and EN 90/10 is in fact only 80.95 % down.

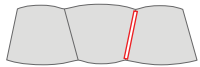
All down is IDFB certified.

RAB S10 SB - TRAPEZOIDAL CHAMBER / BAFFLES / CHAMBER HEIGHT



The trapezoidal chamber shape is a resulting product of baffle offset and baffle height. As discussed is that the baffle height is proportionally assigned to be in harmony with the amount of loft created by the down insulation. Also discussed is that the baffle offset is proportionally assigned to create a set baffle angle to maximise baffle wall friction in the prevention of down migration.

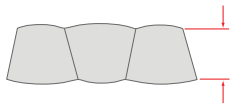
The resulting shape from baffle offset and baffle height is the trapezoidal chamber shape.



The baffle is an internal wall that is sewn / attached into place to prevent down from simply migrating around between the outer shell fabric and the inner liner fabric. The baffle creates distance between the shell and liner fabrics which intern allows down insulation to loft naturally.

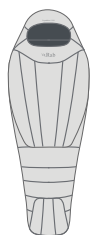
The baffle is made of a light weight mesh which allows circulate. Circulating air allows the bag to breathe which helps prevent condensation build up inside the bag, and can assist with the process for stuffing the bag into the stuff sack. Down plumes can get entangled in the mesh, resulting in increased wall friction top help minimise migration.

Sewn through products do not have baffle walls.



Chamber height is a result from many of the discussed factors. Generally the greater the chamber height, then the greater the warmth (R value).

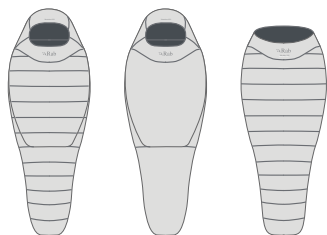
RAB S10 SB - SHAPE & CUT



Mummy Shape -

The mummy shape is suited fill weights between 800 and 1200 grams. This shape is designed to be used in environments such as polar, high altitude and cold mountain use. Longitude torso and foot chambers ensure that the down does not migrate from apex points (off the body) whilst sleeping. The longitude chambers are strategically located to ensure vital organs (torso) and extremities (feet) maintain maximum warmth efficiency.

The outer shell patterns consists of extremely large applied proportional differential cuts to allow for high lofting capabilities to ensure warmth is maintained in extreme cold weather environments. The inner lining fabric contains calculated 'slack' in the pattern to allow for internal lofting to fill dead air space within the sleeping bag. The Expedition sleeping bags have an internal cut that has been design to fit over and work in harmony with lofting expedition clothing.



Mummy Taper Shape -

The taper mummy shape is suited for fill weights between 100 and 600 grams. The shape is streamlined for use in lighter, faster mountain use applications. The narrow more tapered cut increases efficiency to weight rating. A taught internal liner pattern will not fill dead air spaces created by limb regions of the body. Therefore, the inner lining fabric contains calculated 'slack' within the pattern allow for internal lofting to fill dead air space within the sleeping bag.

The outer shell patterns contain zero to medium amounts of proportional differential cut. The actual amount of differential that is applied is calculated to work in harmony with the fill weight, chamber loft height and temperate rating that is required for that specific sleeping bag. Sleeping bags that are too streamlined and tapered generally 'bottom out' on the shoulder, hip, knee and foot regions which creates cold spots and lowers thermal performance dramatically.



Semi Rec Mummy Shape -

The semi rec wider mummy shape is suited for fill weights between 500 and 900 grams. The shape is of a generous internal cut to allow for more casual relaxed sleeping positions without sacrificing performance in general mountain outdoor use activities. The inner lining fabric contains calculated 'slack' within the pattern allow for internal lofting to fill dead air space within the sleeping bag.

The outer shell patterns contain moderate amounts of proportional differential cut to harmonise with fill weights, fill powers and targeted use.



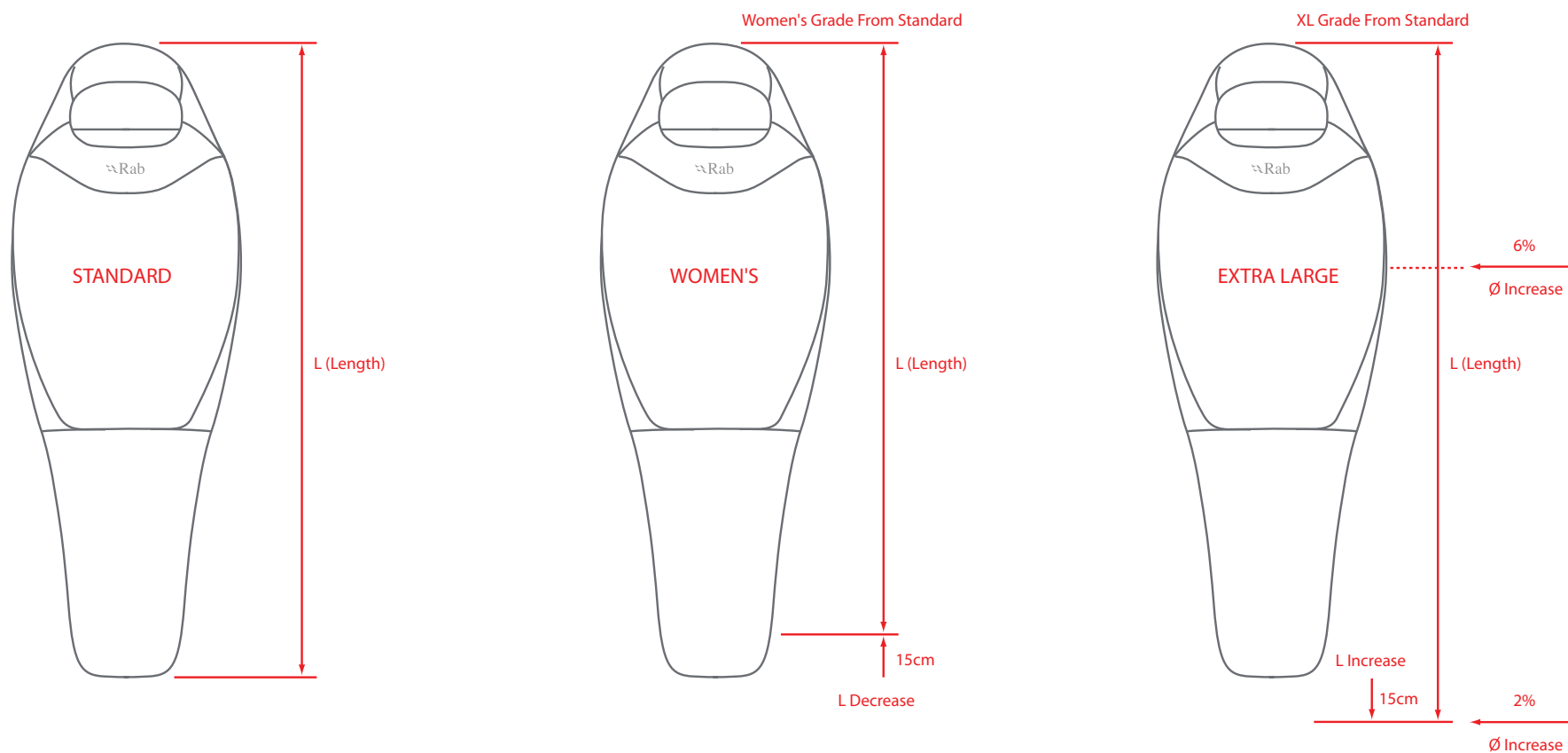
Rectangular Shape -

The rectangular shape is suited for fill weights between 150 and 500 grams. The shape is rectangular based which provides a spacious internal cut for casual relaxed sleeping positions in general outdoors environments. The rectangular shape works well when expanded out into the quilt mode. The inner lining fabric contains calculated 'slack' within the pattern allow for internal lofting to fill dead air space within the sleeping bag.

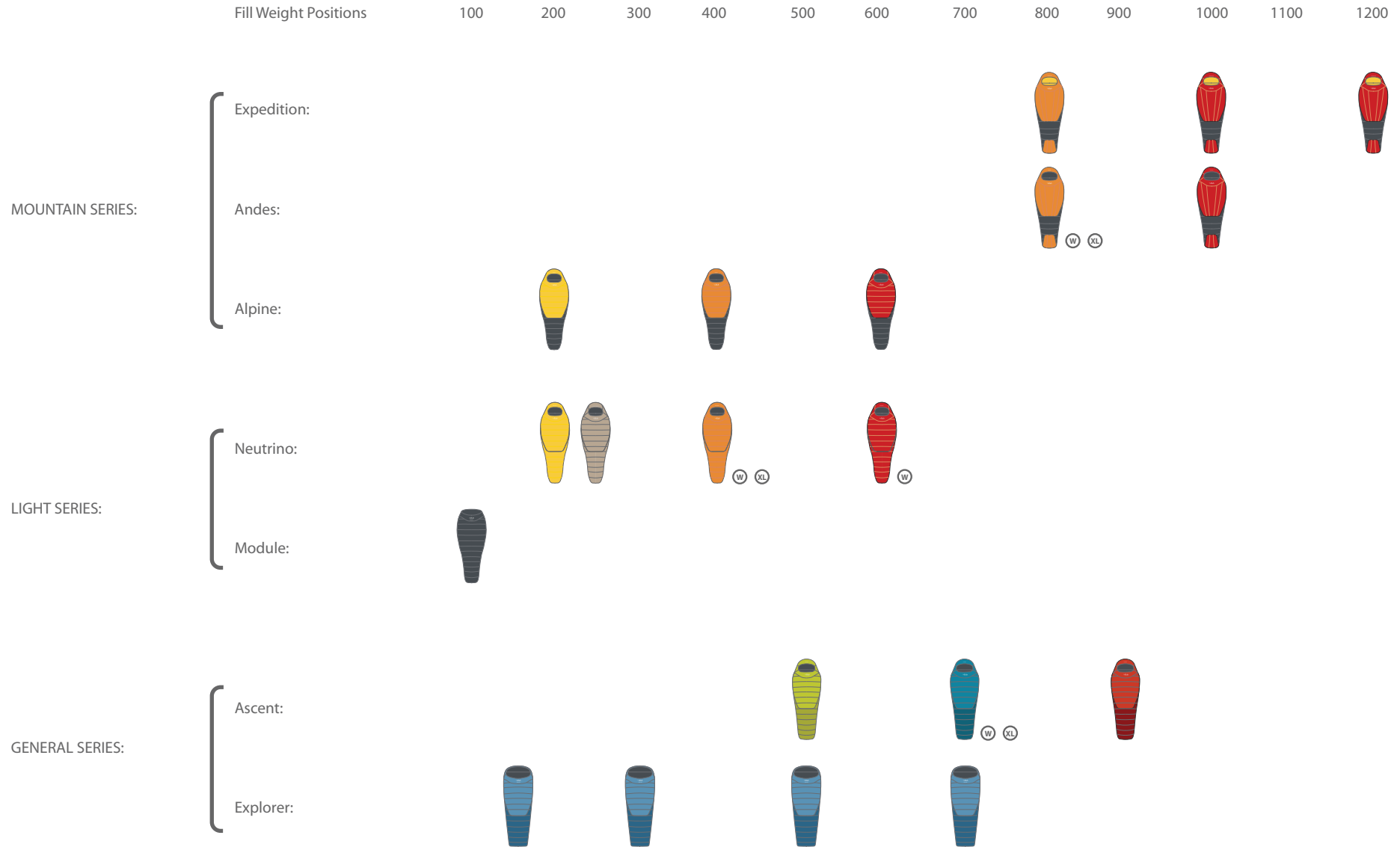
The outer shell patterns contains zero to small amounts of proportional differential cut.

RAB S10 SB - SIZE GRADING METHOD

The 'Total Fill Weights' will be the same for 'Standard' and 'Women's' grades. The 'Women's' grade will therefore have greater density of down per volume area than the standard grade. This greater density will be placed in strategic torso and limb regions. The 'XL' bag will have more down to maintain consistent fill ratio with the 'Standard' grade.



RAB S10 SB - PRODUCT RANGE PLAN



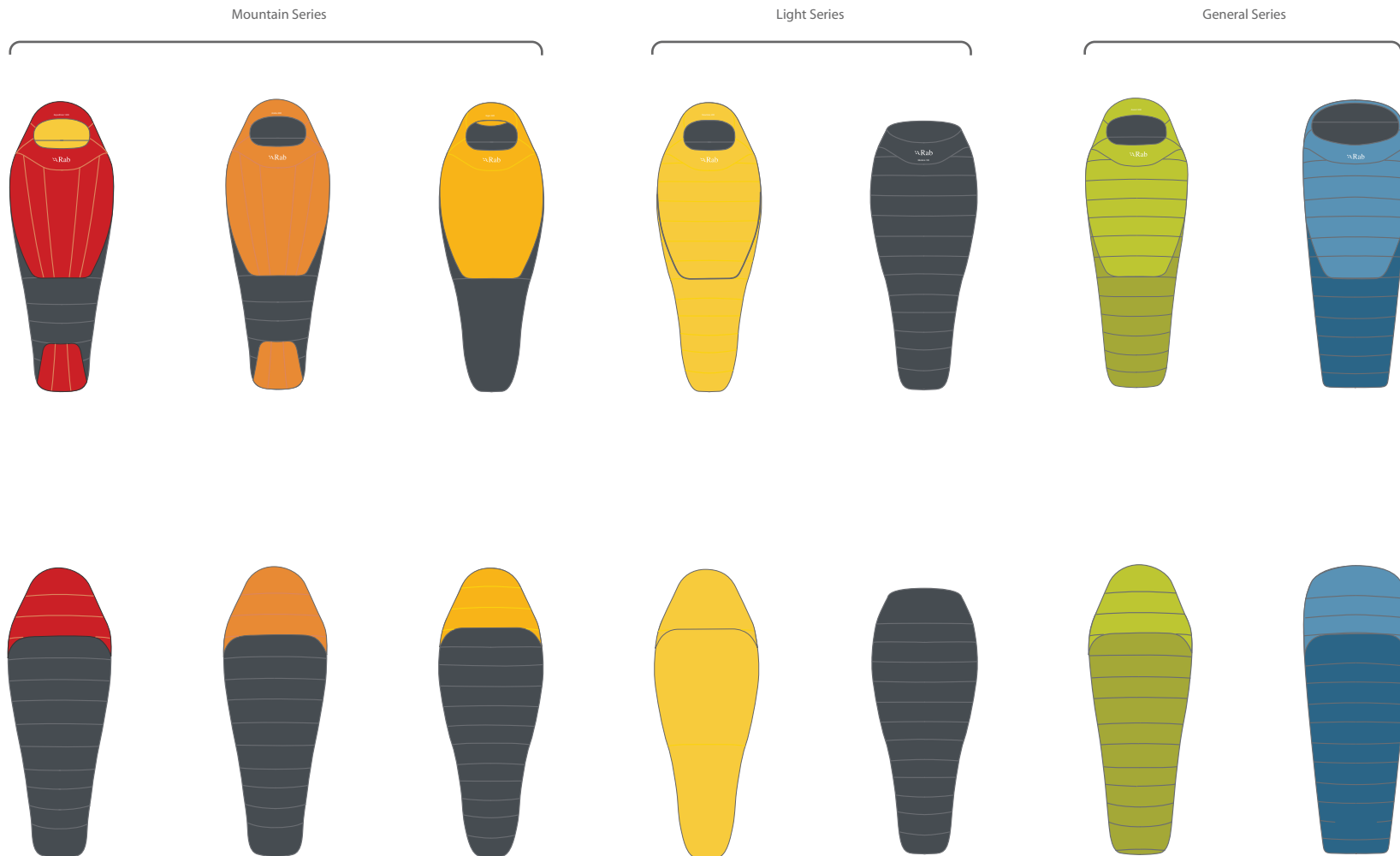
RAB S10 SB - COLOUR SYSTEM

Representative Sleeping Bags Showing The Applied Colour Spectrum



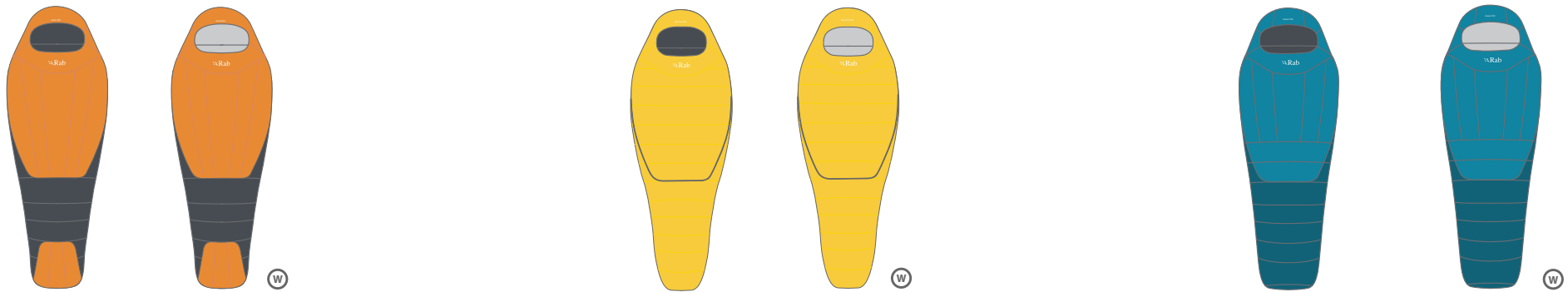
RAB S10 SB - COLOUR BLOCKING

Representative Sleeping Bags Showing The Applied Colour Blocking



RAB S10 SB - IDENTIFYING WOMEN SPECIFIC PRODUCT

The Women's Specific Sleeping Bags Are Identified By The Lighter 'Pebble' Lining Colour



Company Name

Product Name

Product Image

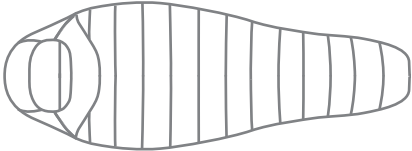
Temperature Standard Comparison




Main Features

Care label



NEUTRINO 400



TEMP KEY:  COMFORT
 LIMIT OF COMFORT
 EXTREME

TEMP RATING: EUROPEAN STANDARD
EN13537



DOWN SPECS: EUROPEAN GOOSE
800 FILL POWER
90% DOWN
10% FEATHER
400 g / 14.1 oz FILL WEIGHT

TOTAL WEIGHT: 920 g / 32.5 oz

DIMENSIONS: OVER ALL OUTER LENGTH
220 cm / 86.5 in
INTERNAL SHOULDER WIDTH
70 cm / 27.5 in
INTERNAL HIP WIDTH
52 cm / 20.5 in
INTERNAL FOOT WIDTH
41 cm / 16.0 in

SHELL FABRIC: PERTEX QUANTUM
15 DENIER NYLON

LINING FABRIC: PERTEX QUANTUM
15 DENIER NYLON



FOR CARE INSTRUCTIONS PLEASE VISIT

www.rab.uk.com

DESIGNED AND FILLED IN DERBYSHIRE,
UNITED KINGDOM

PROUDLY MADE IN CHINA

RAB S10 SB - PRODUCT RANGE MATRIX

Product Name	Series Category	Fill Weight	Fill Power	Cluster Ratio	Species	Pertex Shell	Shell Denier	Pertex Liner	Liner Denier	Differential Cut	Trapezoid Chamber	Baffle Offset	Zip Length	Collar	Draft Tube	Stash Pocket
Expedition 1200	Mountain	1200g	850	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Expedition 1000	Mountain	1000g	850	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Expedition 800	Mountain	800g	850	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Andes 1000	Mountain	1000g	800	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Andes 800	Mountain	800g	800	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Andes 800 W	Mountain	800g	800	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Andes 800 XL	Mountain	850g	800	90/10	Grey Goose	Endurance	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Alpine 600	Mountain	600g	800	90/10	Grey Goose	Endurance	30d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Alpine 400	Mountain	400g	800	90/10	Grey Goose	Endurance	30d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Alpine 200	Mountain	200g	800	90/10	Grey Goose	Endurance	30d	Quantum	15d	✓	✓	✓	1/2	✓	✓	✓
Neutrino 600	Light	600g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Neutrino 400	Light	400g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Neutrino 400 W	Light	400g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Neutrino 400 XL	Light	450g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	3/4	✓	✓	✓
Neutrino 200	Light	200g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	1/2	✓	✓	✓
Neutrino SL 200	Light	200g	800	90/10	White Goose	Quantum	15d	Quantum	15d	✓	✓	✓	1/2	X	✓	X
Module 100	Light	100g	800	90/10	Grey Goose	Microlight	30d	Microlight	30d	X	X	X	X	X	X	X
Ascent 900	General	900g	650	80/20	Grey Duck	Microlight	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Ascent 700	General	700g	650	80/20	Grey Duck	Microlight	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Ascent 700 W	General	700g	650	80/20	Grey Duck	Microlight	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Ascent 700 XL	General	750g	650	80/20	Grey Duck	Microlight	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Ascent 500	General	500g	650	80/20	Grey Duck	Microlight	30d	Microlight	30d	✓	✓	✓	3/4	✓	✓	✓
Explorer 700	General	700g	600	80/20	Grey Duck	Classic	40d	Microlight	30d	✓	✓	✓	L shape	✓	✓	✓
Explorer 500	General	500g	600	80/20	Grey Duck	Classic	40d	Microlight	30d	✓	✓	✓	L shape	✓	✓	✓
Explorer 300	General	300g	600	80/20	Grey Duck	Classic	40d	Microlight	30d	✓	✓	✓	L shape	✓	✓	✓
Explorer 150	General	150g	600	80/20	Grey Duck	Classic	40d	Microlight	30d	X	X	X	L shape	X	✓	✓

								EN13537 Temperature Ratings					Internal measurements		
Style	Total weight	Down fill weight	Down quality (US - IDFB STD)	Zip	Shell Fabric	Liner Fabric	Colour	Comfort	Limit	Extreme	O/A length	Height of person	Shoulder width	Hip width	Foot width
Expedition 1200	2000g / 70.5oz	1200g / 42oz	850 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Pimento / Shark	-29°C / -20°F	-40°C / -40°F	-67°C / -87°F	225cm / 88.5in	195cm / 76.8in	80cm / 31.5in	63cm / 25in	45cm / 17.5in
Expedition 1000	1770g / 62.4oz	1000g / 35oz	850 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Pimento / Shark	-20°C / -4°F	-29°C / -20°F	-54°C / -65°F	225cm / 88.5in	195cm / 76.8in	80cm / 31.5in	63cm / 25in	45cm / 17.5in
Expedition 800	1540g / 54.3oz	800g / 28oz	850 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Saffron / Shark	-15°C / 5°F	-23°C / -9°F	-46°C / -51°F	225cm / 88.5in	195cm / 76.8in	80cm / 31.5in	63cm / 25in	45cm / 17.5in
Andes 1000	1730g / 61.0oz	1000g / 35oz	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Pimento / Shark	-17°C / 1°F	-26°C / -15°F	-49°C / -56°F	225cm / 88.5in	195cm / 76.8in	75cm / 29.5in	57cm / 22.5in	41cm / 16.0in
Andes 800	1490g / 52.6oz	800g / 28oz	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Saffron / Shark	-13°C / 9°F	-21°C / -6°F	-43°C / 45°F	225cm / 88.5in	195cm / 76.8in	75cm / 29.5in	57cm / 22.5in	41cm / 16.0in
Andes 800 W	1470g / 51.9oz	800g / 28oz	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Microlight	Saffron / Shark	-13°C / 9°F	-21°C / -6°F	-43°C / 45°F	210cm / 82.7in	180cm / 70.9in	73cm / 28.7in	59cm / 23.2in	41cm / 16.0in
Andes 800 XL	1560g / 55.0oz	850g / 30oz	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Saffron / Shark	-13°C / 9°F	-21°C / -6°F	-43°C / 45°F	240cm / 94.5in	210cm / 82.7in	77cm / 30.3in	59cm / 23.2in	42cm / 16.5in
Alpine 600	1150g / 40.6oz	600g / 21z	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Pimento / Shark	-7°C / 19°F	-14°C / 7°F	-34°C / -29°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Alpine 400	930g / 32.8oz	400g / 14oz	800 FP 90/10 Grey Goose	LT 3/4 Length	Pertex® Endurance	Pertex® Endurance	Saffron / Shark	0°C / 32°F	-6°C / 21°F	-23°C / -9°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Alpine 200	710g / 25.0oz	200g / 7oz	800 FP 90/10 Grey Goose	LT 1/2 Length	Pertex® Endurance	Pertex® Endurance	Sunshine / Shark	5°C / 41°F	0°C / 32°F	-16°C / 3°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Neutrino 600	1050g / 37.0oz	600g / 21oz	800 FP 90/10 White Goose	LT 3/4 Length	Pertex® Quantum	Pertex® Quantum	Pimento	-5°C / 23°F	-12°C / 10°F	-31°C / -24°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Neutrino 600 W	1040g / 36.7oz	600g / 21oz	800 FP 90/10 White Goose	LT 3/4 Length	Pertex® Quantum	Pertex® Quantum	Pimento	-5°C / 23°F	-12°C / 10°F	-31°C / -24°F	205cm / 80.7in	175cm / 68.9in	68cm / 26.8in	54cm / 21.3in	41cm / 16.0in
Neutrino 400	830g / 29.3oz	400g / 14oz	800 FP 90/10 White Goose	LT 3/4 Length	Pertex® Quantum	Pertex® Quantum	Saffron	2°C / 36°F	-4°C / 25°F	-20°C / -4°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Neutrino 400 W	820g / 28.9oz	400g / 14oz	800 FP 90/10 White Goose	LT 3/4 Length	Pertex® Quantum	Pertex® Quantum	Saffron	2°C / 36°F	-4°C / 25°F	-20°C / -4°F	205cm / 80.7in	175cm / 68.9in	68cm / 26.8in	54cm / 21.3in	41cm / 16.0in
Neutrino 400 XL	890g / 31.4oz	450g / 16oz	800 FP 90/10 White Goose	LT 3/4 Length	Pertex® Quantum	Pertex® Quantum	Saffron	2°C / 36°F	-4°C / 25°F	-20°C / -4°F	235cm / 92.7in	205cm / 80.7in	72cm / 28.3in	54cm / 21.3in	42cm / 16.5in
Neutrino 200	610g / 21.5oz	200g / 7oz	800 FP 90/10 White Goose	LT 1/2 Length	Pertex® Quantum	Pertex® Quantum	Sunshine	7°C / 45°F	2°C / 36°F	-13°C / 9°F	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Neutrino SL 200 (Topbag)	580g / 20.5oz	200g / 7oz	800 FP 90/10 White Goose	LT 1/2 Length	Pertex® Quantum	Pertex® Quantum	Shark	N/A	N/A	N/A	220cm / 86.5in	190cm / 74.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Module 100 (Topbag)	470g / 16.6oz	100g / 4oz	800 FP 90/10 Grey Goose	N/A	Pertex® Microlight	Pertex® Microlight	Shark	N/A	N/A	N/A	200cm / 78.7in	195cm / 76.8in	70cm / 27.5in	52cm / 20.5in	41cm / 16.0in
Ascent 900	1560g / 55.0oz	900g / 32oz	650 FP 80/20 Grey Duck	LT 3/4 Length	Pertex® Microlight	Pertex® Microlight	Chilli / Paprika	-11°C / 12°F	-19°C / -2°F	-40°C / -40°F	220cm / 86.5in	190cm / 74.8in	75cm / 29.5in	65cm / 25.5in	50cm / 19.5in
Ascent 700	1330g / 46.9oz	700g / 25oz	650 FP 80/20 Grey Duck	LT 3/4 Length	Pertex® Microlight	Pertex® Microlight	Haze / Thunder	-5°C / 23°F	-12°C / 10°F	-31°C / -24°F	220cm / 86.5in	190cm / 74.8in	75cm / 29.5in	65cm / 25.5in	50cm / 19.5in
Ascent 700 W	1310g / 46.2oz	700g / 25oz	650 FP 80/20 Grey Duck	LT 3/4 Length	Pertex® Microlight	Pertex® Microlight	Haze / Thunder	-5°C / 23°F	-12°C / 10°F	-31°C / -24°F	205cm / 80.7in	175cm / 68.9in	73cm / 28.7in	67cm / 26.4in	50cm / 19.5in
Ascent 700 XL	1400g / 49.4oz	750g / 27oz	650 FP 80/20 Grey Duck	LT 3/4 Length	Pertex® Microlight	Pertex® Microlight	Haze / Thunder	-5°C / 23°F	-12°C / 10°F	-31°C / -24°F	235cm / 92.7in	205cm / 80.7in	77cm / 30.3in	67cm / 26.4in	51cm / 20.1
Ascent 500	1100g / 38.8oz	500g / 18oz	650 FP 80/20 Grey Duck	LT 3/4 Length	Pertex® Microlight	Pertex® Microlight	Lime / Cactus	1°C / 34°F	-5°C / 23°F	-22°C / -8°F	220cm / 86.5in	190cm / 74.8in	75cm / 29.5in	65cm / 25.5in	50cm / 19.5in
Explorer 500	1150g / 40.6oz	500g / 18oz	600 FP 80/20 Grey Duck	LT/RT Full L	Pertex® Classic	Pertex® Microlight	Ice / Azure	3°C / 37°F	-2°C / 28°F	-19°C / -2°F	220cm / 86.5in	195cm / 76.8in	75cm / 29.5in	70cm / 27.5in	55cm / 21.5in
Explorer 300	940g / 33.2oz	300g / 11oz	600 FP 80/20 Grey Duck	LT/RT Full L	Pertex® Classic	Pertex® Microlight	Ice / Azure	7°C / 45°F	2°C / 36°F	-13°C / 9°F	220cm / 86.5in	195cm / 76.8in	75cm / 29.5in	70cm / 27.5in	55cm / 21.5in
Explorer 150	660g / 23.3oz	150g / 5oz	600 FP 80/20 Grey Duck	LT/RT Full L	Pertex® Classic	Pertex® Microlight	Ice / Azure	7°C / 54°F	8°C / 46°C	-5°C / 23°C	220cm / 86.5in	195cm / 76.8in	75cm / 29.5in	70cm / 27.5in	55cm / 21.5in