

# SELF INFLATING MATS

A good night's sleep is the beginning of a great day!

Advanced fabrics, lighter foams and a superior valve means that Sea to Summit Self Inflating Mats are thicker, more comfortable and easier to use than the alternatives.



Sea to Summit Self Inflating Mats have been designed to be thicker, lighter and more comfortable than the alternatives. These new Self Inflating models complement our existing Air Sprung Cell mattresses in both range and price points. Sea to Summit now have a Sleeping Mattress for any situation, no matter whether you are basecamping in comfort, undertaking a minimalist through hike or any adventure in between.

#### Patented Sea to Summit Valve

Rather than just using our successful multi-function valve on our Self Inflating models, we have completely redesigned it to be a Self Inflating specific version. With the same profile, it will still inflate quicker than a traditional screw valve, allows easy fine tuning of air pressure, has a very low profile and is compatible with our pumps if you want to avoid moisture ingress. It also has an additional mode that makes it easier to pack your SI mattress away. It still allows for fast deflation, but then stops the foam trying to re-inflate. Roll up it up quickly to get most of the air out, then take your time to get it as tight and small as possible.

#### Delta Coring

Delta coring is our patent pending design and manufacturing technique which removes 40% of the weight and bulk of the PU foam while retaining an even R-value warmth across the whole surface of the mattress.

This technique is used in our Comfort Light, Comfort Plus and Comfort Deluxe models.

#### Body Mapped Vertical Coring

In our Ultralight model we have removed 20% of the weight and bulk of the PU Foam by using a vertical coring method that is informed by sophisticated body mapping data. We have left more foam in the hip/kidney area, the feet and the shoulders where extra warmth and support is needed. We have removed more foam elsewhere to minimise the weight and packed size.

#### Soft Touch Polyester Fabrics

Next to skin feel is one of the potential advantages that a self inflating mattress has over an 'air mattress'. We have carefully chosen technical fabrics that are lightweight and strong, yet which offer superior handfeel. The heat embossed network pattern on the fabric helps create a slip resistant fabric without changing the feel and comfort of the material.

#### PU Foam

We have completed extensive testing of different PU Foams to make sure that we are using the lightest PU foam that still offers good memory and 'self inflation' performance. We did experiment with lighter foams that do exist, but we weren't happy with the ability of the mattress to recover it's unstored shape. So Sea to Summit has ended up with the lightest foam that still offers excellent self-inflation performance, requiring only a few extra breaths to bring the mattress to your desired pressure.

#### Ether based TPU extrusion lamination

Extrusion Lamination offers superior bond strength and durability when compared to a traditional roll-to-roll lamination. We also use an Ether based chemistry which is completely resistant to hydrolysis, meaning that it is not affected by moisture that may build up during inflation.

#### Stuff Sack and Repair Kit included

Each Self Inflating mat comes with a 30Denier stuff sack for easy packing, and easy to use repair kit. Just in case something does go wrong...



**Ultra-Light Series-** For the person who is carrying their mat more than sleeping on it.

The Ultra-Light model is our lightest and most packable Self Inflating Mattress. It utilises our Body Mapped Vertical Coring technique to remove as much PU foam from the mattress as possible while still ensuring sufficient warmth and support in the critical areas of the hip/feet and shoulder areas. A very slightly tapered design reduces weight without affecting usability by having an overly mummy foot area.

The Ultra-Light uses a 30 Denier polyester for both top and bottom fabrics and is designed to be a 3 Season Mat, with an expected insulative R value of approximately R2.

Code	Description	Barcode	Dimensions	Approx Weight
AMSIULXS	Ultralight SI Extra Small Orange	9327868066957	125cm x 51cm x 2.5cm	450grams
AMSIULS	Ultralight SI Small Orange	9327868066964	170cm x 51cm x 2.5cm	480grams
AMSIULR	Ultralight SI Regular Orange	9327868066971	183cm x 51cm x 2.5cm	510grams
AMSIULL	Ultralight SI Large Orange	9327868066988	198cm x 64cm x 2.5cm	680grams



**Comfort-Light Series - All Season Performance**

The Comfort-Light series aims to hit that sweet spot between a little more weight and a lot more comfort. At 3.8cm, this mattress is going to protect you from all but the most awkwardly sharp and shaped rocks and roots. Delta Coring technology makes sure that the additional thickness doesn't require a sharp increase in weight, and also provides an even insulation across the length of the mattress.

We expect the Comfort-Light series to return an insulative R value of approximately R3, making it the ideal option for all but the chilliest winter camping trips. A plain weave 30 Denier polyester top and bottom fabric offers lightweight performance, and the heat emboss pattern will minimise slippage.

Code	Description	Barcode	Dimensions	Approx Weight
AMSICLS	Comfort Light SI Small Green	9327868066995	170cm x 51cm x 3.8cm	560grams
AMSICLR	Comfort Light SI Regular Green	9327868067008	183cm x 51cm x 3.8cm	600grams
AMSICLL	Comfort Light SI Large Green	9327868067015	198cm x 64cm x 3.8cm	790grams



**Comfort-Plus Series - Seriously comfortable...**

The Comfort-Plus Series of mats combines the high topped comfort of a 6.3cm air mattress with the support and self-inflating performance of a foam core - without the expected weight penalties. This is made possible by our Delta Coring technology, which removes the optimal amount of foam without sacrificing support for durability.

Importantly, the Delta Coring technology also keeps a full length layer of foam between yourself and the ground, rather than interrupting that foam with vertical cores or with large holes from frame like technology. This significantly improves bonding on the top and bottom of the shell fabrics, which will significantly decrease the chance of delamination. It also provides a more even insulation along the length of the mattress, without the cold spots from other manufacturing methods. With an expected R.Value of approx R4, the Comfort Plus SI Mattress also delivers the performance and warmth required for cold weather expeditions.

The Comfort-Deluxe models use a 30 Denier Stretch Knit Polyester top fabric which lets the mattress mold and conform to your body shape and weight for extra comfort. For the base fabric we have used a plain weave 30D polyester.

Code	Description	Barcode	Dimensions	Approx Weight
AMSIICPR	Comfort Plus SI Regular Red	9327868067022	183cm x 51cm x 5cm	790grams
AMSIICPL	Comfort Plus SI Large Red	9327868067039	198cm x 64cm x 5cm	1050grams



### Comfort-Deluxe Series - Recline in luxurious extravagance

The Comfort-Deluxe series has been designed to fulfill the expectations of the fussiest camping customer. With 10cm of plush thickness, and seriously the most comfortable stretch knit fabrics available, this is the mattress for the princess who just can't stop complaining about the pea. While we don't recommend the Comfort Deluxe models for the solo and unsupported adventurer, it is the perfect companion for car camping, canoe trips or extended base camp sojourns where the slight weight penalty isn't an issue.

We've oversized the Comfort Deluxe models to give you a little bit more space to sprawl, and given all models vertical side walls so that they don't taper at the edges. The 30 Denier Stretch Knit polyester top fabric provides the ultimate in next to skin feel and comfort, while a burly 75 Denier base adds extra durability.

Even though minimising weight wasn't a primary design objective for the Comfort Deluxe series, our Delta Coring technology means we've still managed to make a product that is significantly lighter and more packable than similar alternatives.

With an R rating that we expect to be in excess of R5, the Comfort Deluxe model will perform as a fantastic basecamp mattress, regardless of how low the mercury might plummet.

Code	Description	Barcode	Dimensions	Approx Weight
AMSIDRW	Comfort deluxe SI Reg Wide	9327868067046	183cm x 64cm x 10.2cm	1595grams
AMSIDLW	Comfort deluxe SI Large Wide	9327868067053	201cm x 76cm x 10.2cm	2070grams
AMSIDDD	Comfort deluxe SI Double	9327868067060	201cm x 130cm x 10.2cm	3550grams



Large Wide

Regular Wide



Double

### Camp Mat Series - All the Sea to Summit Features at a Price Point

The Camp Mat Series provides the Sea to Summit Self Inflating Mat story at a price point, perfect for the budget conscious camper or trekker.

The Camp Mat offers a 3.8cm thickness foam mattress that utilises our Body Mapped Vertical Coring to remove unnecessary weight and minimise packed size. A 75 Denier Polyester top and bottom fabric offers durability, and an expected R value of approximately R3 means that the Camp Mat offers 3 season warmth and comfort.

Code	Description	Barcode	Dimensions	Approx Weight
AMSIAMR	Camp Mat SI Reg	9327868067077	183cm x 51cm x 3.8cm	705grams
AMSIAML	Camp Mat SI Large	9327868067084	198cm x 64cm x 3.8cm	950grams



Large Regular

Please note: Approx Weights quoted are based on pre-production models. Final production weights could easily vary by greater than 10%. Final weights will be communicated as quickly as possible.