

Cushioning Products by Supracor

featuring Stimulite® honeycomb



Supracor®

Technology You Can Get Comfortable With®

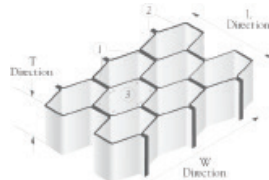
Discover How Our Cells Work For Your Cells®

Sleek and modern, Supracor's revolutionary Stimulite honeycomb is fast replacing conventional cushioning materials — foams and gels — in a wide range of seating applications, from office furniture to aerospace.

A soft, flexible form of aerospace honeycomb that has “*memory*,” Stimulite is lightweight and distributes weight uniformly across its surface. Its cellular matrix consists of alternating thick- and thin-walled cells that flex when compressed to relieve pressure. When sitting on a Stimulite cushion, the compressed cells radiate outwards to surround and support the anatomy, *self-adjusting to each individual* while providing excellent stability. A unique ventilation system made up of tiny perforations in the cell walls allows air to circulate both horizontally and vertically, creating an *ideal microclimate for long-term sitting comfort*.

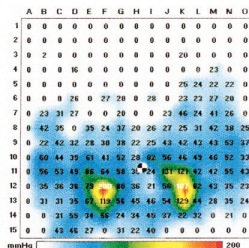
Stimulite has a proven track record in the medical field among wheelchair users and bedridden patients where performance is critical to prevent life-threatening pressure sores. Since 1994 Stimulite cushions and hospital mattresses have provided Total Pressure Management® — pressure relief, reduced shearing and ventilation to control heat and moisture — the key to pressure sore prevention.

And as its name implies, Stimulite provides an additional benefit important to long-term sitting comfort. The “footprint” of the flexible cells *stimulates capillary action*, keeping oxygenated blood in tissues and combating the numbness that can occur when sitting for long durations.

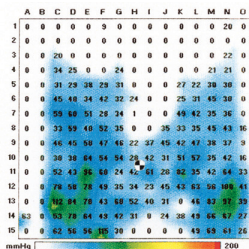


The Distinguishing Geometry of Aerospace Honeycomb

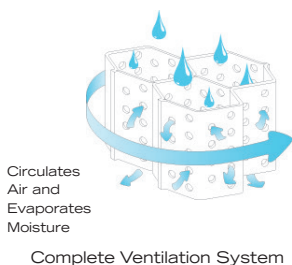
1. Double walls in “L” direction (example: .020” T)
2. Single walls in “W” direction (example: .010” T)
3. Multiple cell radii (eight to each cell)



220 lb. person on foam cushion



220 lb. person on Stimulite cushion



Total Pressure Management

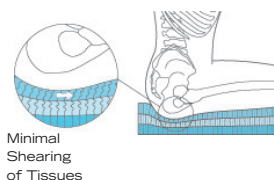
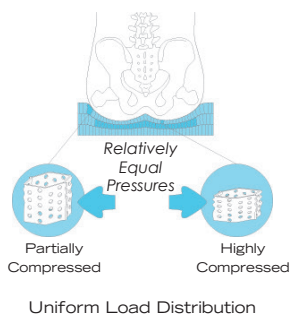


MACERATION RESISTANCE

Skin maceration is softening of the skin as a result of continual exposure to heat and bodily fluids or moisture. Severely softened or macerated skin is less tolerant of pressure and can lead to breakdown. Stimulite honeycomb is perforated, enabling air to circulate and moisture to evaporate which helps maintain skin integrity. The “footprint” of the honeycomb cells and their flexing action stimulates blood flow to enhance circulation.

PRESSURE RELIEF PLUS POSITIONING

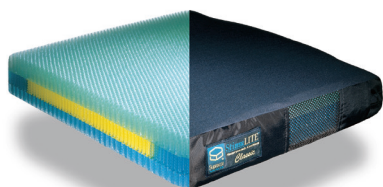
Stimulite honeycomb relieves pressure by distributing it away from hot spots. As a result, bony protuberances “feel” the same pressure as the surrounding anatomy. The honeycomb cells conform to body shape, and distribute weight uniformly. Additionally, Stimulite honeycomb stabilizes any position due to the axial buttressing of the honeycomb cell walls perpendicular to the anatomy.



Diffuses Lateral Forces

SHEAR FORCE REDUCTION

The horizontal stiffness of a material determines both its shear resistance and stability. Too much stiffness increases shear forces, while too little decreases stability. Stimulite honeycomb minimizes shearing without sacrificing stability. The honeycomb cells align themselves axially to the body, flex with movement to reduce shear forces against the skin and then instantaneously resume their original shape.

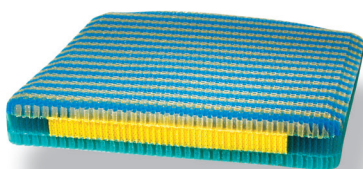


STIMULITE CLASSIC CUSHION

Designed for people who are at high risk for pressure sores, the Stimulite Classic cushion provides excellent pressure relief, unsurpassed comfort and exceptional stability. Three layers of Stimulite honeycomb — each a different firmness — enable bony protuberances to sink freely into the ventilated cushion while supporting the surrounding anatomy. Firmer honeycomb functions as internal side bolsters for greater lateral support. Machine washable.

Cushion Thickness: 2 $\frac{3}{4}$ "

Cushion Weight: 3 lb.



STIMULITE CLASSIC XS CUSHION

Created for people with sensitive skin, the Stimulite Classic XS cushion features a soft top layer of specially engineered Stimulite honeycomb fused to two bottom layers. The compliant honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. The ventilated Stimulite Classic XS cushion is the choice for individuals with sensitive skin. Machine washable.

Cushion Thickness: 2 $\frac{3}{4}$ "

Cushion Weight: 3 lb.

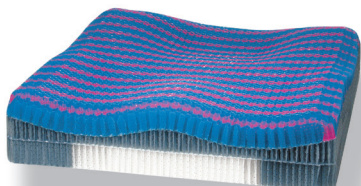


STIMULITE CONTOURED CUSHION

For people who require a higher level of pressure management, the ventilated Stimulite Contoured cushion consists of multiple layers of flexible Stimulite honeycomb specifically engineered with soft and firm areas. A rear dish — featuring a "sweet spot," a softer honeycomb that contains the ischials and coccyx — provides optimal pelvic positioning for improved posture and stability. Adductors and an abductor comfortably contain the legs, without impairing transferring. Machine washable.

Cushion Thickness: 3 $\frac{1}{2}$ "

Cushion Weight: 3 $\frac{1}{4}$ lb.



STIMULITE CONTOURED XS CUSHION

For people with sensitive skin, the ventilated Stimulite Contoured XS cushion features a soft top layer of specially engineered Stimulite honeycomb fused to two bottom layers. The honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. A rear dish provides optimal pelvic positioning for improved posture and stability. Adductors and an abductor comfortably contain the legs, without impairing transferring. Machine washable.

Cushion Thickness: 3 $\frac{1}{2}$ "

Cushion Weight: 3 $\frac{1}{4}$ lb.

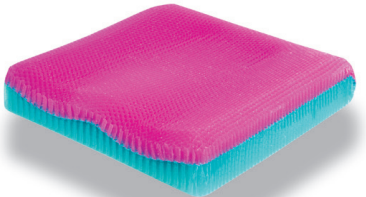
STIMULITE ADJUSTABLE CONTOURED CUSHION



Supracor's Stimulite Adjustable Contoured Cushion is the next generation of the popular Contoured Cushion, maintaining all its features with the new ability to be customized for the user's changing physical and functional needs. The multi-layered honeycomb is shaped into a subtle contour and specially engineered with soft and firm areas, providing excellent positioning and superior pressure management. An adjustment cavity at the bottom of the cushion allows the caregiver to easily customize the cushion by selecting from multiple Stimulite honeycomb inserts that vary in firmness. The ventilated Adjustable Contoured cushion comes with three interchangeable Stimulite honeycomb inserts: Soft (White), Medium (Pink) and Firm (Yellow). The XS option is also available for people with sensitive skin. Machine washable.

Cushion Thickness: 3 ½"

Cushion Weight: 3 ¼ lb.



STIMULITE CONTOURED PEDIATRIC CUSHION

Designed for positioning and comfort, the Stimulite Contoured Pediatric cushion consists of a soft top layer fused to a firmer bottom layer of flexible Stimulite honeycomb. Adductors, abductors and an ischial dish comfortably position the child, while the soft honeycomb cells hold him or her securely in place. By providing optimum pressure relief, stability, shear force reduction and ventilation, this very comfortable cushion helps protect children's skin against pressure sores. Machine washable.

Cushion Thickness: 2 ½"

Cushion Weight: between 1 and 2 lb.

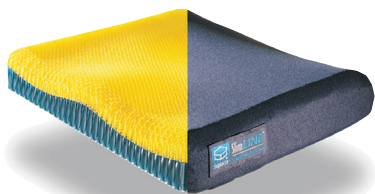


STIMULITE CORBEE® PEDIATRIC CUSHION

The Stimulite Corbee cushion protects children against the leading causes of decubitus by providing maximum pressure relief, reduced shearing and ventilation to control heat and moisture. Honeycomb's innate ability to uniformly distribute weight, contour to any shape and stabilize any sitting position makes the Corbee cushion suitable for a wide variety of anatomies and disabilities. The Corbee is an easy-care cushion for recreational activities and everyday use. Machine washable.

Cushion Thickness: 2"

Cushion Weight: between 1 and 2 lb.

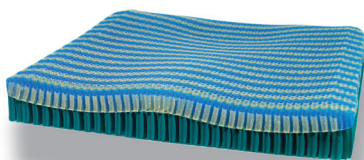


STIMULITE SLIMLINE™ CUSHION

The perfect cushion for active people and those who are at lower risk for decubitus ulcers, the ventilated, double layered Stimulite Slimline cushion is designed with a low profile. Adductors, an abductor and a rear dish form a subtle contour for optimal comfort and support. Machine washable.

Cushion Thickness: 2 ¾"

Cushion Weight: 3 lb.



STIMULITE SLIMLINE XS CUSHION

Designed with a mild contour and low profile for active people with sensitive skin, the ventilated Stimulite Slimline XS cushion features a soft top layer of specially engineered honeycomb fused to a bottom layer. The compliant honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. Machine washable.

Cushion Thickness: 2 ¾"

Cushion Weight: 3 lb.

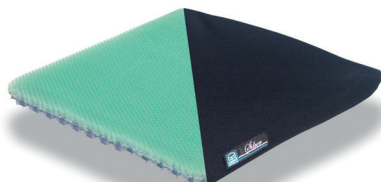


STIMULITE SMART CUSHION

The ultimate all-purpose cushion offers superior shock absorption and exceptional stability. The ventilated Stimulite Smart cushion features a soft top layer of specially engineered honeycomb fused to a robust layer with built-in bolsters for exceptional comfort and support. Machine washable.

Cushion Thickness: 2"

Cushion Weight: approximately 2 lb.

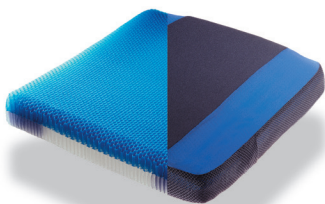


STIMULITE SILVER CUSHION

Designed for people who are at lower risk for pressure sores, the ventilated, two-layer, Stimulite Silver cushion can be used in a wheelchair, on a recliner or stadium seat and provides exceptional comfort, stability and support. Ideal for traveling, it can be tossed into a car's trunk or an airplane's overhead compartment. Machine washable.

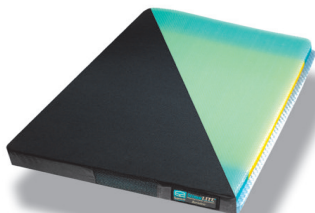
Cushion Thickness: 1 ½"

Cushion Weight: 1 lb.



STIMULITE SPORT CUSHION

The lightweight, Stimulite Sport Cushion provides pressure relief, reduced shearing and ventilation to control heat and moisture. Featuring a low profile, planar design, this cushion is ideal for sports chairs and active users. A soft layer of Stimulite honeycomb is fused to a robust bottom layer with built-in bolsters for maximum shock absorption, support and stability. A really “cool” cushion for competition and everyday use. Machine washable. Cushion Thickness: 2" Cushion Weight: approximately 2 lb.



STIMULITE BARIATRIC CUSHION

Consisting of two soft layers of flexible, Stimulite honeycomb fused to the back of a robust bottom layer, the high-performance Stimulite Bariatric cushion provides maximum pressure relief, stability and ventilation. The Bariatric cushion accommodates weights up to 650 pounds. An optional incontinence pad fits between the cushion's top and bottom layer. Washable. Cushion Thickness: 3" Cushion Weight: between 7 and 8 lb.

STIMULITE CUSHIONS	DIMENSIONS	SUGGESTED WEIGHT LIMIT
CLASSIC – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	250 LB – 113 kg 325 LB – 147 kg
CLASSIC XS – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	225 LB – 102 kg 250 LB – 113 kg
CONTOUR – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	250 LB – 113 kg 350 LB – 159 kg
CONTOUR XS – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	225 LB – 102 kg 250 LB – 113 kg
ADJUSTABLE CONTOURED – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	250 LB – 113 kg 350 LB – 159 kg
ADJUSTABLE CONTOURED XS – recommended for users with boney protuberance	Up to 16" x 16" 17" wide and above	225 LB – 102 kg 250 LB – 113 kg
CONTOUR PEDIATRIC	Up to 16" x 16"	125 LB – 57 kg
CORBEE PEDIATRIC	Up to 16" x 16"	175 LB – 80 kg
SLIMLINE – recommended for users at a low risk for skin breakdown	Up to 16" x 16" 17" wide and above	225 LB – 102 kg 250 LB – 113 kg
SLIMLINE XS – recommended for users at a low risk for skin breakdown	Up to 16" x 16" 17" wide and above	200 LB – 91 kg 225 LB – 102 kg
SMART – recommended for users at a low risk for skin breakdown – not for boney protuberance	Up to 16" x 16" 17" wide and above	200 LB – 91 kg 225 LB – 102 kg
SILVER – recommended for users at a low risk for skin breakdown	Up to 16" x 16" 17" wide and above	175 LB – 80 kg 200 LB – 91 kg
SPORT – recommended for users at a low risk for skin breakdown	Up to 16" x 16" 17" wide and above	225 LB – 102 kg 250 LB – 113 kg
BARIATRIC – recommended for users over 275 lb.	Up to 30" x 26"	650 LB – 295 kg



STIMULITE ON TOP CUSHION COVER

Just place Stimulite On Top. Like magic, your cushion will now breathe to control heat and moisture. This removable cover features a 3/4-inch thick layer of Stimulite honeycomb that fits over any cushion. Machine washable.



STIMULITE POSITIONING WEDGES

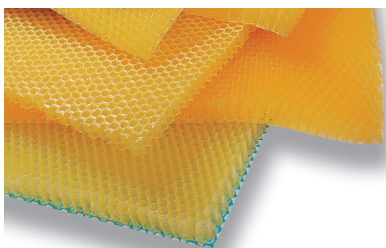
Covered in Cordura fabric with Velcro for easy attachment to cushion bottom. Available in 1-inch and 2-inch thickness.

- 14" wide x 10" long
- 15 3/4" wide x 10" long



STIMULITE LUMBAR SUPPORT

Whether you're sitting in a chair or car, this sleek and breathable Stimulite Lumbar Support will improve your posture and relieve pressure while keeping you cool and dry. Features a removable, adjustable strap. Washable.



STIMULITE HONEYCOMB SHEETS

Stimulite's breathable honeycomb sheets can be used over any seating and positioning surface including custom contoured cushions and back supports.

Sheets are 24" wide x 24" long

- SBS-1: 1/2" thick, bare honeycomb sheet
- SBS-1XS: 1/2" thick, bare honeycomb sheet, extra-soft
- SBS-2: 1/2" thick, single-faced sheet
- SBS-2XS: 1/2" thick, single-faced sheet, extra-soft
- SBS-3: 1/2" thick sheet with fabric on one side
- SBS-4: 11/16" thick, single-faced sheet
- SBS-5: 1" thick, single-faced sheet
- SBS-5XS: 1" thick, single-faced sheet, extra-soft
- SBS-6: 3/4" thick & 1/4" thick, single-faced, double honeycomb panel
- SBS-7: 3/4" thick, double-faced, firmer honeycomb sheet
- SBS-800: Complete pack of sheets: SBS-1 to SBS-7



STIMULITE TENSION ADJUSTABLE BACK

The Tension Adjustable Back features Stimulite® honeycomb to circulate air and evaporate moisture while equalizing pressure for exceptional comfort and stability.

The "footprint" of the flexible honeycomb cells stimulates blood flow to enhance circulation.

Adjustable velcro straps can accommodate for kyphosis or posterior pelvic tilt.

Available for folding or rigid wheelchair.

Stimulite...The Intelligent Support Surface

WHAT IS STIMULITE?

A flexible form of aerospace honeycomb that is fusion bonded without adhesives, retaining all the benefits of the base material.

WHAT IS STIMULITE MADE OF?

Thermoplastic urethane, a flexible and resilient material that is non-toxic and safe for the body and the environment. The same material can be found in wound dressings and heart valves.

HOW DOES STIMULITE WORK?

Stimulite's flexible cellular matrix consists of alternating thick-and thin-walled cells that flex when compressed to relieve pressure. When sitting on a Stimulite cushion, the compressed cells radiate outwards to surround and support the anatomy. The "footprint" of the flexible cells stimulates capillary action, bringing more blood to tissue for healthier skin.

WHAT MAKES STIMULITE'S VENTILATION SYSTEM SO UNIQUE?

Most cushions and support surfaces address the microclimate through the cover material. But research has proven this to be ineffective in controlling heat and humidity. Each cell of Stimulite honeycomb is perforated to allow air to flow both vertically and horizontally, keeping the body temperature from rising and preventing humidity. To complete the ventilation system, our covers are made of natural, breathable fabrics that work with the honeycomb to wick away moisture and minimize sweat.

ARE STIMULITE CUSHIONS ADJUSTABLE?

Stimulite cushions self-adjust to the user by contouring to each individual's anatomy while equalizing pressure across their surface.

For sizes, product care* and to learn more about Total Pressure Management, visit www.supracor.com/products/medical.

*Both the honeycomb and cover may be washed and dried separately in front-loading machines. Do not use chlorine bleach.

Supracor is the originator of fusion-bonded honeycomb technology, a flexible form of aerospace honeycomb utilized in products that promote the health and safety of people and animals.

Supracor's lightweight, washable Stimulite honeycomb cushions and sleep surfaces provide Total Pressure Management®—pressure relief, reduced shearing and ventilation to control heat and moisture—the key to preventing and healing pressure sores. Its award-winning Cool Grip® saddle pads help prevent sore backs in horses and its rejuvenating personal care and fitness products are hygienic, safe and uniquely comfortable.

A versatile, engineered material, Supracor's shock-absorbing honeycomb can be found in high-performance applications such as bullet-proof vests, sports protective equipment and bumpers for amusement park rides.

Naturally antibacterial, antifungal and allergen free, Supracor's products are exclusively made in California's Silicon Valley from American-made, eco-friendly materials.

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