

# skyscrape

## Skyscrape's Groundbreaking, Temperature-Responsive 'Intelligent Insulation' Will Debut in Ralph Lauren's Team USA Opening Ceremony Garments

Skyscrape has created a new type of fabric that responds to changes in temperature, increasing and decreasing its thickness and insulation value without the use of wires or batteries. This unprecedented Intelligent Insulation will be featured in Ralph Lauren's garments for Team USA at the Winter Games Opening Ceremonies on February 4th, 2022. The announcement was made on *The Today Show* on January 20th, 2022.

“Skyscrape is honored to work with Ralph Lauren on the Team USA outerwear for the Winter Olympics Opening Ceremony. It took years of research to make this fabric happen and we couldn't imagine a better way to launch it.”

-Brent Ridley, Founder and CEO, Skyscrape



The vision for Skyscrape's responsive fabric is a single garment that transitions through three-seasons and from indoor to outdoor environments seamlessly, eliminating the need for multiple garments. Traditional apparel has well-known limitations when temperatures change, becoming insufficiently warm when the sun goes down, or too hot when the wearer moves indoors. Skyscrape's novel Intelligent Insulation allows a garment to automatically adjust its level of warmth based on the temperature of the surrounding environment. It does this by harnessing the power of a proprietary yarn in a complex woven structure, without any electronics or added chemistry. This patented yarn expands or contracts as temperatures change, allowing the fabric to "puff up" and trap more air, increasing the insulation in the garment. Moving between two environments that are around 15 °F different in temperature (for example from 50 °F to 35 °F, 10 °C to 2 °C) is roughly equivalent to adding a sweater, and the Skyscrape fabric responds quickly and without requiring any effort or attention. The result is a garment that's more comfortable over a wider range of temperatures, and fewer articles of clothing are needed to navigate daily life.

**“Skyscrape's temperature-responsive insulating fabric is quite versatile and can be “tuned” to be effective for a variety of temperature ranges and products. There are so many places this could go.”**

-Carly Mick, Director of Manufacturing, Skyscrape

**About Skyscrape:**

Based in Portland, Oregon, Skyscrape is an interdisciplinary team of scientists, engineers, designers, and weavers, all working together to design and build a first-of-its-kind temperature-responsive insulation. A spinout of Otherlab and funded by ARPA-E in the U.S. Department of Energy and Y Combinator, the company was born from a vision to make clothing that could respond to its environment, improving personal comfort to the point that it would impact how buildings are heated and cooled. In partnership with world-class brands, Skyscrape invents, designs, and manufactures in America. Visit <https://skyscrape.clothing>

Contact: [info@skyscrape.us](mailto:info@skyscrape.us)