

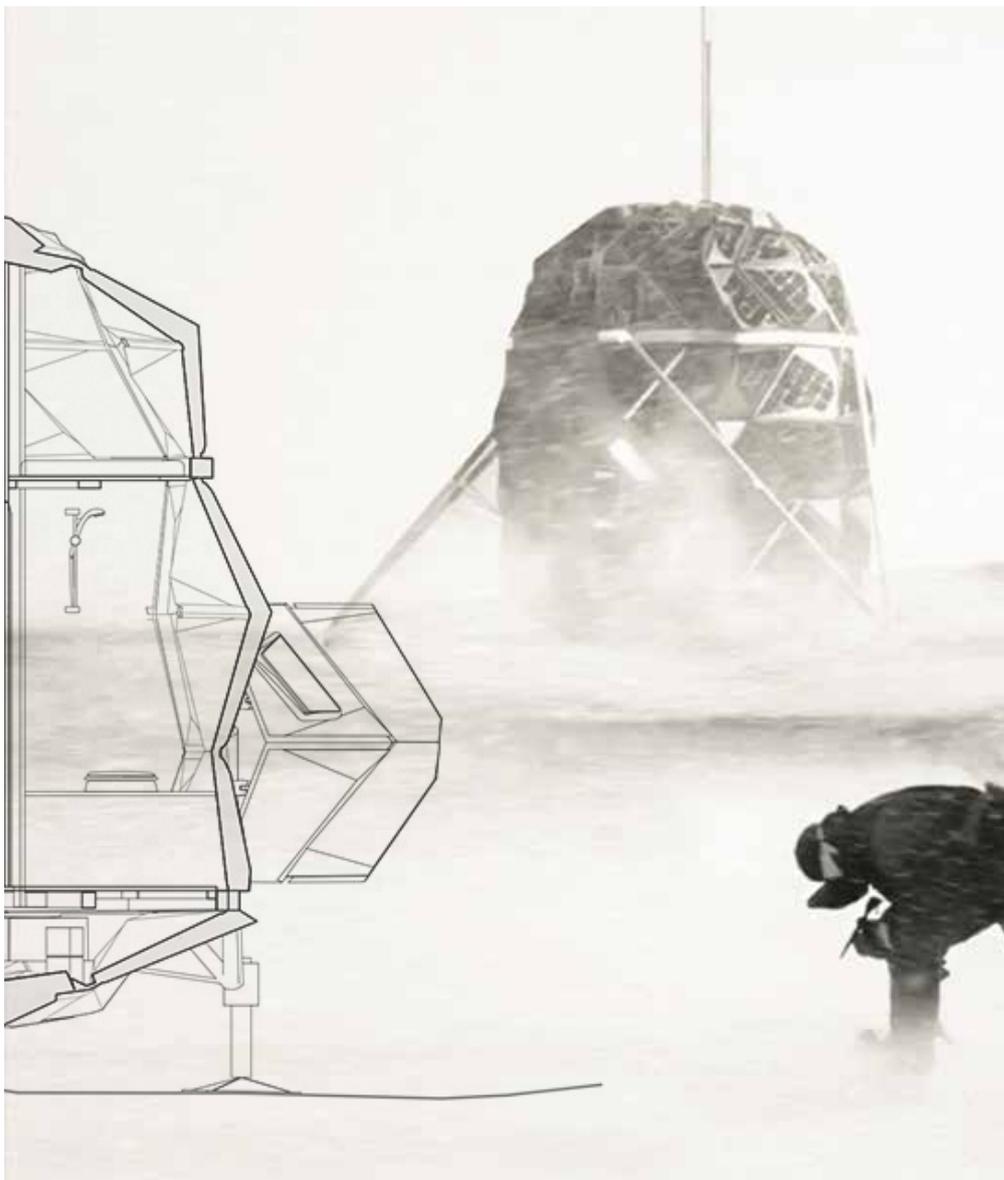
MOON HABITAT MISSION

Exploring the future today

THE
LUNARK
PROJECT

In 2020 SAGA Architects and Armacell set up a moon mission in Arctic Greenland – a practical test of how to make space liveable for future travellers. **ArmaFlex® Ultima** was the only flexible insulation material to meet the design requirements and Greenland's shelter regulations.

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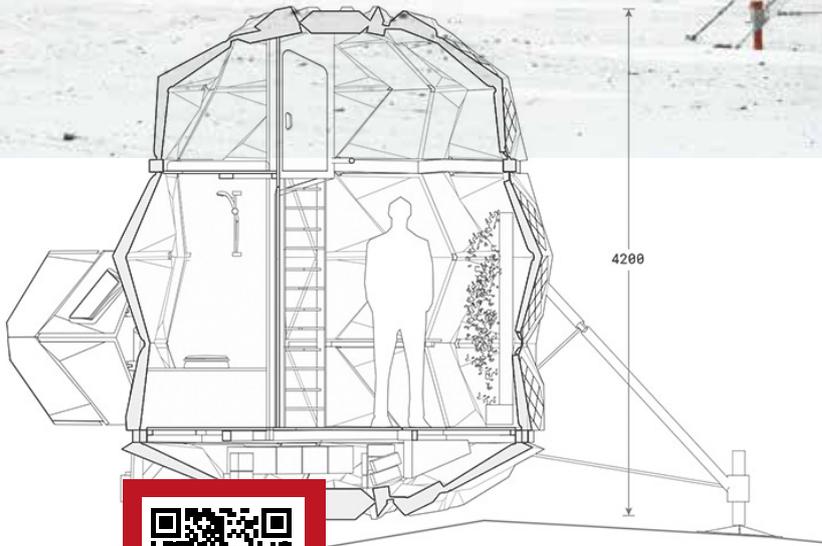
 **armacell**[®]
MAKING A DIFFERENCE AROUND THE WORLD

WHAT DOES IT TAKE TO LIVE ON THE MOON?

Nearly half a century after a human being was last on the Moon, space travel is again on the agenda. “If humans are to settle on the Moon and other planets, we must be very careful how we design the homes for these pioneers. In space, your habitat is your entire world,” says SAGA, a Danish design studio that wants to make space liveable for future travellers.



The two-person crew, Sebastian Aristotelis and Karl-Johan Sørensen, tested the viability of the habitat from September to November 2020.



As the Moon is not available for habitation experiments just yet, Arctic Greenland was chosen as the next-best alternative. This bare, unforgiving environment is not dissimilar to the Moon.

SCAN OR
CLICK
TO WATCH



The SAGA crew

“ArmaFlex Ultima insulation kept us safe and warm at outdoor temperatures as low as -50°C.”

AND WHO DID THEY TURN TO FOR HELP WITH INSULATION? ARMACELL OF COURSE.

The LUNARK Habitat origami lightweight structure was made of **ArmaPET®** and two layers of **ArmaFlex Ultima** protected by **ArmaFinish** were installed to insulate the internal walls. With its excellent fire performance and low smoke density, ArmaFlex Ultima was the only flexible insulation material to meet SAGA's design requirements and Greenland's shelter regulations.

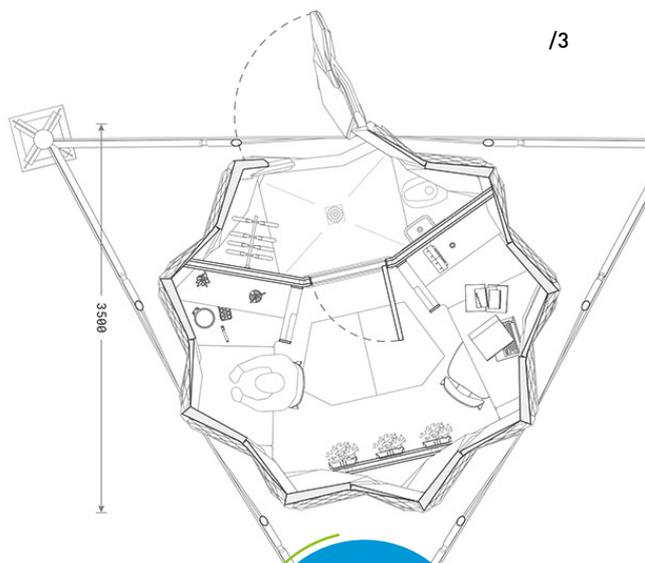
INSTALL IT. TRUST IT.

ArmaFlex Ultima

With ArmaFlex Ultima we have set a **new safety standard in technical insulation**. Based on the patented ArmaPrene™ technology, ArmaFlex Ultima is the first flexible technical insulation material in the world with fire class **B₁-s1,d0** and exhibits **10 times less smoke** in a fire than a standard elastomeric foam. Thanks to its **low thermal conductivity and high resistance to water vapour diffusion**, closed-cell ArmaFlex Ultima ensures **reliable condensation control** and **high energy savings in the long-term**.



Up to
10
times less
smoke



THE LUNARK PROJECT

✓
ENERGY
EFFICIENCY

✓
CONDENSATION
CONTROL

✓
FIRE
SAFETY

✓
INDOOR
AIR QUALITY

✓
LONG-TERM
SAFE OPERATION

ArmaPET cored composite panels are light-weight, facilitate transportability and guarantee durability, toughness, and superior long-term performance with low lifetime maintenance requirements. Based on 100% recycled material, ArmaPET supports a zero-waste ecosystem approach.





NEW MOON HABITAT: ROSIE

“Lunark has been an incredible experience, both for us and for the SAGA team. It was the first joint project, and we will now develop a more complex lunar habitat. Rosie will be installed in Switzerland and tested over a period of ten years with small crews of students.”

Sebastian Aristotelis
Co-Founder, SAGA Space Architects

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,200 employees and 25 production plants in 17 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For product information, please visit:
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