

## High-tech Textiles as a Problem Solver: 3DEA® spacer fabrics bring Water to the Desert and insulate Walls

### Essedea presents new applications and product solutions

Frankfurt on the Main, May 2017. **Stand: Baden-Württemberg Pavillon, 3.1 D81**

In the Baden-Württemberg Pavilion Essedea, manufacturer of the 3DEA® spacer fabrics, together with roma introduce textile wall elements for innovative interior finishing. Three dimensional textiles filled with e.g. wood fibres are multifunctional: They combine noise and heat insulation with moisture and air exchange properties. Roma's textile heaters have a low energy consumption and can be integrated in wall elements. This way heat is not only stored, but can be actively generated.

This development is a project of the spacer fabrics competence center AFBW (Alliance of fiber based materials in Baden-Württemberg.) A specially developed demonstration unit at our booth illustrates its functional properties and the layout potentials. It shows that the possibilities of application for interior designers are as varied as the product solution itself.

**3DEA® is in the largest fog collector in the world: 35,000L of drinking water per day**

CloudFisher is the name of the fog collector, which uses 3DEA® to obtain water from fog. Fog is blown by strong winds through the collectors of the fog collectors. Here 3DEA®, a textile developed especially for this purpose by Essedea and the ITV Denkendorf, conducts the water droplets towards collection channels, which transfer the water to cisterns. What began as a project to generate water has matured into a record making product ready for serial production: The largest and most effective fog condenser facility in the world is being built in the Anti-Atlas mountain range in Morocco. The effective area is approximately 1,600 m<sup>2</sup>. Based on trials from the TU Munich, future water yields should be 35,000 L per day. This results, on the one hand, in potable water for the 800 residents and their 7,000 livestock, on the other hand, it improves the living conditions and educational opportunities for women and children. Instead of spending six to eight hours per day in procuring water, they will be able to use this time attending school or for learning new agricultural methods. This is for us at Essedea texolutions – otherwise concerned with industrial applications – evidence how well high tech textiles not only perform, but how they can contribute to the quality of life.

**More information at:** [www.3dea.de](http://www.3dea.de) / [www.aqualonis.com](http://www.aqualonis.com) / [www.wasserstiftung.de](http://www.wasserstiftung.de)

#### Quick company profile:

Essedea develops and produces innovative, high quality technical textiles under the brand 3DEA® and ranks among the worldwide innovation leaders for state-of-the-art spacer fabrics. The name affix "texolutions" refers to the company's core competency: development of textile solutions for multiple uses and challenging applications. Essedea is a capable and reliable partner for both realizing niche products and serial production. Highest product and process quality, innovative R&D activities, an efficient supply chain and cost effectiveness for our customers form the core of our corporate philosophy. Essedea is a sister company of Heinrich Essers, Europe's market leader in warp beam preparation. With more than 100 years of experience the company group is counted among the body of experts for technical textiles in Europe.

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