



## Next Material

Prisca Alexandra Holderied – Master Student Textile Products Design  
prisca@holderied.de

### WOVEN KNITS - Creation of an interior collection by using innovative design techniques

Interior design is dominated by woven fabrics, but there is a new technical trend coming up. By inserting laid-in yarns in knitted fabrics it is possible to create knitted materials with properties similar to woven materials regarding their properties, their optics and haptics. The aim of this bachelor thesis was the development of a fabric collection by using laid-in yarns in knitted fabrics with a new technology, suitable for interior applications. Therefore this collection is creating an innovative transition from woven to knitted interior textiles.

The thesis starts introducing the interior design history, focused on textiles, mainly knitted fabrics. The author describes the laid-in technique and explains why this technique is on an upswing. The possibilities of industrial production as well as sustainable aspects including materials and dyeing methods are being discussed. The material concept combines biodegradable polyamide, originally used to strengthen tires, with natural yarns made of wool, to realize textiles with new optics and functional properties.

The result is an experimental collection with a wide range of constructions, shapes and designs. The developed patterns show a great creative variety, easy to combine which each other in a modular concept.

The statement piece of the collection is an upholstered armchair. It shows that by using laid-in yarns it is possible to create knitted fabrics that can fulfil the requirements for interior textiles.

**Coach:**

Prof. Dipl.-Des. Ellen Bendt  
Hochschule Niederrhein - University of  
Applied Sciences

**2nd Coach:**

Prof. Dr.-Ing. Marcus O. Weber  
Hochschule Niederrhein - University of  
Applied Sciences

