

WouldWood 2 - Newsletter 2019-3

Upcoming events:

General meeting 29th April, at Veidekke in Solna (Stockholm)

The newsletter covers highlights from the General Meeting at Neste in Kulloo in October 2019 and the proceedings in the project.



Figure 1. The participants at the guided tour at Neste

RISE IVF joins as a partner in the project, a great contribution for the printing of our full-sized demonstrators.

Generation 2 of the Wouldwood material is produced, five batches with different material combinations. The test printing of these batches are on-going.

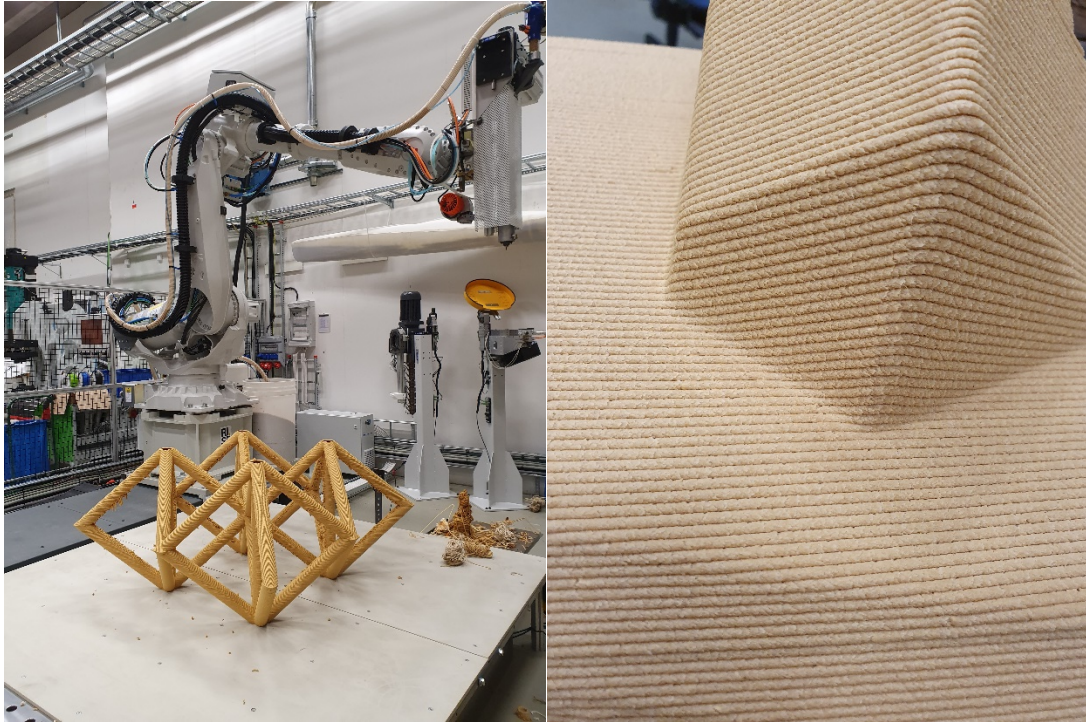


Figure 2. Test prints with gen2 of the Stora Enso material by RISE IVF.

The demonstrators are decided:

Demonstrator 1: Scania Truck interior component

Demonstrator 2: Veidekke interior component

Demonstrator 3: Open ended architectural component

Demonstrator 4: Outcome of Student work in Material & Detail, Chalmers Fall 2019

The Veidekke interior component, will be printed in full scale to demonstrate the possibilities, se figure 3, showing the interior component of an entrance hall of a building.

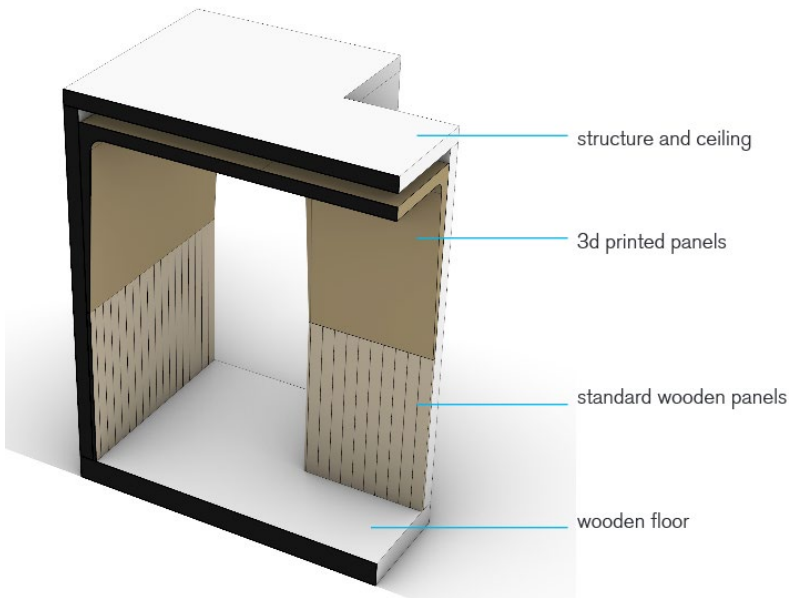
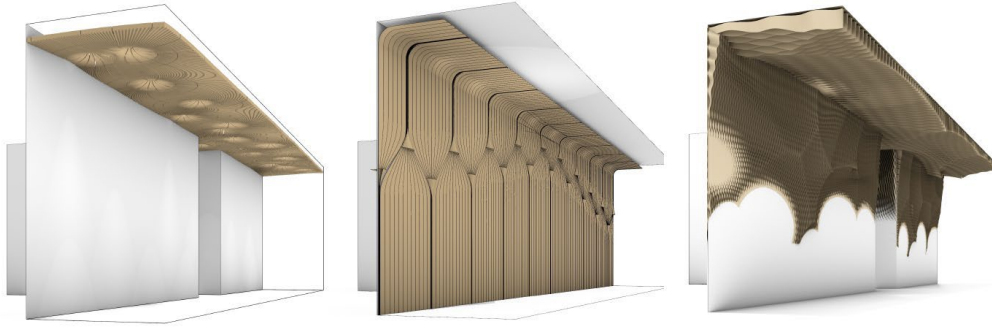


Figure 3. The Veidekke demonstrator

The winning proposal (The Doodle Nest), see figure 4, of the student work in the course Material & Detail, Chalmers Fall 2019, will be printed at RISE Mölndal in December and exhibited in a museum in Gothenburg and at Chalmers. The design development is aligned to the Solar Decathlon competition.

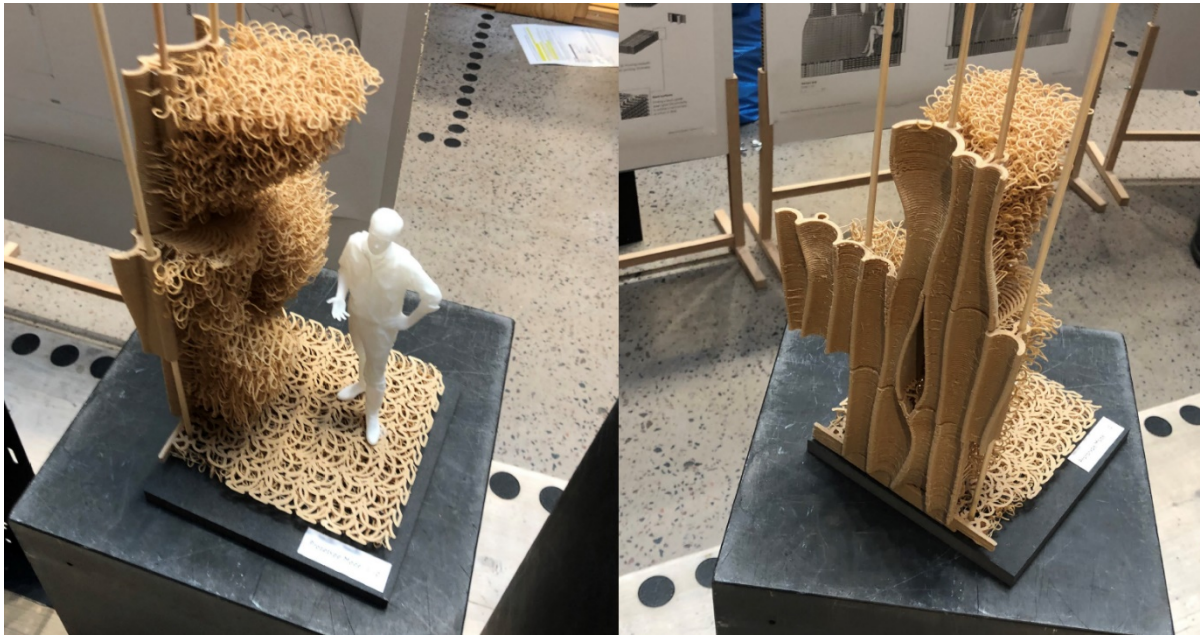


Figure 4. The winning student work from Chalmers, The Doodle Nest



Figure 5. The exhibition at Chalmers ACE, December 13th – 20th, 2019.



Figure 6. The full scale demonstrator 4

The LCA study shows that the decrease of weight is the most important factor for the new product. The overall impact is reduced when switching to the new product, in spite of higher energy input for additive manufacturing.

Printing is now possible at different angles and printing horizontally without any support structure with the large extruder (4mm nozzle). Tilting is necessary to create the right visual impression, when it comes to demonstrator 1, the customized car interior part, Scania Truck interior component.

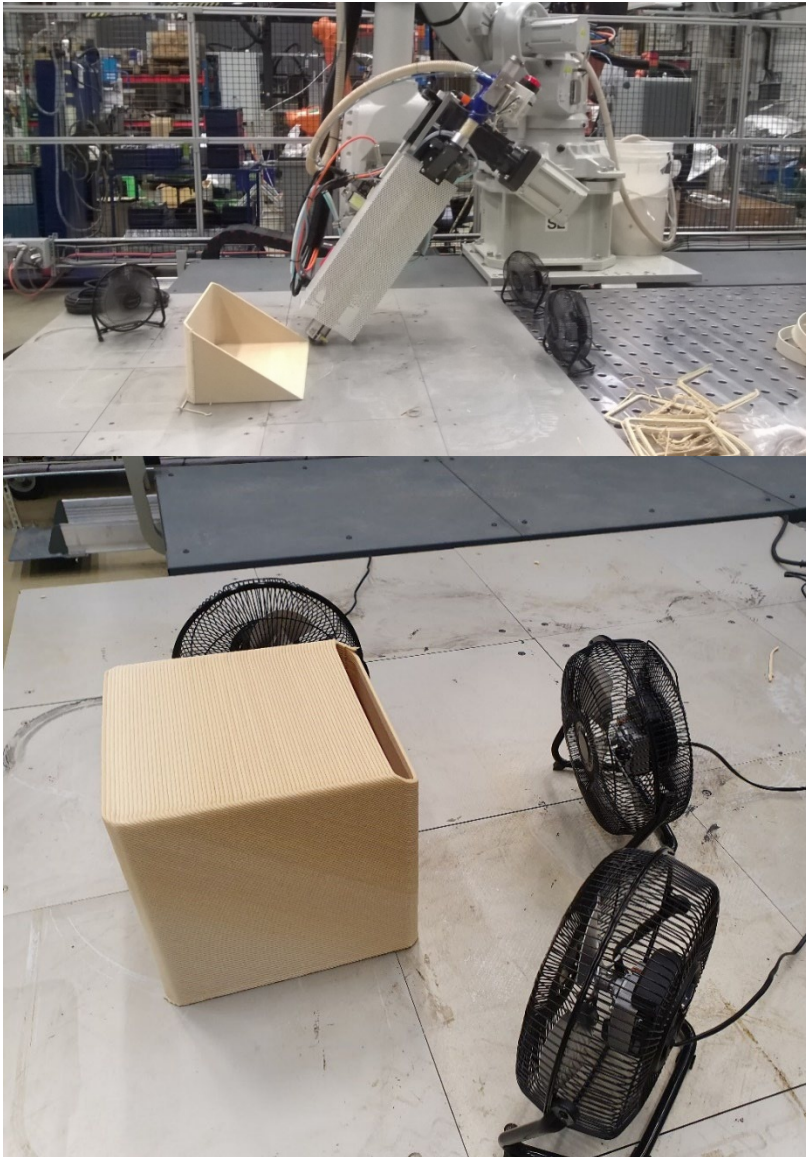


Figure 7. The top of the box, the lid, is printed horizontally at 45 degrees angle without any support structure by RISE IVF.

The project will now proceed with printing of the demonstrators from Scania and Veidekke and trials with the generation 2 material batches.

We wish you all a Merry Christmas & a Happy New Year!