

Report: Air blowing test using STEICO cell and SIGA vapour control layer Majpell® 5



1. Introduction

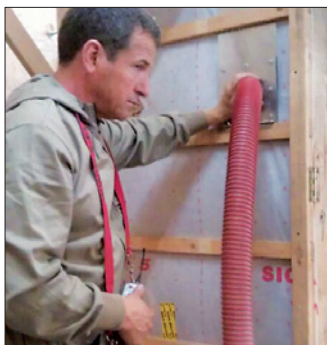
On 25th August 2011, the company X-Floc in Renningen (D) successfully carried out various air blowing tests using the vapour control layer SIGA Majpell® 5 as the planking material.

2. Test setup:

The test block was a wall element with dimensions of 2500 mm x 1200 mm x 200 mm (H x W x D). The wooden frame was made out of 60/200 mm cross-sections of solid wood. Different joist widths were chosen.

A broad joist of 900 mm width and a narrow joist of 300 mm width was formed.

An OSB board forms the outer planking and the SIGA Majpell® 5 forms the inner planking. The SIGA Majpell® 5 was assembled using double-sided adhesive tape SIGA Twinet® to the frame structure. The overlaps of the vapour control layer was sealed using SIGA Sicrall® 60 to be airtight. As described in the SIGA instruction manual, the overlapping joint was additionally reinforced in the middle of the broad joist using a Sicrall cross-piece. Finally, a horizontal battens was assembled on the inside at a distance of about 300 mm.



3. Observation

The compartments could easily be filled with the wood fibre insulating material. The insulating material could be filled without any gaps. Due to the filling of the insulating material under a specific density, there was a slight bulging of the vapour control layer. This bulging does not cause any restrictions in terms of the processing and functionality of the insulation. With respect to the opening for blowing air, using a diaphragm would be advantageous.



4. Conclusion

The vapour control layer SIGA Majpell® 5 is suitable to be used as planking material for STEICO cell air insulation. The recommendations of Steico and the insulation equipment should be followed.