

Report: Injection test with SIGA membrane: Majrex

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1 Introduction

The tests on the SIGA Majrex¹ vapour control layer were carried out in Bütschwil on 20 March 2017 in the isofloc AG training facilities.

2 Method

The element was filled while horizontal, with the membrane facing upwards. The membrane was mounted facing upwards, visibly and legibly, in accordance with the labelling. The bottom facing was a three-layered panel and the sides were of glued-on construction wood (spruce). This set-up corresponded to a typical injection scenario.

Element size: 2500 x 600 x 200 mm.

The vapour control layer was applied transversely, overlapping in the middle. This meant that the testing scenario included a taped joint 0.6 m in length. To mount the membrane in such a way as to avoid slippage, further clamping battens were attached to the sides. As a result, the situation of a central rafter field could be represented using a single element.

2.1 Observations

During the filling procedure the membrane bulged up. The extra space that this produced was also filled up with isofloc cellulose fibres. After the filling procedure, the membrane contracted slightly.

¹ Hygrobrid + variable humidity vapour control layer for permanently airtight building envelopes involving roof, wall and ceiling structures,
Source: http://www.siga.ch/fileadmin/user_uploadAWeb_DeutschM2_Downloads/Produktdatenblatt/Produktdatenblatt_Majrex_de.pdf, 15 March 2017

3 Description of a possible application

The SIGA Majpell 5 vapour control layer is suitable for use as facing material for isofloc injection insulation.

However, the following requirements must be met:

- ✓ Where elements are sealed, an air outlet opening of sufficient size must be ensured during hose injection.
- ✓ The mechanical attachment of the clamping battens directly on the construction wood must be such that the membrane does not slip even when injection pressure is applied.
- ✓ The minimum thickness of a clamping batten for a normal element width of 560 mm should be 30 mm.
- ✓ Wider elements require additional battens. It should be borne in mind that manufacturers of battening material specify a certain spacing, and depending on the circumstances this spacing may prove to be insufficient for an injection operation.

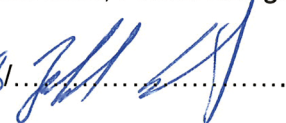
4 Agreements

SIGA will use and publish these results exclusively in connection with isofloc cellulose insulation. Should material be published in connection with these tests (brochures, instructions, flyers etc.), isofloc AG hereby gives approval for SIGA Cover AG to use the company logo and expresses its wish for this to be done.

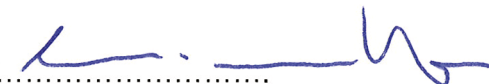
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