SIGA Majrex – STEICO air-injected insulation

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1. Introduction

Injection tests with the SIGA Majrex vapour control layer took place on 21 July 2016 at STEICO SE in Feldkirchen. The suitability of the SIGA Majrex vapour control layer in combination with STEICO air injected insulations (STEICO*zell* / STEICO*floc*) was measured.

2. Method

A timber-frame wall element was constructed. There were three adjacent compartments.

Large compartment area [H x W x D]: 1250 x 625 x 200 mm

The test was performed with the SIGA Majrex facing inside the room. A wood-fibre insulation board or a composite wood board formed the outer covering.
SIGA Majrex was installed horizontally with Twinet so that there was a bonded edge across all three compartments. In order to make the compartments completely pressure-safe, further battens were fixed to the sides. Each of the individual compartments could simulate the conditions of the spaces inside rafters or walls.

2.1. Observations

During filling, there was a slight bulging of the SIGA Majrex. The air-injected insulation fitted flush against the vapour control layer. After injection, the bulging only reduced minimally. This does not impair the function or installation of the vapour control layer / insulation. With regard to the injection opening, the use of a flange is advantageous.

3. Description of application options

The SIGA Majrex vapour control layer in combination with STEICO air-injected insulations can be used in sheeting applications. The following points must be observed for safe execution:

- ✓ With sealed compartments, during injection using the cured-in-place process, the air outlet opening must be sufficiently large.
  (e.g. opening above the injection hole, or venting rotary nozzles)
- ✓ Before installing the air-injected insulation, a cross batten with a maximum separation of 420mm should be installed. In addition, the instructions regarding permissible centre differences of the inside cladding (e.g. plaster materials, panelling) must be observed.
- ✓ With a compartment width of 625 mm, the cross battens should have a minimum thickness of 30 mm.
- ✓ When SIGA Majrex is installed crosswise, it is recommended that the overlap adhesion be reinforced by additional pieces of SIGA Sicrall at right angles to the overlap.
- ✓ We assume correct planning, execution and on-site checks. Please always observe the user manual and processing information for SIGA and STEICO products.

4. Agreement

SIGA uses and publishes these findings exclusively in conjunction with STEICO air-injected insulations (STEICO*zell* / STEICO*floc*).

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