System approach and on site quality control

Isov’Air Test : Air tightness evaluation
Airtightness systems

Adhésif Vario KB1
(Jointoiement des lès)

Adhésif Vario Multitape
(Jonction conformable)

Adhésif Isostrech
(Tour de conduit)

Mastic Vario Double Fit
(Jonction membrane/support)

Joint ruban Vario Protape
(Jonction membrane/support)

Adhésif Vario Double Face
(Collage membrane/fourrure)
Service : Field of application

- **Evaluation of air tightness for private housing:**
  - At reception of new building to evaluate the performance
  - In the course of the project to correct the possible defects (before installation of the facing)
  - At the end of the project, in order to ensure the official measurement carried out by an approved operator

- **Evaluation in multifamily apartment on independent batches**
Control of air tightness on jobsite in a quality approach

Isov' Air Tests: the 1st workstation of self-evaluation of air tightness on sub-project

Facilitate the coordination between the different installers

+ Help to anticipate the potential issues before final measurements.
Principles?

- Air tightness of a building is measured by sealing all the air entries and air leakages envisaged and by putting the house in depressurization or surpressurisation.

- Measurement is carried out by an operator recognized by a commission and respecting a standardized testing method (European standard EN NF 13829).

- The lawful index French Q4Pa-surf quantifies the escapes of air of the building and is expressed in $m^3$ of air per hour and $m^2$ of cold wall (walls, roof) under 4 Pascal of difference in pressure external interior/.
ISOV’AIR Test

- Performance evaluation of air tightness compared to a target value

- Enables to locate the defects of sealing

- Speed of implementation

- Easiness of reading

- Reliability of the evaluation
  - development resulting from the experience of Ubat Controls
  - calibration by independent organism (CETIAT)
Reminder of the requirements of label BBC Effinergie (current) and RT2012 (to be come)

- Requirement for air tightness to 4 Pa (Q4Pa-surfing)
  For:
  - Single family housing 0.6 m³/h/m²
  - Multifamily apartment 1 m³/h/m²
Characteristics

- Surface Maximum cold wall: 700 m\(^2\)
- Feeding: 220 V (sector or generating set)
- Handiness: handle + casters any ground
- Ventilator monovitess with very stable flow
- Dimension: 60 cms X 43 cms X 63 cms / Weight: 23.9 kg
- Reading of the differential of pressure by digital display on autonomous manometer (pile)

Cover and tallies provided

Feedback: Useful in pre-control

Possible rent in the retails

Present users: big builders in particular (single family housing and multifamily housing)