French voluntary scheme for homogeneous announcement of ventilation product performance

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QualiCheck project

Status of compliance and quality on the ground

- Easy access to compliant EPC input data
- Towards better quality of the works
- Towards better compliance and effective penalties

Solutions

Context

- Ventilation product characteristics may be published in a non-homogeneous way by manufacturers
- Quantities and units may differ because of:
  - ambiguities, interpretations, misunderstandings of the standard,
  - no regulation defining how to publish data

- Could make difficult to find the correct input data for a building energy performance calculation and its energy rating on the EPC
Examples of problems addressed

• Operation curves for fans (flow rate vs. pressure): total pressure? Static pressure?
• Heat recovery efficiency of balanced ventilation fan box: which of the operating conditions of the testing method?
• Noise: sound power level? Sound pressure level at a certain distance?

Implemented solution

• A voluntary scheme defining performances to be published by manufacturers of ventilation products
• Launched in 2012 by Uniclima, the French association of manufacturers, with technical support of CETIAT
• Minimum set of product data to be included in the manufacturer documentation, and format under which they have to be displayed
**Products covered**

- ventilation and air handling products
- for all types of buildings (residential, commercial or even industrial), new or existing
- rules exist for 19 products:
  - air inlets (2), air exhausts (3), air terminals
  - ducts and fittings (3), fire dampers
  - exhaust fan units (3), balanced fan units (2)
  - smoke extraction fans (2)
  - fan coil units, active chilled beams

**Rules**

- Product data covered: those for technical sheets, website, catalogue, price list, packaging
- For each product, dedicated rules give:
  - minimum list of characteristics to be displayed
  - conditions for obtaining and displaying them, with reference to standards and certifications
  - list of communication media where the characteristics should be displayed
- Data published according to the rules are identified by a logo
Implementation

- Uniclima estimates that (May 2014):
  - scheme has been used by over 25 manufacturers
  - total number of installed ventilation systems concerned (2013): almost 1 million, based on the number of products put on the market

Examples of implementation

- Source: [http://caladair.com](http://caladair.com)
- Source: [http://pro.aldos.fr](http://pro.aldos.fr)
- Source: [www.lindeb.com/fr](http://www.lindeb.com/fr)
- Source: [www.atlantic-ventilation.fr](http://www.atlantic-ventilation.fr)
Examples of implementation

Organisation of the scheme

- Detailed rules and logo available from Uniclima
- Opened to all manufacturers and distributors, even non-members of Uniclima
- Manufacturers remain responsible for the product data published
- In case of dispute about the compliance of published data, parties involved search for an amicable solution, under the auspices of Uniclima.
Pros and cons

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
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<tbody>
<tr>
<td>✔️ Voluntary scheme, free access</td>
<td>✔️ Interesting only if sufficient number of manufacturers and products</td>
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<tr>
<td>✔️ Provides easy access to harmonised data</td>
<td>✔️ Data not put together at the same place</td>
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<tr>
<td>✔️ Reduces risk of wrong or incomplete data, thus contributes to more surely compliant data</td>
<td>✔️ Compliance is not fully guaranteed</td>
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To know more...

- [www.uniclima.fr](http://www.uniclima.fr)  
  *(Recommandations d'affichage des performances produits)*

- QUALICheck report:  
  “How to get compliant and accessible data for the energy rating calculation of a building”

- QUALICheck factsheet:  
  “French voluntary scheme for homogeneous announcement of ventilation product performance”

available at [http://qualicheck-platform.eu](http://qualicheck-platform.eu)
THANK YOU

QUALICheck

Quality

GUARANTEE