

Energy Labelling Scheme for Facade Windows

Agreement on affiliation to the scheme

BETWEEN THE APPLICANT/DISTRIBUTOR (hereinafter referred to as "the company")		
Name of the company (stated on the certificate)		Company Code
Address of the company	Postal code	Town, country
Contact	Tel./ Mobile no.	Mail

AFFILIATED TO THE DANISH WINDOW PANE VERIFICATION SCHEME (DVV) -			
Yes:	DVV Product Certificate No.:		No:

AND THE ENERGY LABELLING SCHEME	
At/ VinduesIndustrien Inge Lehmanns Gade 10 DK-8000 Århus C	Tel.: +45 8620 5010 info@vinduesindustrien.dk www.vinduesindustrien.dk

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Info sheet.

Date and signature: the company	Date and signature: the Energy Labelling Scheme

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1.0 PURPOSE

1.1 Name and organisation

The name of the labelling scheme shall be the **Energy Labelling Scheme for Façade Windows**.

The scheme shall be administered by VinduesIndustrien in accordance with the agreement entered on 16.12.2010 with the Danish Energy Agency.

1.2 Terms of responsibility

The company, which owns the certificate, shall be responsible for observing this agreement.

The name of the company shall be stated on the certificate.

The company shall enter an agreement with an impartial certification body regarding an annual inspection at the production site.

The impartial certification body shall be approved by the Energy Labelling Scheme.

In case of DVV certified companies or similar companies, the inspection shall be carried out in connection with the scheduled inspections.

The affiliated companies are solely responsible for the correctness of their energy labelling.

2.0 REQUIREMENTS TO COMPANIES

2.1 General

The owner of the energy labelling certificate shall be responsible for observing the legislation applying at any time for windows in Denmark, including all requirements of the harmonized product standard for windows and external doors EN 14351-1.

On inquiries from customers, the owner of energy labelling certificates shall be able to give information on $\text{Min. } T_{oi} \text{ } ^\circ\text{C}^1$

¹⁾Minimum – temperatur – overflade – indvendig – grader/celsius for produktsystemet (Minimum – temperature – surface – internal – degrees/Celsius for the product system).

On inquiries from customers and in offers as well as order confirmations, the owner of energy labelling certificates shall be able to give information on:

- The name of the product system.
- E_{ref} for the product system.
- Energy class for the product system.
- Reference to the identification number of the product system at the homepage of the Energy Labelling Scheme.
- E_w^2 , U_w , g_g and the proportion of glass $F_f (A_g/A_w)$ in windows in the specific designs and sizes.

²⁾ E_w is the energy gain for the window in question in the specific size and design and with an average orientation, cf. Appendix 6 of the Danish Building Regulations BR-10.

2.2 Documentation material

For product systems, for which the issue of an energy labelling certificate is required, the application form (Appendix 1) must be accompanied by documentation of the energy data for a one leaf window with operable frame in the European standard size 1,23 x 1,48 m and the standard glazing bar belonging to the product system.

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The documentation must be delivered by a notified body or a body approved by the Energy Labelling Scheme.

- The pane applied shall be the standard pane of the product system.
- The standard glazing bar applied shall be the standard glazing bar of the product system.

The reference window stated above shall form the basis of the energy labelling, which is based on the energy gain – E_{ref} .

Furthermore, the companies shall prove to the inspection body that the specific energy data of the windows can be calculated in a true and fair way.

2.3 Thermal Performance of materials

The material data applied when calculating the thermal attributes of the product system, shall be listed in ***Vinduesindustriens current list of Thermal Performance of materials (Materialedatabasen)***.

2.4 Criteria for Energy Labelling in Energy Classes

For each product system the secretariat of the Energy Labelling Scheme issues a numbered energy labelling certificate provided with the logo of the Scheme.

The labelling is made on the basis of calculation reports from a notified body or a body approved by the Energy Labelling Scheme, and the labelling in energy classes is made according to a scale A-F, which has been agreed with the Danish Energy Agency and which is stated on the energy labelling certificate.

The scale will be reevaluated in 2014.

In product systems which can be energy labelled according to this stipulation, georgian glazing bars are not allowed.

Georgian glazing bars are, however, allowed, if they are required to secure the carrying capacity or as necessary separation between 2 types of panes, typically in case of large window frames with large glass pane areas.

3.0 ISSUING OF CERTIFICATE

3.1 To secure traceability of energy labelled product systems an identification number will be assigned to companies affiliated to the Energy Labelling Scheme.

In addition to the company's identification number all issued energy labelling certificates will be provided with a serial number - *Example:*

<i>Henriks Vinduesfabrik A/S</i>	<i>Reg. no. 500</i>
<i>Certificate for Henrik's Low Energy Windows</i>	<i>Reg. no. 500-1</i>
<i>Certificate for Henrik's Super Windows</i>	<i>Reg. no. 500-2</i>

3.2 Application

Application for affiliation to the Energy Labelling Scheme for façade windows shall be filed by forwarding the following documents:

- Agreement on affiliation to the Energy Labelling Scheme for façade windows, signed by the applicant. The Energy Labelling Scheme shall sign and return the agreement, when the affiliation has been carried out successfully.

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- A completed and signed application form for the product system (Appendix 1) together with the documentation material stated in the application form.

3.3 Processing of the application

The forwarded application material shall be processed by the secretariat of the Energy Labelling Scheme.

In case of lacking or insufficient information, the company will be requested to forward such information as it is necessary for the final processing of the application.

3.4 Affiliation visit to the company

When the application has been finally processed, an affiliation visit to the production site shall be arranged. The visit shall be performed by an impartial certification body, which has been approved by the Energy Labelling Scheme, but chosen by the applicant.

During the inspection visit it shall be verified that the company is manufacturing and marketing windows in accordance with the basis of agreement for the Energy Labelling Scheme.

3.5 Conclusion of an agreement

If no deviations are registered in connection with the forwarded application material and the subsequent inspection visit, the following documents will be sent to the company:

- A signed agreement on the affiliation to the Energy Labelling Scheme for façade windows.
- An energy labelling certificate for the product systems applied for.
- A digital "logo package" with the company's numbered logo.

The issued energy labelling certificates shall be valid for periods of 2 years, as from 01.02.11.

4.0 LABELLING ON PRODUCTS AND MARKETING

4.1 Energy labelled product systems may be marked with the assigned identification number and energy class and the assigned logo.

Owners of energy labelling certificates may use the assigned logo with the company's identification number on packaging and marketing material for energy labelled product systems.

The company's energy labelling certificate with relevant data will be placed on the homepage www.energivinduer.dk.

4.2 Labelling of part components

To avoid unnecessary confusion about the Energy Labelling Scheme, it is not allowed:

- To carry out a separate physical energy labelling of part components (panes, etc).
- To refer to energy labelled part components (panes, etc.) in the offer/order confirmation.

4.3 Traceability

The company shall at any time make sure that there is traceability between certificate, product, company and place of production.

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Traceability is secured through the energy labelling certificate, the manufacturer's information to the customer, the labelling of the specific product and the homepage of the Energy Labelling Scheme.

5.0 EXTERNAL INSPECTION

Once a year the company shall grant the inspection body unrestricted access to the production site and present the requested documentation.

The purpose of the inspection is to verify the stipulations of this agreement and that production and marketing of energy labelled product systems are carried out according to the basis of the agreement.

The time and date for the external inspection shall be mutually agreed between the owner of the energy labelling certificate and the inspection body.

Each visit shall include the following inspection:

- Verification that the window pane data on the energy labelling certificate are in accordance with the company's documentation material (data sheets).

- **The standard window pane:**

In case of a change by the window pane supplier to the standard window pane stated in the energy labelling certificate, the following rule shall apply:

If the E_{ref} and U_w values of the window system exceed the allowed tolerance negatively (-1 kWh/m^2 , $+ 0.05 \text{ W/m}^2\text{K}$), a new ITC calculation must be made and a new energy labelling certificate must be issued.

If the E_{ref} and U_w values of the window system exceed the allowed tolerance positively ($+ 1 \text{ kWh/m}^2$, $- 0.05 \text{ W/m}^2\text{K}$), this shall be allowed.

It shall not be allowed to market a better energy label A-G than the one stated at any time on the applicable energy labelling certificate.

The new thermal values of the window pane must be incorporated in the calculation of the current thermal properties of the units.

In an external inspection the use of a standard window pane shall be checked on the basis of the requirements stated above. When inspecting the companies' computer programmes for calculation of the current thermal properties of the units, the standard window pane stated in the energy labelling certificate shall be used.

- Verification that energy data for the reference window and the standard glazing bar on the energy labelling certificate are in accordance with the calculation report from the notified body or the body approved by the Energy Labelling Scheme.
- Verification that the company is able to calculate the specific energy data of the products for each product system. This is verified by the company making an energy calculation for the reference window during the visit.

The result of the energy calculation shall be in agreement with the result in the calculation report and the information given on the energy labelling certificate within the tolerances stated below:

The energy gain E_w of the window (shall be within ± 1).

The U_w -value of the window (shall be within $\pm 0,05$).

The proportion of glass F_f of the window (shall be within $\pm 0,01$).

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Verification that on offers as well as order confirmations the owner of the energy labelling certificate states the name of the product system, E_{ref} for the product system, the energy class of the product system, reference to the identification number of the product system on the homepage of the Scheme, and E_w , U_w , g_g and the proportion of glass $F_f (A_g/A_w)$ in windows of the specific designs and sizes.

- Verification that the products are manufactured in accordance with the drawing material which forms the basis of the issuing of the energy labelling certificate.
- Verification that glazing bars are not used in energy labelled product systems.
- Verification that there is traceability between the certificate, product, company and place of production.

Immediately after the internal inspection the inspection body shall report on the result to the secretariat of the Energy Labelling Scheme.

If no deviations are registered in connection with the annual external inspection, the secretariat of the Energy Labelling Scheme will automatically update the issued energy labelling certificates in January every second year. First time shall be in January 2013.

6.0 SANCTIONING OF COMPANIES

A company's energy labelling certificate can be withdrawn and the inspection agreement cancelled, if after a written warning from the secretariat of the Energy Labelling Scheme the company continues to act in violation of the basis of this agreement.

The date and time for cancellation of the inspection agreement shall in each individual case be fixed by the secretariat of the Energy Labelling Scheme.

7.0 NOTICE OF TERMINATION OF THE AGREEMENT

A company can cancel its affiliation by written notice forwarded to the Energy Labelling Scheme and the inspection body.

At the notice of termination all valid energy labelling certificates issued shall be returned to the secretariat of the Energy Labelling Scheme.

At the same time the company's certificates are removed from the homepage of the Scheme.

(The agreement was last revised on 10th of September 2015)