



## **EL250. Windows**

### **[EL250-2003/3/2012-126]**

#### **1. Scope**

The criteria shall apply to the window set consisting of fixed window, window and window frame that are used for the outdoor contact side of the building.

#### **2. Definition**

2.1

“Fittings” refers to the general term including the movable parts of window set, door, leaves of window and sliding windows.

2.2

“Fittings frame” refers to what borders on the wall material of aperture on which a window is attached.

2.3

“Surface material” refers to the materials attached on the surface to decorate the constituent materials of product such as sheet film dispersion paper coat paper and patterned wood.

#### **3. Certification Criteria**

##### **3.1 Environmental Criteria**

3.1.1

With respect to the use of chemical substances during the production process, synthetic resin floor material is an additive to resin and shall not use organotin compounds (such as TBT and TPT), lead compound and cadmium compound. In addition, lead (Pb), cadmium (Cd) and mercury (Hg) contained in the product shall satisfy the following requirements.

Harmful Element	lead (Pb)	cadmium (Cd)	mercury (Hg)
Content [mg/kg]	≤ 50	≤ 0.5	≤ 0.5

### 3.1.2

With respect to the energy consumption and noise of product during the use stage, the product shall satisfy the following requirements.

#### 3.1.2.1

The heat insulation and air tightness of a product shall satisfy the following window set standards of the Regulations Regarding the Promotion of High-efficiency Energy Equipment Distribution.

Classification	Until June 30, 2014	On and after July 1, 2014
Consumption efficiency grade	Grade 3 or above	Grade 2 or above

#### 3.1.2.2

The product on which the soundproof capability stipulated in the Korea industry standard, is indicated shall satisfy the requirements of soundproof capability of the relevant Korea industry standard.

#### 3.1.2.3

If the ventilation function is added to the product, the product shall have a structure intercepting the inflow of external substances such as raindrops and dusts.

## 3.2 Quality Criteria

### 3.2.1

If Korean Industrial Standards are available as a national standard of the product in question, it should satisfy the quality or performance criteria of the standard in question. However, items related to “3.1 Environmental Criteria” are excluded.

### 3.2.2

If no Korean Industrial Standards are available as a national standard of the product in question, it should satisfy the quality and performance criteria according to the following sequence. However, the items related to “3.1

Environmental Criteria” are excluded. Also, if the E-Mark Certification Criteria Setting Committee determines that the applying criteria are not reasonable considering the characteristic of the product, it should satisfy the standards that were modified by the committee (test item, test method, standards, etc.).

3.2.2.1 National standards other than Korean Industrial Standards.

3.2.2.2 Overseas national standards or international standards regarding the product quality in question.

3.2.2.3 Standards of the organizations at home and abroad that are referred by the current E-mark target product and certification standard.

3.2.2.4 A private standard that is recognized as higher than the national standard in the industry of the product in question.

### 3.3 Information for Consumers

Indication on the items that the product contributes to the reasons for certification (reduction of harmful substances, energy-saving and sound-proof) during its consumption stage

## 4. Test Methods

Certification Criteria		Test and Verification Methods	
Environmental Criteria	3.1.1	Verification of submitted documents and/or KS M 0016(Directives of atomic absorption analysis), KS M 0032(Directives of spectrometry for emitting high frequency inductively coupled plasma) certificate of equivalent	
	3.1.2	3.1.2.1	Test report by an accredited testing laboratory in accordance with the certification technology standard and measurement method for the window set specified in the Regulations Regarding the Promotion of High-efficiency Energy Equipment Distribution or the certificate of standards equivalent or higher
		3.1.2.2	Test report by the relevant accredited testing laboratory or verification of submitted documents

		3.1.2.3	Verification of submitted documents
Quality Criteria		Test report by the relevant accredited testing laboratory or certificate of equivalent	
Consumer Information		Verification of submitted documents	

#### **4.1 General Matters**

##### 4.1.1

One test sample shall be required for each applied product. Only if more than one test sample is needed, the former requirement may not be met.

##### 4.1.2

Test samples shall be collected at random by a certification institute from products in market or those in storage at the production site.

##### 4.1.3

Test result shall be numerically set according to KS Q 5002 (Statistical interpretation method of the data – Part 1: Statistical description of the data).

#### **5. Reasons for Certification**

“Reduced harmful substances, energy-saving, soundproofing (confined to the product with the relevant function)”

## **Common Criteria, Notice No. 2012-36, the Ministry of Environment**

1. Eco-label products must follow the following provisions with regard to the proper treatment of environmental pollution substances, such as air and water wastes and noxious chemical substances emitted in the process of manufacturing or service operation.

A. When first applying for certification, the product manufacturer should observe the environment related laws and agreements pertaining to the region where the production factory or the place of service operation is located for a period of one year prior to the date of application. Any case of violation of the penalty clause will be verified by confirming documents involved during a period of one year to the date of application. Regarding any violation not related to the penalty clause, confirmation will be made on the completion of appropriate measures.

B. A person who has received a certification of eco-labeling shall observe the environment related laws and agreements pertaining to the region where the production factory or the place of service operation is located during the period of certification. However, regarding any violation besides a penalty, confirmation will be made on the completion of appropriate measures.

2. As a general rule, information for consumers shall be indicated on the surface of the product in such a way not to be easily erased. However, in case that indication on the surface of the product is impossible or undesirable, it can be indicated on the appropriate part such as product packaging, product guidebook and user's manual that consumers can recognize. However, the service information should be indicated inside and outside of the place of service operation. In case that indication inside and outside of the place of service operation is impossible or undesirable, it can be indicated on the appropriate part such as an agreement, letter of delivery, letter of guarantee, and PR materials that consumers can recognize.

3. In order to establish fair trade and to protect consumer, the applicant for eco-label and the holder of eco-label license shall observe the Act on the Fairness of Indication and Advertisement with respect to the environmental aspects of the product.

4. For Various standards referred in the certification criteria by target product, the latest revised edition applies at the date of application, if not specified otherwise.

5. In applying the quality related criteria for each target product, if no standard is available that can be applied as the quality criteria, the president of Korea Environmental Industry & Technology Institute (KEITI) (hereafter referred to as "president of KEITI") may establish and operate the quality criteria for the product involved after review by a competent committee.