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Test method of energy consumption per unit products for laminated glass

夹层玻璃单位产品能耗测试方法

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Test method of energy consumption per unit products for laminated glass

1 Scope

This Standard specifies the statistical classification, statistical period, statistical technical requirements, statistical method and calculation method of energy consumption per unit products for laminated glass.

This Standard applies to the test of energy consumption for the production line of laminated glass with PVB material as the middle layer, which is produced using the autoclave lamination method.

This Standard does not apply to the test of energy consumption for the production line of laminated glass with other materials as the middle layer, which is produced using other methods.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to this document.

GB 15763.3, *Safety glazing materials in building – Part 3: Laminated glass*

GB/T 20840.2, *Instrument transformers – Part 2: Additional requirements for current transformers*

3 Statistical classification

In accordance with the differences in shape, statistics shall be done for plain laminated glass and cambered laminated glass.

4 Statistical period

The laminated glass statistical period for the same laminated glass production line, the

energy consumption of other auxiliary equipment.

When manufacturer has more than 1 laminated glass production lines, do the statistics separately.

6.2 Energy consumption statistics

Select current transformers of an appropriate measuring range according to cable lines; connect the devices for energy consumption statistics correctly. Record the energy consumption displayed on the devices at this moment as W_1 ; after the statistical period, record the energy consumption displayed on the devices, as W_2 .

The energy consumption E_{ij} of the j -th batch of the i -th cable line during the statistical period is calculated according to Equation (1):

$$E_{ij} = W_2 - W_1 \quad \dots\dots\dots (1)$$

where,

E_{ij} – the energy consumption of the j -th batch of laminated glass product of the i -th cable line within the statistical period, in kW · h;

W_1 – the energy consumption displayed on device at the beginning of the statistical period, in kW · h;

W_2 – the energy consumption displayed on device at the end of the statistical period, in kW · h.

When there is more than one cable line of power supply for the cleaning, prestressing equipment and autoclave of the laminated glass product line, do the statistics of the energy consumption of each batch E_{ij} of each cable line at the same time.

6.3 Statistics of yield of laminated glass

For laminated glass product produced in the statistical period, carry out appearance quality inspection as specified in GB 15763.3. When they pass the inspection, record the yield of laminated glass product. If they fail to pass appearance quality inspection, repeat the energy consumption test once again.

The yield P_j of laminated glass of the j -th batch in the statistical period is calculated according to Equation (2):

$$P_j = S_j \times d \times 2.5 \times 10^3 \quad \dots\dots\dots (2)$$

where,

P_j – the yield of qualified laminated glass product of the same thickness and the same

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