

***CRITERIA FOR AWARDING THE ENERGY SAVING
PROCEL SEAL TO CEILING FANS**

***CRITERIA FOR AWARDING THE ENERGY SAVING
PROCEL SEAL TO TABLE FANS**



PROCEL / ELETROBRAS

PFD – DEPARTMENT OF ENERGY EFFICIENCY DEVELOPMENT

CRITERIA FOR AWARDING THE ENERGY SAVING PROCEL SEAL TO CEILING FANS

(DOCUMENT COMPLEMENTARY TO THE REGULATION FOR AWARDING
THE ENERGY SAVING PROCEL SEAL)

**(Review – I)
August 25th, 2010**



ELETROBRAS /PROCEL

PFD – DEPARTMENT OF ENERGY EFFICIENCY DEVELOPMENT



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1 Introduction

This document is complementary to the "Regulation for Awarding the Energy Saving Procel Seal", which may be accessed on the Procel website (www.procelinfo.com.br). Its goal is to define the criteria that shall be met by **ceiling fans** in order to earn the Energy Saving Procel Seal.

2 Evaluation of product characteristics

The mechanism for evaluating the conformity of ceiling fans covered by this regulation is the labeling, through the Brazilian Labeling Program – PBE, coordinated by the National Institute of Metrology, Quality, and Technology - Inmetro, in partnership with Eletrobras Procel.

The product applying for the Procel Seal shall be subjected to the necessary certification stages for the approval to use the National Energy Conservation Label - ENCE¹, described in the current document "Conformity Evaluation Requirements (RAC) for Ceiling Fans" of the Brazilian Labeling Program - PBE, published on the Inmetro website (www.inmetro.gov.br).

The reference labs to perform the tests, the respective sampling, the testing and the allowed tolerances for the results are the ones detailed in the document cited in the previous paragraph.

3 Criteria for awarding the Procel Seal

The manufacturer / importer who intends to make use of the Procel Seal on an equipment model of his manufacturing line (or imported model) shall prove, through the tests prescribed in the document "RAC for Ceiling Fans" of the Brazilian Labeling Program – PBE, that the referred model meets the following minimum specifications.

¹ ENCE – Its goal is to inform the energy consumption and /or energy efficiency of equipment. Its use is subject to the authorization by Inmetro.

3.1 Energy efficiency rating

The ceiling fan shall obtain **class "A"** rating on the National Energy Conservation Label – ENCE, in the energy efficiency criterion simultaneously at the high, medium, and low speeds, for models with these three speeds. If the model has a single speed, it shall also obtain **class "A"** rating on the ENCE at this speed.

3.2 Results confirmation

After finishing the tests, the manufacturer/importer shall send to Eletrobras Procel the Technical Specifications Worksheet (PET) and the Test Report of the model, or shall authorize the reference lab to do so. The submission may be made by email.

4 Re-evaluation of product characteristics

Each year Eletrobras Procel will promote the re-evaluation of the ceiling fans with the Procel Seal, in order to verify whether their electrical safety and performance characteristics remain valid for the maintenance of the authorized use of the Seal. This verification will be performed through the Production Monitoring stage, proposed in the current document "RAC for Ceiling Fans" of the Brazilian Labeling Program – PBE, published on the Inmetro website (www.inmetro.gov.br).

**CRITERIA FOR AWARDING THE ENERGY SAVING PROCEL SEAL TO
TABLE FANS**

(DOCUMENT COMPLEMENTARY TO THE REGULATION FOR AWARDING
THE ENERGY SAVING PROCEL SEAL)

(Review – I)

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1 Introduction

This document is complementary to the "Regulation for Awarding the Energy Saving Procel Seal", which may be accessed on the Procel website (www.procelinfo.com.br). Its goal is to define the criteria that shall be met by **table fans** in order to earn the Energy Saving Procel Seal.

2 Evaluation of product characteristics

The mechanism for evaluating the conformity of table fans covered by this regulation is the labeling, through the Brazilian Labeling Program - PBE, coordinated by the National Institute of Metrology, Quality, and Technology - Inmetro, in partnership with Eletrobras Procel.

The product applying for the Procel Seal shall be subjected to the necessary certification stages for the approval to use the National Energy Conservation Label - ENCE¹, described in the current document "Conformity Evaluation Requirements (RAC) for Table Fans" of the Brazilian Labeling Program - PBE, published on the Inmetro website (www.inmetro.gov.br).

The testing, the respective sampling and the allowed tolerances for the results are the ones detailed in the document cited in the previous paragraph.

3 Criteria for awarding the Procel Seal

The manufacturer/importer who intends to make use of the Procel Seal on an equipment model of his manufacturing line (or imported model) shall prove, through the tests prescribed in the document "RAC for Table Fans" of the Brazilian Labeling Program - PBE, that the referred model meets the following minimum specifications:

¹ ENCE - Its goal is to inform the energy consumption and/or energy efficiency of equipment. Its use is subject to the authorization by Inmetro.

3.1 Energy efficiency rating

The table fan shall obtain **class "A"** rating on the National Energy Conservation Label – ENCE, in the energy efficiency criterion at all available speeds.

4 Results confirmation

After finishing the tests, the manufacturer/importer shall send to Eletrobras Procel the Technical Specifications Worksheet (PET) and the Test Report of the model, or shall authorize the reference lab to do so. The submission may be made by email.

5 Re-evaluation of product characteristics

Each year Eletrobras Procel will promote the re-evaluation of the table fans with the Procel Seal, in order to verify whether their electrical safety and performance characteristics remain valid for the maintenance of the authorized use of the Seal. This verification will be made preferably through the Production Monitoring stage, proposed in the document "RAC for Table Fans" of the Brazilian Labeling Program – PBE, published on the Inmetro website (www.inmetro.gov.br).