

# Linear (tubular) fluorescent lamps

## How to meet energy efficiency regulation requirements

Linear (tubular) fluorescent lamps sold or hired in New Zealand must, by law, comply with [minimum energy performance standards \(MEPS\)](#). This document outlines the requirements and how to meet them if you import or manufacture linear fluorescent lamps in New Zealand. ([Ballasts for fluorescent lamps](#) are also subject to MEPS.)

### Why have MEPS for linear fluorescent lamps?

Minimum energy performance standards (MEPS) improve the efficiency of linear fluorescent lamps, saving customers on running costs and reducing greenhouse gas emissions over the life of the product.

### Which linear fluorescent lamps are included?

MEPS covers double-capped (FD and FDH) linear fluorescent lamps that:

- have a nominal length from 550 mm to 1500 mm (inclusive),
- have a nominal lamp power (wattage) of 16 Watts or more, and
- are within the scope of **AS/NZS4782.1**.

### What do I need to do to comply with the law?

**Importers and manufacturers of linear fluorescent lamps, are required to:**

- [Step-1](#) Ensure each lamp model has been tested to **AS/NZS 4782.1:2004** and meets or exceeds the minimum energy performance levels specified in **AS/NZS 4782.2:2004**.
- [Step-2](#) Energy Rating Labelling: **N/A**
- [Step-3](#) Register each lamp model through the energy rating website.
- [Step-4](#) Provide EECA with product sales, import and export data each year.

**Retailers are required to** check their products are registered on the [energy rating website](#).

See the questions and answers below for more information

## Which linear fluorescent lamps are excluded?

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MEPS does **not** apply to the following specialised linear fluorescent lamps that are clearly **not** intended for general illumination, specifically;

- lamps with dominant colour or output predominately outside the visible spectrum,
- lamps for colour matching and that have a colour rendering index greater than 90 and a colour appearance approximating to a point on the black body locus,
- lamps that are specifically for use in an industrial or agricultural process,
- lamps for medical applications,
- lamps with written exemption by regulator as they are for a specific purpose other than; and clearly distinguishable from; general illumination lamps, or
- lamps designed specifically for use in flame-proof luminaries.

## Which standards apply?

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**AS/NZS 4782.2:2004:** Double-capped fluorescent lamps—Performance specifications—Minimum Energy Performance Standard (MEPS).

**AS/NZS 4782.1:2004:** Double-capped fluorescent lamps—Performance specifications—General.

Standards are available for purchase from [www.standards.co.nz](http://www.standards.co.nz) and for inspection at [EECA's head office](#).

## How are energy levels calculated for linear fluorescent lamps?

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The efficacy in lumens per Watt (lm/W) of the tubular fluorescent lamp is measured using a reference ballast. The initial efficacy ( $F_{100}$ ), maintained efficacy ( $F_M$ ) and minimum colour rendering index (CRI) shall meet the requirements in **AS/NZS 4782.2:2004 Table 1**.

## How do I register a linear fluorescent lamp on the energy rating website?

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If the linear fluorescent lamp you are about to register is already registered you are not required to register it. To check, search for the model at:

[reg.energyrating.gov.au/comparator/product\\_types](http://reg.energyrating.gov.au/comparator/product_types).

If it is not already registered download our quick start guide at:

[www.eeca.govt.nz/resource/online-product-registration-guide](http://www.eeca.govt.nz/resource/online-product-registration-guide).

If you haven't used the [energyrating.gov.au](http://energyrating.gov.au) website before, follow these instructions:

**Step 1** Open the registration page: [reg.energyrating.gov.au/accounts/register](http://reg.energyrating.gov.au/accounts/register).

**Step 2** Create an account and log in.

**Step 3** Create an applicant, add contact people etc. as required.

**Step 4** Create a new product registration (you will need a test report).

**Step 5** Select 'Linear Fluorescent Lamp (LA)'.

**Step 6** Follow the steps until all fields are complete.

**Step 7** Once submitted you will be e-mailed a Registration ID. Record this as you will need it to provide sales data each year.

Note: A range of linear fluorescent lamps models, manufactured in multiple styles, may be registered as a product "family" if the family definition (below) is met.

### **What is a family of models?**

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A range of linear fluorescent lamp models of one brand, for which a single set of test reports is applicable and where each of the models has the same relevant physical characteristics, efficacy, and performance characteristics, including colour rendering index.

### **What information do I need to provide to EECA each year and how do I do it?**

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Importers and manufacturers are required, by law, to provide statistical information on sales, import and export data annually to EECA.

Data needs to be submitted every year by 1 August, for the period 1 April to 31 March. For example, data from 1 April 2013 to 31 March 2014 must be received by 1 August 2014. The information is submitted through the EECA website where you need to:

**Step 1** Set up a user account at [www.eeca.govt.nz/webform/request-user-account](http://www.eeca.govt.nz/webform/request-user-account).

**Step 2** Once approved, log in at [www.eeca.govt.nz/user/register/supplier/login](http://www.eeca.govt.nz/user/register/supplier/login).

**Step 3** When logged in follow the links and instructions for the EECA sales data return tool.

**Step 4** Enter your product data - you will need your Registration ID number - the following information is required for each registered model:

- Sales in New Zealand between 1 April and 31 March.
- Imports into New Zealand between 1 April and 31 March.
- Exports from New Zealand between 1 April and 31 March.

### **Where do I get additional information?**

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More information about regulated products and how to meet your legal obligations can be found at [www.eeca.govt.nz/product-standards](http://www.eeca.govt.nz/product-standards).

See the [running costs calculator](#) to find out how choosing a higher star rating can reduce the running costs of products.

There is also information on the energy rating website at [www.energyrating.gov.au](http://www.energyrating.gov.au).

If you have any questions, please email us at [compliance@eeca.govt.nz](mailto:compliance@eeca.govt.nz), or phone EECA on **0800 358 676**.