



# Space Conditioning and Water Efficiency Product Application Guide

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# Introduction

Products which are listed on our Register of Products is eligible to be installed, and able to create Victorian energy efficiency certificates (VEECs) once installed in eligible environments, under the Victorian Energy Upgrades program. This guide provides product applicants with guidance on how to apply for space conditioning and water efficiency products to be listed on our Register of Products.

## About this guide

This guide provides product applicants (whether they be accredited persons (APs), product manufacturers or other stakeholders) with instructions and our documentation requirements for applying for a space conditioning and water efficiency products to be listed on our Register of Products.

The product categories which are covered by this guide are:-

- Space Conditioning Products:
  - Product category 12: Underfloor Insulation
  - Product category 13: Double Glazed Window
  - Product category 14: Thermally Efficient Window Product
  - Product category 28: Gas Heating Ductwork
- Water Efficiency Products:
  - Product category 17: Low Flow Shower Rose
  - Product category 36: Water Efficient Prerinse Spray Valve

This guide is divided into two sections:

- Section 1 provides general information on how to use our product criteria and evidentiary tables
- Section 2 provides details of the documentary evidence required for space conditioning products.
- Section 3 provides details of the documentary evidence required for water efficiency products.

This guide must be read in conjunction with our Application Guide for Product Applicants which provides product applicants with information on:

- our Register of Products
- our product application and assessment process, including things to bear in mind throughout the process

- some product application functionality.

## Who should use this guide

You should use this guide if you are

- seeking to apply for lighting products to be listed on our Register of Products under the Victorian Energy Upgrades program.
- interested in understanding the product application requirements for lighting products under the VEU program.

You will need to hold a VEU account in order to apply for listing of products under the program. A link to create a new VEU account can be found at [www.esc.vic.gov.au/veu-become-accredited](http://www.esc.vic.gov.au/veu-become-accredited)

## Register of Products

We are required by the VEET Regulations to maintain a register of energy saving products that, if listed in the register, products may be installed under a prescribed activity to enable the creation of Victorian energy efficiency certificates (VEECs).

To be listed on our Register of Products, a product must be capable of performing to the minimum criteria specified in the relevant activity of the VEET Regulations.

The Register of Products is published at [www.veu-registry.vic.gov.au/register-products](http://www.veu-registry.vic.gov.au/register-products). The register provides businesses accredited to participate in the Victorian Energy Upgrades (VEU) program with a list of products that may be installed for each relevant prescribed activity. The register includes functionality for users to refine their search based on product brand, model, performance specifications, application status and effective date. The register also allows users to export the register for external reference.

APs are not required to submit applications to install products that are already listed on the Register of Products.

APs should note that we must remove a product from the Register of Products if we are satisfied the product does not meet the product criteria listed in the VEET Regulations and/or the minimum energy efficiency requirements in the VEU specifications.

We may remove a product if Energy Safe Victoria gives us written notice that a product is unsafe. We may remove or modify a product listing in the register further to a request from stakeholders – see Section 3.2 of the Application Guide for Product Applicants.

Upon its removal from the register, installations involving that product will not be eligible for the creation of VEECs.

All users of the Register of Products should familiarise yourselves with the terms and conditions of listing a product on the register and the VEU Registry disclaimer (see <http://www.veu-registry.vic.gov.au/>).

## Seeking assistance

We appreciate the time and effort that businesses put into their applications and product officers will endeavour to work with you during the assessment process. If you encounter difficulties preparing your application, the commission website should be your starting point. If your question remains unanswered, or if you encounter technical difficulties with the portal, contact VEU support on (03) 9032 1310 or [veu@esc.vic.gov.au](mailto:veu@esc.vic.gov.au)

If you have submitted a product application, please use the designated 'notes' field in the online product assessment tool to communicate directly with the product officer responsible for assessing your application.

## Legal context for this guide

We have prepared this guide as a general summary of relevant parts of:-

1. Victorian Energy Efficiency Target Act 2007 (the Act)
2. Victorian Energy Efficiency Target Regulations 2018 (the VEET Regulations)
3. Victorian Energy Upgrades Specifications 2018 (the VEU specifications)
4. Victorian Energy Efficiency Target Guidelines (the guidelines)

All above legislative documents are available at [www.esc.vic.gov.au/veu-legislation](http://www.esc.vic.gov.au/veu-legislation)

This guide should not be relied upon as substitute for legal advice and should be read in conjunction with the above source documents. In the event of inconsistency between this guide and the source documents, the content in the source documents apply.

# 1. Our product criteria and evidentiary tables

Sections 2 and 3 of this document details:

- the program's minimum product performance requirements,
- the product's eligibility criteria
- the program's evidentiary requirements

for each product category that must be submitted to us in support of your application to have a product listed on the Register of Products.

Each table corresponds to the relevant product category to which the product belongs and lists the minimum requirements and the documentary evidence that must be submitted to demonstrate compliance.

For most of the product categories listed below, you will be required to submit an independent third party verification of the product performance against established safety and performance standards, such as a test report from an accredited laboratory.

The capacity of a product to perform to specified standards is a requirement of listing on the Register of Products and the valid creation of Victorian energy efficiency certificates (VEECs). We do not accept deviations from the listed standards. If you are unable to provide sufficient evidence that a product is capable of meeting the minimum criteria, the product will not be approved.

## 2. Product performance and documentation requirements for space conditioning products

### 2.1. Product Category 12: Underfloor insulation

Product category number	Product category	Product criteria	Documentary evidence
12	Under floor insulation	<p>A product, or products when installed together,</p> <ul style="list-style-type: none"> <li>• that complies (or together comply) with AS/NZS 4859.1 performance requirements once installed</li> <li>• achieves a minimum Winter value of R2.5, determined in accordance with AS/NZS 4859.1.</li> </ul>	Test report by a NATA accredited laboratory or equivalent body showing compliance with the product criteria.

### 2.2. Product Category 13: Double glazed window

Product category number	Product category	Product criteria	Documentary evidence
13	Thermally efficient window	<p>A glazing product that:-</p> <ul style="list-style-type: none"> <li>• complies with of AS 2047—1999 and AS 1288—2006 performance requirements</li> <li>• has a total U-value of not more than 4</li> <li>• is WERS rated and labelled to a minimum of 4 stars for heating.</li> </ul>	WERS product certificate or screenshot of listing on the WERS <sup>1</sup> website demonstrating compliance with the product criteria.

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<sup>1</sup> \*Window Energy Rating Scheme. A list of WERS rated products can be found at [www.wers.net](http://www.wers.net).



## 2.3. Product Category 14: Thermally efficient window product

Product category number	Product category	Product criteria	Documentary evidence
14	Installation of product on single glazed window	A product that raises the thermal efficiency of the single glazed window it is installed onto and when installed creates a still air gap between it and the single glazed window.	<ul style="list-style-type: none"> <li>WERS product certificate or screenshot of listing on the WERS2 website demonstrating compliance with the product criteria, or</li> <li>Independent third party assessment – to be approved by us.</li> </ul>

## 2.4. Product Category 15: Weather sealing

Product category number	Product category	Product criteria	Documentary evidence
15A	Door seal	<p>Door sealing or weather stripping product(s) installed to frame of, or each edge of, an external door in accordance with the manufacturer's instructions so it restricts airflow around the entire perimeter of the door and which:</p> <ul style="list-style-type: none"> <li>does not impair normal operation of the door</li> <li>is covered by warranty against defects for at least 2 years.</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product, or combination of products, is fit for purpose</li> <li>Manufacturer's declaration stating the type(s) of doors on which the product could be installed</li> <li>Product specification sheet(s) that include diagrams or photographs</li> <li>Installation instructions</li> <li>Warranty for each product.</li> </ul> <p>Note: When applying for combination products, applicants should enter:-</p> <ul style="list-style-type: none"> <li>the brands and model numbers of all products into the 'brand' and 'model' fields using the format: 'brand; brand; brand' and 'model; model; model'.</li> </ul>

<sup>2</sup> \*Window Energy Rating Scheme. A list of WERS rated products can be found at <http://www.wers.net>

Product category number	Product category	Product criteria	Documentary evidence
			<ul style="list-style-type: none"> <li>enter the brands, model numbers and component type (e.g. bottom door seal) of each product into the 'product combination' field using the following example format:               <ul style="list-style-type: none"> <li>brand model (bottom door seal)</li> <li>brand model (door frame seal).</li> </ul> </li> </ul>
15B	Window frame seal	<p>Window sealing or weather stripping product(s) installed to frame of, or each edge of, an external window in accordance with the manufacturer's instructions so it restricts airflow around the relevant edges of the window and which:</p> <ul style="list-style-type: none"> <li>does not impair normal operation of the window</li> <li>is covered by warranty against defects for at least 2 years.</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product, or combination of products, is fit for purpose</li> <li>Manufacturer's declaration stating the type of window(s) on which the product could be installed</li> <li>Product specification sheet(s) that include diagrams or photographs</li> <li>Installation instructions</li> <li>Warranty for each product.</li> </ul> <p>Note: When applying for combination products, applicants should enter:-</p> <ul style="list-style-type: none"> <li>the brands and model numbers of all products into the 'brand' and 'model' fields using the format: 'brand; brand; brand' and 'model; model; model'.</li> <li>enter the brands, model numbers and component type (e.g. bottom door seal) of each product into the 'product combination' field using the following example format:               <ul style="list-style-type: none"> <li>brand model (bottom door seal)</li> <li>brand model (door frame seal).</li> </ul> </li> </ul>

Product category number	Product category	Product criteria	Documentary evidence
15C	Self-sealing exhaust fan	<p>Ceiling or wall exhaust fan that</p> <ul style="list-style-type: none"> <li>is installed in accordance with the manufacturer's instructions and in place of the decommissioned fan</li> <li>expels air either outside or into the roof space of the premises</li> <li>is fitted with a self-closing damper, flap, filter or other sealing product that allows airflow through the exhaust of the fan when the fan is operating, but restricts airflow when the fan is not operating</li> <li>is covered by warranty against defects for at least 2 years.</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product is fit for purpose</li> <li>Product specification sheet that includes diagrams or photographs</li> <li>Installation instructions</li> <li>Product warranty.</li> </ul>
15D	Sealing existing fan	<p>A self-closing damper, flap, filter or other sealing product on a ceiling or wall exhaust fan that expels air either outside or into the roof space of the premises and on which no such product is already installed that:</p> <ul style="list-style-type: none"> <li>is installed in accordance with the manufacturer's instructions</li> <li>when installed, allows airflow through the exhaust of the fan when the fan is operating and restricts airflow when the fan is not operating</li> <li>is covered by warranty against defects for at least 2 years.</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product is fit for purpose</li> <li>Product specification sheet that includes diagrams or photographs</li> <li>Retrofit installation instructions</li> <li>Product warranty.</li> </ul>
15E	Wall vent seal	<p>A product made of robust non-shrinking sealing material in an unsealed wall vent with the result that a ventilation opening in an external wall is sealed or closed that:</p> <ul style="list-style-type: none"> <li>is installed in accordance with the manufacturer's instructions</li> <li>is covered by warranty against defects for at least 2 years.</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product is fit for purpose and that it is made of robust, non-shrinking material</li> <li>Product specification sheet that includes diagrams or photographs</li> <li>Installation instructions</li> <li>Product warranty.</li> </ul>

Product category number	Product category	Product criteria	Documentary evidence
15F	Permanent chimney or flue seal	<p>A product that is permanently installed to an unsealed chimney or flue of a fireplace to which no such product is already installed and:</p> <ul style="list-style-type: none"> <li>• when fitted to a chimney or flue of an open fireplace used to burn solid fuel</li> <li>• restricts the airflow into or out of the chimney or flue when closed</li> <li>• allows the fireplace to operate safely and effectively when open</li> <li>• is designed to be installed permanently</li> <li>• is installed in accordance with the manufacturer's instructions</li> <li>• is covered by warranty against defects for at least 5 years</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturer's declaration stating that the product is fit for purpose and that the product is non-flammable</li> <li>• Product specification sheet that includes diagrams or photographs</li> <li>• Installation instructions</li> <li>• Product warranty.</li> </ul>
15G	Temporary chimney or flue seal	<p>A product that is installed to an unsealed chimney or flue of a fireplace to which no such product is already installed and:</p> <ul style="list-style-type: none"> <li>• is not a chimney or flue balloon</li> <li>• when fitted to a chimney or flue of an open fireplace used to burn solid fuel when closed restricts the airflow into or out of the chimney or flue</li> <li>• is designed to be installed on a temporary or seasonal basis</li> <li>• is installed in accordance with the manufacturer's instructions and with signage that has instructions for removal of the product</li> <li>• is covered by warranty against defects for at least 2 years</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturer's declaration stating that the product is fit for purpose</li> <li>• Product specification sheet that includes diagrams or photographs</li> <li>• Installation and removal instructions</li> <li>• Product warranty.</li> </ul>

Product category number	Product category	Product criteria	Documentary evidence
15H	Evaporative cooler outlet seal	<p>A product that is installed so it covers the ceiling outlet of a ducted evaporative cooling system to which no such product is already installed and:</p> <ul style="list-style-type: none"> <li>restricts airflow from inside the residential premises into the evaporative cooling ductwork</li> <li>is designed to be installed on a temporary or seasonal basis</li> <li>is installed in accordance with the manufacturer's instructions</li> <li>comes with instructions regarding its installation and removal and the time of the year that the product should be installed and removed</li> <li>is covered by warranty against defects for at least 2 years</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturer's declaration stating that the product is fit for purpose</li> <li>Product specification sheet that includes diagrams or photographs and compatible cooler outlet sizes</li> <li>Installation and removal instructions that include when the product should be installed and removed</li> <li>Product warranty.</li> </ul>

## 2.5. Product Category 28: Gas heating ductwork

Product category number	Product category	Product criteria	Documentary evidence
28A	Flexible ductwork that is connected to a ducted gas heater	<p>Flexible ductwork that:</p> <ul style="list-style-type: none"> <li>is certified by an approved laboratory as complying with AS 4254.1 and is labelled in accordance with that standard</li> <li>is insulated using bulk insulation that is certified by an approved laboratory as complying with AS/NZS 4859.1</li> <li>is constructed and installed in accordance with AS 4254.1 and uses fittings that</li> <li>if installed in a class 1 or 10 Building, achieves at least the R-value specified by Table 3.12.5.2 of Volume Two of the BCA</li> <li>if installed in a class 2 to 9 Building, achieves the minimum total R value specified by Specification</li> </ul>	<p>Test report by a NATA accredited laboratory or equivalent body demonstrating compliance with the product criteria</p>

Product category number	Product category	Product criteria	Documentary evidence
		J5.2b of Volume One of the BCA	
28B	Rigid ductwork that is connected to a ducted gas heater	<p>Rigid ductwork that:</p> <ul style="list-style-type: none"> <li>• is certified by an approved laboratory as complying with AS 4254.2</li> <li>• is insulated using bulk insulation that is certified by an approved laboratory as complying with AS/NZS 4859.1</li> <li>• is longitudinally labelled at intervals of no more than 1.5 meters in characters that are clearly legible and at least 18mm high and state the duct manufacturer's or assembler's name, the diameter of the duct core, the R-value of the bulk insulation and whether the ductwork complies with AS 4254.2</li> <li>• is constructed and installed in accordance with AS 4254.2 and uses fittings that</li> <li>• if installed in a class 1 or 10 Building, achieves at least the R-value specified by Table 3.12.5.2 of Volume Two of the BCA</li> <li>• if installed in a class 2 to 9 Building, achieves the minimum total R value specified by Specification J5.2b of Volume One of the BCA</li> </ul>	Test report by a NATA accredited laboratory or equivalent body demonstrating compliance with the product criteria

## 3. Product performance and documentation requirements for water efficiency products

### 3.1. Product Category 17: Low flow shower rose

Product category number	Product category	Product criteria	Documentary evidence
17	Low flow shower rose	A shower rose that: <ul style="list-style-type: none"> <li>• complies with AS/NZS 3662:2005</li> <li>• achieves 3 stars and a flow rate of range E, determined in accordance with AS/NZS 6400</li> </ul>	WELS <sup>3</sup> certificate demonstrating compliance with the product criteria

### 3.2. Product Category 36: Water efficient pre-rinse spray valve

Product category number	Product category	Product criteria	Documentary evidence
36	Water efficient pre-rinse spray valve	A pre-rinse spray valve that: <ul style="list-style-type: none"> <li>• is described as “tap equipment” in the Water Efficiency Labelling and Standards Determination 2013 (No. 2) made under the Water Efficiency Labelling and Standards Act 2005 (Cth)</li> <li>• is rated as having a minimum 6 star water efficiency rating when assessed and labelled in accordance with AS/NZS 6400:2005 reissued in June 2011.</li> </ul>	WELS <sup>4</sup> certificate demonstrating compliance with the product criteria

<sup>3</sup> \* WELS = Water Efficiency and Labelling Standards. WELS certificates can be downloaded by following the links at [www.waterrating.gov.au](http://www.waterrating.gov.au).

<sup>4</sup> \* WELS = Water Efficiency and Labelling Standards. WELS certificates can be downloaded by following the links at [www.waterrating.gov.au](http://www.waterrating.gov.au).

# Glossary

Term	Definition
Accredited body	In relation to a product, this means a body accredited under the Joint Accreditation System of Australia and New Zealand to give product certification or component certification of a product.
AP	An accredited person is a business that has been accredited by the commission to operate within the VEU Program. An AP is entitled to create VEECs through the undertaking of energy efficient activities which are prescribed under the VEET Regulations.
Approved laboratory	Means a laboratory that is accredited by the National Association of Testing Authorities under a mutual recognition agreement.
Business/non-residential premises	Under the VEU Program, business/non-residential premises are defined as: (i) the premises that is not registered as a residential premises (see definition below), and (ii) the premises not registered as a 'scheduled activity premises' unless it has been 'opted in' to the VEU Program pursuant to Regulation 10AA of the VEET Regulations.
COP	Coefficient of performance is the ratio of a product's rated heating capacity to its effective power input at its rated heating capacity.
DNSP	Distribution network service provider
Equivalent body	A testing body recognised by NATA under a mutual recognition agreement.
IPART	Independent Pricing and Regulatory Tribunal of New South Wales, the administrator of the New South Wales' Energy Savings Scheme.
NATA	National Association of Testing Authorities
RCM	Regulatory Compliance Mark
Residential premises	A building classified under part A3 of the Building Code of Australia as a class 1, 2, 3, or 4 building.
RFI	Request for further information
R-Value	The thermal resistance ( $m^2K/W$ ) of a component calculated by dividing its thickness by its thermal conductivity.
Total U-Value	The thermal transmittance ( $W/m^2K$ ) of the composite element allowing for the effect of any airspace and associated surface resistances.



Term	Definition
VEEC	Victorian Energy Efficiency Certificate. Each VEEC represents one tonne of carbon dioxide equivalent (CO <sub>2</sub> -e) abated by the prescribed activity.
WELS	Water Efficiency and Labelling Standards
WERS	Window Energy Rating Scheme managed by the Australian Window Association.

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