

## PRODUCT

<b>Designated Building Product</b>	Class 1	<b>Manufacture Location</b>	New Zealand
<b>Name</b>	Escea TFS650 Wood Fireplace	<b>Legal and Trading Name of Manufacturer</b>	Escea Ltd
<b>Line</b>	Escea Indoor Wood Fireplaces	<b>Manufacturer Address for Service</b>	17 Carnforth St, Dunedin 9018
<b>Identifier</b>	Escea TFS650 Wood Fireplace	<b>Manufacturer Website</b>	<a href="https://www.escea.com/nz/">https://www.escea.com/nz/</a>
		<b>Manufacturer Email</b>	info@escea.com
		<b>Manufacturer Phone Number</b>	(03) 478 8220
		<b>Manufacturer NZBN</b>	9429036562480

## DECLARATION

Escea Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations.

## PRODUCT DESCRIPTION

The TFS650 Wood Fireplace is a free-standing, slow combustion, solid fuel fireplace intended for indoor use. This freestanding wood burning fireplace contains a glass fronted, mild steel firebox with a 450mm log width capacity, and a steel surround which provides radiant heat. Suitable for heating rooms up to 150m<sup>2</sup> in volume. The flue system comprises a direct vent system, where combustion air is drawn from the exterior of the building and is pre-warmed before entering the firebox. This lowers flue temperatures and increases overall room efficiency.

Damper control for the supply of air to the firebox, during operation and refueling, forms part of the fixed components to the exterior of the Fireplace.

The TFS650 is intended for rural installations where compliance with NES Air Quality standards is not required.

Tested to *AS/NZS2918.2001 Appendix B and Appendix F*, for clearance to combustibles.

## SCOPE OF USE

The TFS650 Wood fireplace is intended to be used within residential dwellings, and small commercial premises. It is capable of heating spaces up to 150m<sup>2</sup> in floor area (subject to specific building design). Ideally such spaces should be open plan areas, to maximise the free flow of heated air throughout.

This fireplace is intended to be installed upon a non-combustible plinth or structure, with a fully non-combustible floor or hearth below. Hearth dimensions should be in accordance with the manufacturer's instructions.

The flue pathway should be located directly above the fireplace, within minimal offsets to ensure adequate flue draw. Flue diameter internally is 200mm.

The TFS650 is intended for rural installations only, where compliance with NES Air Quality standards is not required.

## CONDITIONS OF USE

TFS650 wood fireplace must be installed to *AS/NZS2918* and the manufacturer's instructions. These instructions are supplied with the fireplace and can be downloaded from the Escea Website: [www.escea.com/nz/service-and-technical/fireplace-specifications](http://www.escea.com/nz/service-and-technical/fireplace-specifications).

This fireplace must be operated with an Escea proprietary flue kit and components.

The product should be installed by an experienced wood fireplace installer or a member of NZ Home Heating Association.

## SUPPORTING DOCUMENTATION

The following additional documentation supports this declaration.

<b>Escea TFS650-1000 Installation Manual</b> (Design, Installation, Maintenance, Warranty)	630592_4	<a href="https://www.escea.com/nz/service-and-technical/fireplace-specifications/">https://www.escea.com/nz/service-and-technical/fireplace-specifications/</a>
<b>Escea TFS650 Builders and Architect Information Sheet</b> (Design, Installation)	630658_3	<a href="https://www.escea.com/nz/service-and-technical/fireplace-specifications/">https://www.escea.com/nz/service-and-technical/fireplace-specifications/</a>

## RELEVANT BUILDING CODE CLAUSES

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**B2 Durability** - B2.3.1 (b)

**C2 Prevention of Fire Occurring** - C2.2, C2.3

**F2 Hazardous Building Materials** - F2.3.1

**G4 Ventilation** - G4.3.3 (i), G4.3.5

**G9 Electricity** - G9.3.1

## CONTRIBUTIONS TO COMPLIANCE

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B2 Durability

Escea TFS650 complies with *NZBC B2.3.1 (B)* having a durability of 15 years when installed and operated in accordance with the manufacturer's instructions, and not exposed to moisture.

Regular maintenance as indicated within the manufacturer's instructions, will allow for failure to be detected for hidden components, such as flue systems.

C2 Prevention of Fire Occurring

Escea TFS650 has been tested to, and complies with *AS/NZS2918, Appendix B* and *Appendix F*. Installation following the manufacturer's instructions, will ensure compliance with *NZBC Acceptable Solution C/AS1*, for clearances to combustible materials.

F2 Hazardous Building Materials

Escea TFS650 Wood Fireplace is inert and safe when handled.

The fireplace must be installed with a flue system fixed and operational. There are no requirements for this product for compliance with *NZBC Acceptable Solution F2/AS1*.

G4 Ventilation

Escea TFS650 Wood Fireplace must be installed with a flue system fixed and operational, and the fireplace operated with the door closed. This ensures that products of combustion are removed from a building and conforming to *NZBC Clause G4.3.3 (i)*.

The Escea TFS650 Wood Fireplace is a direct vent fireplace taking combustion air from outside the building. No ventilation of the building is required to compensate for combustion air removal. Additional room ventilation is required for the flue system as it passes through a roof or wall. This is provided by windows or other openings with a net open-able area of 5% of the floor area of the space, to conform with *Acceptable Solution G4/AS1 Sec. 1.3.2*.

G9 Electricity

Escea TFS650, uses an integrated fan to distribute heated convection air. This electrical component is tested to, and complies with, *AS/NZS 60335.2.102 Schedule 4, Report No. 8448*. This complies with the *Electrical (Safety) Regulations 2010*, which forms the Verification Method for *NZBC G9/VM1*.

## RESPONSIBLE PERSON

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As the responsible person as set out in Regulation 3, I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of my knowledge, correct.

I can also confirm that Escea TFS650 Wood Fireplace is not subject to a warning on ban under s26 of the Building Act.

Signed for and on behalf of Escea Ltd:

**James Fisher**

Chief Innovation Officer - Escea Fireplace Company

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