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**PREPARED FOR**

**ATELIERS DOMINIQUE IMBERT**



**THERMAL CLEARANCE TESTING OF THE FILIOFOCUS 2000  
CENTRAL SUSPENDED FIREPLACE**

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## Revision Details

| Revision | Date      | Comments                                                                    |
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| 0        | 8/05/2025 | Preliminary report – awaiting payment and engineering drawings of appliance |
|          |           |                                                                             |

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## THERMAL CLEARANCE TESTING OF THE FILIOFOCUS 2000 CENTRAL SUSPENDED FIREPLACE

### Report

The Filiofocus 2000 Central Suspended fireplace/Flue combination was tested in one position in a manner conforming to joint Australian/New Zealand Standard 2918:2018, Appendix B.

A minimum 1305mm deep x 1305mm wide x 150mm thick floor protector (Skamol board) should be used under and in front of the appliance base when installing the appliance (see joint AS/NZS 2918:2018 3.3.2). The floor protector should extend 300mm in front of the fuel loading doors and be placed centrally in the 1305mm width. The Thermal resistivity of the floor protector is 0.36m<sup>2</sup>.K/W for 50mm thick Skamol board.

The Filiofocus 2000 Central Suspended fireplace/Flue combination conforms to the requirements of the joint AS/NZS 2918:2018 Standard, Appendix B.

The appliance and flue system were tested at the following clearances:

#### Position A – Parallel position

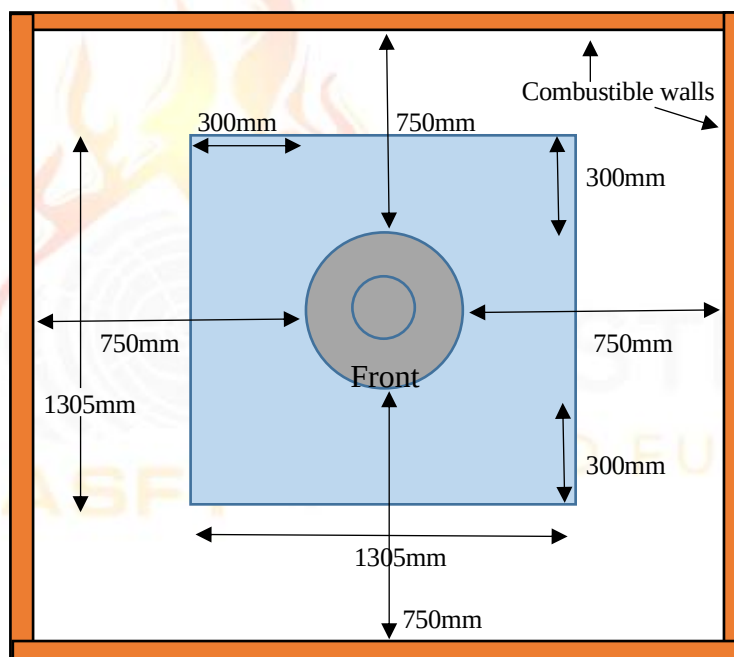


Figure 1 – Clearance Diagram

|                                                                                   |                   |                                                                                    |                                                   |
|-----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|---------------------------------------------------|
|  |                   |  |                                                   |
| <b>Signed</b>                                                                     |                   | <b>Approved</b>                                                                    |                                                   |
| <b>Name</b>                                                                       | Garry W. Mooney   | <b>Name</b>                                                                        | Steve Marland                                     |
| <b>Title</b>                                                                      | Technical Officer | <b>Title</b>                                                                       | Managing Director – Australian Solid Fuel Testing |
| <b>Date</b>                                                                       | 8/05/2025         | <b>Date</b>                                                                        | 8/05/2025                                         |

## 1. INTRODUCTION

Thermal Clearance testing of the Appliance and flue system took place on 6 May 2025 at the Australian Solid Fuel Testing Laboratory located at 3 Garden Street, Morwell, Victoria. The testing was performed by Mr G.W. Mooney and Mr S. Marland.

## 2. PROCEDURE

Testing was conducted as per Appendix B of AS/NZS2918;2018, Hot sites were located with the aid of an infra-red thermometer. Thermocouple tips were stapled onto the test surfaces, with black tape over the first 100 mm to facilitate consistent and accurate recording of temperatures. Thermocouple positions are shown in the table below:

### Position A – Parallel Position

| Thermocouple No. | Position                          | Thermocouple No. | Position                                              |
|------------------|-----------------------------------|------------------|-------------------------------------------------------|
| 1                | Floor - 1300mm in front of centre | 16               | Floor – 150mm RHS of centre                           |
| 2                | Floor – 1200mm in front of centre | 17               | Floor – 300mm RHS of centre                           |
| 3                | Floor - 1050mm in front of centre | 18               | Floor – 450mm RHS of centre                           |
| 4                | Floor – 900mm in front of centre  | 19               | Ceiling Ring – Inner front                            |
| 5                | Floor – 750mm in front of centre  | 20               | Ceiling Ring – 25mm in front                          |
| 6                | Floor – 600mm in front of centre  | 21               | Ceiling Ring – Inner side                             |
| 7                | Floor – 450mm in front of centre  | 22               | Ceiling Ring – 25mm to side                           |
| 8                | Floor – 300mm in front of centre  | 23               | Rear wall – 768mm from corner, 1348mm above the floor |
| 9                | Floor – 150mm in front of centre  | 24               | Rear wall – 912mm from corner, 849mm above the floor  |
| 10               | Floor – Centre of flue            | 25               | Rear wall – 1099mm from corner, 832mm above the floor |
| 11               | Floor – 150mm behind centre       | 26               | RHS wall, 971mm from corner, 972mm above the floor    |
| 12               | Floor – 300mm behind centre       | 27               | RHS wall, 533mm from corner, 961mm above the floor    |
| 13               | Floor – 450mm LHS of centre       | 28               | RHS wall, 1037mm from corner, 699mm above the floor   |
| 14               | Floor – 300mm LHS of centre       | 29               | Rear wall – 1081mm from corner, 594mm above the floor |
| 15               | Floor – 150mm LHS of centre       | 30               | Ambient temperature                                   |

TABLE 1

### **3. TEST FUEL**

Testing was conducted with Pinus Radiata as the test fuel which had a moisture content of 13.35% moisture. Each firewood piece was 300mm x 90mm x 40mm.

### **4. FLUE SYSTEM**

The flue system used during testing was a Appliance-Flue combination supplied by Ateliers Dominique Imbert. There must be a minimum 50mm clearance in all directions around the flue at ceiling penetration. This flue system has not been tested to joint AS/NZS 2918:2018, Appendix F. The flue height was  $4.6 \pm 0.1$ m from the floor protector. Appendix 1 shows details of the flue system.

### **5. RESULTS**

#### **5.1 High Fire Test**

The appliance was fired in accordance with Section B9.1 of AS/NZS2918;2018. The level of fuel was maintained between 50-75% of the full volume level of the fuel chamber during the High Fire test.

The average fuel load for initiating the High Fire tests was 10.0kg with an average refuelling rate of 1.7kg/10 minutes.

#### **5.2 Flash Fire Test**

Immediately after the High Fire test was completed, sufficient embers were removed to bring the fire bed to a level of 15-25% of the fuel chamber volume. The appliance was then fired in accordance with Section B9.2 of AS/NZS2918;2018.

The average fuel load for initiating the Flash Fire tests was 7.6kg.

### 5.3 Ambient and Test Surface Temperatures

The Tables below show the Ambient temperatures and test surfaces temperatures during testing of the appliance and flue combination:

*Ambient Temperature Range °C*

| Position | High Fire   | Flash Fire  |
|----------|-------------|-------------|
| A        | 16.8 – 27.1 | 23.2 – 29.0 |

*Maximum Surface Temperature Rise above Ambient - Position A*

| Position  | Thermocouple Number | High Fire Test (°C) | Thermocouple Number | Flash Fire Test (°C) |
|-----------|---------------------|---------------------|---------------------|----------------------|
| Floor     | 10                  | 63.9                | 9                   | 82.1                 |
| Ceiling   | 19                  | 40.2                | 19                  | 30.1                 |
| Rear Wall | 29                  | 61.5                | 29                  | 56.8                 |
| Side Wall | 26                  | 51.1                | 28                  | 49.1                 |

### 5.4 Uncertainty of Measurement Statement

5.5.1 The uncertainty of distance measurement for determining clearance distances was not greater than  $\pm 3\text{mm}$ .

5.5.2 The uncertainty of temperature measurement during the entire test period was a maximum of  $\pm 2^\circ\text{C}$  at a 95% confidence level.

## 6. APPLIANCE CONSTRUCTION DETAILS

The test results reported directly relate to the appliance/flue system tested. The details of the appliance given in this section include features which may affect safety clearances. Any change in the design/construction of this appliance or flue may invalidate this report. Below are the constructions details of the appliance:

|                                                                          |                                 |                       |
|--------------------------------------------------------------------------|---------------------------------|-----------------------|
| Appliance Model Name: <b>Filiofocus 2000 Central Suspended fireplace</b> |                                 | Serial No: <b>N/A</b> |
| Manufacturer: <b>Ateliers Dominique Imbert</b>                           |                                 |                       |
| Overall Height: <b>2665mm</b>                                            | Overall Diameter: <b>1160mm</b> |                       |
| Usable Firebox Height: <b>500mm</b>                                      | Diameter: <b>624mm</b>          | Radius: <b>312mm</b>  |
| Usable Firebox Volume: <b>152.9 Litres</b>                               |                                 |                       |
| Firebox Material Type/Seam Fully Welded: <b>Fully sealed 3.5mm steel</b> |                                 |                       |
| Firebrick Type: <b>N/A</b>                                               |                                 |                       |
| Main Door Opening Height: <b>530mm</b>                                   | Width: <b>535mm</b>             |                       |
| Primary Air Location: <b>Main door opening</b>                           |                                 |                       |
| Grate Dimension: <b>N/A</b>                                              |                                 |                       |
| Baffle Plate size: <b>No baffle</b>                                      |                                 |                       |
| Damper: <b>Yes</b>                                                       |                                 |                       |
| Flue Dimensions: <b>265mm ID</b>                                         |                                 |                       |
| Spigot Dimensions:                                                       | OD: <b>273mm</b>                | ID: <b>265mm</b>      |
| Spigot to Rear of Appliance: <b>Centre of appliance</b>                  |                                 |                       |
| Rear Internal to External Heat Shield: <b>N/A</b>                        |                                 |                       |
| Firebox to Side External Heat Shield: <b>N/A</b>                         |                                 |                       |
| Heat Shield Material Type: <b>N/A</b>                                    |                                 |                       |
| Water Heater Fitted: <b>No</b>                                           |                                 |                       |
| Fan Location/Speeds: <b>No fan fitted</b>                                |                                 |                       |
| Catalytic Combustor fitted: <b>No</b>                                    |                                 |                       |
| Grate: <b>No</b>                                                         |                                 |                       |
| <b>NOTE: Accuracy of measurement is ±5% of the measured value</b>        |                                 |                       |

## 7. CONCLUSION

The Filiofocus 2000 Central Suspended fireplace/Flue combination conforms to the requirements of Australian/New Zealand Standard 2918:2018, with respect to floor, ceiling, side wall and rear wall surface temperatures, when tested in the test position shown in Figure 1 of this report in accordance with Appendix B of AS/NZS2918:2018.





## APPENDIX 1:

### Filiofocus 2000 central

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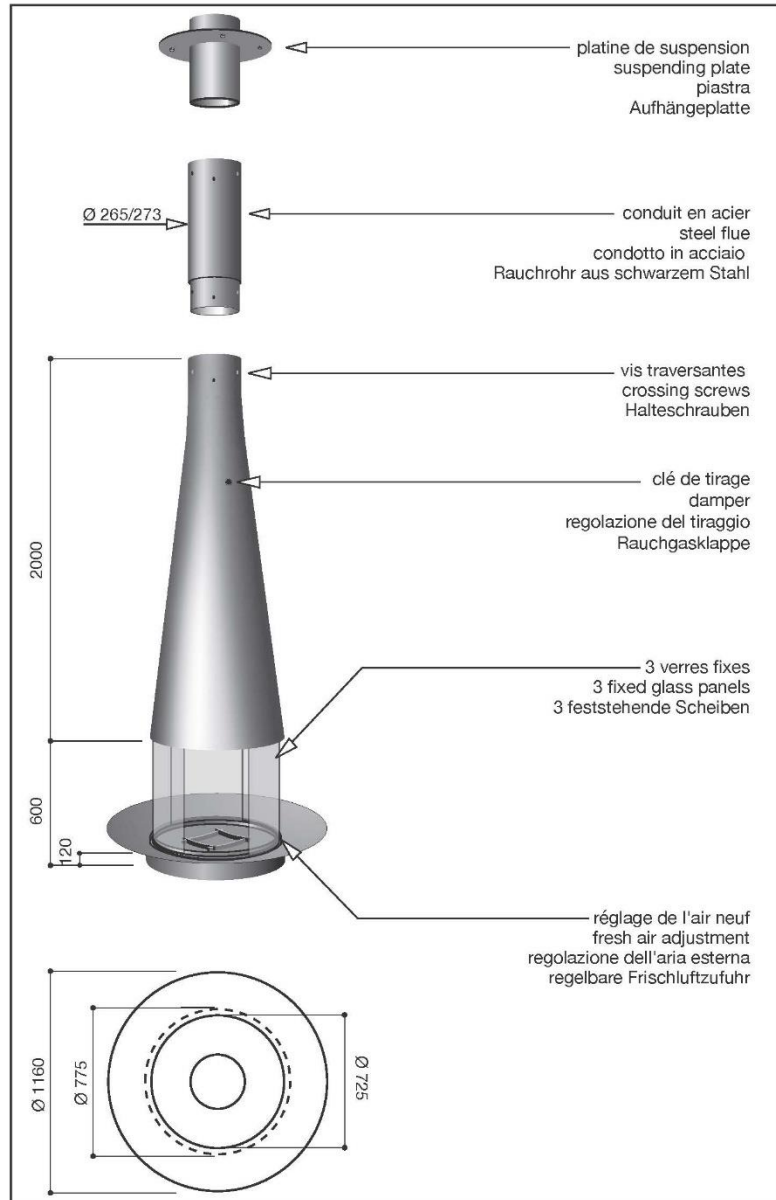
#### Manuel d'installation

Installation handbook

Manuale d'installazione

Installationshandbuch

Juin 2024, V.2



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