

THERMAL CLEARANCE TESTING OF THE NMV 1000 DUO INBUILT SOLID FUEL APPLIANCE

Report

The NMV 1000 DUO Inbuilt appliance with a triple skin flue kit consisting of an 8" stainless steel active flue, 10" and 12" galvanised casings with the outer 12" casing vented at the bottom and top was tested in a zero clearance enclosure in a manner conforming to joint Australian/New Zealand Standard 2918:2018, Appendix B.

The appliance must be placed on a box 1000mm wide x 400mm high x 470mm deep made from 50mm skamol board on all sides. A minimum 300mm deep x 1240mm wide x 6mm thick floor protector (compressed board) should be used in front of the appliance (see joint AS/NZS 2918:2018 3.3.2). The floor protector should extend 300mm in front of the appliance fuel loading doors and be placed centrally in the 1240mm width. The Thermal conductivity of the floor protector is 0.1m².K/W for 9mm thick sheets.

The sides, roof and walls of the enclosure were constructed with 40mm of Skamol board. The enclosure side walls shall be no closer than 65mm to the appliance.

A minimum of two air vents must be installed. The top air vent must be 470mm long x 25mm high and must not be closer than 235mm to the ceiling. The bottom air vent must be a minimum, 400mm long x 90mm high, and must be 60mm from the floor of the enclosure. Combustible material must be a minimum of 450mm from the side vents. All enclosure joints must be sealed correctly to ensure they do not allow heat to escape from enclosure.

The combustible ceiling above the Skamol enclosure roof must be no closer than 110mm, a 25mm clearance must be maintained around the outer casing of the flue in the combustible ceiling. The outer triple skin where it passes through the Skamol board enclosure must be fully sealed.

The NMV 1000 DUO Inbuilt solid fuel appliance installed with a triple skin flue kit conforms to the requirements of the joint AS/NZS 2918:2018 Standard, Appendix B.

The appliance and Flue Combination should be installed at the following clearances;

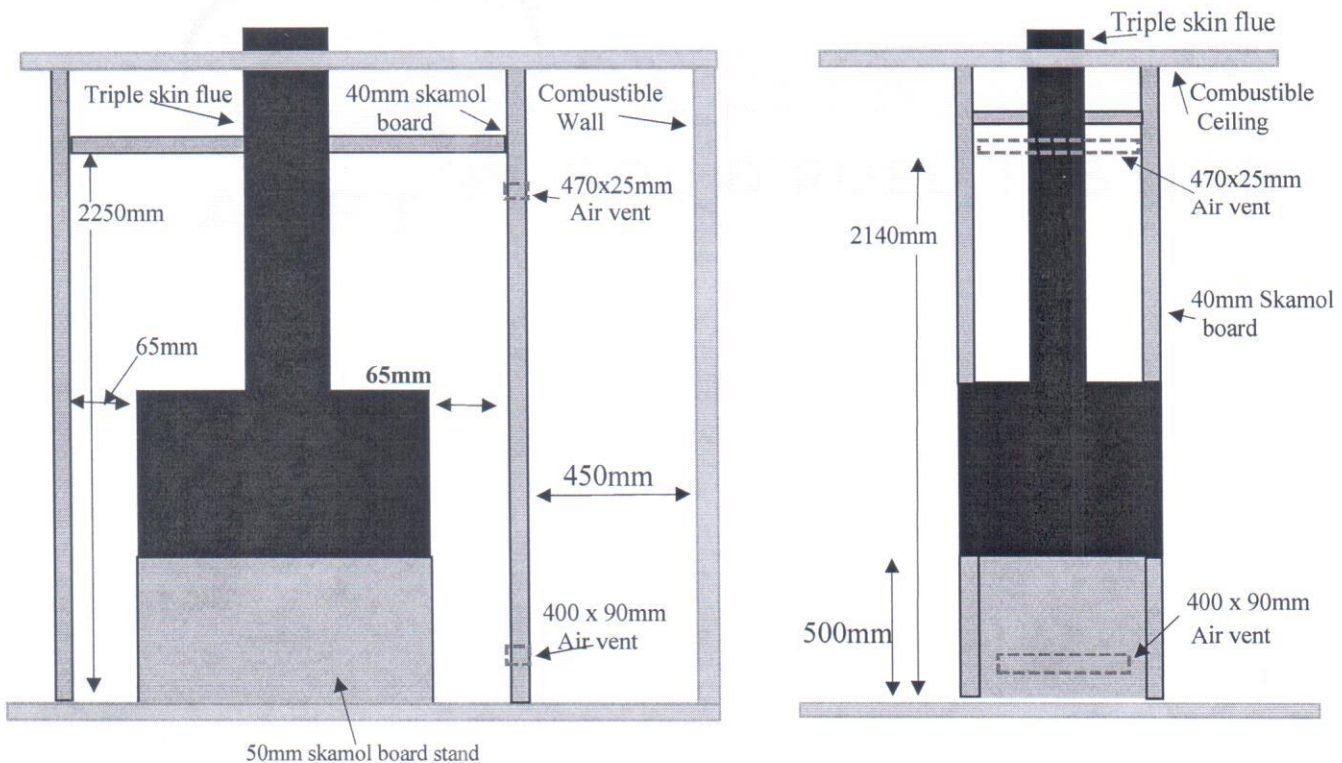


Figure 1 – Clearance Diagram