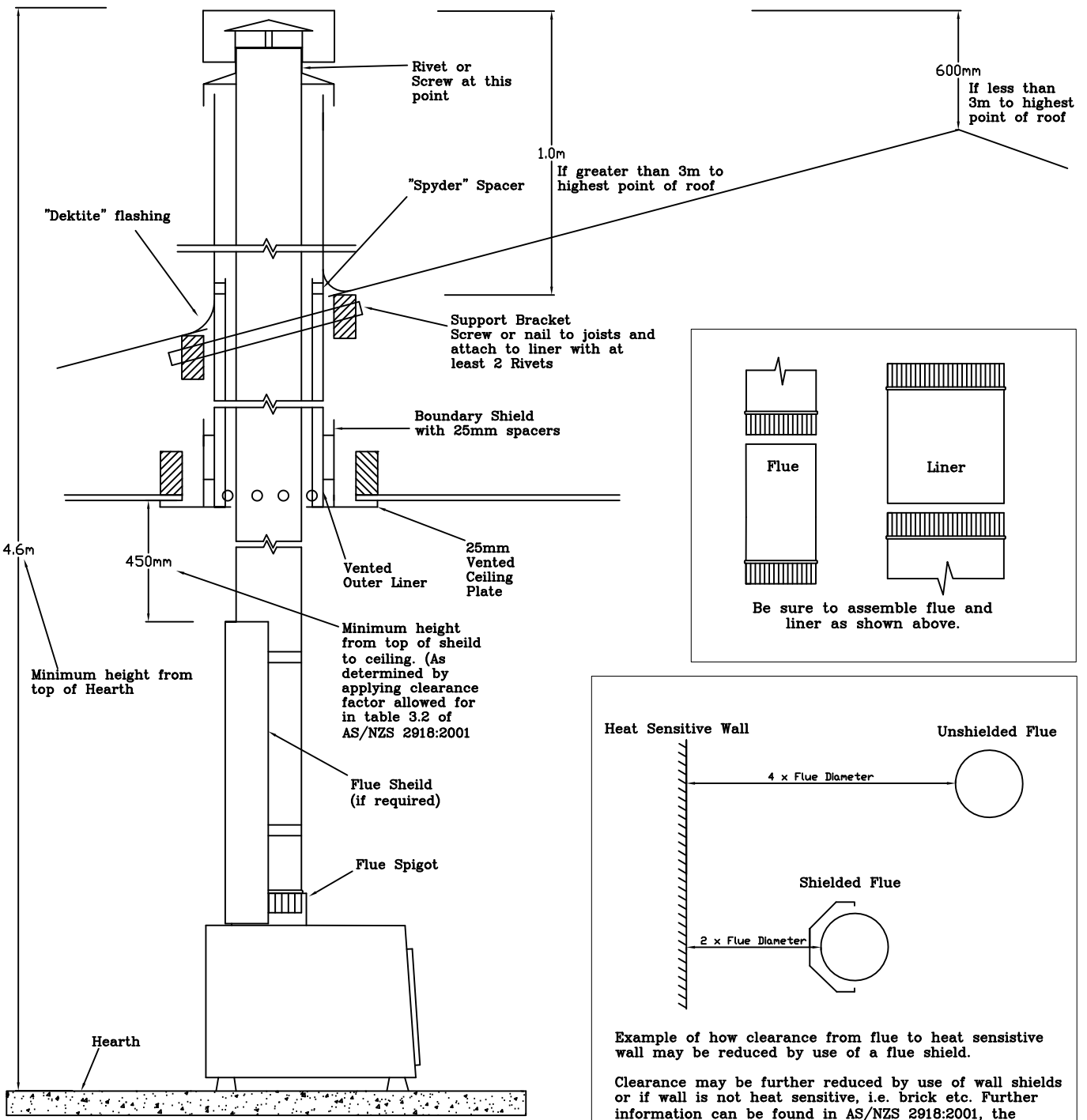


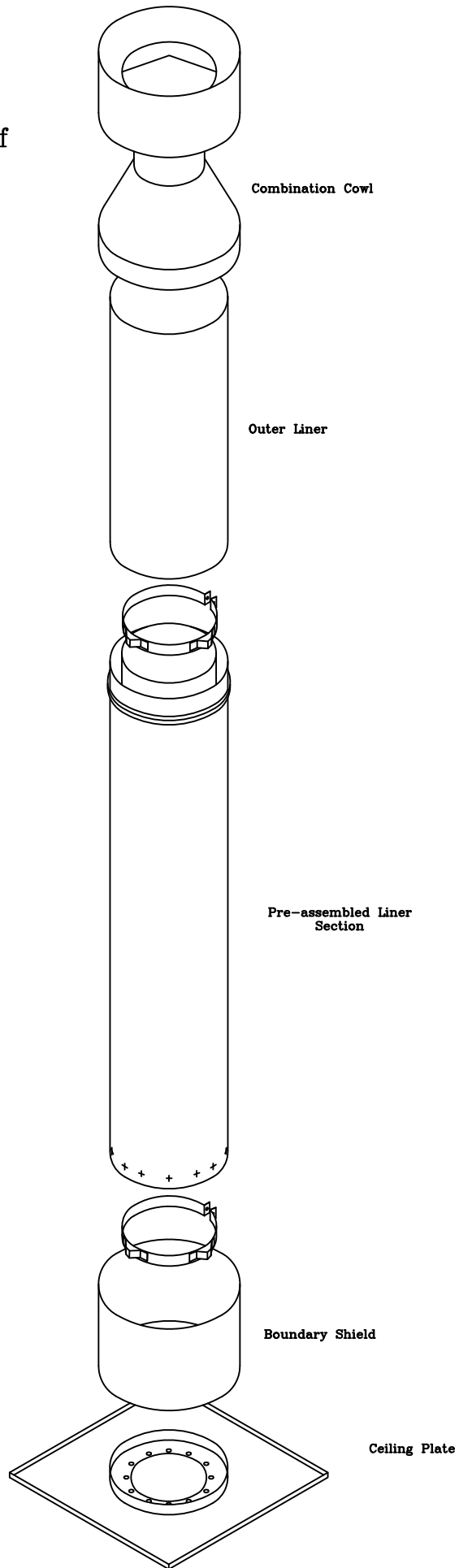
Rayners Double Lined Flue System



Example of how clearance from flue to heat sensitive wall may be reduced by use of a flue shield.

Clearance may be further reduced by use of wall shields or if wall is not heat sensitive, i.e. brick etc. Further information can be found in AS/NZS 2918:2001, the standard for Installation of Domestic Solid Fuel Fires in Australia and New Zealand.

Exploded View of
Liner System



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Drawing Title

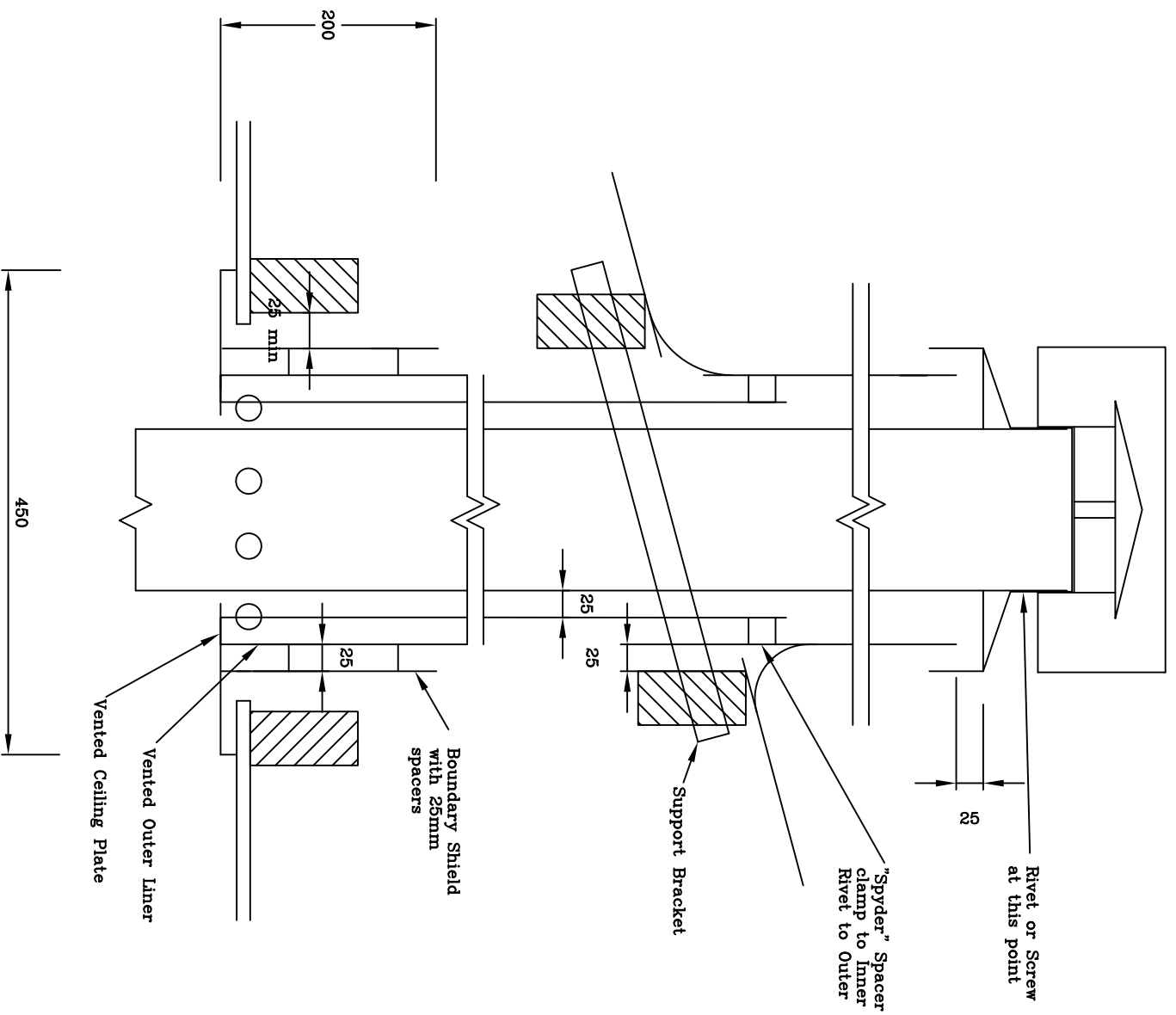
Standard Flue Specification

Designed	PJM	02/06/02	Drawing No.
Drawn	TWH	02/06/02	6057
Checked	PJM	02/06/02	Drawing Scale
Approved	TWH	02/06/02	NTS

Revisions

Rev	Date	Description
A	12/04/06	Modified for Alternative Solution

Filename	rwc
Revise date	12/04/06



Rayners Double Lined Flue System Installation Instructions

Please note that this product has been accepted as an Alternative Solution to the Building Act 2004, and amendments, by the Invercargill City Council

1. Ensure building consent from territorial authority has been received before proceeding.
2. Position heater in desired location ensuring that manufacturers minimum clearances to combustible materials are complied with.
3. Check there are no roofline ridges or valleys in the way, or if they cannot be avoided, that installer knows how to weatherproof penetration, and reinstate full strength of structure to requirements of appropriate building regulations.
4. Using a vertical laser or plumb line mark centre of heater flue spigot on ceiling and cut a 350mm round hole in ceiling. Using same method, determine centre of roof penetration and cut a round hole of at least 260mm diameter through roofing material. Clear away any building paper to at least 50mm from edge of hole and ensure there are no combustible materials within 25mm of final position of outer liner.
5. If suitable fixing for ceiling plate is not available, construct a square timber frame 370mm x 370mm internal dimensions on top side of ceiling and fix to ceiling joists ensuring sufficient strength to carry liner system.
6. Temporarily fit ceiling plate.
7. Lower pre-assembled liner section through roof penetration onto locating ring of ceiling plate, ensuring that crimped ends are facing up. Add remaining liner sections one at a time, beginning with inner making sure that top section fits over lower section, and screw or rivet each length of liner at a minimum of 3 evenly located points around perimeter. Inner liner must proceed past roofline but does not need to go all the way to top of flue system.
8. Fix liner assembly to rafters using supplied support brackets as shown in drawing. Rivet brackets to both sides of outer liner and fix to rafters by nails or screws.
9. Remove ceiling plate and ensure that liner assembly does not slip down or protrude more than 25mm below ceiling. Slide boundary shield onto outer liner and through ceiling hole so it is flush with ceiling and re-install ceiling plate and tighten screws.
10. Using suitable heat resistant sealer, seal each joint and assemble stainless steel flue one piece at a time ensuring that crimped end of top section fits *inside* plain end of lower section and secure with a minimum of three stainless steel rivets around perimeter. Insert assembled flue sections through ceiling plate, adding lengths as required to achieve a minimum length of 4.6m above top of any floor protector and a minimum of 600mm above ridge line of roof if less than 3m from highest point or a minimum of 1m above roof penetration if greater than 3m from highest point.
11. Seal around crimped end of flue and install flue pipe into spigot of heater, securing with screws or rivets at a minimum of 3 points around the perimeter.
12. Flue pipe should protrude through top of liner system by 150 to 200mm. If required add more liner or trim flue to achieve this, remembering to allow for minimum height requirements.
13. Fit appropriate flashing over outer liner and secure to roof, ensuring a weather tight seal.
14. Fit supplied braces to flue with rivets and fix through roof to rafters in suitable locations to ensure stability of flue system in extreme conditions. Add more braces if required.
15. Fit combination cowl over flue pipe and push home until cowl supports rests on outer liner. Fix in place with at least one screw into flue pipe as shown on drawing. Do not fix cowl to liner as this needs to move with heat expansion
16. Clamp supplied brackets to flue and mount flue guard ensuring no gap is present between guard and top of heater and the top of guard is no closer than 450mm from ceiling. (when used in conjunction with 25mm ceiling plate)
17. Thoroughly clean exposed stainless flue with Brasso or similar cleaner and contact territorial authority to arrange final inspection. Ensure installation has been approved and Code Compliance will be issued before using heater.