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Flue terminal clearances

This information sheet has been prepared to assist gasfitters in providing the correct flue clearances for gas appliances. The location of the flue terminal of a balanced flue appliance, room-sealed appliance, a fan-assisted appliance or an appliance designed for outdoor installation shall comply with the figure below.

For natural draught flue terminals that are not a balanced flue, room sealed, fan-assisted or outdoor appliance see AS/NZS 5601.1 section 6.9.

Where any **flue terminal located above a roof see section 6.9.2** In addition, the position of the flue terminal must not cause a nuisance, and the flue terminal should comply with section 6.7.*5 Flue gases not to cause a nuisance.*

Consideration should also be given to ensure the flue terminal location does not encroach on the neighbouring boundary without the appropriate approval section 6.9.3.

Note the New Zealand ONLY information regarding a GMS in section 6.9.6.

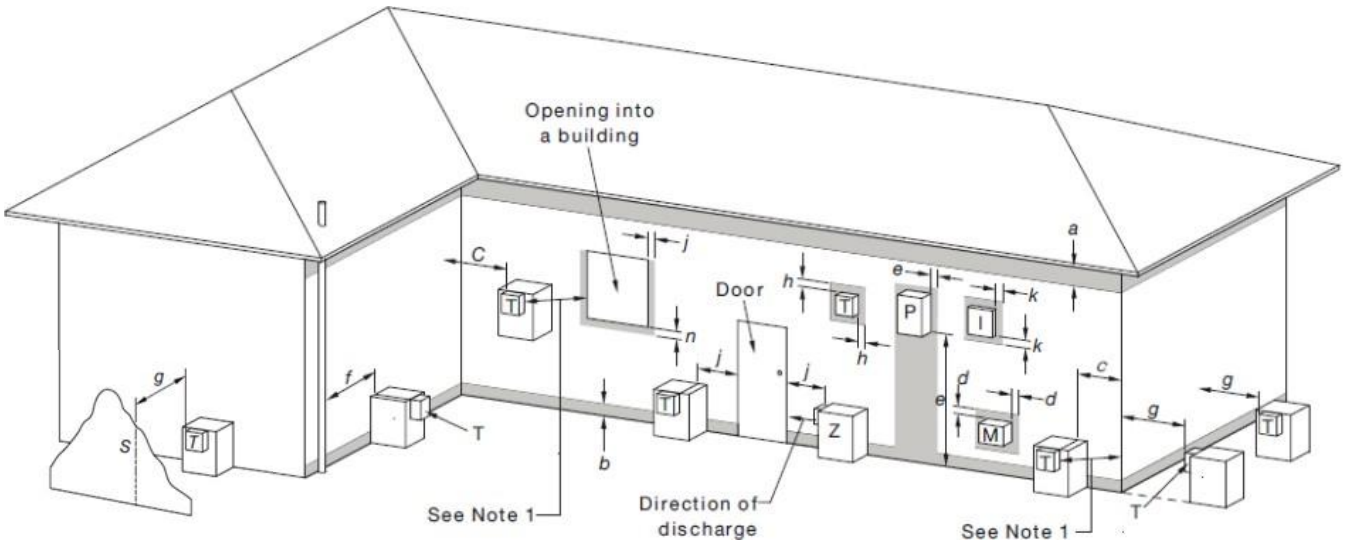


Figure 6.9.3 - Location of flue terminals around the perimeter of a building or structure

I	**= Mechanical air inlet**
M	= Gas meter
P	= Electricity meter fuse box
S	= Structure
T	= Flue terminal
Z	= Fan-assisted appliance only
	Shading indicates prohibited areas for flue terminals

Ref.	Item	Minimum clearances mm	
		Natural draught	Fan assisted
a	Below eaves, balconies and other projections:		
	For *appliances* up to 50 MJ/h input	300	200
	For *appliances* over 50 MJ/h input	500	300
b	From the ground, above a balcony or other surface *	300	300
c	From a return wall or external corner *	500	300
d	From a gas meter (M) (see note 5) (see Clause 5.11.5.9 for vent terminal location of regulator) (see Table 6.7 for New Zealand requirements)	1000	1000
e	From an electricity meter or fuse box (P)** (see note 5)	500	500
f	From a drain pipe	150	75
g	Horizontally from any building structure * or obstruction facing a terminal	500	500
h	From any other *flue terminal*, cowl, or combustion air intake *	500	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	Appliances up to 150 150 MJ/h input *	500	300
	Appliances over 150 MJ/J input up to 200 MJ/h input *	1500	300
	Appliances over 200 MJ/h input up to 250 MJ/h input *	1500	500
	Appliances over 250 MJ/h input *	1500	1500
	All *fan-assisted appliances*, in the direction of discharge	–	1500
k	From a mechanical air inlet, including a spa blower	1500	1000
n	Vertically below an openable window, non-mechanical air inlet, sub floor ventilation, or any other opening into a building with the exception of weep holes:		
	For space heaters up to 50 MJ/h input	150	150
	For appliances up to 50 MJ/h input	500	500
	For appliances over 50 MJ/h input and up to 150 MJ/h input	1000	1000
	For appliances over 150 MJ/h input	1500	1500

* Unless appliance is certified for closer installation

** Prohibited area below electricity meter or fuse box extends to ground level

*** Minimum clearances *d* and *e* also apply to any combustion air intake openings of appliances

Notes:

1 Where dimensions *c, j* or *k* cannot be achieved, an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.

2 See Clause 6.9.4 for restrictions on a flue terminal under a covered area.

3 See Figure J3 for minimum clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.

4 For minimum clearances not addressed, a gasfitter may be required to have a certified design when certifying the installation.

5 Contact the appliance manufacturer if in doubt that the minimum clearances will provide adequate thermal protection of surfaces adjacent to the flue terminal. Additional protective measures may be required

Image and table modified from AS/NZS 5601.1:20223 Figure 9.3. https://www.standards.govt.nz/

Flue terminal located above a roof see section 6.9.2:

a. The flue terminal shall be at least 500 mm from the nearest part of the roof.

b. If the roof is designed for personal or public use, the end of the flue shall be at least 2 m above the roof level and 500 mm above any surrounding parapet and be supported

c. The flue terminal shall be at least 200 mm from the nearest part of any chimney.

Flue terminals around the perimeter of a building or structure 6.9.3

Where a flue terminal discharges combustion products in the direction of a property boundary, the flue terminal shall be more than 450 mm from the boundary.

Consideration should be given to the discharge from the flue terminal particularly during winter months when condensate may cause a nuisance to neighbouring properties.

Flue terminal under a covered area, in a recess or on a balcony 6.9.4

Where a flue terminal is to be installed under a covered area, in a recess or on a balcony, ready dispersion of combustion products and avoidance of nuisance shall be achieved as follows:

d. For partially or fully covered areas and recesses, which are not balconies and which are open on at least two sides, the flue terminal shall be located to ensure a free flow of air across it and conform to the requirements of clause 6.2.5. The appliance shall be a balanced flue appliance, room sealed appliance, a fan assisted appliance or an appliance designed for outdoor installation.

e. For partially or fully covered areas and recesses, which are not balconies and which are open only one side, the flue terminal shall extend beyond an external corner or the covered area and discharge towards the open side, as illustrated in fig 6.9.4 (a) and Fig 6.9.4 (b) respectively, to ensure that combustion products discharge to open atmosphere. The flue terminal shall be located to conform to the requirements of clause 6.2.5. The appliance shall be a fan assisted appliance.

f. For all balconies regardless of the number of open sides and including partially covered balconies, the flue terminal shall extend beyond an external corner or any covered area and discharge towards an open side as illustrated in Fig 6.9.4 (c) to ensure that combustion products discharge to open atmosphere. The flue terminal shall be located to conform to the requirements of clause 6.2.5. The appliance shall be a fan assisted appliance.

The minimum clearances as per the table of 6.9.3 shall apply , with the exception of clearance "c"

Note 1. These requirements do not apply to domestic barbeques and radiant gas heaters designed for outdoor use. For these appliances see clause 6.10.19

Note 2. An eave is not considered a covered area, unless it abuts an adjoining structure.

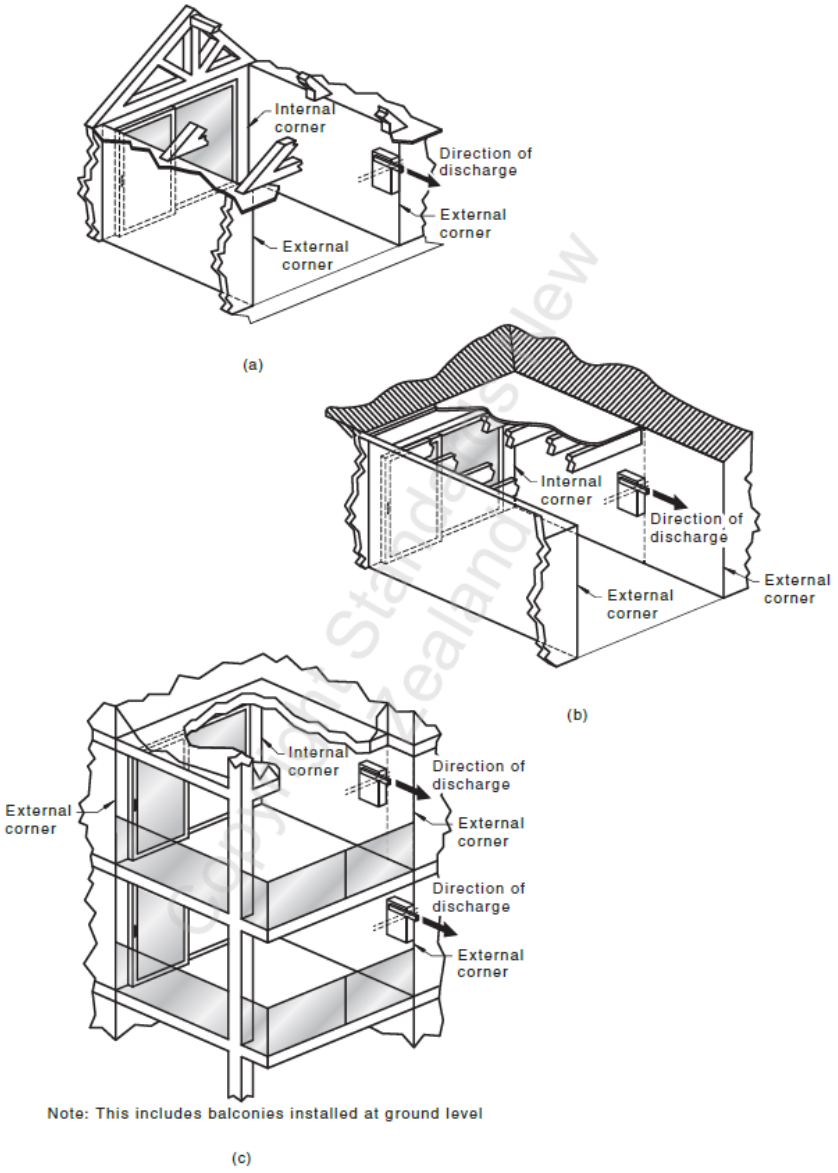


Figure 6.9.4 — Location of *flue terminals* under a covered area, in a recess or on a balcony

Version management

Details	Last revision date
TE20001	3 July 2026