

# TECHNICAL BULLETIN

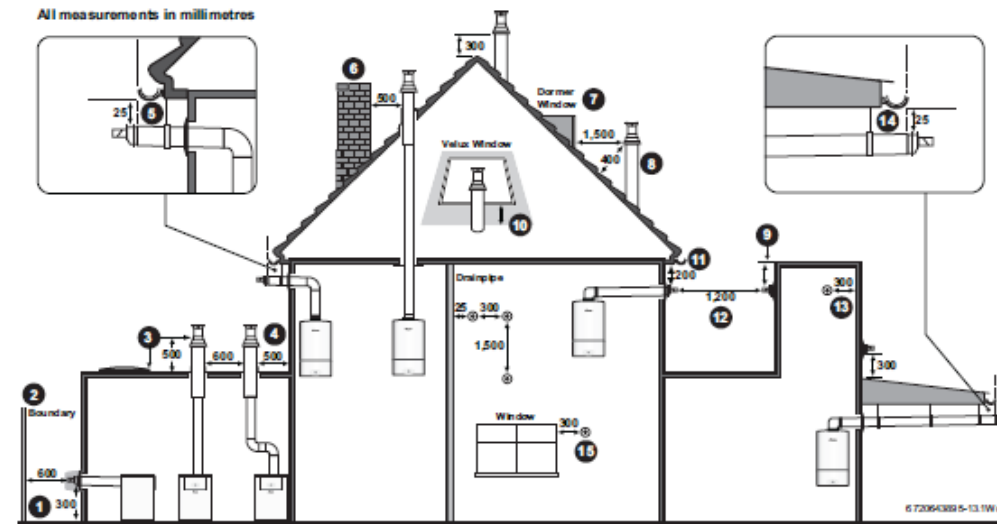
## PRODUCT : FLUE SYSTEMS IN 3 & 4 SIDED AREAS

### SAFE DISPERSAL OF COMBUSTION PRODUCTS.

Whenever a horizontal or vertical flue is installed in a confined area, you must ensure that all minimum clearances can be achieved and that the products of combustion (POC) will disperse safely.

You must also take into consideration how the area is likely to be utilised ensuring that discharge from the flue terminal will not create a danger or nuisance.

Minimum clearances should be referenced in the manufacturers' installation manuals and the following guidance adhered to;



#### NOTE:

- ▶ All measurements are the minimum clearances required.
- ▶ Terminals must be positioned so to avoid combustion products entering the building.
- ▶ Support the flue at approximately one metre intervals and at a change of direction, use suitable brackets and fittings (Flue bracket part numbers.: 100mm - 7 716 191 092.

#### Key to illustration

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|---|---|
| <ol style="list-style-type: none"> <li>1. Flue clearance must be at least 300mm from the ground. Terminal guards must be fitted if the flue is less than 2 metres from the ground or if a person could come into contact with the flue terminal.</li> <li>2. 600mm distance to a boundary, unless it will cause a nuisance. BS 5440: Part 1 recommends that care is taken when siting terminals in relation to boundaries.</li> <li>3. 600mm minimum clearance from a skylight to a vertical flue.</li> <li>4. Vertical flue clearance, 500mm to non-combustible building material, and 1,500mm clearance to combustible building material.</li> <li>5. The dimension below eaves, gutters, pipes and drains can be reduced to 25mm, as long as the flue terminal is extended to clear any overhang. Any external flue joints must be sealed with a suitable silicon sealant.</li> <li>6. 500mm clearance to any vertical structure on a roof, 600mm to room sealed flue or 1,500mm to an open flue.</li> <li>7. 1,500mm between a vertical flue terminal and a window or dormer window.</li> </ol> | <ol style="list-style-type: none"> <li>8. 400mm from a pitched roof or in regions with heavy snow fall 500mm.</li> <li>9. The flue cannot be lower than 1,000mm from the top of a light well due to the build up of combustion products.</li> <li>10. 2,000mm below a Velux window, 600mm above or to either side of the Velux window.</li> <li>11. 200mm below eaves and 75 mm below gutters, pipes and drains.</li> <li>12. 1,200mm between terminals facing each other.</li> <li>13. 300mm to an internal or external corner.</li> </ol> |
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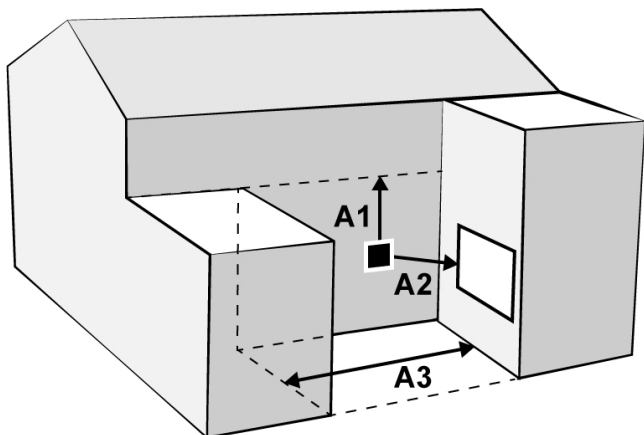
Installations in car ports are not recommended.

14. The dimension below eaves, balconies and car ports can be reduced to 25 mm, as long as the flue terminal is extended to clear any overhang. Any external flue joints must be sealed with suitable silicon sealant.
15. 300mm above, below and either side of an opening door, air vent or opening window.

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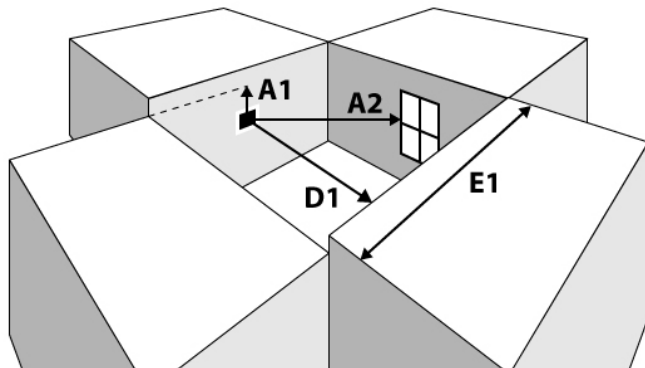
## PRODUCT : FLUE SYSTEMS IN 3 & 4 SIDED AREAS

### THREE SIDED AREA



- ▶ POC must not discharge over adjoining boundaries.
- ▶ **A1**: If **A3** is less than 1200mm the flue terminal must be sited no lower than 1000mm from the lowest part of the 3 sided area.
- ▶ **A3** cannot be less than 700mm due to minimum clearances to internal corners
- ▶ If **A3** is greater than 1200mm then you must ensure that POC will disperse freely and not cause a nuisance.
- ▶ If the flue is sited on one of the adjacent facing walls then **A3** must be greater than 1200mm.
- ▶ If the flue is sited on one of the adjacent facing walls then **A3** must not be less than 2000mm if there is an opening into the building opposite or above the flue terminal.
- ▶ **A2** must not be less than 600mm.

### FOUR SIDED AREA



- ▶ The flue can be sited within a 4 sided area, lightwell or courtyard providing the following clearances can be achieved:
- ▶ POC must not discharge over adjoining boundaries.
- ▶ **A1**: The flue must not terminate lower than 1000mm from the lowest part of the roof surrounding the 4 sided area.
- ▶ **D1** must not be less than 600mm and only providing there are no openings opposite the terminal.
- ▶ **D1** or **E1** must not be less than 1200mm if there is another flue terminal within the same area.
- ▶ Neither **D1** or **E1** must be less than 2000mm if there is an opening into the building opposite the flue terminal or above the flue terminal level.
- ▶ **A2** must be greater than 600mm; only permissible if **D1** & **E1** are both greater than 2000mm
- ▶ **E1** cannot be less than 700mm due to minimum clearances to internal corners.