



SIDE ELEVATION

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Condensates in flues:

- The flue for a non-condensing combusting appliance shall be insulated so that five gas does not condense during normal operation; or
- The flue for a condensing combustion appliance shall -
- a. Be lined with components that are impervious to condensates and resistant to corrosion, avoiding ledges, crevices etc; and
- b. A suitable drain shall be fitted to the combustion appliance for the disposal of condensate.
- The flue type for oil fired appliances:
- information will be provided from the appliance manufacturer to confirm that the oil fired appliance flue temperature will not exceed 250oC,
- i. The flue shall be built using factory-made components that have appropriate European chimney standard; and following table for the intended appliance type, when tested to an equal to that corresponding to the designation given in the been independently certified as achieving a performance at least
- the appliance manufacturer's and component manufacturer's paragraphs 4.17 to 4.20 and Section 1, and in accordance with Be installed in accordance the provisions of Technical Booklet L

Appliance type	First oil '	
Boiler, "ling combination builer - pressure - Journer	Class C2	T250 N2 D 1 0
Cooker - pressure jet bunter	Cluss C2	1250 N2 D 1 0
Cooker and room héater - vaporizing humbr Class C2	Class C2	1250 N2 D 1 0
Cooker and room heater - vaporizing burner Class D	Class D	7250 NZ D 2 0

A factory-made metal chimney shall be: A component system independently certified as

, complying with the relevant sections of BB EN 1856 - 1: 2003 or BB EN 1859: 2000. Part 4: 1992 (1996); or Part 2: 1992, BS 7566 Part 3: 1992 and BS 7566 Installed in accordance with the relevant recommendation in BS 7566 Part 1: 1912, BS 7566

 A twin wall component system for an oil fixed appliance and a single wall component for gas complying with the recommendations of BS EN 1856 - 1: 2003 and BS EN 1856 - 2: 2004 and installed in accordance with the recommendations of BS 5440 - 1: 2000, where the flue temperatures will not normally exceed 250oC

checking of gas-tightness, joints between chimney sections shall not be concealed within ceiling joist spaces or within sleeves shall be provided to prevent damage to the flue or building through thermal expansion. To facilitate the the thickness of walls. Where a factory-made chimney passes through wall

combustible material, or suitable guard be lest than 25mm. separation distance between the chimney and he from any combustible material. In no circumstiffices shall the A factory-made chimney shall be kept a safe distance away

Configuration of natural draught flues serving pen-flued The flue system shall offer least resistance to the passage

of the flue gas by minimising changes in direction on:

100mm conc. block on 450 x 225mm founds. Internal surfaces to be rendered and skimmed

2 coats undercoat All exposed softwood timber to receive coat primer before fixing

coat full gloss to colours chosen by client

2 coats (Ronseal) varnish All exposed hardwood timber to receive coat stain (Sadolins) if required coat sealer prior to fixing

where roof abuts cavity tray

NOTE: All timber to be treated with preservative (Protini)

phosphate primer (e to be protected with at Internal and external steely The property of the property o et has not been galvanized p) No. coats zinc d a suitable decorative

fed wall. DPC under and Te as chosen by

we was commented to menter a submitter to a submitt 600mm in total depth. should be mechanically compacted in layers of 200mm and should not exceed submitted for approval to Fermanagh District Council Building Control. Hardcore cannot be achieved, an amended design and soil investigation report must be hardcore on good ground ring subsoil strata. Where suitable load bearing subsoil compacted blinding sand course on minimum 150mm Increte sub-floor laid on Radon barrier to imp-proof membrane fully lapped (300mm) and a on 90mm Xtratherm XT/UF Floor

If intending to use prestressed concrete slabs, T-Beams & infill blocks or wooden to FDC Building Control before installation. floor joists in the ground gloor construction details should be submitted for approval

deep to 100mm internal walls. $600 \times 225 \text{mm}$ deep to chimneys. Concrete (Grade wide x 225mm deep to cavity or 225mm solid block walls, 450mm wide x 225mm C25) laid in accordance with CP110:1972. Vibrate foundations -imesh cover 50mm To be of strip concrete vibrated and laid in accordance with CFT10:1972, 600mm

- temp 3°C+ - 50 x 75mm slump with not alides with 1500mm mesh overlap.

Ensure Building Control inspect and pass trendids. Winimbin Capito Beptit.

600mm.

External Walls:

to be of cavity construction 2 No. leaves of 1,000mm. Conjects blocks with 1,00mm cavity between. Cavity to be closed at wallplate and anothed all openings using insulated cavity.

450mm vertical centres and to be to BS 1243. ties to hold the slabs in position. These ties to be at 750mm horizontal centres and Provide G5mm Xtratherm XT/CW slabs to inner skin using purpose made vertical twist wal

New blockwork tied into existing every other course. Ensure the cavity is maintained 500mm high each day. Built in cavity tray over all openings. 4 clean sand, I cement and plasticizer. Do not re-mix stiff mortar. Max. build rate Provide ties every course at openings. 7 Newton concrete blocks (BS5628). Mortar



REAR ELEVATION Slate Vent Provide lead cavity White uPVC Gutters & Downpipes White uPVC Soffits, Fascia:

Oil boiler installations: The boiler efficiency will be not less than the efficiency quoted in the Table F shown below.

Oil fired systems for space heating and domestic hot water primary circuits should have fully pumped circulation. If the boiler manufacturer's instructions manutacturer's instructions. conjunction with any requirements for a minimum pipe length specified in the advise installation of a bypass, an automatic bypass valve must be provided in

Hot Water Storage:

- o Vented copper hot water storage vessels will comply with the heat loss and heat exchanger requirements of B51566; 2002
- o Unvented hot water storage systems products will: Comply with BS7206: 1990; or
- III. Be certified by another accredited body as complying with Research Council; or

Be certified by the British Board of Agrement, the Water

- Building Regulations
- o. All hot water storage vessels will carry a label with the following information:
- Type of vessel;
- Nominal capacity in litres
- Vented copper hot water cylinders will carry clear labelling on the product such as a BSI Kitemark, registered firm status or Standing heat loss in kWh/day;
- Vented cylinders which are not of copper construction will be labelled as complying with the heat loss and heat exchanger requirements of BS 1566: 2002 reference to an equivalent quality control scheme;

of the separate space heating zones can be achieved by: For dwellings with a lotal usable floor area greater than 150m2 timing . Multiple heating zone programmers; or

and the same

- ii. A single multi-mannel programmer; or
- iii. Programmable room thermostats; or
- v. A combination of (iii) and (v) above. iv. Separate time to each circuits; or
- See Table F.
- Temperature control of space heating: Separate temperature control of zones within the dwelling, will be

provided, using:

Room thermostats or programmable room thermostats in all zones; or

*4000*655.

III. A combination of (i) and (ii). Radiator Valves (TRVs) on all radiators in the other zones; or A room thermistat or programmable room thermostat in the main zone and individual radiator controls such as Thermostatic

See Table F

 Temperature control of hot water service system. separate timing and temperature controls. This will be achieved by: in dwellings with a told floor area greater than 150m2 it could be thermostat and a zone valve or three-port valve to control the reasonable to provid temperature of stored hot water. Domestic hot water systems will be provided with a cylinder II. A single multi-blannel programmer; or . Multiple heating zone programmers; or more than one hot water circuit, each having

where roof abuts wall

windows and doors

or rebated conforming to BS 1181. Chimneys flues # Hearths:
Chimneys to be built of non-combustible material and to have clay flue liners sockete.

packed with one part cement to ten parts Peralite. inside of the flue. Joints sealed with heat and shrink resistant cement. Flue liners bends (i.e. no cutting) and to be built so that descendind water is directed down the Flues to be vertical at all times but can be drifted at 45° using properly manufactured

above the roof line where chimney is on the slope. Chimney pots to be 375mm high and should project 600mm above ridge or 1000m

Provide chimney caps to employers choice and lit with cage to deter nesting birds. Provide lead tray dpc to all chimneys to discharge above front flashing - all to separate detail. The chimney system is to be subjected to a core ball and smoke test on completion

No structural timber or combustible material to be within 40mm of outer chimney

Boiler/Cooker flue to terminate in a chamber with condense vessel and collecting

Grills or meshes protecting air vents from the entry of animals or bird shall have individual aperture dimensions of not less than 5mm.

· Room containing open-flued appliance will have a continuous supply of air from outside the building through a permanently open air vent.

Air Supply to Solid Fuel burning a	burning appliances
Type of appliance	Type and amount of ventilation
Open appliance such as an open fire with	Permanently open air veni(s / a total
no throat, e.g. a fire under and open	free area or not less than 50% of the
canopy	cross-sectional area of the flue