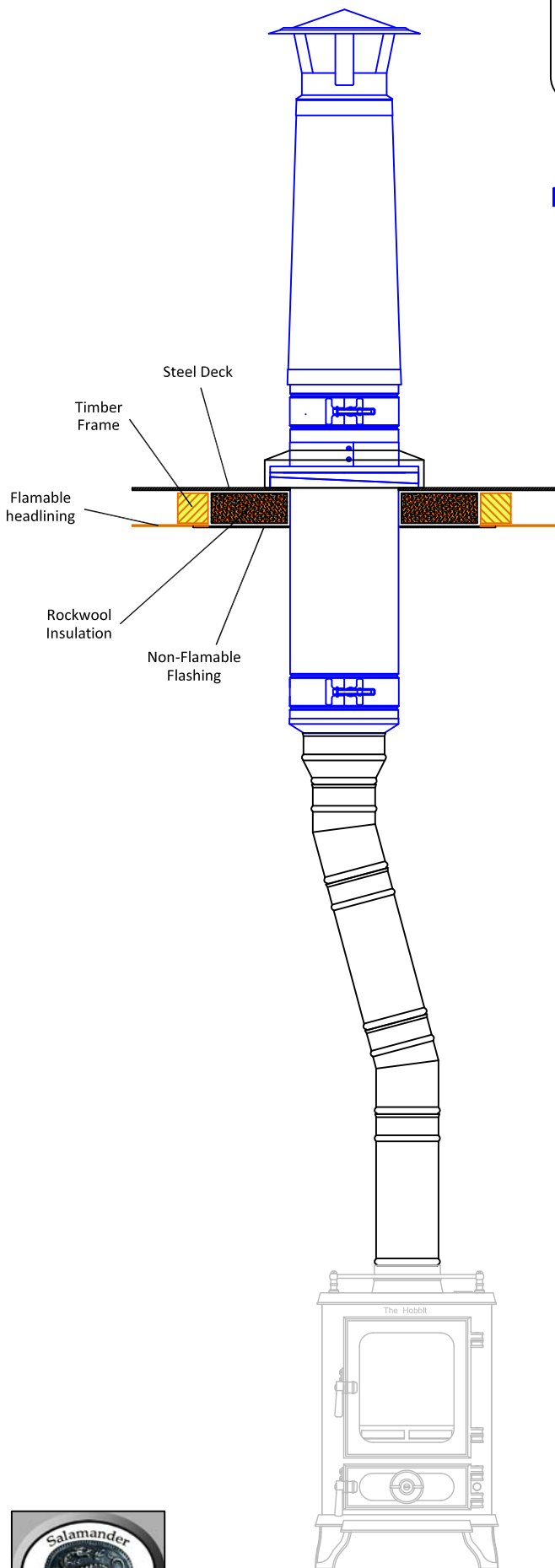


The Hobbit

CANAL BOAT FLUE GENERAL ARRANGEMENT

Notes on the Flue Requirements of BS 8511:2010 "Code of practice for the installation of solid fuel heating and cooking appliances in small craft"



Item 1 - "Appliances that conform to **BS EN 13240** would be suitable in respect of **Design, Construction, Installation and Safety** for use on boats".

Item 2 - Flue has no more than 2 changes in direction.

Item 3 - No part of the flue to exceed 30 deg from vertical.

Item 4 - Preferably use top flue outlet. If using rear, only bend is the one on the rear to achieve a substantially straight and vertical flue.

Item 5 - No damper should be fitted to the Chimney.

Item 6 - Minimum vertical height from the top of the appliance to the top of the flue should be 2.0m when the boat is moored and the stove is in use.

Item 7 - If used in anything other than sheltered waters the chimney should be securely bracketed inside and outside the cabin.

Item 8 - Chimney internal skin should be 1mm Stainless Steel.

Item 10 - Chimney external skin should be steel of adequate strength and the insulation should be a minimum of 12mm thick.

Item 11 - Chimney should be self supporting to prevent its weight being taken by the appliance.

Item 12 - Chimney should be separated from any combustible material by at least three-quarters of the external diameter of the chimney

Item 13 - Connecting (Single skin) flue material either, Stainless Steel 1mm, Cast iron (BS41), Vitreous enamelled steel (BS6999), Low carbon steel 3mm, or other materials independently certified.

Item 14 - Minimum Internal Flue diameter of the "twinwall Chimney" and the connecting flue (single skin) as per table below.

Flue Size guidance (Internal diam of twinwall Chimney and single skin connecting flue)		
Int Diam	FUEL	Max Output
100mm (4")	Seasoned wood and/or smokeless fuel	4 kW
125mm (5")	Bituminous coal	7 kW
	Seasoned wood and/or smokeless fuel	6 kW
150mm (6")	Bituminous coal	9 kW
	Seasoned wood and/or smokeless fuel	8 kW

From BS 8511:2010

Item 15 - Connecting flue as short as practicable but the chimney should be at least 150mm below any combustible headlining

Item 16 - Chimney at least 600mm above deck when craft moored.

Item 17 - Chimney at least 150mm above deck when craft under way.

