

# Understanding FLUE AND CHIMNEY DESIGNATIONS



## EN 1443 - T400 N2 D 3 Gxx

the minimum designation required when burning wood in open or closed appliances and coal.

Product name	EN 1443	T400	N2	D	3	G	xx
Number of standard	EN 1443	T400	N2	D	3	G	xx
Temperature class T400 is suitable for multi-fuel. T200 is suitable for gas and oil.	EN 1443	T400	N2	D	3	G	xx
Pressure class N=Negative, P=positive, H=high pressure	EN 1443	T400	N2	D	3	G	xx
Condensate resistance D=Dry, W=Wet	EN 1443	T400	N2	D	3	G	xx
Corrosion resistance class	EN 1443	T400	N2	D	3	G	xx
Sootfire resistance G=Yes, O=No	EN 1443	T400	N2	D	3	G	xx
Distance to combustible materials (mm)	EN 1443	T400	N2	D	3	G	xx

### Corrosion resistance classes (from BS EN 1443-2003)

Corrosion resistance class	1 Possible fuel types	2 Possible fuel types	3 Possible fuel types
Gas	Gas: sulphur content <50 mg/m Natural gas L+H	Gas Natural gas L+H	Gas Natural gas L+H
Liquid	Kerosene: sulphur content < 50mg/m	Oil: sulphur content < 0.2 mass % kerosene: sulphur content > 50mg/m	Oil: sulphur content < 0.2 mass % kerosene: sulphur content > 50mg/m
Wood		Wood in open fireplaces	Wood in open fireplaces Wood in closed fireplaces
Coal			Coal
Peat			Peat

## EN 1856-1:2009

Each type of chimney system has a test method, for a metal chimney it is BS EN1856-1:2009 so within this test we have to meet the general requirements of EN 1443 using specified materials and test methods.

Product	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Standard number	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Temperature class	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Pressure class N=Negative, P=positive, H=high pressure	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Condensate resistance D=Dry, W=Wet	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Corrosion resistance class	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Flue liner material specification	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Flue liner thickness 045 = 45mm	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Sootfire resistance G=Yes, O=No	EN 1856-1	T400	N1	D	Vx	L40045	G	xx
Distance to combustible materials (mm)	EN 1856-1	T400	N1	D	Vx	L40045	G	xx

### Corrosion resistance classes (from BS EN 1856-1)

- V1** Resistant to attack from products of combustion from gas.
- V2** Resistant to attack from products of combustion from light oil (sulphur content up to 0.2%) and natural wood. If the flue passes the V2 wet test then it is also deemed to comply with D3 & V3 under dry conditions.
- D3** Resistant to the products of combustion from burning wood under dry conditions.
- V3** Resistant to attack from products of combustion from heavy oil (sulphur content > 0.2%), solid fuels and peat.
- Vm** Not tested but rating declared by the manufacturer.

#### Liner material

- L11 = Aluminium
- L20 = 304
- L30 = 304L
- L40 = 316
- L50 = 316L

#### Thickness:

The thickness of the steel in mm  
Example: 045 means 0.45mm

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