UNI EN 1856-1:2009
Requirements for metal chimneys
System chimney products

CE 0694

METAL TECH - ECO TECH
Leghe speciali
Camini inox ad alta efficienza

Manufacturer identification:	M.T. S.r.l., Via Castel di Sotto, 2 31040, Giavera del Montello (TV)
Factory address:	Via 1° maggio, 19 31040, Giavera del Montello (TV)
Commercial identification	ECO 25 and ECO 50 series systems
Product description:	High efficiency double-wall chimneys, AISI 316L stainless steel (inside), AISI 304 or copper (outside) builded.
Notified body:	Kiwa Italia S.P.A. Via C. Goldoni, 1 20129, Milano (MI) - Italia
Certificate number:	EN 1856-1, 0694-CPR-8075.
Evaluation and verify product system:	2+ system
Legal representative:	Mr. Caoduro Romano (Managing director)

Product designation - double-wall system ECO 50 and ECO 25 series

1 - EN1856-1:2009 - T200 P1 W V2 L50060 Oxx
2 - EN1856-1:2009 - T200 N1 D V2 L50060 Oxx
3 - EN1856-1:2009 - T600 N1 D V2 L50060 Gyy
4 - EN1856-1:2009 - T600 N1 D V2 L50060 Gzz

- Standard number
- Temperature level
- Pressure level (N or P)
- Condensate resistance (W = wet; D = dry)
- Corrosion resistance (durability against corrosion)
- Material specification (code and thickness in hundredths * 100)
- Sootfire resistance (G=yes; O=no) and distance to combustible material

(condition for the fire resistance of soot is that the system is installed outdoors or in a compartment in which it is possible good ventilation around the system itself.)

Regards the distances required from combustible materials, they vary according to the nominal internal diameter of the chimney in question, according to the following scheme:

NOMINAL DIAMETER (mm)	DISTANCES AT NORMAL WORKING TEMPERATURE (xx)	DISTANCES AT NORMAL WORKING TEMPERATURE (yy)	DISTANCES AT SOOT FIRE WORKING TEMPERATURE (zz)
From D.80 to D.300	10 mm	50 mm	80 mm
From D.301 to D.450	15 mm	65 mm	120 mm
From D.451 to D.600	20 mm	100 mm	160 mm
Over 600	40 mm	200 mm	320 mm

performances	***1856/1***	***Values/levels***
Dimensioni nominali sistemi ECO 25 ed ECO 50 (mm):	Par.4	Ø 80, 100, 130, 150, 180, 200, 250, 300, 350, 400, 450, 500, 600, 700
Material type:	Par.4	Inside: AISI 316L, thick. 6/10 mm; Outside: Stainless steel AISI 304 or copper, thick. 5/10 mm
Insulator type:	Par.4	Woolrock, density: 90 kg/m^3 ECO 25: insulator thick. 25 mm; ECO 50: insulator thick. 50 mm.
Compressive strength:	Par. 6.2.1	Pass.
Soot fire resistance:	Par. 6.4	Depending on nominal diameter: see table in pag.1 of this handbook.
Component subject to wind load:	Par. 6.2.3.2	Pass.
Thermal resistance:	Par. 6.6.3	0,2 m^{2}K/W, declared..
Resistance coefficient to the flow in the linear components:	Par. 6.6.7	According to EN1 3384-1.
Gas tightness:	Par. 6.5	Designation 1: P1; Designation 2 and 4: N1.
Thermal shock resistance:	Par. 6.6.1	Pass.
Condensate penetration resistance:	Par. 6.6.5	Pass.
Corrosion resistance:	Par. 6.7.1	V2 class, pass.
Resistance to freezing and thawing:	Par. 6.7.3	Pass.
Flue linear gasket:	Par. 6.7.4	According to EN 14241-1, pass.

Position and compilation of the identifying plate

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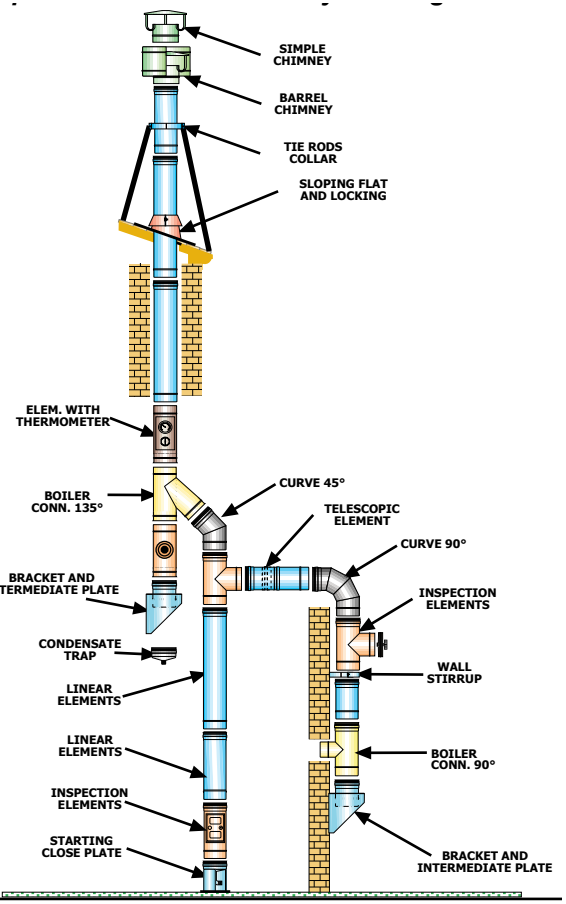
CE 0694

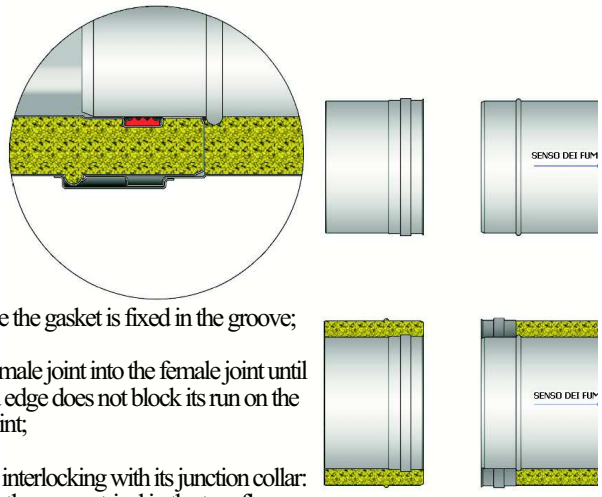
Insulated double-wall stainless steel chimney system
ECO 25 series
T200 - P1 - W - V2 - L50060 - OXX* (with gasket) ☐
T600 - N1 - D - V2 - L50060 - GYYY* (without gasket) ☐
ECO 50 series
T200 - P1 - W - V2 - L50060 - GXX* (with gasket) ☐
T600 - N1 - D - V2 - L50060 - GYYY* (without gasket) ☐
OXX*: O10 until diam. 300 included; O15 until diam. 450 included; O20 over diam. 450
OYYY*: G80 until diam. 300 included; G120 until diam. 450 included; G160 over diam. 450
EN1856-1:2009 - Certificate N° 0694-CDR-8075

Designation EN 1443: _____
Nominal diameter of the chimney (mm): _____
Distance to combustible materials (mm): _____
Thermal resistance ECO 25 series: 0,22 m^2 K/W
Thermal resistance ECO 50 series: 0,44 m^2 K/W
Installer: _____
Address: _____
Installation date: _____
Warning: This plate must not be changed or removed

This plate must be completed by filling in the blank fields with permanent marker, and then fixed in close proximity of the fireplace installed, in a visible position. Pay attention to the description of the product according to EN1443, as shown in page n°1 of this booklet.



Joining parts method



- Make sure the gasket is fixed in the groove;
- Insert the male joint into the female joint until the raised edge does not block its run on the female joint;
- Block the interlocking with its junction collar: it is perfectly symmetrical in the two flaps, upper and lower.