

**TECHNICAL DATA**
**System chimney. Range: AVANT 50 KB - KD**
**Twin wall metal chimney with insulation**

Designations:	Model	Standard	Designation	Diameters
KB	EN 1856-1	T600 N1 W Vm L20040 G(60)	80-300	
		T600 N1 W Vm L20050 G(90)	350-450	
		T600 N1 W Vm L20050 G(120)	500-600	
		T600 N1 W Vm L20060 G(240)	>600	
KD	EN 1856-1	T600 N1 W V2 L50040 G(60)	80-300	
		T600 N1 W V2 L50050 G(90)	350-450	
		T600 N1 W V2 L50050 G(120)	500-600	
		T600 N1 W V2 L50060 G(240)	>600	

Certificate number CE: 0099/CPD/A71/0037

Application:	Exhaust flue gas:
	<ul style="list-style-type: none"> <li>▪ Boilers</li> <li>▪ Stoves</li> <li>▪ Open and close fire</li> <li>▪ Ovens</li> </ul>
	Air duct, ventilation.

**Characteristics:**

Maximum use temperature	600 °C
Pressure level	Negative pressure (natural draught)
Condensate resistance	KB → Dry operating conditions KD → Wet operating conditions (for condensing boilers)
Fuel	Gas, gas oil, solids
Sootfire resistance	Yes
Minimum distance to combustible materials	See designations and diameters G → if sootfire resistance is required (xx) → distance in millimeters
Placement	Interior and exterior
Nominal diameters	Dn 80, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 550, 600 y 700 mm
Inner/outer wall diameters	81/176, 101/201, 126/226, 151/251, 176/276, 201/301, 251/351, 301/401, 351/451, 401/501, 451/551, 501/601, 551/651, 601/701, 701/801 mm
Inner wall material	KB → L20 → Stainless steel AISI 304 (1.4301) KD → L50 → Stainless steel AISI 316L (1.4404)
Outer wall material	Stainless steel AISI 304 (1.4301)
Thickness	Ø 80 a 300 mm → 0,4 mm Ø 350 a 600 mm → 0,5 mm Ø > 650 mm → 0,6 mm
Insulation	Rock wool: 128 kg/m <sup>3</sup> density, 50 mm thickness
Seal	None
Compressive strength	Maximun load: 12 m

**CE**  
**EI 30**  
**EI 60**

MALE



FEMALE

Figure 1



**TECHNICAL  
DATA**

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Tensile strength	Maximun load: 12 m
Support compressive strength	Maximun load: 12 m
Lateral strength (wind load resistance)	Maximun distance between wall supports: 3 m Free length from the last support: 1,5 m
Non-vertical installation	45°, maximun distance between wall supports: 3 m 90°, maximun distance between wall supports: 2 m
Freeze-thaw resistance	Resistant
Flow resistance: straight sections	Roughness: 1 mm (according to EN 13384-1)
Flow resistance: fittings	According to EN 13384-1
Thermal resistance	Dn 80: 0,45 m <sup>2</sup> K/W Dn 300: 0,60 m <sup>2</sup> K/W Dn 700: 0,65 m <sup>2</sup> K/W
Fire resistance	EI 30 (ve i→o) (according to EN 13501-3:2007) EI 60 (ve o→i)
Fire reaction	Class A1
Support installation	Base support each 12 m (axial load) Wall support each 3 m (lateral load) Adjustable wall separation: 50 – 80 mm
Surface temperature	> 70 °C, when flue gas temperature is 600 °C. The chimney shall be protected from touching where accidental human contact is possible.
Another	Fast assembly, no tools necessary. Components must be installed with end male on the top and end female in the bottom. See figure 1. The joint between two elements must be fixed with the clamp. Elements cannot be cut. Adjustable elements are available.