

Double wall metal system chimney DWPEL

This system can be used for pellet stoves. The pipes are composed of an internal pipe consisting of stainless steel 316L of 0.4mm thick and an external pipe consisting of stainless steel 304, also 0.4 mm thick.

Identification	EN1856-1 – T200 – P1 – W – V2 – L50040 – O(00) EN1856-1 – T600 – N1 – W – V2 – L50040 – G(50)
Intended use	Removal of flue gases from pellet stoves to the outside atmosphere
Manufacturer	<p>PRONOX</p> <p>Venecoweg 22 IZ De Prijkels B-9810 Nazareth T +32 9 381 09 40 F + 32 9 380 40 22</p>

System of assessment and verification of performance: system 2+.

The official certification body with identification n°0036 TÜV SÜD Industrie Service GmbH performed the initial inspection of the manufacturing plant and of factory production control and is responsible for the continuous surveillance, assessment and evaluation of factory production control.

PROPERTIES OF MATERIALS		
Diameter (mm) internal pipe	80	100
Thickness (mm) internal pipe	0,4	0,4
Material internal pipe	1.4404 – AISI 316L	
Diameter (mm) external pipe	130	150
Thickness (mm) external pipe	0,4	0,4
Material external pipe	1.4301 – AISI 304	
Min. weight 1000 mm (kg)	3,1	3,7
Insulation	Mineral wool with a density of 90 kg/m3, thickness 25mm	

ESSENTIAL CHARACTERISTICS	PERFORMANCE	§ EN1856-1
Compressive strength	maximum height of 29m between 2 supports	6.2.1.1
Non vertical installation	each component has to be supported separately	6.2.3.1
Wind load	maximum 2 free standing pipes	6.2.3.2
Temperature classification	T600 (tested till 700°C) for N1 T200 (tested till 250°C) for P1	6.6.1
Sootfire resistance	Yes for N1	6.4
Distance from flammable materials	50mm for T600 0mm for T200	6.6.1
Thermal resistance	Diameter 80mm: 0,319m ² K/W at 70°C and 0,271m ² K/W at 200°C Diameter 100mm: 0,333m ² K/W at 70°C and 0,283m ² K/W at 200°C	6.6.3
Gas tightness	P1: better than 0,006l/(s m ²) at 200Pa N1: better than 2,0l/(s m ²) at 40Pa	6.5
Water vapour diffusion and condensate penetration resistance	yes	6.6.4 6.6.5
Flow resistance (pipes)	average roughness of 1mm	6.6.7.1
Flow resistance (accessories)	87° Tee: 1,20 45° Tee: 0,35 3° elbow: 0,05 Tapered term.: 0,00 15° elbow: 0,15 30° elbow: 0,20 45° elbow: 0,40 Rain cap term.: 0,80	6.6.7.2 6.6.7.3
Corrosion resistance	category V2	6.7.1
Freeze-thaw resistance	yes	6.7.3

The performance of the product 'Double wall metal system chimney DWPEL' is in conformity with the performance stated above.

This declaration of performance is issued under the sole responsibility of the manufacturer Pronox NV.

Signed for and on behalf of the manufacturer by:

Nazareth, 1 April 2020

Anne Santens, CEO