

Double wall flue gas evacuation system DWi4G

This system can be used for all heating appliances with open or closed combustion of gas. The pipes are composed of an internal pipe consisting of stainless steel 304 of 0.4mm thick and an external pipe consisting of galvanized steel in 0,6 mm thick.

Identification	EN1856-1 – T600 – N1 – W – Vm – L20040 – G(80) EN1856-1 – T450 – N1 – W – Vm – L20040 – O(60)
Intended use	Removal of flue gases from fire places to the outside atmosphere from combustion of gas for underpressure
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°0749 BCCA (Belgian Construction Certification Association) 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	125	131	139	150	153	180	200	230	250	300
Thickness (mm) internal pipe	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Material internal pipe	1.4301 – AISI 304									
Diameter (mm) external pipe	180	180	200	200	203	230	250	280	300	350
Thickness (mm) external pipe	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Material external pipe	Galvanized steel DX51D Z275									
Min. weight 1000 mm (kg)	4,723	4,638	5,441	5,250	5,340	6,146	6,743	7,639	8,237	9,730
Min. weight 500 mm (kg)	2,386	2,343	2,747	2,652	2,697	3,103	3,405	3,857	4,158	4,911
Min. weight 300 mm (kg)	1,462	1,436	1,161	1,625	1,653	1,902	2,086	2,363	2,547	3,009
Insulation	Rock wool - 25 mm – 160 kg/m ³ - Teko Flock Z-7-123.12-1729									

ESSENTIAL CHARACTERISTICS	PERFORMANCE	§ EN1856-1
Compressive strength	maximum height of 10m 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) T450 (tested till 550°C)	6.6.1
Sootfire resistance	Yes, for T600	6.4
Distance from flammable materials	until diameter 300mm: G = 80mm	6.6.1
Thermal resistance	0,44m² K/W	6.6.3
Gas tightness	N1: better than 2,0l/(s m²) at 40Pa	6.5
Water vapor diffusion and condensate penetration resistance	yes	6.6.4 6.6.5
Flow resistance (pipes)	Maximum roughness of 1mm	6.6.7.1
Flow resistance (accessories)	according to 13384-1	6.6.7.2 6.6.7.3
Corrosion resistance	category Vm	6.7.1
Freeze-thaw resistance	yes	6.7.3

The performance of the product ‘Double walled flue gas removal system DWi4G’ 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, 05 November 2019

Anne Santens, CEO