



**Declaration of Performance
Sflue - System Chimney**

Sflue DOP Issue 4

BS EN 1856-1



1. Unique identification code of the product-type:

**Multi-Wall Metal System Chimney
EN 1856-1**

2. Type, batch or serial number or any other element allowing identification of the construction product as required under article 11(4):

Manufacturer Identification(s):

Sflue

Model 1 DN (127-203) T450 N1 D Vm L50040 GXX

Model 2 DN (127-203) T600 N1 D Vm L50040 GXX

XX See paragraph 9.2

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

To convey the products of combustion from a gas, oil or solid fuel fired appliance to atmosphere under negative draught and dry conditions.

4. Name, registered trade name or registered trade mark and contact address of the manufacture as required under article 11(5):

**SFL
Pottington Business Park
Barnstaple
Devon
United Kingdom
EX31 1LZ
Tel: 01271 326633 Fax: 01271 334303
Email: info@sflchimneys.com Web: www.sflchimneys.com**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

N/A

6. System of assessment and verification of consistency of performance as set out in CPR, Annex V:

System 2+ and System 4 (Terminals)

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Notified factory production control certification body 2797 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control and issued the certificate of conformity 2797 CPR 496040.

BSI Group The Netherlands B.V.
John M. Keynesplein 9,
1066 EP Amsterdam,
The Netherlands.

8. Declared Performance to Annex ZA - EN 1856-1

	Essential Characteristics	Performance	Harmonised Technical Specifications
8.1	Compressive strength Chimney sections, fittings and supports	See Appendix A	EN 1856-1: 2009
8.2	Resistance to fire	Model 1 (DN127-DN203): T450 G50 Tested in a fully enclosed combustible enclosure using ventilated firestop plates at floor and ceiling level Model 2 (DN127-DN203): T600 G50 Tested unenclosed in zone B using ventilated firestops at floor and ceiling level	
8.3	Gas tightness / leakage	Model 1,2 (DN127-DN203): N1	
8.4	Flow resistance of chimney sections Flow resistance of chimney fittings	Mean Value of Roughness: 1mm According to EN 13384-1	
8.5	Thermal resistance	0.42 m ² K/W @ 200°C	
8.6	Thermal shock resistance Sootfire resistance	Model 1,2 (DN127-DN203): Yes	
8.7	Thermal performance under normal operating conditions	Model 1 (DN127-DN203): T450 Model 2 (DN127-DN203): T600	
8.8	Flexural tensile Strength (only for means of connection for a chimney and fittings)	See Appendix A	
8.9	Non vertical installations	Model 1,2 (DN127-DN203): 3m between lateral supports at 45°	
9.10	Components subject to wind load	Model 1,2 (DN127-DN203): ≤ 1.5m above last support ≤ 3m between supports	

8.11	Water and vapour diffusion resistance	Model 1,2 (DN127-DN203): No	EN 1856-1: 2009
8.12	Condensate penetration resistance.	Model 1,2 (DN127-DN203): No	
8.13	Durability against corrosion	Model 1,2 (DN127-DN203): Vm L50040 Liner: 0.4mm 316L (1.4404) Outer Case: 0.4mm 304 (1.4301)	
8.14	Freeze thaw	Model 1,2 (DN127-DN203): Yes	

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

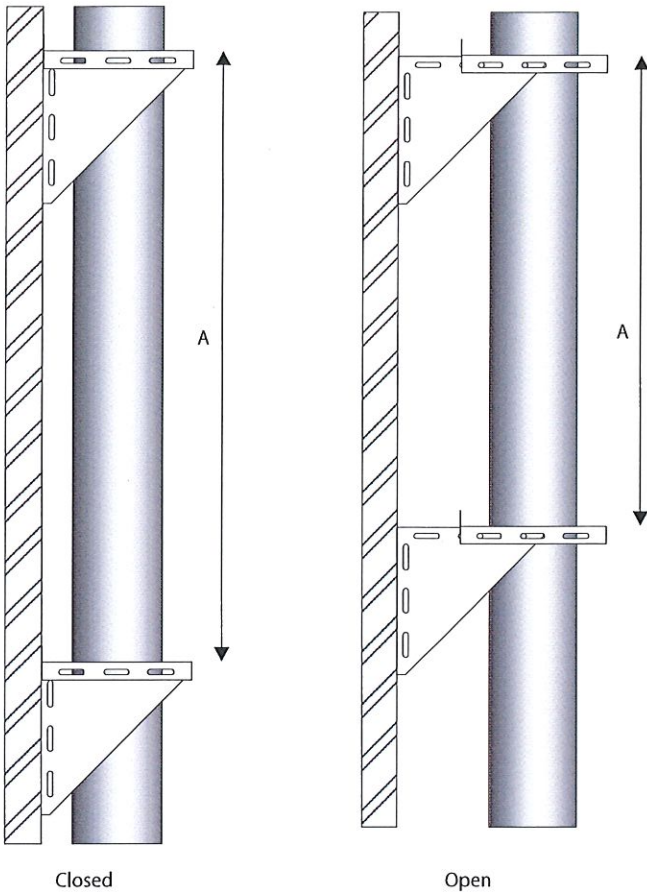
Barnstaple, Devon 22/12/2020


.....
Flavio Buccianti - Managing Director

Appendix A - Structural Loadings

All mechanical loadings unless indicated have been converted to metres of product for ease of application based on the design loads of the test data. The product design loads represent the nearest approximation based on the weight tolerance of the product and current technical literature.

Compressive loading - Support Plates



Product Size (mm)	Max. Length Between Supports (Mtrs)			
	Stainless Steel		Galvanised Steel	
	CLOSED	OPEN	CLOSED	OPEN
127	30	25	30	25
152	30	25	30	25
178	25	20	25	20
203	25	15	25	15

Compressive Loading - Tees (Vertical Loading in Metres)

Component	Product Size (mm)			
	127	154	178	203
90° Tee	13	13	13	13
135° Tee	11	11	11	7

Compressive Loading - Lengths (Vertical Loading in Metres)

Component	Product Size (mm)			
	127	154	178	203
Lengths	90	77	64	57

Tensile Loading - Joint Design (Metres of Product)

Component	Product Size (mm)			
	127	154	178	203
Lengths	77	65	54	48