



SFL



2797 CPR 496040

**Declaration of Performance  
NOVA - System Chimney**

NOVA DOP Issue 7  
BS EN 1856-1

1. Unique identification code of the product-type:

**Multi Wall Metal System Chimney  
EN 1856-1: 2009**

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

Manufacturers Identification(s):

**NOVA, NOVA PLUS, NOVA SM, NOVA NX**

Model 1	DN (100-355)	T200	P1	W	V2	L50050	OXX
Model 2	DN (100-200)	T160	H1	W	V2	L50050	OXX
Model 3	DN (100-355)	T450	N1	D	V3	L50050	GXX
Model 4	DN (100-355)	T600	N1	D	V3	L50050	GXX

XX See paragraph 8.2

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. For positive draught and wet systems, seals can be retrofitted to the joint.**

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](mailto:info@sflchimneys.com) Web: [www.sflchimneys.com](http://www.sflchimneys.com)**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks 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. 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 2797 CPR 496040 of the factory production control.

**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 (DN100-304): T200 O50 (Enclosed) Model 2 (DN100-200): T160 O50 (Enclosed) Model 3 (DN100-304): T450 G50 (Enclosed) Model 4 (DN100-304): T600 G50 (Unenclosed) Model 1 (DN355): T200 O75 (Enclosed) Model 2 (DN355): T160 O75 (Enclosed) Model 3 (DN355): T450 G75 (Enclosed) Model 4 (DN355): T600 G75 (Unenclosed)	
8.3	Gas tightness / leakage	Model 1 DN (100-355): PI Fitted Seals Model 2 DN (100-200): HI Fitted Seals Model 3,4 DN (100-355): NI No Seals	
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	0.30 m <sup>2</sup> K/W @ 200°C	
8.6	Thermal shock resistance  Sootfire resistance	Model 1,2 DN (100-355): No Model 3,4 DN(100-355): Yes	
8.7	Thermal performance under normal operating conditions	Model 1 DN (100-355): T200 Model 2 DN (100-200): T160 Model 3 DN (100-355): T450 Model 4 DN (100-355): 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 1,2,3,4 (100-355) 3m between lateral supports at 90°	
9.10	Components subject to wind load	Model 1,2,3,4 <u>DN100</u> ≤ 2.0m above last support ≤ 4m between supports <u>DN (130-355)</u> ≤ 3.0m above last support ≤ 4m between supports	

8.11	Water and vapour diffusion resistance	Model 1,2 DN (100-355): Yes Model 3,4 DN (100-355): No	EN 1856-1: 2009
8.12	Condensate penetration resistance.	Model 1,2 DN (100-355): Yes Model 3,4 DN (100-355): No	
8.13	Durability against corrosion	Model 1,2 DN(100-355): V2 WET Models 3,4 DN(100-355): V3 DRY	
8.14	Freeze thaw	Model 1,2,3,4 (100-355): Yes	

*For further technical information, please refer to the product sales literature.*

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 04/11/2024

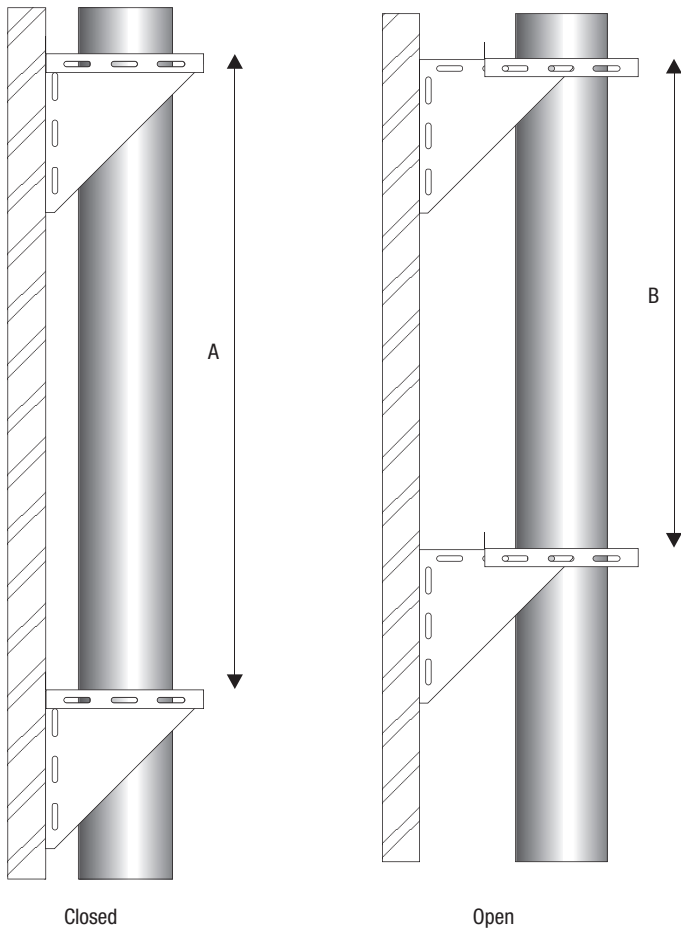


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**Flavio Buccianti - Managing Director**

## 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)	(Design Load) Max. Length Between Supports (Mtrs)			
	Stainless Steel		Galvanised Steel	
	CLOSED	OPEN	CLOSED	OPEN
80	30	25	30	25
100	30	25	30	25
130	30	25	30	25
150	30	25	30	25
180	20	15	20	15
200	20	15	20	15
250	20	15	20	15
304	20	15	20	15
355	18	12	18	12

### Compressive Loading - Tees (Vertical Loading in Metres)

Component								
	100	130	150	180	200	250	304	355
90°, 95° & 85° Tee	13	13	13	13	13	13	13	13
135° Tee	13	13	13	13	13	13	13	13

### Compressive Loading - Lengths (Vertical Loading in Metres)

Component								
	100	130	150	180	200	250	304	355
Lengths	153	140	124	106	96	79	66	62

### Tensile Loading - Joint (Metres of Product)

Component								
	100	130	150	180	200	250	304	355
Lengths	81	65	58	49	45	37	31	27