

# Declaration of Performance

## HP-5000 [50 CAVITY] – System Chimney

GB-020-DOP-13-11-15

# Declaration of Performance

No. GB-020-DOP-13-11-15

1. Unique identification code of the product-type:

**Multi-wall Metal System Chimney (with 316L & 444 Liner options)  
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):

## HP-5000 [50 Cavity]

Designation 1	DN (120 - 300)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50060</b>	<b>G25</b>
Designation 1	DN (350 - 450)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50060</b>	<b>G37.5</b>
Designation 1	DN (500 - 600)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50060</b>	<b>G50</b>
Designation 1	DN (650 - 800)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50060</b>	<b>G100</b>
Designation 2	DN (120 - 300)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50100</b>	<b>G25</b>
Designation 2	DN (350 - 450)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50100</b>	<b>G37.5</b>
Designation 2	DN (500 - 600)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50100</b>	<b>G50</b>
Designation 2	DN (650 - 800)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L50100</b>	<b>G100</b>
Designation 3	DN (120 - 300)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99060</b>	<b>G25</b>
Designation 3	DN (350 - 450)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99060</b>	<b>G37.5</b>
Designation 3	DN (500 - 600)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99060</b>	<b>G50</b>
Designation 3	DN (650 - 800)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99060</b>	<b>G100</b>
Designation 4	DN (120 - 300)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99100</b>	<b>G25</b>
Designation 4	DN (350 - 450)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99100</b>	<b>G37.5</b>
Designation 4	DN (500 - 600)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99100</b>	<b>G50</b>
Designation 4	DN (650 - 800)	<b>T600</b>	<b>H1</b>	<b>W</b>	<b>V2</b>	<b>L99100</b>	<b>G100</b>

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

**Convey the products of combustion from heating appliances to the outside atmosphere**

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

**Schiedel Chimney Systems Ltd  
Crowther Estate  
Washington**

**Tyne & Wear**

**NE38 0AQ  
UK  
Telephone: +44 (0) 191 4161150  
Fax: +44 (0) 191 4151263  
Email: sales@schiedel.co.uk**

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 or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**System 2+ and System 4**

7. Notified factory production control certification body No. **0036** 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.

**TÜV Industrie Service GmbH TÜV Süd Gruppe**  
**Ridlerstraße 65**  
**D-80339 München**

8. Declared performance

Essential characteristics and clauses to EN 1856-1	Performance	Harmonized technical specification
Compressive strength	Designation(s) 1, 2, 3 & 4:  npd	EN 1856-1: 2009
Chimney sections, fittings and supports	For further information see installation instructions	
Resistance to fire	Designation(s) 1, 2, 3 & 4:  DN (120 – 300) : T600 G25 DN (350 - 450) : T600 G37.5 DN (500 - 600) : T600 G50 DN (650 - 800) : T600 G100  *Tested fully enclosed and with ventilated floors.	
Gas tightness /leakage	Designation(s) 1, 2, 3 & 4:  DN (120 – 800) : H1 (Passed)	
Flow resistance of chimney sections	Designation(s) 1, 2, 3 & 4:  DN (120 – 800) : 1mm	
Flow resistance of chimney fittings	Zeta 0.3 according EN 13384-1	
Flow resistance of terminals	Zeta 0.5 according EN 13384-1	
Thermal resistance	Designation(s) 1, 2, 3 & 4:  DN (120 – 800) : npd	EN 1856-1: 2009
Thermal shock resistance	Designation(s) 1, 2, 3 & 4: Yes	
Sootfire Resistance:	Designation(s) 1, 2, 3 & 4: Yes	
Thermal performance under normal operating conditions:	Designation(s) 1, 2, 3 & 4:  DN (120 – 800) : T600	

Essential characteristics and clauses to EN 1856-1	Performance	Harmonized technical specification
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Designation(s) 1, 2, 3 & 4: npd	EN 1856-1: 2009
Non vertical installation	Designation(s) 1, 2, 3 & 4: DN (120 – 800) between supports $\leq 3\text{m}$ at $90^\circ$	
Components subject to wind load	Designation(s) 1, 2, 3 & 4: npd	
Durability Water and vapour diffusion resistance	Designation(s) 1, 2, 3 & 4: DN (120 – 800) : Yes	
Condensate penetration resistance	Designation(s) 1, 2, 3 & 4: DN (120 – 800) : Yes	
Against corrosion	Designation(s) 1, 2, 3 & 4: DN (120 – 800) : V2	
Freeze thaw resistance	Designation(s) 1, 2, 3 & 4: DN (120 – 800) : Yes	

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.  
This 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:

**Michael Ball: Chief Executive Officer**

(name and function)

**Washington, 22<sup>nd</sup> July 2014**

(place and date of issue)



(signature)