

Declaration of Performance

ICS-25 – System Chimney

GB-001-DOP-13-11-15

Declaration of Performance

No. GB-001-DOP-13-11-15

1. Unique identification code of the product-type:

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

ICS-25, Perimeter-25, Metalbestos Multi-25

Designation 1	DN (80 – 300)	T450	N1	W	V2	L50050	G60
Designation 1	DN (350 - 450)	T450	N1	W	V2	L50050	G90
Designation 1	DN (500 - 600)	T450	N1	W	V2	L50050	G120
Designation 1	DN (650 - 700)	T450	N1	W	V2	L50050	G240
Designation 2	DN (80 – 300)	T450	N1	D	V3	L50050	G60
Designation 2	DN (350 - 450)	T450	N1	D	V3	L50050	G90
Designation 2	DN (500 - 600)	T450	N1	D	V3	L50050	G120
Designation 2	DN (650 - 700)	T450	N1	D	V3	L50050	G240
Designation 3	DN (80 – 300)	T450	N1	W	V2	L50050	G50
Designation 3	DN (350 - 450)	T450	N1	W	V2	L50050	G75
Designation 3	DN (500 - 600)	T450	N1	W	V2	L50050	G100
Designation 3	DN (650 - 700)	T450	N1	W	V2	L50050	G200
Designation 4	DN (80 – 300)	T450	N1	D	V3	L50050	G50
Designation 4	DN (350 - 450)	T450	N1	D	V3	L50050	G75
Designation 4	DN (500 - 600)	T450	N1	D	V3	L50050	G100
Designation 4	DN (650 - 700)	T450	N1	D	V3	L50050	G200
Designation 5	DN (80 – 700)	T200	P1	W	V2	L50050	O00
Designation 6	DN (80 – 200)	T600	N1	W	V2	L50050	G00 (M)
Designation 7	DN (80 – 200)	T400	N1	W	V2	L50050	G00 (M)

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):

**(Metalbestos Multi 25)
Kierulff a/s
Nordre Løkkebyvej 3
5953 Tranekær
Danmark
Telephone: +45 62 50 11 50
Fax: +44 62 50 20 93
Email: info@kierulff.dk**

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 Chimney sections, fittings and supports	<p>Designation(s) 1, 2, 3, 4, 5, 6 & 7:</p> <p>DN (80 – 130) : 22m DN (150 - 180) : 18m DN (200 - 300) : 18m DN (350 - 450) : 12m DN (500 - 550) : 12m DN (600 - 700) : 10m</p> <p>For further information see installation instructions</p>	
Resistance to fire	<p><u>Designation(s) 1 & 2:</u></p> <p>DN (80 – 300) : T450 G60 DN (350 - 450) : T450 G90 DN (500 - 600) : T450 G120 DN (650 - 700) : T450 G240</p> <p>*Tested fully enclosed in a combustibile shaft; floor penetration fully ventilated with ventilated fire-stop plates.</p> <p><u>Designation(s) 3 & 4:</u></p> <p>DN (80 – 300) : T450 G50 DN (350 - 450) : T450 G75 DN (500 - 600) : T450 G100 DN (650 - 700) : T450 G200</p> <p>*Tested fully enclosed in a non-combustibile shaft; floor penetration fully insulated with solid fire-stop plates.</p> <p><u>Designation 5:</u></p> <p>DN (80 – 700) : T200 O00</p> <p>*Tested non enclosed; floor penetration fully ventilated with ventilated fire stop plates. ** Can also be installed fully enclosed in a non-combustibile shaft; floor penetration fully insulated with solid fire-stop plates.</p> <p><u>Designation 6: (System Chimney using a non-combustibile shaft)</u></p> <p>DN (80 – 200) : T600 G00</p> <p>*Tested in a 12.5mm non-combustibile Promafour shaft(60mm distance between outer casing of chimney and inner liner of the shaft); ventilated firestops at the base, ventilated support plates through the 1st floor and ventilated fire-stop plates at the top of the shaft.</p> <p><u>Designation 7: (System Chimney using a non-combustibile shaft)</u></p> <p>DN (80 – 200) : T400 G00</p> <p>*Tested in a 12.5mm non-combustibile Promafour shaft (60mm distance between outer casing of chimney and inner liner of the shaft); solid firestops at the base, ventilated support plates through the 1st floor and ventilated fire-stop plates at the top of the shaft.</p>	<p>EN 1856-1: 2009</p>

Essential characteristics and clauses to EN 1856-1	Performance	Harmonized technical specification
Gas tightness /leakage	Designation(s) 1, 2, 3, 4, 6 & 7: DN (80 – 700) : N1 (Passed) Designation 5: DN (80 – 700) : P1 (Passed)	EN 1856-1: 2009
Flow resistance of chimney sections Flow resistance of chimney fittings Flow resistance of terminals	Designation(s) 1, 2, 3, 4, 5, 6 & 7: DN (80 – 700) : 1mm Zeta 0.3 according EN 13384-1 Zeta 0.5 according EN 13384-1	
Thermal resistance	Designation(s) 1, 2, 3, 4, 5, 6 & 7: DN (80 – 700) : 0.37 m ² K/W tested at 200°C	
Thermal shock resistance Sootfire Resistance:	<u>Designation(s) 1, 2, 3, 4, 6 & 7:</u> DN (80 – 700) : Yes. <u>Designation 5:</u> No as designated O	
Thermal performance under normal operating conditions:	<u>Designation(s) 1, 2, 3, 4:</u> DN (80 – 700) : T450 <u>Designation 5:</u> DN (80 – 700) : T200 <u>Designation 6:</u> DN (80 – 200) : T600 <u>Designation 7:</u> DN (80 – 200) : T400	
Flexural tensile strength (only for means of connection for chimney sections and fittings)	Designation(s) 1, 2, 3, 4, 5, 6 & 7: DN 80 - 46 metres DN 200 – 21 metres DN 300 - 15 metres DN 700 - 6 metres	
Non vertical installation	Designation(s) 1, 2, 3, 4, 5,,: DN (80 – 500) between supports ≤ 3m at 90° DN (550 - 700) between supports ≤ 4m at 90°	
Components subject to wind load	Designation(s) 1, 2, 3, 4, 5, <u>DN (80 – 400)</u> ≤ 3 m above last support ≤ 4 m between supports <u>DN (450 - 700)</u> ≤ 2 m above last support ≤ 3 m between supports	
Durability Water and vapour diffusion resistance	Designation(s) 1, 2, 3, 4, 5, 6 & 7: DN (80 – 700) : Yes	

Essential characteristics and clauses to EN 1856-1	Performance	Harmonized technical specification
Condensate penetration resistance	<u>Designation(s) 1, 3, 5, 6 & 7:</u> DN (80 – 700) : Yes <u>Designation(s) 2 & 4:</u> DN (80 – 700) : No as designated Dry	
Against corrosion	<u>Designation(s) 1, 3, 5, 6 & 7:</u> DN (80 – 700) : V2 <u>Designation(s) 2 & 4:</u> DN (80 – 700) : V3	
Freeze thaw resistance	<u>Designation(s) 1, 2, 3, 4, 5, 6 & 7:</u> DN (80 – 700) : 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)



(signature)

Washington, 22nd July 2014

(place and date of issue)