|  |
| --- |
| Declaration of Performance |
| **No. 001/b-DOP-2024-03-24** |

|  |  |  |
| --- | --- | --- |
| 1. | Unique identification code of the product type: | **Multi-wall Metal System Chimney (with 444 Liner)****ICS 25** |
| 2. | Intended use: | **Convey the products of combustion from heating appliances to the outside atmosphere** |
| 3. | Product designations: | Model 1 | DN (80 – 300) | **T450 N1 W V2 L99050 G60** |
|  |  |  | DN (350 - 450) | **T450 N1 W V2 L99050 G90** |
|  |  |  | DN (500 - 600) | **T450 N1 W V2 L99050 G120** |
|  |  |  | DN (650 - 900) | **T450 N1 W V2 L99050 G240** |
|  |  |  |  |  |
|  |  | Model 2 | DN (80 – 300) | **T450 N1 D V2 L99050 G60** |
|  |  |  | DN (350 - 450) | **T450 N1 D V2 L99050 G90** |
|  |  |  | DN (500 - 600) | **T450 N1 D V2 L99050 G120** |
|  |  |  | DN (650 - 900) | **T450 N1 D V2 L99050 G240** |
|  |  |  |  |  |
|  |  | Model 3 | DN (80 – 300) | **T450 N1 W V2 L99050 G50** |
|  |  |  | DN (350 - 450) | **T450 N1 W V2 L99050 G75** |
|  |  |  | DN (500 - 600) | **T450 N1 W V2 L99050 G100** |
|  |  |  | DN (650 - 900) | **T450 N1 W V2 L99050 G200** |
|  |  |  |  |  |
|  |  | Model 4 | DN (80 – 300) | **T450 N1 D V2 L99050 G50** |
|  |  |  | DN (350 - 450) | **T450 N1 D V2 L99050 G75** |
|  |  |  | DN (500 - 600) | **T450 N1 D V2 L99050 G100** |
|  |  |  | DN (650 - 900) | **T450 N1 D V2 L99050 G200** |
|  |  |  |  |  |
|  |  | Model 5 | DN (80 - 700) | **T200 P1 W V2 L99050 O00** |
|  |  |  |  |  |
|  |  | Model 6 | DN (80 - 300) | **T600 N1 W V2 L99050 G75** |
|  |  |  |  |  |
|  |  | Model 7 | DN (80 - 300) | **T600 N1 D V2 L99050 G75** |
|  |  |  |  |  |
|  |  | Model 8 | DN (80 - 200) | **T600 N1 W V2 L99050 G00** |
|  |  |  |  |  |
|  |  | Model 9 | DN (80 - 200) | **T400 N1 W V2 L99050 G00** |
|  |  |  |
| 4. | Manufacturer: | **Schiedel s.r.o.,** **Horoušanská 286,** **CZ-250 81 Nehvizdy** |
| 5. | Authorized representative: | **N/A** |
| 6. | System(s) of AVCP: | **System 2+** (and System 4 for terminals) |
| 7. | Harmonized standard: | **EN 1856-1:2009** |
|  | Notified body: | **0036** |

8. Declared performance:

|  |  |  |
| --- | --- | --- |
| **Essential characteristics** | **Performance** | **Harmonized technical specification** |
| Compressive strength  | Model(s) 1 to 9: DN (80 – 130): **22 m**DN (150 - 180): **18 m**DN (200 - 300): **18 m**DN (350 - 450): **12 m**DN (500 - 550): **12 m**DN (600 - 700): **10 m**DN (750 - 900): **npd** | EN 1856-1: 2009 |
| Chimney sections, fittings and supports | For further information see installation instructions |
| Resistance to fire | Model(s) 1, 2:DN (80 – 300): **T450 G60**DN (350 - 450): **T450 G90**DN (500 - 600): **T450 G120** DN (650 - 900): **T450 G240**\*Tested fully enclosed in a combustible shaft; floor penetration fully ventilated with ventilated fire-stop plates. Model(s) 3, 4:DN (80 – 300): **T450 G50**DN (350 - 450): **T450** **G75**DN (500 - 600): **T450** **G100**DN (650 - 900): **T450** **G200**\*Tested fully ventilated\*\*Tested fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates. Model5:DN (80 – 700): **T200** **O00**\*Tested non-enclosed; floor penetration fully ventilated with ventilated fire stop plates. \*\* Can also be installed fully enclosed in a non-combustible shaft; floor penetration fully insulated with solid fire-stop plates. Model(s) 6, 7:DN (80 – 300): **T600** **G75**\*Tested fully ventilatedModel 8:DN (80 – 200): **T600** **G00**\*Tested in a 12.5mm non-combustible Promafour shaft (60 mm distance between outer casing of chimney and inner liner of the shaft); ventilated firestops at the base, ventilated support plates through the 1.t floor and ventilated fire-stop plates at the top of the shaft. Model 9:DN (80 – 200): **T400** **G00**\*Tested in a 12.5mm non-combustible 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 1.floor and ventilated fire-stop plates at the top of the shaft. | EN 1856-1: 2009 |

|  |  |  |
| --- | --- | --- |
| **Essential characteristics** | **Performance** | **Harmonized technical specification** |
| Gas tightness /leakage | Model(s) 1, 2, 3, 4, 6, 7, 8, 9:DN (80 – 900): **N1**Model 5:DN (80 – 700): **P1**  | EN 1856-1: 2009 |
| Flow resistance of chimney sections | Model(s) 1 to 9:DN (80 – 900): **1,0 mm** | EN 1856-1: 2009 |
| Flow resistance of chimney fittings Flow resistance of terminals | Zeta = **0.3** according EN 13384-1Zeta = **0.5** according EN 13384-1 | EN 13384-1: 2014 |
| Thermal resistance | Model(s) 1 to 9:DN (80 – 900): **0.37 m2 K/W** tested at 200°C | EN 1856-1: 2009 |
| Thermal shock resistance  |  | EN 1856-1: 2009 |
| Sootfire Resistance: | Model(s) 1, 2, 3, 4, 6, 7, 8, 9:DN (80 – 900): **Yes**Model 5: DN (80 – 700): **No** |
| Thermal performance under normal operating conditions: | Model(s) 1, 2, 3, 4: DN (80 – 900): **T450**Model 5: DN (80 – 700): **T200**Model(s) 6, 7:DN (80 – 300): **T600**Model(s) 8:DN (80 – 200): **T600**Model 9:DN (80 – 200): **T400** | EN 1856-1: 2009 |
| Flexural tensile strength (only for means of connection for chimney sections and fittings) | Model(s) 1 to 9:DN 80 = **48 m**DN 200 = **21** m DN 300 = **15** mDN 700 = **6** mDN 900 = **NPD** | EN 1856-1: 2009 |
| Non-vertical installation  | Model(s) 1 to 9:DN (80 – 500): between supports **≤ 3 m at 90°**DN (550 - 700): between supports **≤ 4 m at 90°**DN (750 - 900):  **NPD**  | EN 1856-1: 2009 |
| Components subject to wind load | Model(s) 1 to 9:DN (80 – 400): **≤ 3 m** above last support **≤ 4 m** between supportsDN (450 - 900): **≤ 2 m** above last support **≤ 3 m** between supports | EN 1856-1: 2009 |

|  |  |  |
| --- | --- | --- |
| **Essential characteristics** | **Performance** | **Harmonized technical specification** |
| Durability |  | EN 1856-1: 2009 |
| Water and vapour diffusion resistance  | Model(s) 1, 3, 5, 6, 8, 9:DN (80 – 900) : **Yes**Model(s) 2, 4, 7:DN (80 – 900) : **No** |
| Condensate penetration resistance | Model(s) 1, 3, 5, 6, 8, 9:DN (80 – 900) : **Yes**Model(s) 2, 4, 7:DN (80 – 900) : **No** |
| Durability against corrosion  | Model(s) 1 to 9:DN (80 – 900): **V2** |
| Freeze-thaw resistance | Model(s) 1 to 9:DN (80 – 900): **Yes** |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Teplice, 25.03.2024 Ivana Černa,

 Plant manager