



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague, SOE**

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Certificate No. 1020-CPR-070038635, Annex No. 5

**Technical description of the product**  
**Metal negative pressure flue liners type KF**

|   |  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|---|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal diameter of flue liner [mm]                   | 80   | 100              | 110              | 120              | 130              | 140              | 150              | 160              | 180              | 200              | 225              | 250              | 300              | 350              | 400              | 450              | 500              |
| Grade of material                                     | 1.4404, 1.4301 (1.4307), 1.4828, 1.4521  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Thickness of flue liner [mm]                          | 0,4<br>do<br>0,6   | 0,4<br>do<br>0,6 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 | 0,4<br>do<br>1,0 |
| Area of flue liner intersection [cm <sup>2</sup> ]    | 50   | 78               | 98               | 117              | 135              | 152              | 179              | 203              | 254              | 317              | 399              | 494              | 706              | 968              | 1262             | 1597             | 1970             |
| Maximum load [N/m]                                    | 14,8   | 16,5             | 19,4             | 20,9             | 22,55            | 23,3             | 26,07            | 26,51            | 33,88            | 34,7             | 37,4             | 43,4             | 52,3             | 58,0             | 69,63            | 47,58            | 87,0             |
| Purpose   | Drain of combustion products of gas, oil and energy solid fuels, wood, pellets |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Pressure level  | Negative pressure, Pressure level: N1  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Max. temperature of exhaust gases (Temperature class) | 450°C (T450)<br>steel 1.4828: 600°C (T600)                                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Condensate resistance *)                              | working dry - D, working wet - W   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Distance to combustible material                      | min. 500 mm  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Corrosion resistance                                  | Vm (for grade 1.4521: V1, V2, V3)  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Sootfire resistance                                   | G - resistant  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

\*) - in CR established by national regulation – CSN 73 4201, Annex A

**All chimney sections and fittings of Metal negative pressure flue liners type KF (made by KOMIN-FLEX) should be designated in accordance with the following designation system:**

**EN 1856-2    T450    N1    W    Vm    L50xxx    G500**

|  |           |
|--|-----------|
| Standard number  | EN 1856-2 |
| Temperature level (°C)   | T450      |
| Pressure level (negative pressure)   | N1        |
| Condensate resistance (D: dry, W: wet)   | W         |
| Corrosion resistance (Vm – dec. of material type, V1, V2, V3 – tests)                    | Vm        |
| Flue liner material specification (L50 - steel 1.4404, thickness of flue liner .0,XX mm) | L50xxx    |
| Sootfire resistance (G: resistant), distance to combustible material: min.500            | G500      |

The stamp of the Notified Body 1020

Ostrava, 18 May 2023



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