

## Declaration of Conformity

1. Product: covered by the technical documentation and product catalogue of Ciecholewski-Wentylacje Sp. z o.o.:  
 - TOC silencer  
 - TOKC silencer
2. Product classification: Polish Classification of Goods and Services (PKWiU) 28.75.27-49 Steel products, other.
3. Scope of application: Mechanical ventilation and air conditioning systems for ducting of fresh air to ensure air change in buildings intended for public utility, housing, industry, healthcare and pharmacy, food and electronic industry and offshore structures.
4. Reference documents:

Ciecholewski-Wentylacje Sp. z o.o. declares the conformity of the product with the below Standards and Technical Documentation:

The product meets the requirements of the current state of the art for mechanical ventilation systems, the requirements of the Swedish Technical Approval SC0234-16\*, has been approved in accordance with the Boverket Building Regulations (BBR) issued by the Swedish National Council for Housing and Planning, and meets:

Fire resistance class <b>E120</b>	5:231*
Fire technical alternatives <sup>1)</sup>	5:112* (BFS 2011:27, section 4.1.3)
Air handling installations	5:526*
Material	6:11*
Microorganisms <sup>2)</sup>	6:24*
Tightness <sup>3)</sup>	6:255*
Heating, cooling and handling installations	9:51*

4.1) The product may be used where fire resistance class EI30 is required, if the distance to escape routes, and to inflammable materials for TOC silencer is 50 mm (according to the report 5P00255-01 made on 2015-05-07)\*, whereas the safe distance for TOKC silencer is defined in Table 1:

Table 1. Safe distance for TOKC silencers measured in [mm]. According to the report 5P00255-01 made on 2015-05-07\*.

TOKC $\phi$	b x h [mm]	L=500 [mm]	L=1000 [mm]
		Safe distance [mm]	
80	190 x 135	190	200
100	220 x 155	220	230
125	250 x 175	240	260
160	290 x 215	270	300
200	340 x 255	300	340
250	400 x 305	330	400
315	470 x 370	360	450
400	545 x 465	390	510

4.2) The **TOC** noise silencer **with 100 mm insulation** may be used where fire resistance class **EI 60** is required, if distances to evacuation routes, **distances** to combustible material are fulfilled as **in table 2**. According to the report O100166 - 1110397 made on 2022-03-22\*.

Table 2. Safe distances from TOC silencers with 100 mm insulation. Distances to evacuation routes, distances to combustible material for fire resistance class EI 60. According to the report O100166 -1110397 made on 2022-03-22\*.

Type	W ( $\pm$ D) [mm]	L [mm]			
		300	600	900	1200
		Safe distance [mm] Distances to evacuation routes, distances to combustible material for fire resistance class EI 60			
TOC $\phi$ 80/100	280	100	120	120	120
TOC $\phi$ 100/100	300	100	130	130	130
TOC $\phi$ 125/100	315	110	130	140	140
TOC $\phi$ 140/100	355	110	140	150	160
TOC $\phi$ 150/100	355				
TOC $\phi$ 160/100	355	120	160	170	170
TOC $\phi$ 180/100	400				
TOC $\phi$ 200/100	400				
TOC $\phi$ 224/100	400	120	170	190	190
TOC $\phi$ 250/100	450				
TOC $\phi$ 280/100	500				
TOC $\phi$ 300/100	500	120	180	200	210
TOC $\phi$ 315/100	500				
TOC $\phi$ 355/100	560				
TOC $\phi$ 400/100	600	130	200	240	250
TOC $\phi$ 450/100	630	130	210	240	260
TOC $\phi$ 500/100	710	130	220	260	280
TOC $\phi$ 560/100	800	130	230	280	310
TOC $\phi$ 600/100	800				
TOC $\phi$ 630/100	800				

4.3) The air treatment unit or system must be fitted with filters, located upstream the silencers, classified at least as F7 in accordance with EN 779. The product must not be installed in ducts intended for air transmission, containing greasy and viscous substances, e.g. in air exhaust dusts of kitchen hoods.

4.4) The ventilation duct system with an activated silencer shall be tested for tightness in accordance with EN 12237. The system shall meet the requirements of tightness class A, B, C, D.

4.5) Technical assessment, certification, production supervision, integrity (E) testing and calculation of the safe distance for insulation (I) was performed by RISE Technical Research Institute of Sweden AB\* .

4.6) TOC and TOKC silencers also meet the requirements of the following European standards:

- EN 1506:2007 Ventilation for buildings — Sheet metal air ducts and fittings with circular cross-section — Dimensions.

- EN 15727:2010 Ventilation for buildings — Ducts and ductwork components, leakage classification and testing.

The silencers meet the requirements of tightness class D.

5. Declared material properties: TOC and TOKC silencers are made of galvanised steel sheet, grade DX51D+Z 275 MAC, and non-flammable mineral wool.
6. I declare with full responsibility that the products included in the Declaration, listed in point 1, are in conformity with the reference documents listed in point 4.

Koźmin, 08-12-2022 r.

Signature of authorised person:

Pełnomocnik Zarządu ds. SZJ  
Quality Manager  
  
Izabela Jagiello

\* concerns the conformity of the product with the national standards of Sweden