



Assessment report No. 1.6/pos/19/19b
Hygienic assessment of ventilation components – Fire dampers

Expertise No. : SZÚ/4892/2019, EX 191755
Customer: Mandík a.s., Dobříšská 550, 267 24 Hostomice
Manufacturer: Mandík a.s., Dobříšská 550, 267 24 Hostomice

Assessed products: Type ranges of fire dampers
CFDM/CFDM-V,
DM-E, DM-S,
FDMA (sold also under the name PKTM 90-C(K)),
FDMB (sold also under the names PKTM III-C(K), BSK-B-90-E,
BSK-B-90-R),
FDMC,
FDMD (sold also under the name BSK-D-90-R),
FDML,
FDMR, FDMR 60,
FDMS/FDMS-VAV,
FDMQ (sold also under the names PKTM 90PM-C(K), FDMA-PM,
BSK-A-90-E, BSK-A-90-R).

Documents used:

- Technical documents and photographic documentation of Mandík a.s., www.mandik.cz
- Certificates and Material sheets – PROMAT a GUMEX products
- Certificate SC 1433-17 z 29. 06. 2018, RISE Research Institutes os Sweden AB
- Declaration of Conformity PM/PKTM_90/01/19/1, PM/PKTM_III/01/16/1, PM/FDML/01/18/01, PM/FDMS_FDMS-VAV/01/19/01 PM/CFDM_CFDM-V/01/19/01, PM/FDMR/01/19/01, PM/FDMR-60/01/19/01, PM/FDMC/01/16/01, PM/FDMD/01/16/01
- Technical specifications 018/01, 075/09, 130/17, 125/17, 118/16, 103/14, 140/19, 142/19, 083/12, 092/13, 084/12, 095/13, 103/14
- Certificate of constancy of performance 1391-CPR-2016/0158, 1391-CPR-0011/2014, 1391-CPR-2018/0025/O1, 1391-CPR-2019/0023, 1391-CPR-2018/0129, 1391-CPR-2019/0160, 1391-CPR-2019/0161, 1391-CPR-0090/2014, 1391-CPR-0089/2014, 2016/C5a/2013/0207, 1391-CPR-2016/0083
- Certificate PAVUS a.s. – rubber compound and linear sealing of fire dampers
- Certificate ITC Zlín – silicon compound
- VDI 6022-1 Hygiene and Hygiene Inspections of HVAC Systems
- VDI 2167-1 Building services in hospitals - Heating, ventilation and air-conditioning
- DIN 1946-4 Ventilation in buildings and rooms of health care.
- ČSN EN 13053+A1 Ventilation for buildings - Air handling units - Rating and performance for units, components and sections
- VDI 3803 Blatt 1 – Air-conditioning - Structural and technical principles - Central air-conditioning systems



Product description:

Type ranges of rectangular and round fire dampers. The damper body is from galvanized (or black steel or stainless steel) sheet metal; some types include thermoexpandable Promoseal tape in the damper shaft axis plane, fixed around the damper body from the inside. Damper blades are made of sheets of Promatect H or Promatec MS fire protection material. Sealing of the blade (after closing) is made using silicon or rubber sealing together with a ceramic fiber strip. The dampers may have manual trigger with thermofuse, or are controlled by actuator with thermoelectric trigger. There are no emissions from the materials used to the air flow that could contaminate the air; no micro-bacterial contamination or spread of such contamination occurs.

Conclusion:

Based on the mentioned documentation we conclude that fire dampers PKTM 90-C(K), PKTM III-C(K), FDML, FDMS/FDMS-VAV, CFDM/CFDM-V, FDMA-PM, FDMR, FDMR 60, FDMA, FDMB, FDMC, FDMD, DM-E, DM-S, PKTM 90PM-C(K), BSK-A-90-E, BSK-B-90-E, BSK-A-90-R, BSK-B-90-R, BSK-D-90-R, FDMQ

*fulfill all hygienic requirements applicable to ventilation components
including the requirements of
VDI 6022-1, VDI 2167-1, DIN 1946-4, ČSN EN 13053+A1, and VDI 3803 Blatt 1.*

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