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Centre for Occupational Health and Hygiene
National Reference Laboratory for Dustiness and Microclimate of Workspaces

Report No. 1.6/pos14/14

Hygienic Assessment of Ventilation Components – Textile Air Inlets

Expert Report No.: 140986, SZÚ/2614/2014
Client: Příhoda s.r.o.
Za radnici 476, 539 01 Hlinsko

Used documents:
1) Technical documents available at www.prihoda.com
2) Expert’s opinion of SZÚ No. ZZP 19-372/05, EX 5207519 assessing the suitability of textile air distribution, namely in food industry in terms of microbiology and hygiene (for fabrics NHI, PLS, PMS, PMI, PLI)
6) VDI 6022-1 Hygienische Anforderungen an Raumlufttechnische Anlagen und Geräte

Product description:
The product consists of a line of pipes and outlets of different shapes and dimensions for air distribution made of textile materials PMS, PMIre, PMI, PLS, NMT, NMS, NMR, NMI, NMF, NLW, NLW, NLI, NLF, NHE.

Material composition of fabrics:

<table>
<thead>
<tr>
<th>Fabric identification</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMS, NMS, PMI, NMI, PLS, NLS, PLI, NLI, NMR</td>
<td>100% polyester</td>
</tr>
<tr>
<td>PMIre</td>
<td>100% recycles polyester</td>
</tr>
<tr>
<td>NLF</td>
<td>100% polyethylene</td>
</tr>
<tr>
<td>NMF</td>
<td>1000% polyester, 2 PVC</td>
</tr>
<tr>
<td>NHE</td>
<td>100% glass fiber, 2x polyurethane</td>
</tr>
<tr>
<td>NLW</td>
<td>85% polyester, 15% nylon</td>
</tr>
<tr>
<td>NMT</td>
<td>90 % PVC, 10 % polyester</td>
</tr>
</tbody>
</table>
Textile fabrics are provided with an antibacterial treatment that withstands washing (as documented by certificates of TZÚ s.p. Brno). Their maintenance and cleaning are easy. With the exception of NHE, all fabrics may be washed in a washing machine; NHE needs to be dry or wet cleaned manually. With regards to the fact that the fabrics are made of so-called filaments, no particles are released into the air during their use – these fabrics may be used for air distribution in clean premises of class 4 in accordance with ČSN EN ISO 14644-1.

Conclusion:
Based on the presented documents we conclude that textile fabrics PMS, PMIre, PMI, PLS, NMT, NMS, NMR, NMI, NMF, NLW1, NLW, NLI, NLF, NHE and final products made from these fabrics, i.e. textile distributions and outlets for air distribution, manufactured by Příhoda s.r.o., Hlinsko

meet the hygienic requirements

in terms of their material, construction and operation, and may be used for air treatment of all types of environments, including food industry operations.

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