

EN 13180  
(TS EN 13180)

# Ventilation for Buildings Ductwork – Dimensions and Mechanical Requirements for Flexible Ducts

**INSPECTION REPORT**



## Meyer Uluslararası Uygunluk Değerlendirme Hiz. Ltd. Şti.

İTOSB İstanbul Tuzla Organize San. Bölgesi 9. Cad. No:15

Tepeören /Tuzla- İSTANBUL TÜRKİYE

Tel:+90 216 593 25 75 Faks: +90 216 593 25 74




Web: [www.meyer.gen.tr](http://www.meyer.gen.tr) , e-mail: [posta@meyer.gen.tr](mailto:posta@meyer.gen.tr)

### Gözetim Raporu / Inspection Report

Rapor No/ Report Number: INS 1009 03

Manufacturer / Importer	AFS FLEXIBLE KANAL TİCARETİ LTD. ŞTİ.
Report No	INS 1009 03
Date of the Report	30.09.2010
Related Products	FLEXIBLE AIR DUCTS
Related Standard	EN 13180 (TS EN 13180) Ventilation for Buildings – Ductwork – Dimensions and Mechanical Requirements for Flexible Ducts
Date of Inspection	21.09.2010
Address	İvedik O.S.B. 1468. Cad. No: 153 Ostim 06370 Ankara / Türkiye
Result	AFS Flexible Kanal Ticareti Ltd. Şti., is capable of testing & classifying & reporting dimensions, tolerances and mechanical resistance of flexible air ducts in accordance with the procedures specified in EN 13180 (TS EN 13180) standard.

*The testing and / or measurement results, the uncertainties of measurements (if applicable) and test methods are given on the following pages which are part of this report*

Stamp	Date	Person in charge of test	Approved by
	01.10.2010	 Yusuf YALÇINÖZ	 Hakan ESGİN

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Rapor No/ Report Number: INS 1009 03

<b>Purpose of Inspection</b>	To observe and report whether the Quality Control Laboratory of AFS Flexible Kanal Ticareti Ltd. Şti., is capable of testing & classifying & certifying dimensions, tolerances and mechanical resistance of flexible air ducts in accordance with the procedures specified in EN 13180 (TS EN 13180) standard.
<b>Scope of the European Standard</b>	<p>This standard specifies requirements and test methods for the technical characteristics of flexible ducts used in ventilation and air conditioning installations in buildings for human occupancy.</p> <p>This standard identifies the following parameters which shall be tested or inspected:</p> <ul style="list-style-type: none"><li>- dimensions and tolerances;</li><li>- mechanical resistance.</li></ul> <p>Acoustic, thermal, reaction to fire, and pressure loss properties of flexible ducts are not covered in this standard.</p>
<b>Tests Described in EN 13180 Standard</b>	<ol style="list-style-type: none"><li>1. Dimensions for Ducts<ol style="list-style-type: none"><li>1.1. Ducts with circular cross-section (Tested according to Part 5.2 and classified according to Table 1 in Part 3.1)</li><li>1.2. Ducts with non-circular cross-section (classified according to Part 3.2)</li></ol></li><li>2. Mechanical Properties and Requirements<ol style="list-style-type: none"><li>2.1. Nominal Length (Tested according to Part 5.4 and compliance checked according to Part 4.2)</li><li>2.2. Sag (Tested according to Part 5.5)</li><li>2.3. Bending Capability (Tested according to Part 5.6 and compliance checked according to Part 4.4)</li><li>2.4. Pressure (Positive pressure, tested according to Part 5.8.1 &amp; negative pressure, tested according to Part 5.8.2 and compliance checked according to Part 4.5)</li><li>2.5. Crushing Strength<ol style="list-style-type: none"><li>a. Compressed duct (Tested according to Part 5.3)</li><li>b. Uncompressed duct (Tested according to Part 5.7)</li></ol></li><li>2.6. Air Leakage (Tested according to Part 5.9 and classified according to Table 2 in Part 4.7)</li></ol></li></ol>
<b>Flexible Air Ducts</b>	<ol style="list-style-type: none"><li>1. Aluminium flexible air ducts (ALUAFS, ALUAFS FORTE, ALUAFS RECTANGULAR, ISOAFS-ALU, ISOAFS-ALU FORTE, ISOAFS-ALU RECTANGULAR, SONOAFS-ALU, SONOAFS-ALU RECTANGULAR,</li></ol>



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SONOAFS-ALU FORTE)

2. Aluminium & PVC combined flexible air ducts (COMBIAFS, COMBIAFS FORTE, COMBIAFS-HEAVY, COMBIAFS RECTANGULAR, ISOAFS-COMBI)
3. PVC flexible air ducts (VINYLAFS, VINYLAFS-TRANSPARENT, PVCAFS, PVCAFS REINFORCED, PVCAFS-HEAVY, ISOAFS-VINYL, ISOAFS-PVC, ISOAFS-PVC REINFORCED)
4. Polyester flexible air ducts (POLYAFS, POLYAFS.M, ISOAFS-POLY, ISOAFS-POLY.M)
5. PE flexible air ducts (PEAFS, ISOAFS-PE)
6. Anti-microbial flexible air ducts (ALUAFS HYGIENE, ISOAFS-ALU HYGIENE, ISOAFS-POLY HYGIENE, PEAFS HYGIENE, ISOAFS-PE HYGIENE)
7. Aluminium semi-flexible air ducts (SEMIAFS, ACOUSTIC SEMIAFS)
8. Accessories (SLEEVEAFS.ALUMINIUM, SLEEVEAFS.PE, SILENCERAFS)

and variations of these flexible air ducts according to the criteria given below:

- Flexible air ducts in various diameters (Ø52 mm – Ø800 mm)
- Flexible air ducts in various lengths
- Flexible air ducts in various layer combinations (e.g., ISOAFS-ALU.45, ISOAFS-ALU.70)
- Flexible air ducts in various fire resistances (e.g., ISOAFS-ALU.F)
- Flexible air ducts in various insulation thicknesses (e.g., ISOAFS-ALU.70 50 mm insulation)
- Flexible air ducts with various insulation materials (e.g., ISOAFS-PE-W)
- Flexible air ducts in various colors
- and etc.