

Flexiva SKY Sono



A. Raw Materials

1. Steel Wire Quality Standards

DIN / ASTM / SAE	EURO	TS
DIN 17223/B	EN 10270-1-SM	TS2500-1-SM

2. ALPET (Aluminium+Polyester for inner and outer surface)

Chemical composition of the alloys used for production of foil corresponds to DIN EN 573-3.

Tensile Test according to DIN EN 546-2.
7-12 micron thickness ALU+PET is used.

3. GLASS WOOL (Insulation Material)

According to EN 13501-1, A1 Class Glass wool is used. The thickness of glass wool is 25 mm. And the density of glass wool is 16 kg/m³. R Value of the insulation is 0,69 m².K/W

4. ALUMINIUM JACKET (Aluminium+Polyester)

Chemical composition of the alloys used for production of foil corresponds to DIN EN 573-3.

Tensile Test according to DIN EN 546-2.
7-12 micron thickness ALU+PET and 12 micron pet are used.

B. Product Data

FLEXIVA SONO		STANDARD
DIAMETER CHANGE	Ø100 mm - Ø610 mm	EN 13180
OPERATING TEMPERATURE	-30 °C / 150 °C	(NF P 92-501)
MAX. AIR VELOCITY	30 m/ sn	
MAX. POSSITIVE PRESSURE	5000 Pa	EN 13180
MAX. NEGATIVE PRESSURE	600 Pa	EN 13180
PACKAGING	10 m/box	İŞİL
END TREATMENT	10 m -PLAIN ENDS	

Micro perforated laminated aluminium foil providing sound insulation is produced of laminated foil and high- tensile steel wires for use in heating, cooling, ventilation. Intended for medium and low pressure environment. It has the features of being able to be stretched, twisted and compressed. Air tight (Class C according to EN 13180) and flame reterdant.

Production according to **ISO EN 9001:2018** and **EN 13180** standards.

261- 503 registered product by Ministry of environment and urban planning in Turkey.

ROHS test was performed and it is passed successfully according to the **2011/65/EU** directive. (**EU 2015/863**)

C. Performance Data

1. Fire Resistance

Flexiva Sky is tested according to the NF P 92-501 French norm and gets **M1** certificate from CSTB lab. Flexiva Sky insulated is tested according to İtalian Fire standard and gets **Class 1** .Please contact with your sales represantive for the certificates.

2. Sound Insulation Performance

Sound Attenuation (dB) (25 mm.)							
Diameter (mm)	Duct Length (mm)	Frequency (Hz)					
		125	250	500	1000	2000	4000
160	1000	15	26	22	27	18	13
	2000	22	38	35	39	29	20
	3000	33	43	39	43	39	27
203	1000	6	13	15	18	11	10
	2000	15	31	32	38	21	18
	3000	16	36	40	42	28	24
254	1000	9	11	12	10	7	11
	2000	21	24	24	22	13	15
	3000	29	33	31	30	19	24

D. Installation

Air duct connections and joints shall be made per installation instructions outlined by İŞİL Mühendislik. The perfect installation should be by EXIVA, practical connector. Please contact with your sales representative for the installation instructions and the specifications of EXIVA.

TDS No: 55 Date : 24.11.2016

Rev: 01 R.Date: 02.10.2019

All rights belong to İŞİL MÜHENDİSLİK MAK. Ve İNŞ. SAN. TİC. A. Ş.