

WBFLEX - Aluminum flexible ducts

Introduction

WBFLEX is a fire rated flexible duct manufactured from high quality aluminum foil & incorporating a totally encapsulated helically wound high tensile spring steel wire. Bonded with a fire retardant and slip resistant adhesive, this is the duct for the new millennium. Environmentally safe from production to application, day after day, year after year. With its long strand glasswool, the problem of falling wool is greatly minimised. The WBFLEX is light weight yet surprisingly rigid. It is easy to handle and will maintain the full diameter on standard bends .



The duct is designed for domestic and commercial ventilation and air-conditioning systems. It is ideal for low and medium pressure systems, high pressure systems have been widely used too.

WBFLEX with insulation are glasswool applied and sheathed with an outer aluminum laminate vapor barrier . It is recommended for its low resistance, excellent acoustic properties and compliance with relevant standards.

Application

For Low and Medium pressure HVAC systems. Up to a maximum of 2500pa . Recommended air velocity is 7m/s, but tests on WBFlex is done up to 23m/s.

Size

Standard length 10m for 25mm thk glasswool and 6m for 50mm thk glasswool. Available from 100mm to 600mm diameters in 50mm increments .

Working Temp

Between -20 deg C to 82 deg C

Fire resistance

WBFLEX is tested and complies to BS 476 parts 6 and 7 .

Certificate of Compliance

Certificate of Compliance for class O is issued by PSB Corporation Singapore .

Packing

Non insulated ducts are compressed to about 300mm to 500mm length. Insulated ducts are compressed to about 1200mm to 1500mm length. They are packed in strong plastic sleeves with clearly marked descriptions.

Thermal resistance

at 24deg C mean temperature

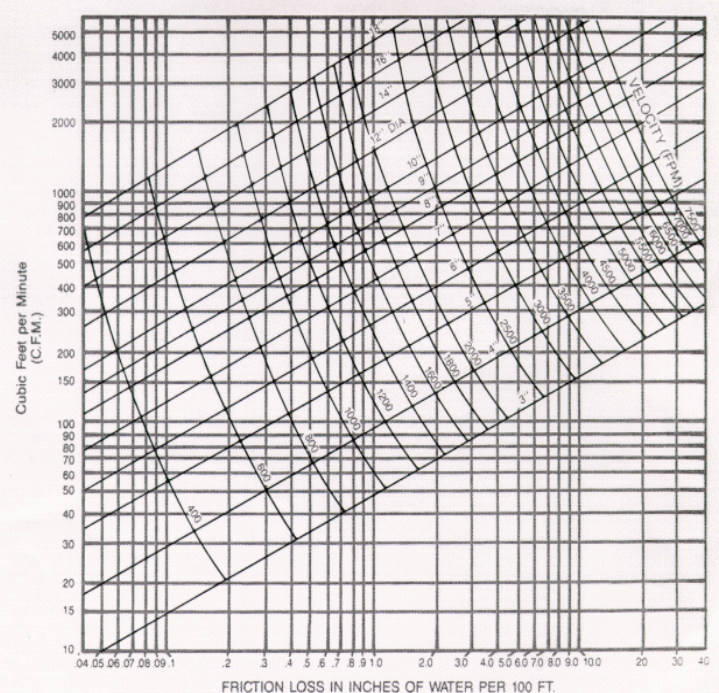
Glasswool Thk/density	K	R	WB Air model
25mm x 16kg/m ³	0.0365	0.696	WB-FLEX11
25mm x 32kg/m ³	0.033	0.77	WB-FLEX12
50mm x 32kg/m ³	0.033	1.539	WB-FLEX22

Recommended CMH/Size

Dia	CMH range
150	0-180
200	181-380
250	381-595
300	596-850
350	851-1190
400	1191-2350

Frictional Loss

Aluminum Flexible Duct





PSB Singapore

CERTIFICATE OF CONFORMITY

No. CLS2 16 06 80936 008

Initial No. CLS2 13 09 80936 005

Certificate Holder: **Wong Brothers Pte Ltd**
7 Toa Payoh Industrial Park #01-1245
Singapore 319059
SINGAPORE

Product: Air Distribution Ducts

Brand Name: WB AIR

Model(s): WB-FLEX & WB-dBFLEX

Product Details: Area Density: 0.685kg/m²
Tested on the aluminium foil face
(Rating: Class 0)

Standard(s): BS 476-6:1989/A1:2009
BS 476-7:1997


Country of Origin: Singapore

Test Report(s): See COC Appendix (1 pg)

Issued on: 2016-06-20

Valid until: 2019-11-30

Page 1 of 2


Vice-President (Certification Department)
TÜV SÜD PSB

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to TÜV SÜD Group Testing and Certification Regulations; TÜV SÜD PSB Pte Ltd (PSB) General Terms and Conditions of Business and PSB Product Listing Scheme (PLS) Application Fact Sheet. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking TÜV SÜD PSB's website at www.tuv-sud-psb.sg



Cert No: PD-2002-01