

消防處
牌照及審批總區
通風系統課
九龍尖沙嘴東部康莊道一號
消防處總部大廈五樓



FIRE SERVICES DEPARTMENT
LICENSING & CERTIFICATION COMMAND
Ventilation Division
5/F, Fire Services Headquarters Building,
1 Hong Chong Road, Tsim Sha Tsui East, Kowloon

本處檔號 Our Ref.: FP(LC) 316/13
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12 March 2008

Star Glory Technologies Limited
Room 1702, 17/F.
Workingberg Commercial Building
41-47 Marble Road
North Point
Hong Kong
(Attn. Mr. Paul CHAN)

Dear Sir,

**Actionair Smoke/Shield PTC Series 501, 601 and 701
Combination Fire & Smoke Damper**

I refer to your above letter of 29.8.2007 enclosing a set of test reports on the performance of the captioned dampers under fire condition and the supplementary assessment reports passed to this office.

I would like to inform you that I have no in principle objection to the use of "Actionair" Smoke/Shield PTC Series 501, 601 and 701 dampers with alternative spigot designs as combined fire and smoke damper in ventilating systems subject to compliance with Part XI of FSD Circular Letter No. 4/96, the Code of Practice for Minimum Fire Service Installations and Equipment, 2005 Edition and in accordance with the details shown below:

Manufacturer : Ruskin Air Management Ltd. U.K.

Model : "Actionair" Smoke/Shield PTC Series 501, 601 and 701
combined fire and smoke damper

Description : Un-insulated multi-blade damper assembly with galvanised steel casing and stainless steel interlocking double skin blades and operated by an electrical thermal release and an electro-mechanical actuating mechanism fitted with spring return. The casing can be fitted with galvanised steel spigots for rectangular / circular / oval connection.

Electrical thermal Release : "Belimo" BAE72 (operating temperature $\leq 69^{\circ}\text{C}$)

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- Mounting : Vertical and Horizontal
- Maximum Sizes : a) Rectangular (Series 501) – 1,000 mm x 1,000 mm
b) Circular (Series 601) – 1,000 mm dia.
c) Oval (Series 701) – 1,000 mm x 500 mm
- Installation Method : In accordance with the manufacturer's recommendations
- Test Reports : By British Research Establishment for fire resistance and leakage
a) No. 211694 of 14.4.2004
b) No. 231740 of 11.5.2007
c) No. 236509C of 23.7.2007

By Loss Prevention Council for the electrical thermal release
a) No. TE 92627/A of 13.5.1999

By Chatfield Applied Research Laboratories Ltd. for cycling test
a) No. RLR.5 of 23.10.2003
- Test Standard : Fire resistance tests
a) EN 1366-2: 1999 and ISO 10294-1: 1996 (E)

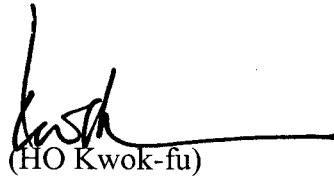
Leakage Test & Cycling Test
a) UL 555 S
- Test Results : ISO 10294-1: 1996(E):
a) Integrity: E180 min. for vertically mounted
E240 min. for horizontally mounted
b) Fire resistance: 180 min for vertically mounted
240 min for horizontally mounted

EN 1366-2: 1999
a) Integrity: 180 min. for vertically mounted
240 min. for horizontally mounted
b) Leakage: 158 min. for vertically mounted
171 min. for horizontally mounted

Leakage Classification: UL 555S - Class I
Satisfy the requirements of cycling test in UL 555S
- Assessment Report and Result : By British Research Establishment, No. CC 88375 Review 1 of 20.12.2007, for multiple damper assembly (without installation frame) of maximum size 7,000 mm (W) x 2,000 mm(H) vertically mounted:
BS 476: Part 20: 1987: Integrity of 120 min

- Remarks : a) No assessment was made on the suitability of the damper for smoke control in staircase pressurization system and smoke extraction system.
- b) This assessment is subject to review by March 2011.

Yours faithfully,



(HO Kwok-fu)

for Director of Fire Services

KFH/

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