

Product Overview

FSVENTIL fire-resistant ventilation grilles are designed to enable unobstructed air circulation across building components including walls, doors and ventilation ducts under normal room temperature conditions. Typically mounted on walls, ceilings, floors and fire doors, the product serves as a reliable fire isolation barrier for building ventilation systems.

In the event of a fire, the built-in intumescent materials undergo rapid thermal expansion under high temperatures. This instant expansion fully seals the grille structure, effectively blocking the cross-spread of flames, smoke and toxic gases between building compartments and preventing the further escalation of fire hazards. The product is available in two mainstream specifications: rectangular type (FSVENTIL V) and circular type (FSVENTIL VC) to fit diverse installation scenarios.

Product Features

1. Sensitive temperature response: The grille triggers an intumescent reaction at a temperature range of 100 - 120° C, achieving full rapid closure within 5 minutes (the specific closing time varies according to actual heat exposure conditions).
2. Premium structural composition: Adopts a durable thermoplastic outer shell, filled with high-performance FSBZ100 and FSBZ104 intumescent materials, ensuring stable and reliable fire-resistant performance.
3. Simple installation: Features a streamlined structural design for effortless and efficient installation with no complex construction procedures required.
4. Application limitation: Designed exclusively for **indoor use**.

Applications & Customization

This intumescent fire-resistant ventilation grille is widely applicable to commercial and industrial building projects. It is professionally installed at wall, ceiling and floor penetration points, as well as matching fire doors, firewalls and fire-rated partition walls to meet standardized fire protection and ventilation requirements.

To adapt to various engineering and installation demands, the product supports diversified customization:

- Multiple sizes and thicknesses are available to cover all types of application scenarios;
- Standard color is gray; custom color options are provided on request;

- Standard grille spacing is 50mm; non-standard spacing sizes can be customized per specific technical requirements (subject to prior confirmation).

	FSVENTIL V25	FSVENTIL V40	FSVENTIL V50	FSVENTIL V60
宽度/Width /mm	100-600	100-600	100-600	100-600
高度/Height/mm	100-600	100-600	100-600	100-600
厚度/Thickness/mm	25	40	50	60
通 风 效 率 /Drafting efficiency	60%	60%	60%	60%
耐 火 极 限 /Duration of fire resistance	15-30min	60min	90min	120min

	FSVENTIL VC40	FSVENTIL VC60
直径/Diameter/mm	100-600	100-600
厚度/Thickness/mm	40	60
通风效率/Drafting efficiency	60%	60%
耐 火 极 限 /Duration of fire resistance	60min	120min

Packaging & Delivery

Provide specific packaging solutions tailored to product characteristics, ensuring normal use for customers after delivery.

Packaging Details:

Inner Packaging: Double protection with vacuum sealing and buffer bubble wrap

Outer Packaging: Dual-layer security via 5-ply corrugated cases and wooden crates, both sturdy and durable

This system guarantees absolute product safety during transportation while offering customers a cost-effective shipping solution.

Packaging Details:standard wooden case with bubble paper package or according to customer’s requirement

Delivery time:

1. Shipping by courier,like DHL,UPS,FEDEX,etc. door to door usually takes 3-4 days to arrive.
2. Shipping by air usually takes 1-3 days to arrive.
3. Shipping by train usually takes 7-20days to arrive.
4. Shipping by sea usually takes 7-50 days to arrive.

Hope to cooperation with you,Thanks !