

Natural Smoke Ventilation Systems



Thank You For Your Smoke Ventilation Enquiry

The purpose of this sheet is to give you a very brief overview of the purpose of a smoke ventilation system, and some of the questions we will need to ask and the typical process we go through to specify the correct products

Cold Smoke Ventilation Purpose

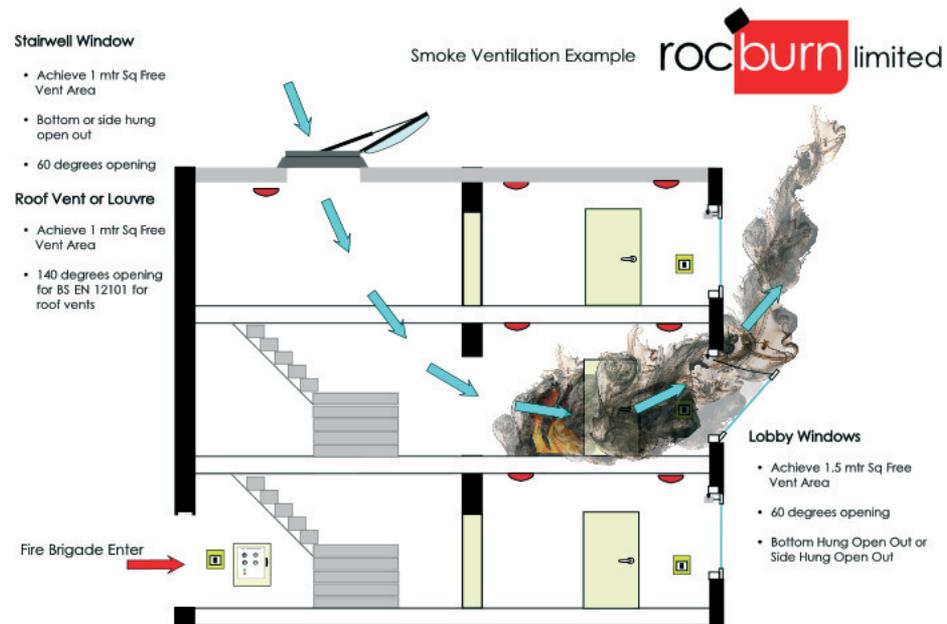
A smoke vent system is used to give a clear escape route in a multi occupancy building, these can either be single zone systems for a stairwell or more complex multi zone systems where lobby areas would need to activate in conjunction with the stairwell to clear the escape route of smoke.

These systems are designed to comply to EN 12101 standards and have battery back up so will open the vent(s) in the event of a power failure

Example:

3 story building with a flat roof hatch in the stairwell and 3 lobby windows

The escape route is kept clear by creating ventilation in the lobby to allow occupants to escape and the fire brigade smoke free access

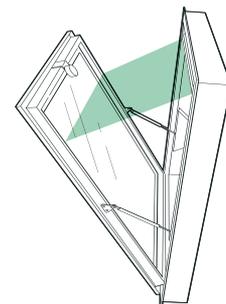


Free Vent Area Calculation

In order to clear the smoke at the correct rate, the recommended free vent area you need to achieve from your window or windows is:

Stairwell windows: 1mtr square free vent area at 90 degrees from the opening vent

Lobby windows: 1.5mtr square free vent area at 90 degrees from the opening vent



Windows should be bottom hinged & open out or side hinged open out and ideally above the head of the door to clear the smoke above head height.

Natural Smoke Ventilation Systems



Working With You

In an ideal world the windows you have would be the correct size, but in the real world this is often not the case, particularly with existing buildings where you have to work within the restrictions of the building

We work with you to recommend the best solution based on your individual situation which you would agree with building control and the fire officer prior to purchasing

The process in specifying a smoke vent system does require certain information up front in order to give you the best solution and we start with the basic overview and gradually get into more details to ensure the products you get are right and as easy as possible to install

Now you understand the principles of what we are trying to do the first stage of specifying will typically follow these stages

Basic Overview Stage 1

Step 1 - Information Gathering Phone Call or Email

Initial contact where we will aim to understand the project, what is required and delivery timescales, this helps to identify the questions we need to ask when getting into more detail with you

Step 2 - Product Recommendations & Rough Quotation

At this stage we will usually be able to narrow down the type of products you need, so would be able to do a rough estimate based the number of windows and number of zones in your building.

Getting Into The Detail Stage 2

Step 3 - Building Layout, Window Details and Fire Strategy

At this stage to go any further we need to get confirmation of all window dimensions (window schedule) full building plans with AOV windows identified on the plans and any proposed fire strategy that has been given to you

Step 4 - Snagging & Trouble Shooting

At this stage we go through in more detail the practicalities of installation and from experience identify any potential issues that might occur such as, frame dimensions for appropriate actuator brackets, opening restrictions that may not have been apparent such as window restrictors or external obstructions to the window opening for example.

This usually requires contact with someone on site who can measure and take photographs and answer questions

Natural Smoke Ventilation Systems

Rocburn

Smoke Ventilation



Finalising Your Order Stage 3

Step 5 - Final Quotation & Agreement From Building Control

After we have been through all of the steps above we will be able to finalise your quotation for the system so you can order. We always suggest you ensure building control are happy with the quotation at this stage

Step 6 - Lead Times & Delivery

We will confirm the availability of the goods and lead times and also get an understanding of your timescale and project delivery targets

Step 7 - You Place Your Order

Delivery Of Goods Stage 4

Step 8 - Delivery

We will keep you updated with any changes in delivery times, we will contact you if there are any large or bulky products such as roof vents or dampers and grilles to ensure you can take delivery

If goods are sent to site we will contact the site to ensure the delivery has been received

Technical Support Stage 5

Step 9 - Installation Support

Depending on your system various levels of support will be required. On more complicated systems we recommend your installer contacts us prior to the installation starts for an overview.

It is important to follow the step by step instructions we provide with the system as this helps us trouble shoot any issues that might occur and minimises the chance of damage to the products

Step 10- Trouble Shooting Problems

As some installers will be unfamiliar with smoke ventilation products we are available to support any problems that may arise during the installation to make sure it is as trouble free as possible

We hope this give you a good overview of the process

If you have any questions at all please contact us by phone 01702 826 267
email to your Rocburn contact or sales email sales@rocburn.com for advice

Thank you for choosing Rocburn