FIREMASTER® NVS™ HORIZONTAL

ACTIVE FIRE CURTAIN BARRIER ASSEMBLIES
NVS™ (NO VISIBLE SUPPORTS)

WWW.COOPERSFIRE.COM
DESIGN SOLUTIONS
THAT WORK FOR YOU

Active Fire Curtain Barrier Assemblies comprise technologically advanced fire-resistant fabric barriers encased in a compact steel housing. Barriers remain invisibly retracted until activated by an alarm or detector signal, at which time they close safely to their fire operational position. Fire barriers will stop and control the spread of fire in a building.

To be compliant, Fire Barriers must have a dual power supply fitted as standard. To protect from a short circuit and/or total power failure, use our patented Total Gravity Fail-Safe (TGFS) system.

The rollers are mounted and are driven by tubular motors. The rollers are enclosed in a steel housing and the leading edge of the curtain fabric has a supporting bar spanning between the side channels that retain the barrier.

SIMPLEX™ (SINGLE BARRIER ASSEMBLY)

Suitable for smaller openings and skylights etc.

DUPLEX™ (DOUBLE CURTAIN ASSEMBLY)

Suitable for large openings including expansive atria. Complete closure in half the time

MINI SIMPLEX™ (SINGLE BARRIER ASSEMBLY)

Suitable for smaller, narrower openings in domestic dwellings and for skylights etc.

MEANS OF ESCAPE
- Barriers near protected routes use FireMaster® Plus

STAIRWELLS
- No need for fire rated walls

ESCALATORS
- No need for fire rated walls

ATRIA
- Barriers allow multi-floor concourse openings and large atria

LIGHT WELLS
- Provides protection to non-rated glazing
### STANDARD SIZES

<table>
<thead>
<tr>
<th>Model</th>
<th>Minimum Size</th>
<th>Maximum Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINI SIMPLEX</td>
<td>X value</td>
<td>1 metre</td>
</tr>
<tr>
<td></td>
<td>Y value</td>
<td>7 metres</td>
</tr>
<tr>
<td>SIMPLEX</td>
<td>X value</td>
<td>1 metre</td>
</tr>
<tr>
<td></td>
<td>Y value</td>
<td>2.5 metres</td>
</tr>
<tr>
<td>DUPLEX</td>
<td>X value</td>
<td>7 metres</td>
</tr>
<tr>
<td></td>
<td>Y value</td>
<td>14 metres</td>
</tr>
</tbody>
</table>

The sizes above apply to the standard FireMaster® NVS™ Horizontal range. Larger sizes can be manufactured on request. For the FireMaster Plus NVS™ horizontal range, the maximum length (X value) differs. For further information, please contact our technical department.

### CASE STUDY:
4 NATIONAL CIRCUIT, ACT
CANBERRA, AUSTRALIA

The aesthetic design of each building includes a void similar to an atrium which interconnects 6 levels. This allows for introducing more natural light into the building and increasing the opportunity for people to interact and share ideas.

As there are 6 levels interconnected through the void, the large floor area and volume created means that the building is required to meet the atrium provisions in the Australian Part G of the BCA. This is a very costly and restrictive in design.

By incorporating Coopers FireMaster® NVS™ horizontal fire curtain barriers on levels 2 & 4 the voids can be closed in fire mode.

Two 9 meter wide by 17 meter draw NVS™ models were installed in the West building. These are the largest horizontal fire curtains installed in the world with No Visible Supports.

### BENEFITS
- NVS™ - No Visible Supports within the atrium void
- Cost saving on atrium construction requirements
- Cheaper solution than vertical fire curtains on multiple floors
- Reduced maintenance costs with less curtains and no supports in the void
- Light weight construction does not require structural steel to support it
- Larger sizes can be manufactured on request subject to certification

### HOW THE HEADBOXES CAN BE FIXED

- **Mini Simplex™**
  - Headbox Face Fixed
- **Simplex™**
  - Headbox Face Fixed
- **Duplex™**
  - Headbox Face Fixed
  - Headbox Top Fixed

Please note that all technical drawings are available to download as PDF and DWG (CAD files) on our website.

Visit [www.coopersfire.com/downloads](http://www.coopersfire.com/downloads)
These are custom made to be fully compatible with both existing alarm systems and the number of curtain units installed, whether Simplex\textsuperscript{TM} or Duplex\textsuperscript{TM} assemblies.

**Power Supply**

In certain circumstances, the building fire strategy may dictate a duplication of dual power supplies. Should a Total Gravity Fail-Safe system be required, please contact our technical department as this is non-standard and removes the requirements for dual power supplies.

**TEST FACILITY**

Zone Control Panel (ZCP) located on front of Power Supply Unit (PSU)

**DISPLAY**

Power ON, Alarm ACTIVE and Alarm OFF status LED’s on ZCP

**POWER SUPPLY SIZE**

Simplex and Mini Simplex

- 400mm(w) x 500mm(h) x 210mm(d)

Duplex

- 600mm(w) x 600mm(h) x 210mm(d)

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(Remember, regular service and maintenance is a legal mandatory requirement)

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**PRODUCT SPECIFICATION**

FireMaster\textsuperscript{®} NVS\textsuperscript{TM} Simplex\textsuperscript{TM} is tested for 120 minutes (2hrs) in accordance with BS EN 1634-1:2008 and is classified as E120 EW30 in accordance with BS EN 13501-2:2007+A1:2009. It also meets the requirements of BSI PAS 121:2007 (where applicable).

EFP\textsuperscript{TM} 2/1000/E is a high performance fire textile composite material of woven glass fibre with an intumescent graphite silicon coating on both sides.


**DON’T BE LIABLE**

Fire Barriers must have a dual power supply fitted as standard. To protect from a short circuit and / or total power failure, use our patented Total Gravity Fail-Safe (TGFS) system (fitted on request).

Coopers Fire are the only supplier with Independent Third Party Certification by a UKAS approved certification body to BSI PAS 121:2007 and now meets essential requirements of BS 8524-1:2013.
For information, to get a quote or to book a CPD workshop

Please call:
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or E-mail: info@coopersfire.com

WWW.COOPERSFIRE.COM

Coopers Fire Ltd has a policy of continuous product improvement. As such we reserve the right to change design and specifications without prior notice. Please check our website for the latest information.

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LEADING THE WAY IN FIRE PROTECTION