

# VENTILATOR FIRE RESISTANT GLAZING SYSTEM



## Description

The Ventilator Auto Closing Fire Window is a fire resistant window that can be opened and will automatically close in the event of a fire. The frame is constructed from cold rolled steel profiles to provide additional strength and is powder coated to any standard colour. The ventilator has a slim profile to blend with existing windows and is glazed with fire resistant glass.

## Fire Resistant Level (FRL)

1 hour - /60/- Fire Resistance Level

## Compliance

Fully tested to Australian Standard 1530 Part 4 (AS 1530.4)

## Features

- Opening, auto closing for fresh air ventilation
- Window is made to order, most sizes can be provided.
- Combinations of fixed and openable panes are available. -/60/-Fire resistance level.
- Suitable for installations into a number of building substrates, including concrete blocks, brick veneer, cavity brick and concrete panel constructions
- Safety glass compliant to AS1288, tested to AS2047



# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## Application

The Ventilator is designed to provide a one hour -/60/- integrity only fire resistance level to openings in external walls where natural ventilation and light is required.

## How to specify

Eg, "Window to be fully tested and certified NILFIRE Ventilator -/60/- FRL, fire window incorporating Nilfire Ventilator non insulated steel frame and...(insert glass option)

Wall abutments and building in section drawings.



# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## Frame Profiles (Fixed & Operable)

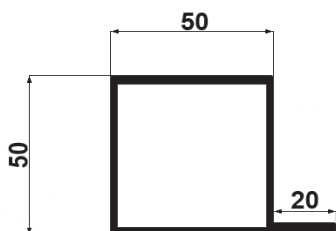
### Standard Profile

Our Ventilator standard profiles consists of cold rolled formed, continuously seam welded, hollow steel sections. Dimensions of these profiles are illustrated below.

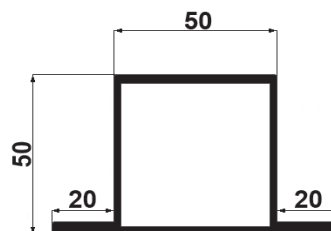
#### Fixed

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5050 L



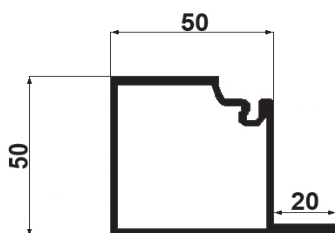
5050 T



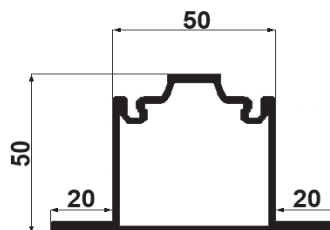
#### Operable

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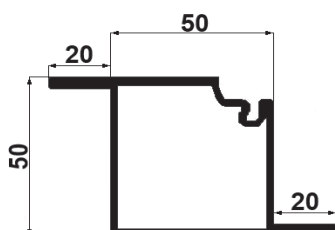
5050 LDN



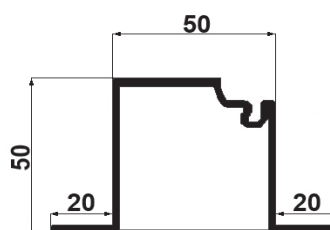
5050 T2DN



5050 ZDN



5050 TDN





# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

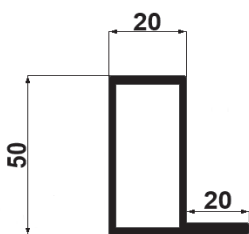
## Low Profile 5020 & 5030

Our Ventilator low profile consists of a 50mm x 20mm, 50mm x 30mm hollow steel frame section. Can be used in combination with standard profile. Dimensions of this profile are illustrated below.

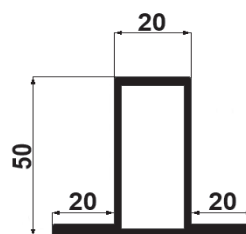
### Fixed

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5020 L



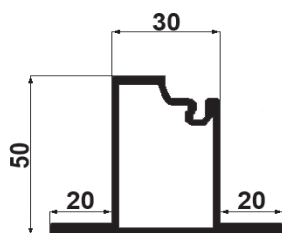
5020 T



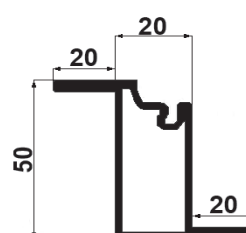
### Operable

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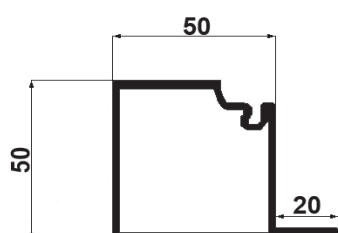
5030 TDN



5020 ZDN



5050 LDN



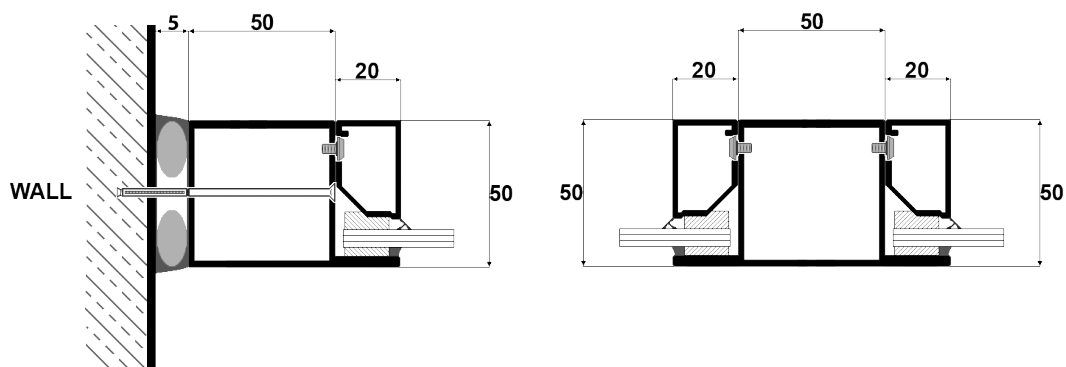


# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

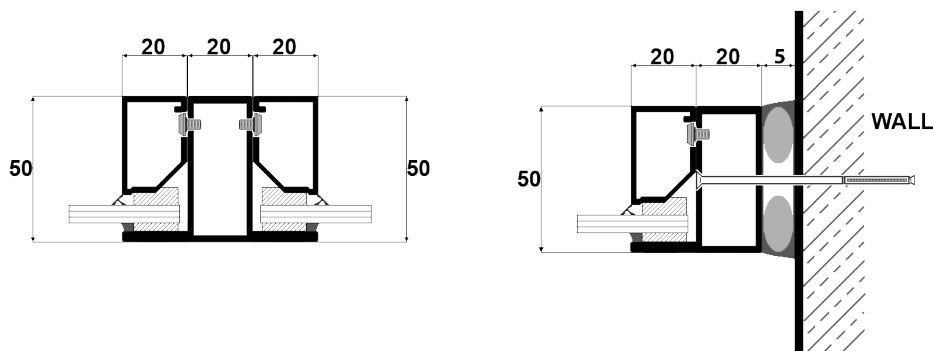
## SECTION DRAWINGS

### Fixed Sections

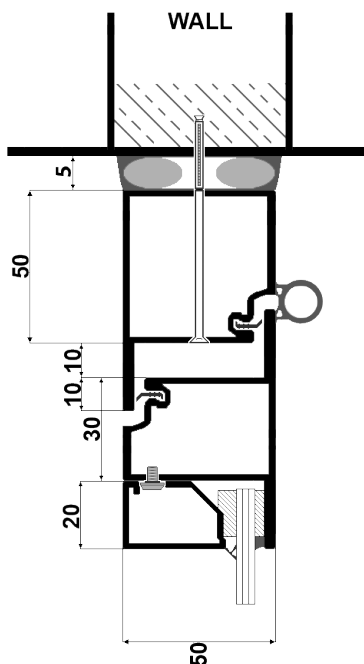
Typical Standard  
Perimeter/Mullion Section



Typical Low Profile  
Perimeter/Mullion Section



### Operable Sections





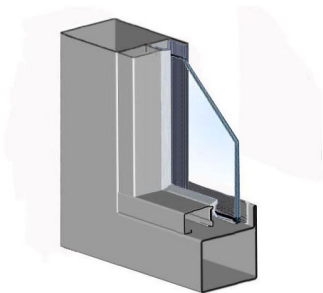
# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## GLASS

Our Ventilator One Hour (-/60/- FRL) auto-closing fire window system can be supplied with the following glass options:

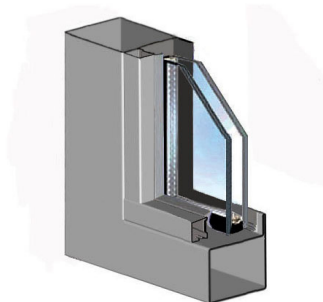
## GLASS OPTIONS

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### **13mm Laminated**

Clear fire resistance glass laminated with clear gel interlayers.



### **Double Glazed Units**

Clear fire resistant and solar efficient 23mm thick double glazed units.

### **5mm Ceramic**

Clear fire resistant glass cut to size.

### **6mm Borosilicate Toughened & Tempered**

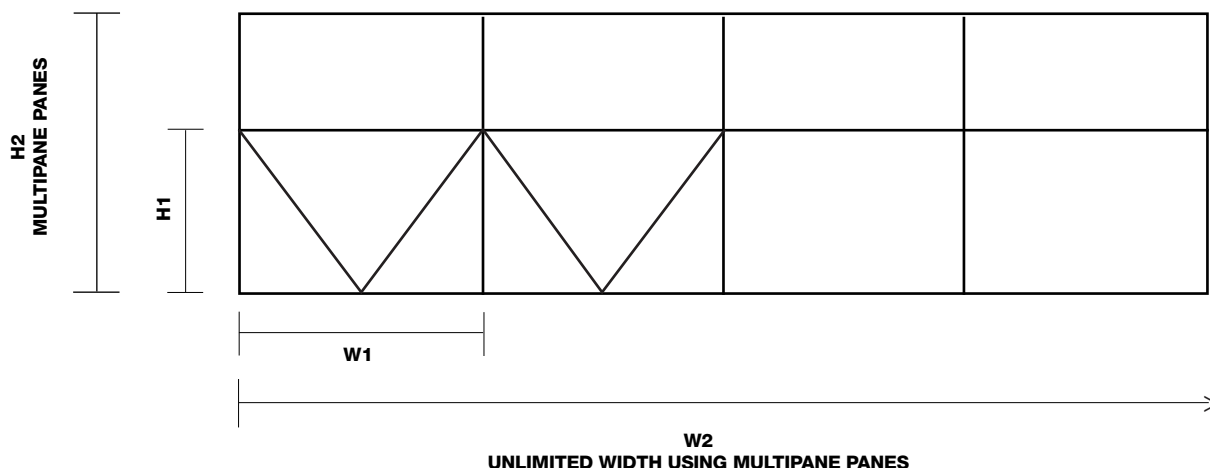
Clear fire resistant glass cut to size with polished edges and treated in an oven as part of the toughening process.





# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## MAXIMUM OVERALL FRAME SIZES OPERABLE & FIXED COMBINATIONS



## MAXIMUM SIZES BASED ON SINGLE PANE

	Single Pane Operable		Multiple Pane Fixed/Operable		Multiple Pane	
	Height	Width	Height	Width	Height	Width
<b>5mm</b>	1200	1200	3150	1200	3150	unlimited
<b>6mm</b>	1200	1200	3700	1200	3700	unlimited
<b>13mm</b>	1200	1200	4000	1200	4000	unlimited
<b>23mm DGU</b>	1200	1200	4000	1200	4000	unlimited

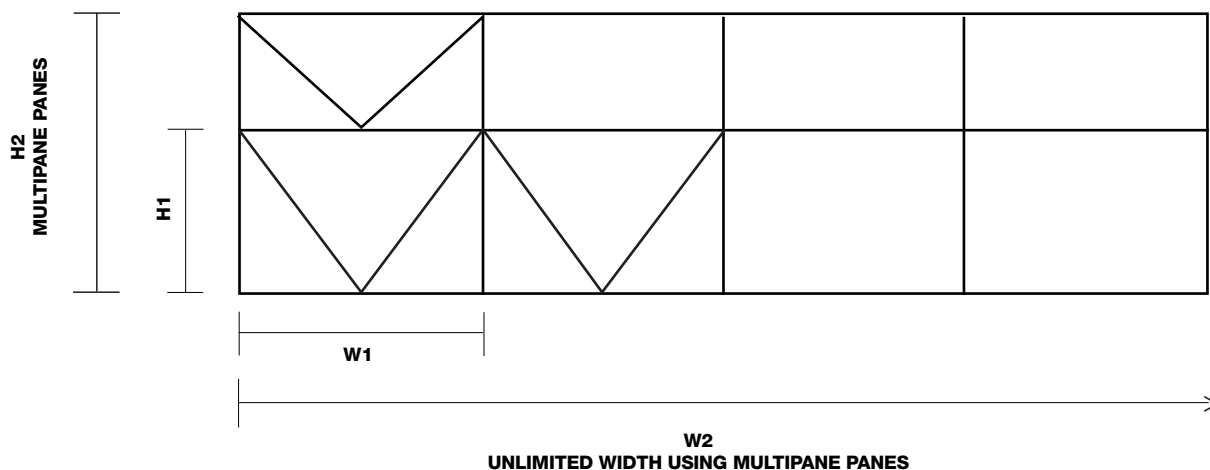
\*Large scale window configurations may be subject to maximum size limitations. In most cases a modular configuration may be offered to achieve the desired measurements. Max sizes for operable windows and doors will be assessed by our sales team at quotation stage.

For maximum sizes for operable doors and windows, please contact Nilfire



# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## MAXIMUM OVERALL FRAME SIZES OPERABLE & FIXED COMBINATIONS (But Tab panes operable high)



## MAXIMUM SIZES BASED ON SINGLE PANE

	Single Pane Operable Fixed/Operable		Multiple Panes Heigh + Wide	
	Height	Width	Height	Width
<b>5mm</b>	H1	W1	2400	unlimited
<b>6mm</b>	1200	1200	2400	unlimited
<b>13mm</b>	1200	1200	2400	unlimited
<b>23mm DGU</b>	1200	1200	2400	unlimited





# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

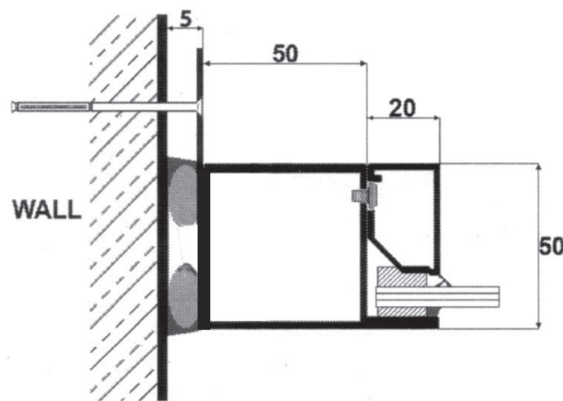
## Installation Requirements

- Wall opening must be of fire resistant construction with an equal or greater fire resistance level (FRL). Examples include; Concrete blocks, brick veneer, cavity brick and concrete panel constructions.
- Wall opening must provide for a 5mm to 10mm clearance around the manufactured frame sizes.
- They can be provided pre-glazed (depending on size) with welded fixing lugs, or site glazed into existing fire resistant openings.
- Flashings are to be provided by the builder/owner.

## WALL FIXING DETAILS

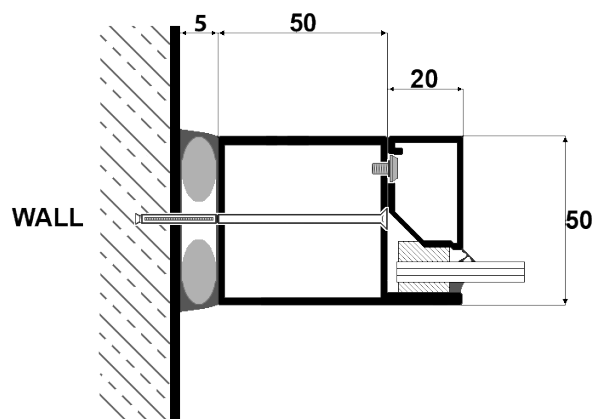
### Through Fixing

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### Lug Fixing

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# VENTILATOR FIRE RESISTANT GLAZING SYSTEM

## SEALING DETAILS

### Glass to frame seal

A combination of silicone and ceramic glazing tape are used on the external frame/glass seal of the unit. This arrangement creates a weather proof seal. High temperature silicone rubber seals or ceramic glazing tape are used on the internal seal.

### Frame to wall seal

A combination of silicone, fire resistant acrylic and fire resistant flexi foam are used to create a fire and weather proof seal around the frame. Fire seal is allowed for within Nilfire's quotation and weather seal by others.

## Finish

### Standard (Recommended)

A four step powder coat process, including; garnet sandblasting, zinc enriched galvanizing, e-powder undercoat and powder coat top coat to selected colour. Standard colours selected from the Dulux Duralloy Range. Higher grade powder coat protection is available upon request.

### Optional

Paint finish upon request.

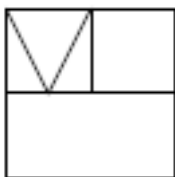
## Additional Features & Options

- Translucent films (frosted glass or tinting) to selected colour.
- An option of supply only or supply and installation.

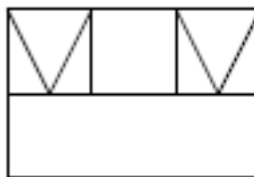


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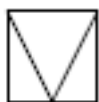
## Standard Configurations & Codes



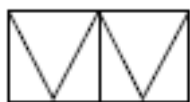
A3TL



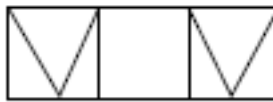
A4TLR



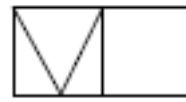
A1x1A



A1x2A



A1x3LR



A1x2L

For other configurations, please contact Nilfire

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