

# VISION SAFE 1 HR INSULATED STEEL WINDOWS



## Description

Vision Safe 1 hour systems are constructed from insulated steel frames, and are glazed with clear fire resistant laminated glass. This system restricts the spread of flames, smoke and hot gases and effectively blocks the transmission of conductive and radiant heat from a fire. This system can be provided as fixed glazing or hinged doors or combinations.

## Fire Resistant Level (FRL)

Integrity and insulation up to a 1 hour FRL (-/60/30 to -/60/60).

## Compliance

Fully Certified to Australian Standard 1530 Part 4 (AS1530.4).

## Features

- Completely clear, maximising natural light and visibility.
- Impact rated safety glass AS2208 compliant
- Conductive and radiant heat reduction
- Provides effective noise barrier
- Reactive interlayers create a visual barrier in the event of a fire.
- This system restricts the spread of flames, smoke and hot gases and effectively blocks the transmission of conductive and radiant heat from a fire.



# VISION SAFE 1 HR INSULATED STEEL WINDOWS

## Application

Vision Safe 1 hour windows and doors can be installed into the opening in a fire rated wall with an equal or greater Fire Resistant Level (FRL), wherever there is a need for integrity and insulation. Some applications include fire escapes, smoke lobbies, computer rooms, car parks, factories and boundary walls.

## How to specify

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

Wall abutments and building in section drawings."



# VISION SAFE 1 HR INSULATED STEEL WINDOWS

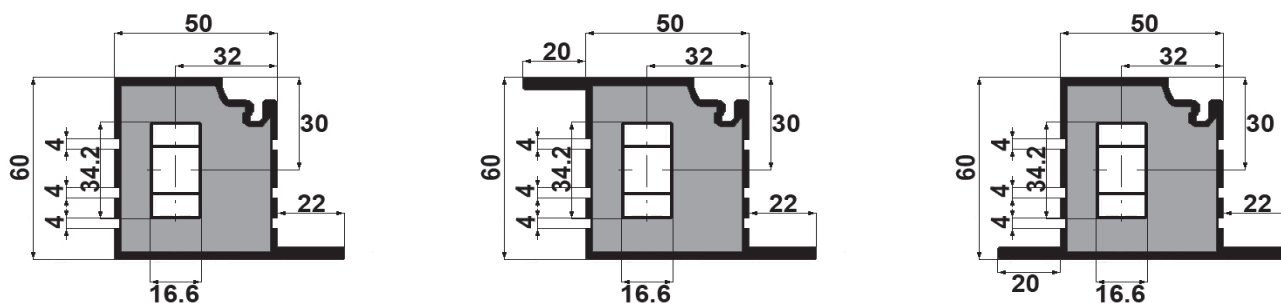
## Fixed Profile 6050

Our Vision Safe 1 hour fixed profiles consist of a 60mm x 50mm insulated steel frame section. Dimensions of this profile are illustrated below.



## Operable Profile 6050

Our Vision Safe 1 hour operable profiles consist of a 60mm x 50mm insulated steel frame section. Dimensions of this profile are illustrated below.



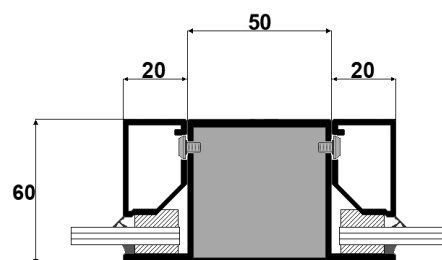
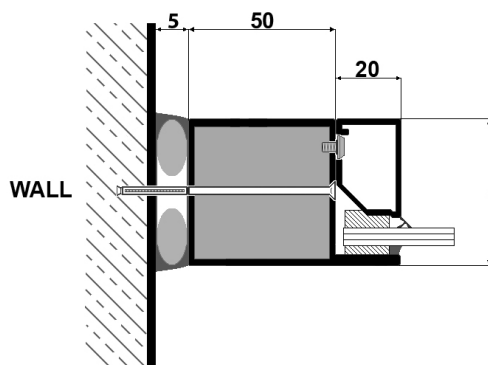


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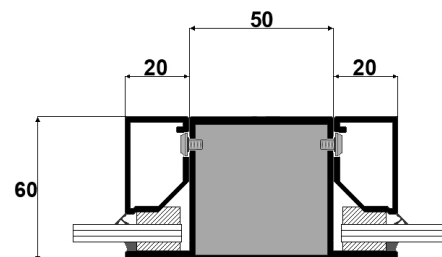
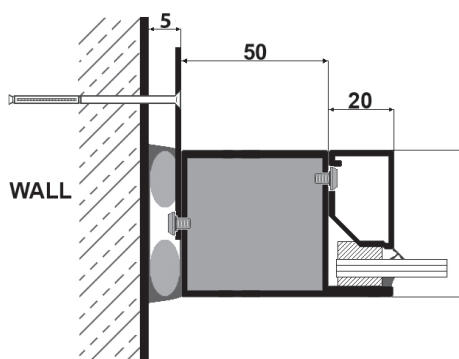
## SECTION DRAWINGS

### Fixed Sections

Typical Perimeter/Mullion  
Wall Section  
(Through Fixing)



Typical Perimeter/Mullion  
Wall Section  
(Lug Fixing)





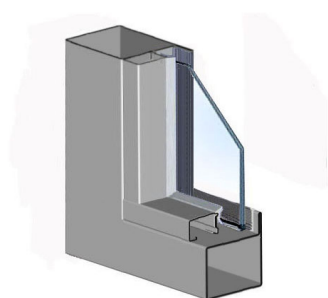
# VISION SAFE 1 HR INSULATED STEEL WINDOWS

## GLASS

Our Vision Safe 1 Hour range uses a clear laminated, insulating fire resistant safety glass. The thickness of the glass depends on the application.

## GLASS OPTIONS

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### **23mm thick**

For internal applications -/60/60

### **27mm thick**

For external applications -/60/60

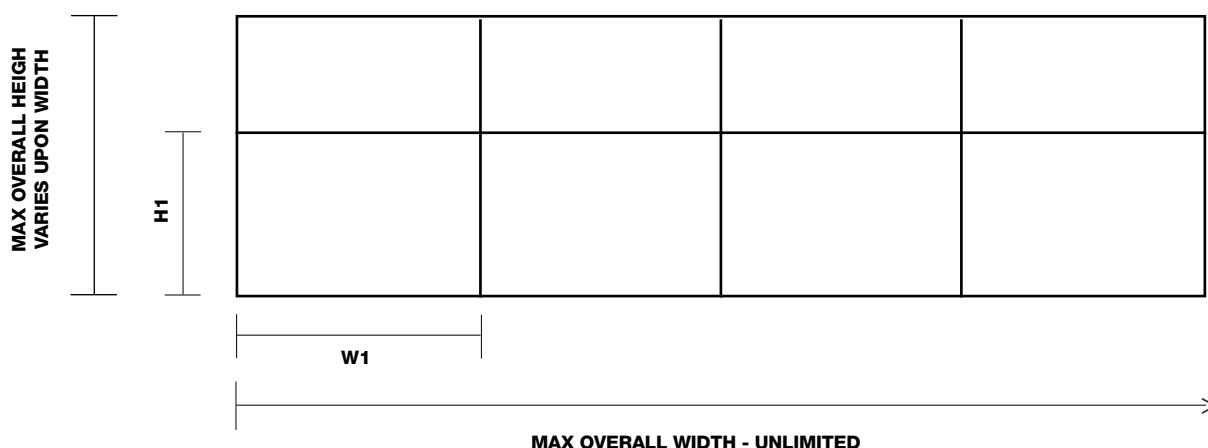
### **18mm thick**

For internal or external applications -/60/30



# VISION SAFE 1 HR INSULATED STEEL WINDOWS

## MAXIMUM OVERALL FRAME SIZES OPERABLE & FIXED COMBINATIONS



## MAXIMUM SIZES BASED ON SINGLE PANE

	Single Pane (6050)		Multi Pane (6050)	
	Height	Width	Height	Width
<b>18mm Glass</b> (-60/30)	2375	1200	4000	1200 x unlimited
<b>23mm Glass</b> (-60/60)	2990	1610	4000	1400 x unlimited
<b>27mm Glass</b> (-60/60)	2990	1610	4000	1400 x unlimited

\*Large scale window configurations may be subject to maximum size limitations.  
Max sizes for doors can be provided by our sales team at quotation stage.





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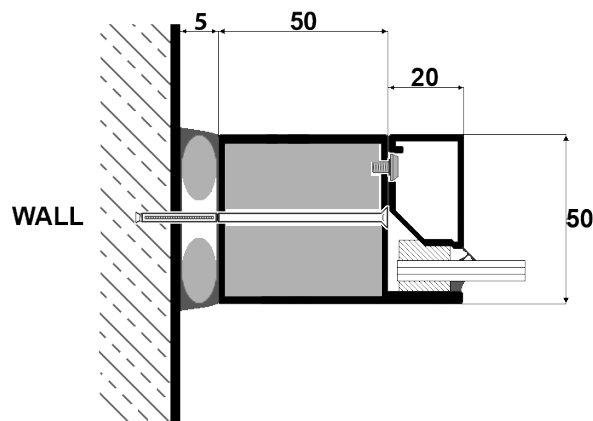
## Installation Requirements

- Wall opening must be fire resistant construction with an equal or greater FRL. Examples include; Masonry, gypsum block walls and aerated concrete block.
- 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

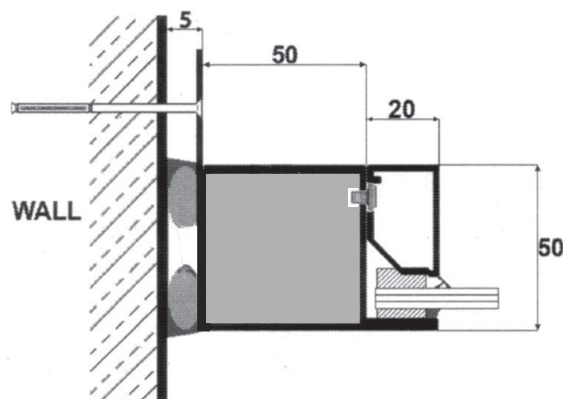
### Through Fixing

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### Lug Fixing

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# VISION SAFE 1 HR INSULATED STEEL WINDOWS

## 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 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

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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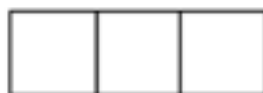
## STANDARD CONFIGURATIONS & CODES



F1x1



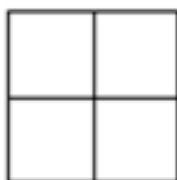
F1x2



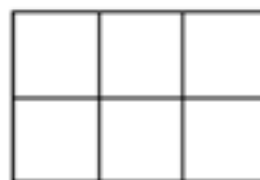
F1x3



F2x1



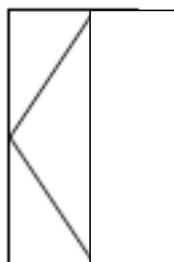
F2x2



F2x3



D



D1SLR



DP1

Please contact Nilfire if other configurations are required

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