



Description

Icon range specifies steel framed windows and doors glazed with clear fire resistant glass. We offer fixed and operable configurations, fixed windows and hinged glass fire doors.

We offer a selection of custom sizes and configurations to provide a competitive price and lead time.

Fire Resistant Level (FRL)

Icon to meet the requirements of a 1530 Part 4 and BCA C3.4.

Compliance

Fully Certified to Australian Standard 1530 Part 4 and BCA C3.4.

Application

Typical applications are fixed & operable, windows and doors. This system can be used in residential houses as well as commercial and public buildings that require fire protection to openings in fire resistant walls that are closer to boundary lines than prescribed in the Building Code of Australia.



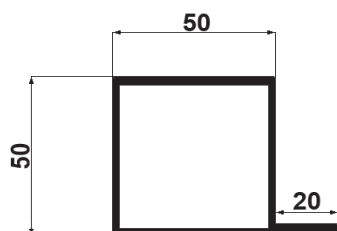
Frame Profiles (Fixed & Operable)

STANDARD PROFILE 5050

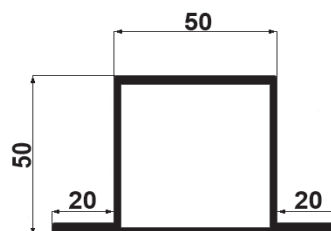
Our Icon standard profile consists of a 50mm x 50mm hollow steel frame section. Dimensions of this profile are illustrated below.

Fixed

5050 L

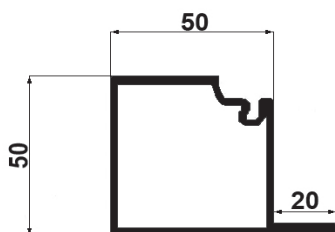


5050 T

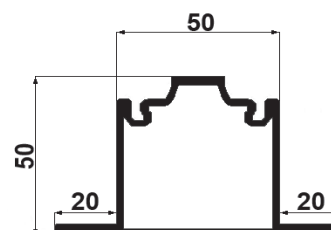


Operable

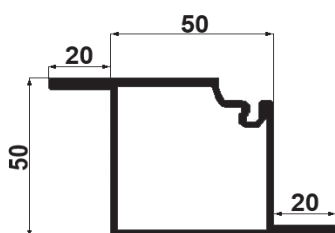
5050 LDN



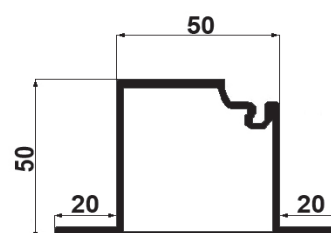
5050 T2DN



5050 ZDN



5050 TDN



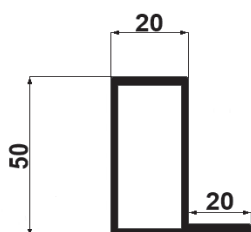


Low Profile 5020

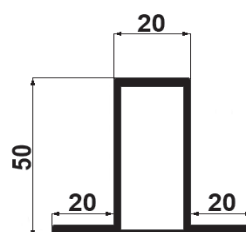
Our Icon profile consists of a 50mm x 20mm, 50mm x 30mm hollow steel frame section. Can be used in combination with standard profile. Configurations can be provided as fully welded combinations or modular construction for larger combinations of windows and doors. Dimensions of this profile are illustrated below.

Fixed

5020 L

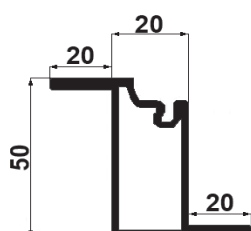


5020 T



Operable

5020 ZDN



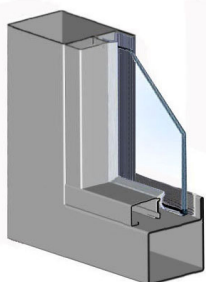


GLAZING

We offer a variety of fixed and operable glazing and door configurations selected from our standard configuration sheet or customised to suit your specific needs.

Our standard range of configurations varies from single to multiple panes of various heights and widths incorporating various combinations of fixed and operable options. See Icon Standard Configurations and Sizes Information Sheet for further information.

GLASS OPTIONS



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

Toughened & Tempered

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.



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.

Installation Requirements

- Wall opening must be fire rated 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.
- External trims / flashings are to be provided by the builder/owner.



SEALING DETAILS

Glass to frame seal

A combination of silicone and glazing tape are used on the external joint of the unit. This arrangement creates a weather proof seal. Rubber seals are then used on the internal join.

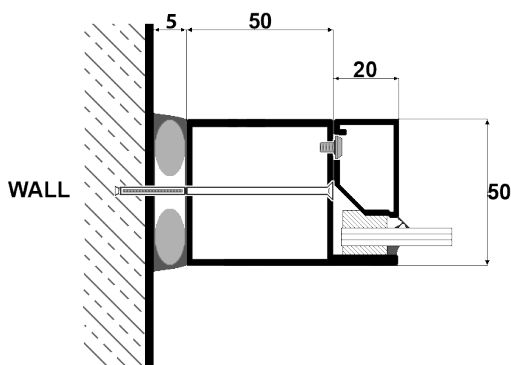
Frame to wall seal

INTERNAL - fire resistant sealant over flexi foam fire resistant backing rod.

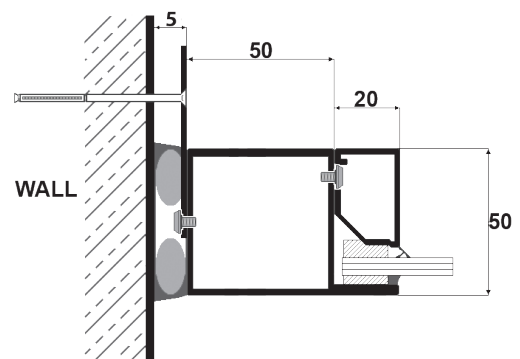
EXTERNAL (By Builder) - Combination of weather resistant sealant backing rod, angle trim angle section to builders detail.

FIXINGS

Through Fixing



Lug Fixing

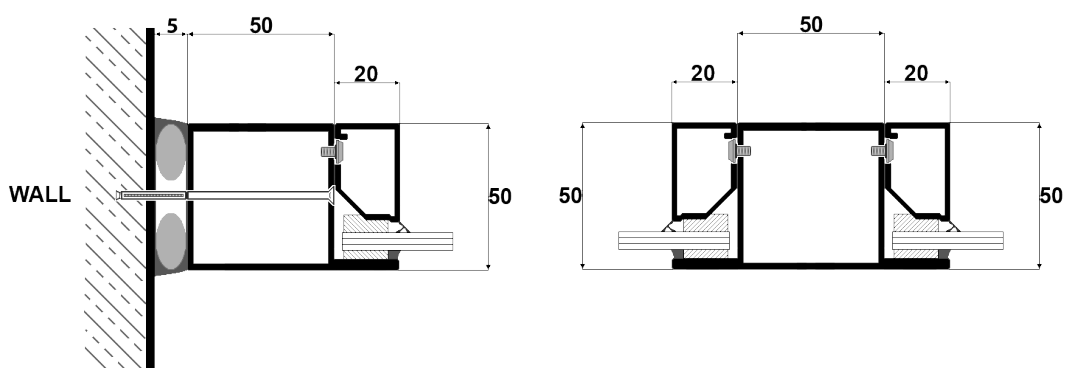




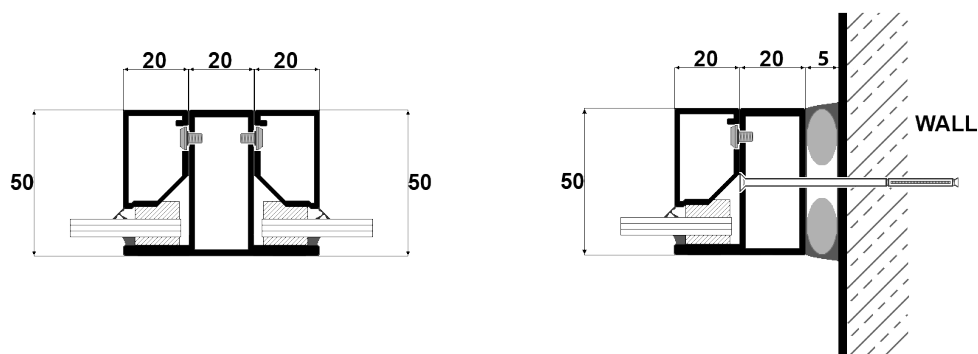
SECTION DRAWINGS

Fixed Sections

Typical Standard
Perimeter/Mullion
Section



Typical Low Profile
Perimeter/Mullion
Section



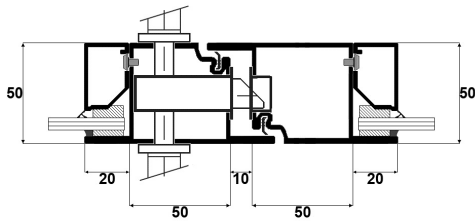


SECTION DRAWINGS

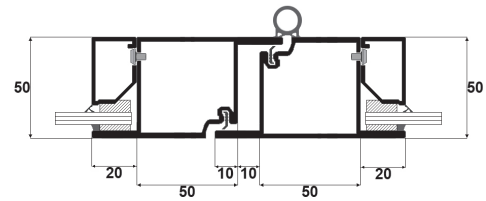
Operable Sections (Hinged doors)

Hinged Doors

Pair of Door - Meeting Stiles

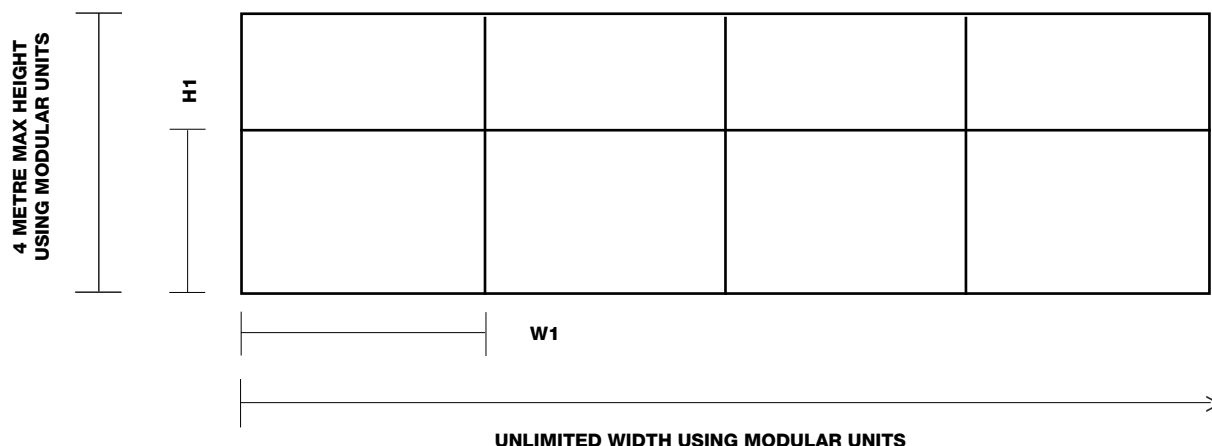


Door with Sidelight - Plan Section





MAXIMUM OVERALL FRAME SIZES SINGLE & MULTI PANES (FIXED ONLY)



MAXIMUM SIZES BASED ON SINGLE PANE

	Profile 5050		Profile 5020		Modular Units	
	Height	Width	Height	Width	Height	Width
13mm Laminated	3000	1200	2940	1140	4000	1200 x unlimited
26mm Double Glazed	2400	1200	N/A	N/A	4000	1200 x 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.



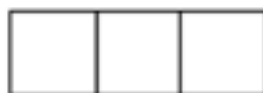
STANDARD CONFIGURATIONS & CODES



F1x1



F1x2



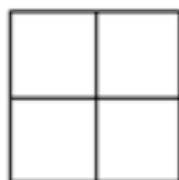
F1x3



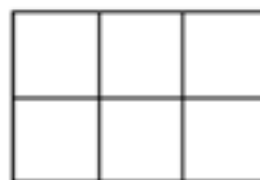
F1x4



F2x1



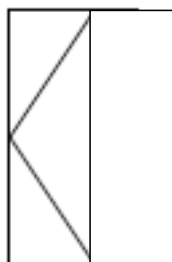
F2x2



F2x3



D



D1SLR



DP1

Please contact Nilfire if other configurations are required

*Terms: 1. Nilfire reserves the right to add to, delete, or vary the contents of this document at any time without notification to you. Please check online for the most up to date version of this document.

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Last Updated 24/2/2017