



NEXT

Generation Technology

THERMAL WINDOWS & DOORS

NE
XT

WINDOWS & DOORS





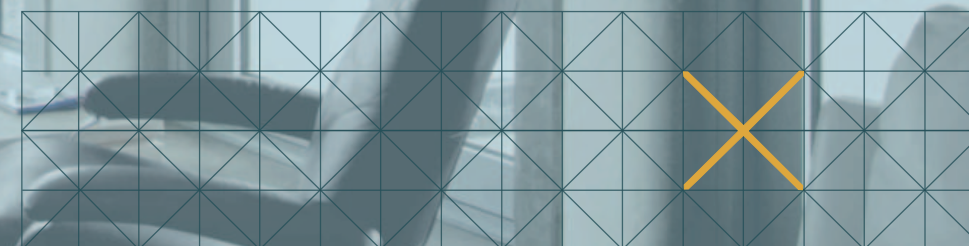
THIS CHANGES EVERYTHING.

Welcome to the most advanced window and door system in the Southern Hemisphere.

Stronger, more durable and weathertight than any other, NEXT's latest range promises to give you and your home the kind of beautiful and expansive outlook seldom enjoyed in a home setting until now.

CONTENTS

Window & Door Systems	2
Thermal Break Technology	4
Thermal Break Design	6
NZ Thermal Requirements	8
Thermal Comparisons	10
Glass	14
Solace Low-E	16
XR Edge	18
VIG	20
Windows & Doors	22
Awning Windows	28
Hinged Windows & Doors	32
Folding Windows & Doors	34
Sliding Windows & Doors	36
Thermal Suites	38
TL40	44
TL40 Plus	46
TL45	48
TL45 Plus	50
TL55	52
TL55 Plus	54
Coatings & Colours	56
Accessories	60
Platinum Entry Doors	64
Entrance Hardware	68
FMI Building Innovation	70



WINDOW & DOOR SYSTEMS

Bigger. Better. Wider.

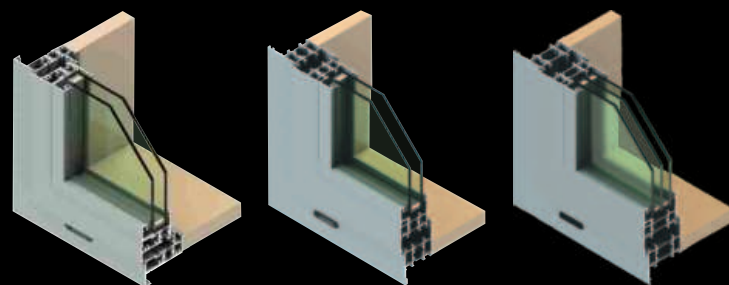
If you're looking for that big, modern, architectural, minimalistic look for your windows and doors – the kind that gives you a wide uninterrupted view of life outside – then NEXT window and door technology is the breakthrough to let you do it.

Self Supporting Window System (SSWS) technology gives NEXT windows and doors the scope to stretch from standard window and door builds.

The higher-spec solution uses frames and profiles in awning, hinged and sliding windows and doors that are narrower in width. Their smart design enables their strength to be delivered from the

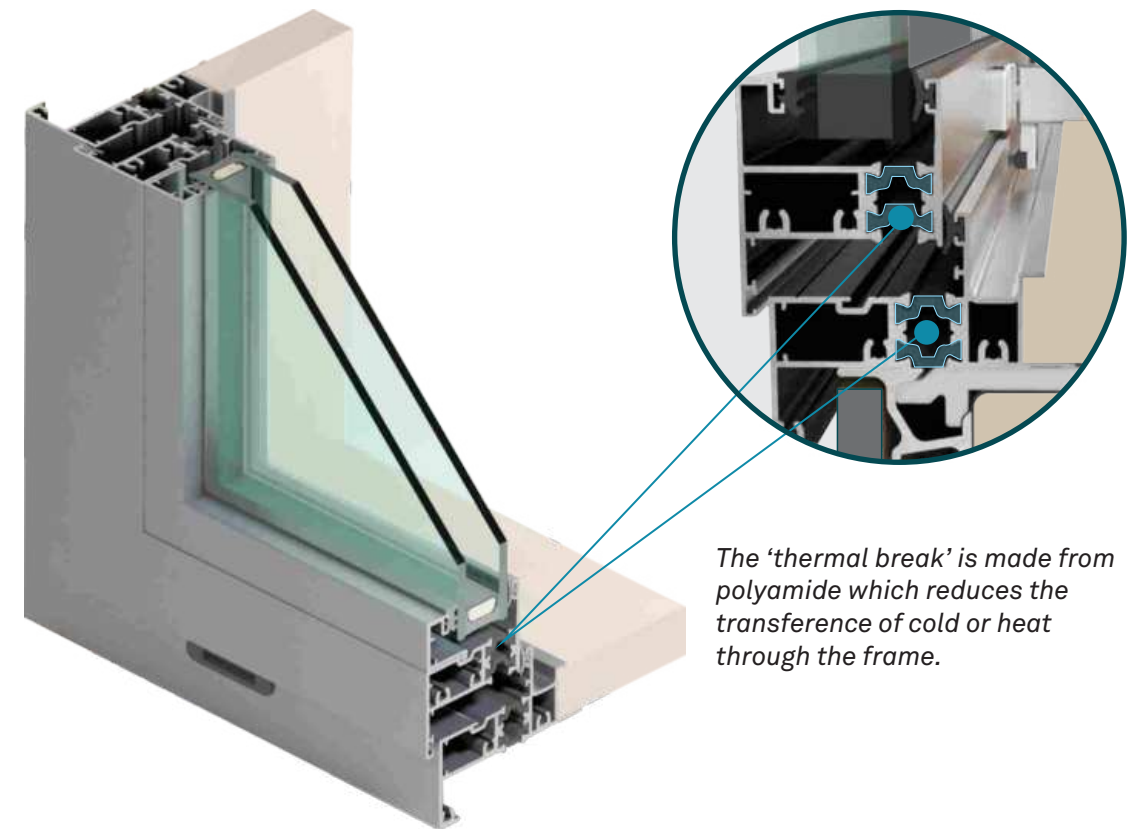
frame/profile's depth instead. This means that they can take larger panes of glass enhancing uninterrupted views. Larger glass panes also allow for improved acoustic and thermal performance within this range.

NEXT's SSWS enhanced windows and doors have been tested for extra high wind zones.



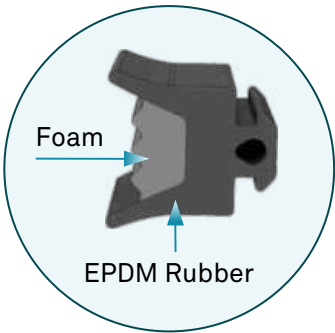
THERMAL BREAK TECHNOLOGY

Our thermal break technology is a clever design feature that ensures the aluminium around our windows and doors is more robust to changes in temperature.



Thermal Edge Seals

Details matter and our windows and doors use co-extruded and vulcanised gaskets with heavy-duty properties that create stability and ensure high thermal insulation. The weatherproof properties and resistance to environmental influences means our gaskets deliver top performance in the harshest of New Zealand climates.

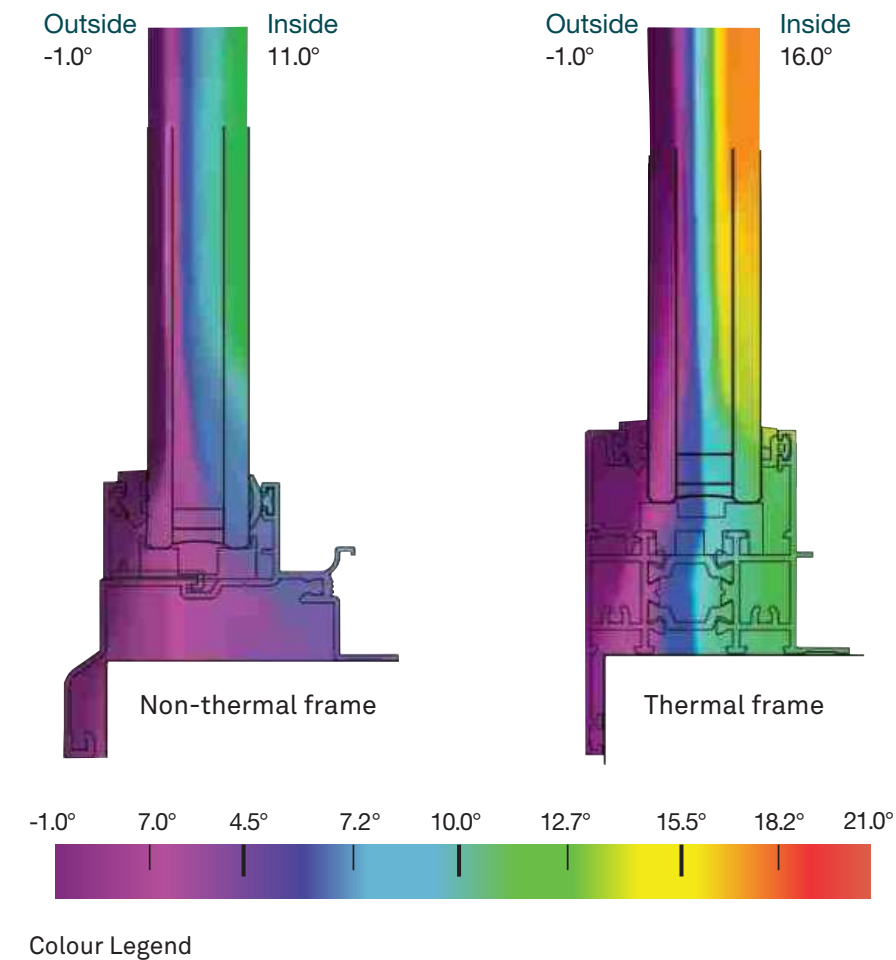


Backing seals

Glazing wedges



With up to 73% improvement in thermal efficiency, you can enjoy the benefits of a drier, warmer home in winter, reduced heat in summer, and outstanding sound-proofing all year-round.



Energy Efficiency

Thermally improved windows and doors provide the best energy efficiency for your home. When combined with high performance glass solutions, the benefits are even greater.

Thermal efficiency of windows and doors is measured by R-value.

This is the thermal resistance of the total window system (including glass, thermal spacer and joinery). The higher the R-value, the less heat is lost through the system, and the better the insulation. Depending on the size of the unit, NEXT thermal products achieve optimum R-value results, providing the best thermal performance for your home. This provides a level of year-round comfort that you'll love coming home to.

Your NEXT manufacturer can show you exactly what R-value rating each of your windows and doors (and the combined value across your whole house), can achieve.

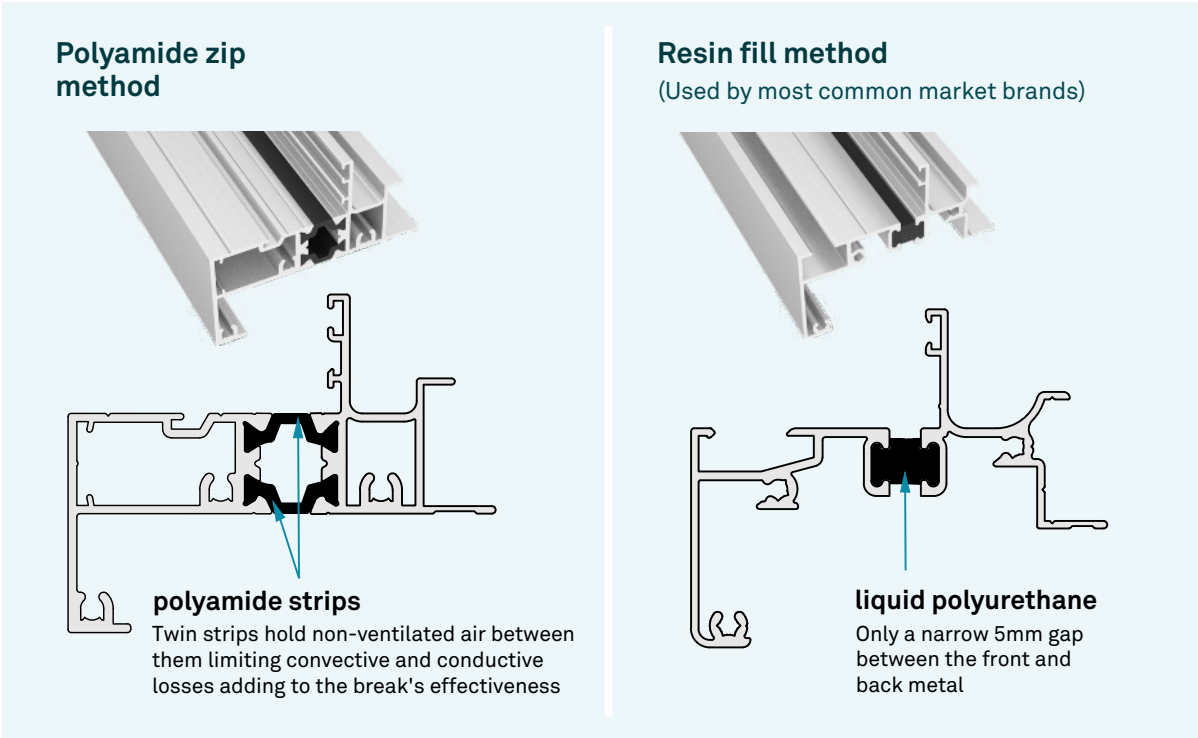
THERMAL BREAK DESIGN

Thermally broken window and door frames, include a thermal barrier inserted between the inside and outside sections of the frame to reduce heat transfer. Thermal break designs can be made of different materials, to different shapes and sizes and placed in different parts of the window frame and the design can significantly affect the R values.

The R-value measures the thermal resistance and insulating properties of windows. Essentially, windows with higher R-values have better insulation, meaning they can slow the rate of heat transfer and keep your home cosy all year round.

NEXT windows and doors have well researched and tested frames that use **polyamide strips** instead of the resin filled method that uses liquid polyurethane for the following reasons:

- Precise extrusion through a die to desired profile shapes, achieving tight tolerances and repeatable output
- Similar coefficient of expansion to aluminium, delivering excellent structural integrity
- Higher melting point than polyurethane, providing further structural integrity in dark coloured frames on hot days
- Suitable for various window systems, including oversized and impact-resistant ones
- Able to be powder coated to match the rest of the window assembly



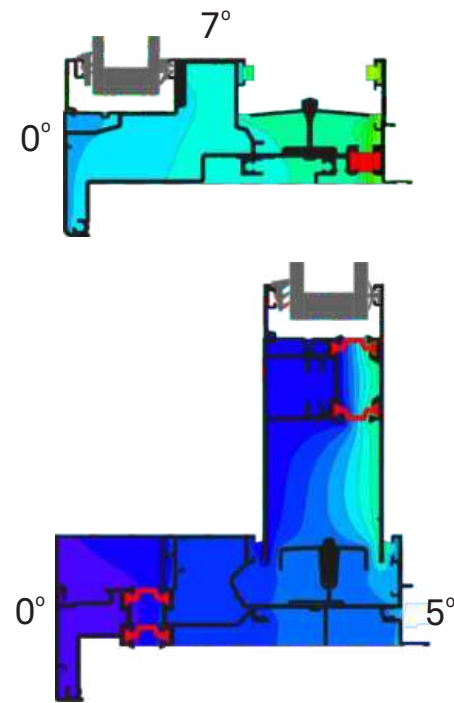
NEXT thermal technology goes beyond compliance standards to achieve superiority

The best thermal windows and doors have **multiple thermal breaks** and the number of thermal breaks and how accurately they are placed in a window or door assembly is critical.

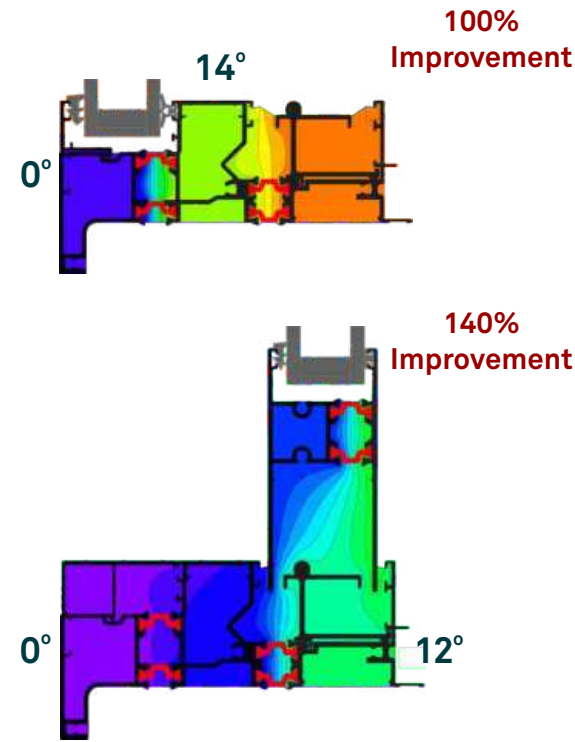
Good examples are sliding and stacking doors. These doors have more than one door track but not all manufacturers take care to thermally break each track. There is no thermal break at the front of the frame under the glazing, which means there is no barrier separating the warm interior and cold exterior. Effectively, the outer door track is a cold frame with thermal paths through which heat can escape.

Sliding Door - frame comparison showing thermal breaks (in red)

Common market brands

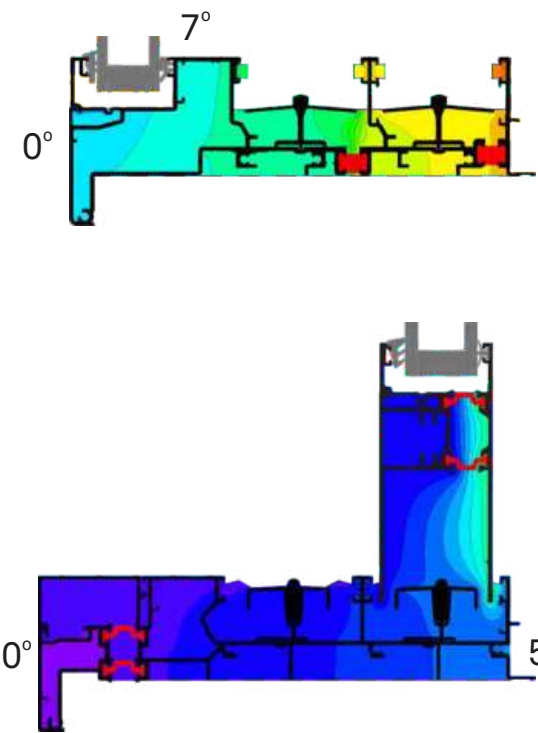


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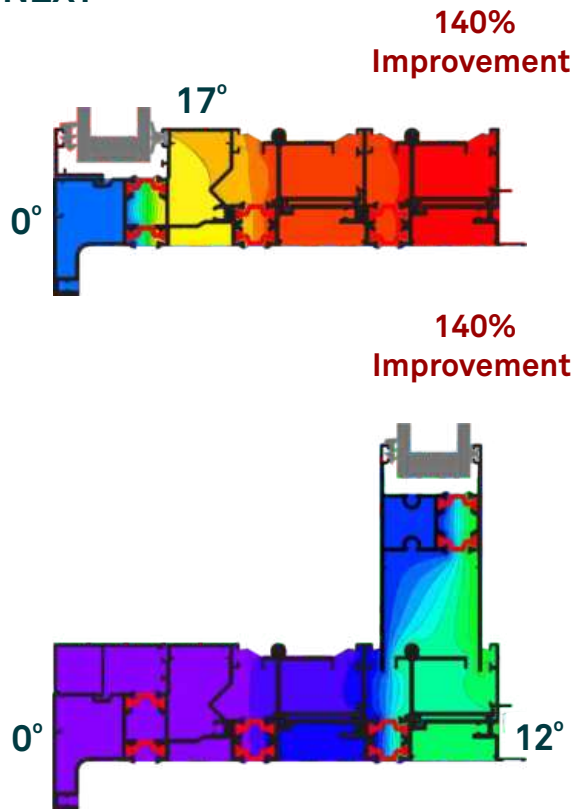


Stacking Door - frame comparison showing thermal breaks (in red)

Common market brands



NEXT



NZ THERMAL REQUIREMENTS

Extreme weather is what separates good windows and doors from bad ones and the new official MBIE building code is aimed at ensuring building products stand up to New Zealand’s extraordinary weather variances. From the Northland summer heat to the bitter winter cold and the heavy rains of the South Island, buildings now have to be designed to ensure they perform well in every climate and weather event.

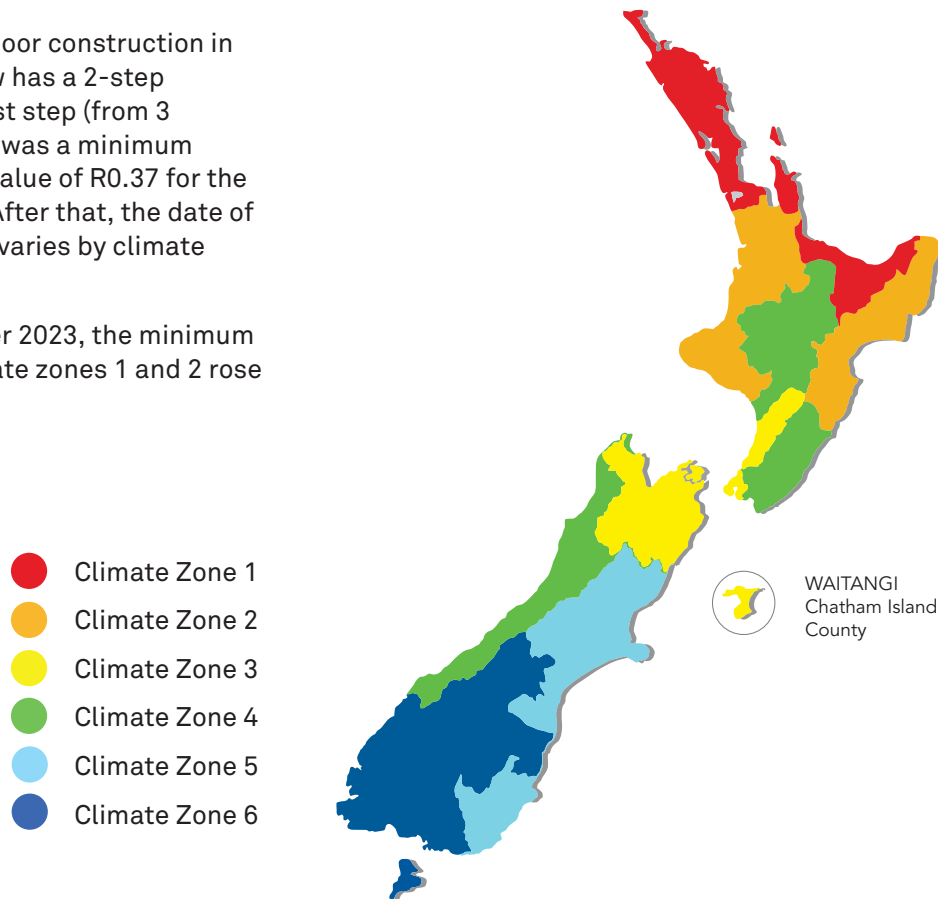
Climate Zones

Previously New Zealand’s building code recognised three climate zones to specify insulation requirements. In MBIE’s new regulations there are six climate zones to better reflect the different temperatures and weather conditions experienced across the country.

This means that depending on where your home build is you will have to adhere to the standards dictated in the particular zone.

All window and door construction in new housing now has a 2-step increase. The first step (from 3 November 2022) was a minimum construction R-value of R0.37 for the whole country . After that, the date of the second step varies by climate zone.

From 2 November 2023, the minimum R-value for climate zones 1 and 2 rose to R0.46



Minimum R-values for windows and doors for housing

CLIMATE ZONE						
Options	1	2	3	4	5	6
Windows and Doors						
Minimum Requirements			R0.26			
2 November 2023	R0.46↑		R0.46		R0.50	

Understanding window values

With the complicated aspects of glass performance and compliance requirements, choosing the best windows for your home can become confusing and even daunting. We have prepared an easy to understand, 3 step guide to choosing the best windows for your requirements (next 2 pages).



What is an R Value?

The R Value is a measure of a window’s thermal resistance which determines how well it can prevent outdoor temperatures from affecting the indoor climate of your home. In other words, the higher the R value, the better the window is at insulating your home and keeping you comfortable.

R values are determined by a number of primary factors including:

- The number of layers of glass used
- The amount of air space between the layers
- The number and quality of thermal breaks in the frame
- The tightness of the installation
- The thermal resistance level of the materials used including the spacers and frame

The overall R value is the heat resistance capabilities determined for the entire window.

What does m²K /W mean?

This is the unit of measurement for thermal resistance (R value).

What is H1 Compliance?

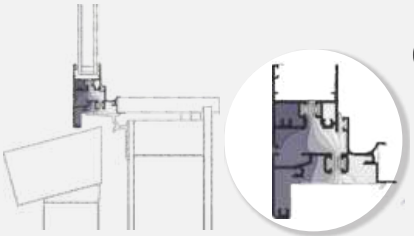
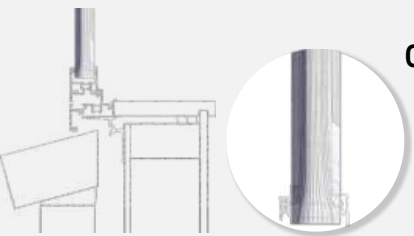
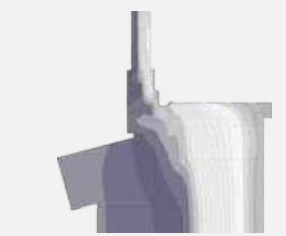
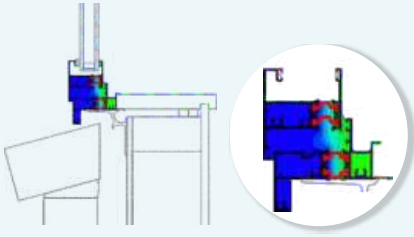
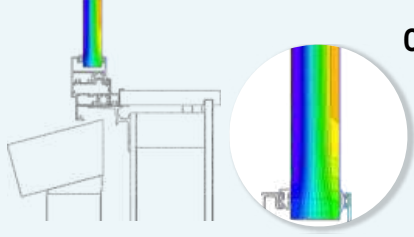
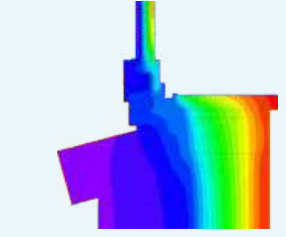
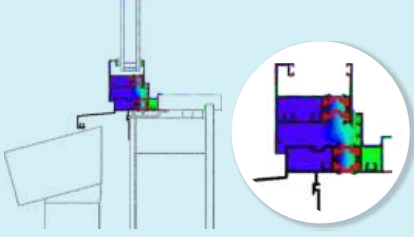
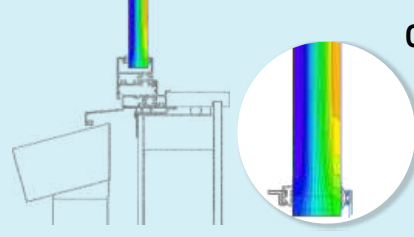
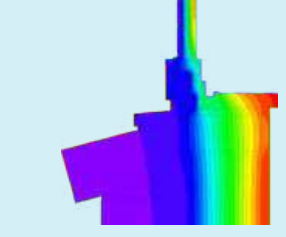
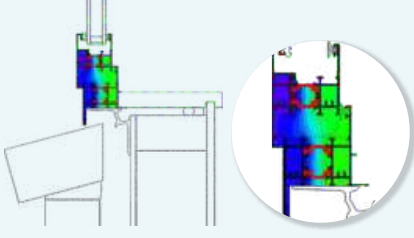
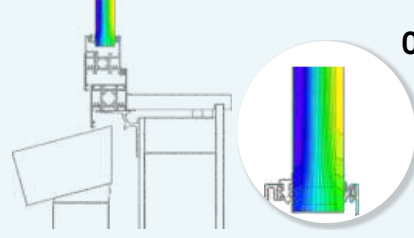
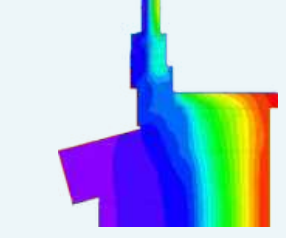
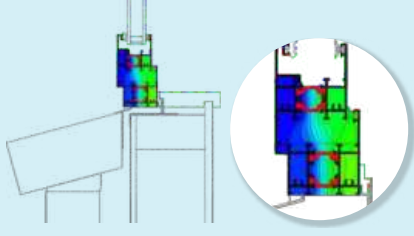
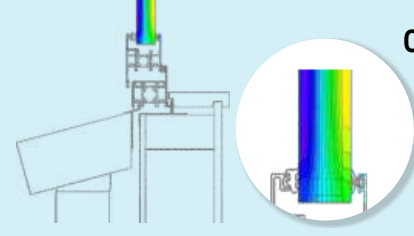
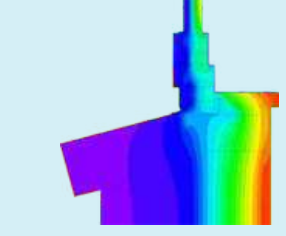
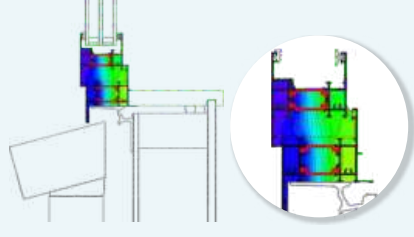
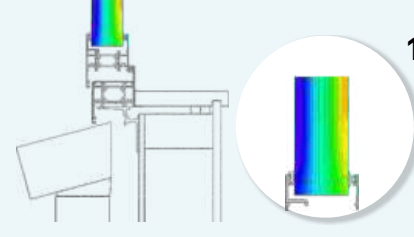
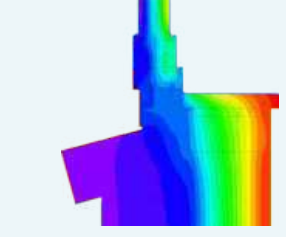
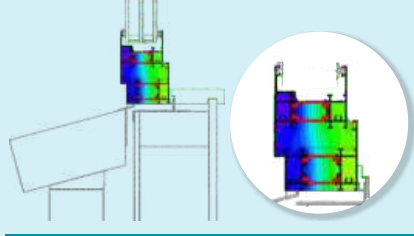
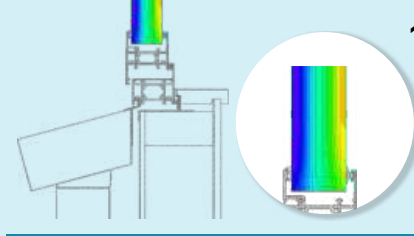
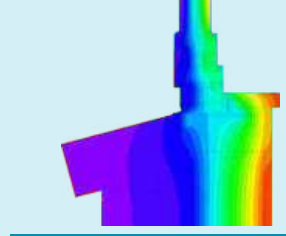
H1 is a clause in the New Zealand Building Code that regulates the energy efficiency of the built environment which includes the thermal performance of windows and doors, and walls as well as floor and ceiling insulation. It is the official, acceptable energy efficiency and thermal performance designed to make new buildings warmer, drier and healthier by reducing the energy and environmental impact needed to heat them.

While the latest H1 update has created a major improvement in thermal resistance requirements, it falls short of the ideal because it does not take installation into account which makes a significant performance difference.

NEXT goes well above and beyond the basic H1 requirement by addressing the area of installation, ensuring that the thermal performance of our windows is far beyond official requirements.

This easy 3 step chart compares common market brands (top row) with NEXT's range of thermal window options

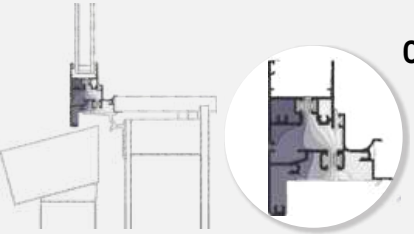
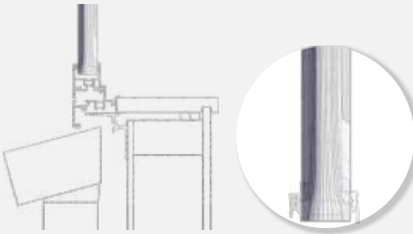
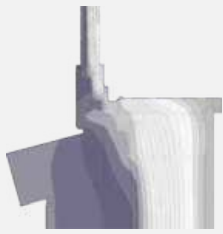
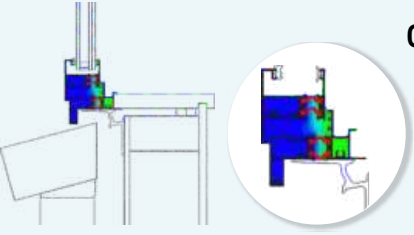
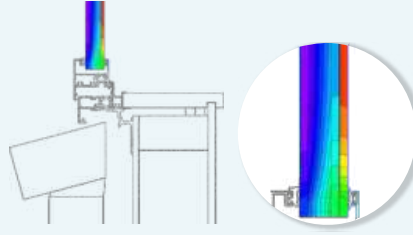
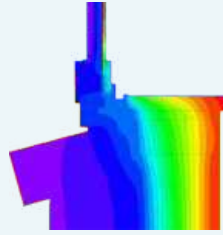
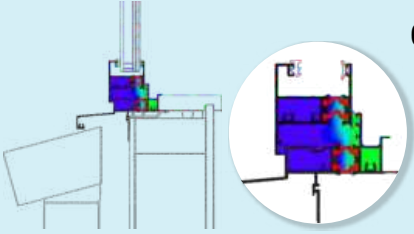
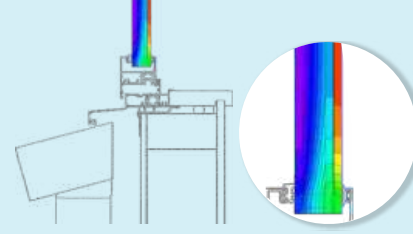
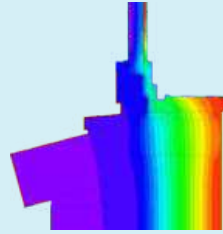
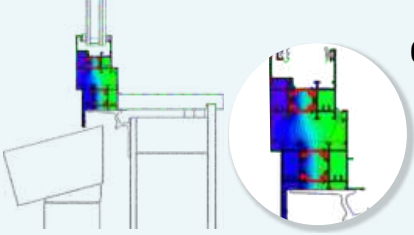
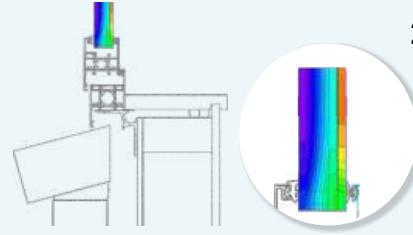
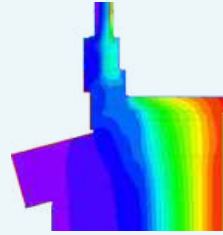
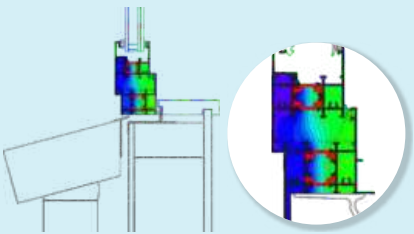
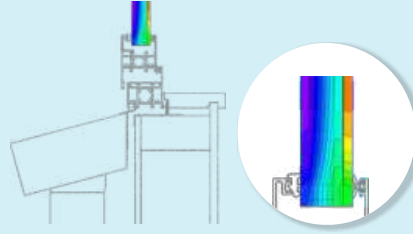
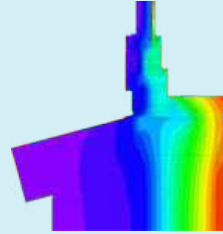
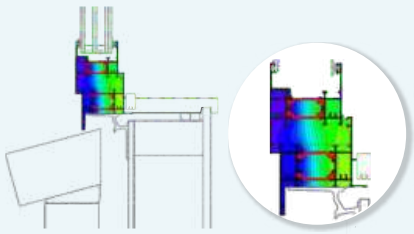
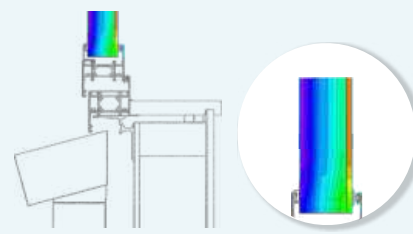
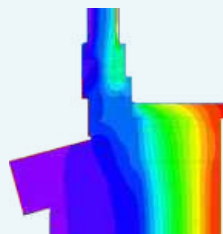
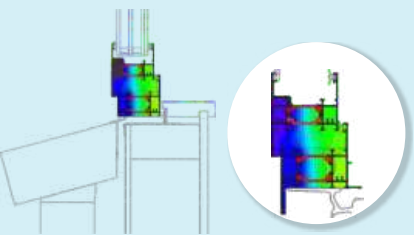
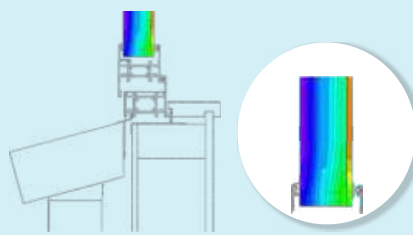
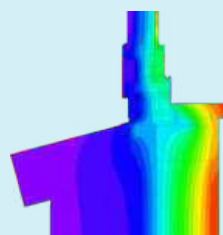
NEXT's huge percentage performance improvement

	STEP 1 Frame R Value	STEP 2 Glass R Value	H1 Compliance m²K/W	STEP 3 R Value Installed LOSS m²K/W
Resin Fill	 0.196	 0.840	0.45	 -13.3% 0.39
TL40	 0.231 +18%	 0.840	0.51 +13%	 -17.6% 0.42 +8%
TL40 Plus	 0.226 +15%	 0.840	0.51 +13%	 - 7.8% 0.47 +21%
TL45	 0.289 +47%	 0.840	0.50 +11%	 -18.0% 0.41 +5%
TL45 Plus	 0.294 +50%	 0.840	0.50 +11%	 -10.0% 0.45 +15%
TL55	 0.330 +68%	 1.471	0.65 +44%	 -21.5% 0.51 +31%
TL55 Plus	 0.345 +76%	 1.471	0.66 +47%	 -13.6% 0.57 +46%

R Value for typical houselot H1/AS1 E1.1.1 to standards ISO10077 and EN673

3 step chart comparing common market brands (top row) with NEXT's range of thermal window options using VIG Glass

NEXT's huge percentage performance improvement

	STEP 1 Frame R Value m²K/W	STEP 2 Glass R Value m²K/W	H1 Compliance m²K/W	STEP 3 R Value Installed LOSS m²K/W
Resin Fill	 0.196	 0.840	0.45	 -13.3% 0.39
TL40 + FMI VIG Glass	 0.231 +18%	 2.128	0.71 +58%	 -22.5% 0.55 +41%
TL40 Plus + FMI VIG Glass	 0.226 +15%	 2.128	0.71 +58%	 -11.3% 0.63 +62%
TL45 + FMI VIG Glass	 0.289 +47%	 2.128	0.67 +49%	 -22.4% 0.52 +33%
TL45 Plus + FMI VIG Glass	 0.294 +50%	 2.128	0.68 +51%	 -14.7% 0.58 +49%
TL55 + FMI VIG Glass	 0.330 +68%	 2.381	0.75 +67%	 -24.0% 0.57 +46%
TL55 Plus + FMI VIG Glass	 0.345 +76%	 2.381	0.76 +69%	 -15.8% 0.64 +64%

R Value for typical houselot H1/AS1 E1.1.1 to standards ISO10077 and EN673

GLASS

The NEXT Glazing Difference

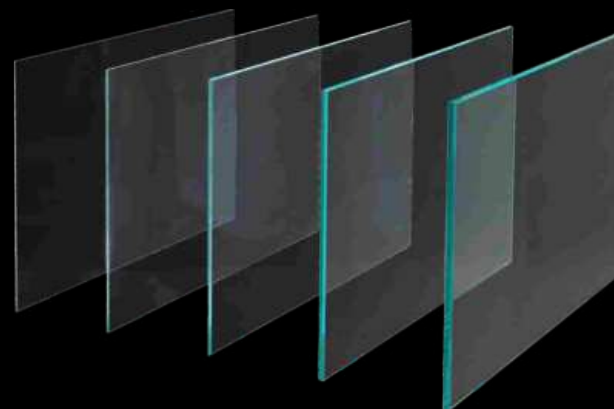
There is a perception that all glass is the same but in fact, there are very real, basic differences in quality and clarity. NEXT has considerable expertise in the field of glass and glass application.

The right glazing options for a home and the costs involved will depend on a number of things. Factors like lifestyle, climate, noise levels and where your windows are positioned need to be considered.

NEXT window and door solutions works to make a home more comfortable. When you combine our exceptional windows and

doors with the optimum insulated glass selection, you'll have a living environment that feels 'just right', all year round.

Optimum thermal resistance for your window and door system will include such factors as the integrity of the joinery, the glazing spacers and low emissivity glass.

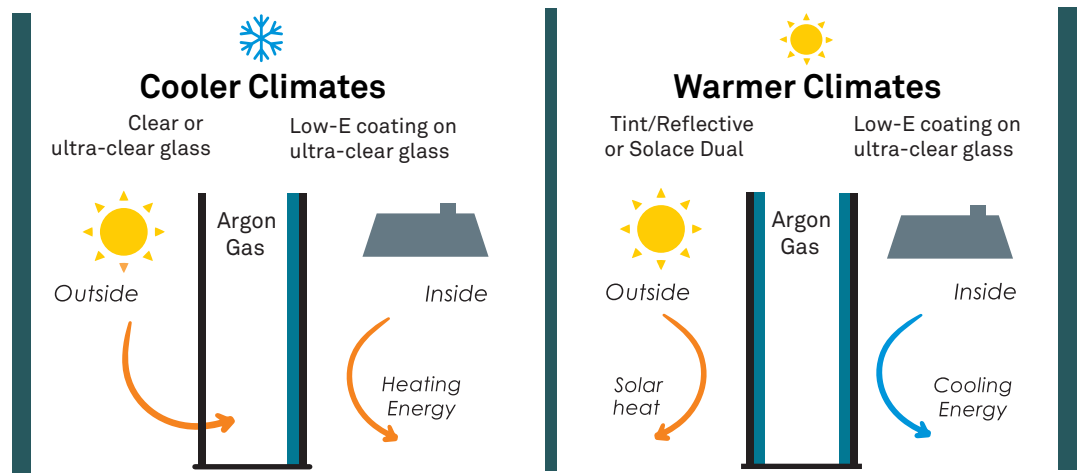


SOLACE LOW-E

INSULATING GLASS

Keeps the heat in, or out.

Solace Low-E is NEXT's low emissivity (Low-E) glass promising the highest thermal performance. An almost invisible low emissivity coating is applied to our ultra-clear glass and placed into an insulated glass unit (IGU).



PERFORMANCE ADVANTAGES

Year round comfort

In cooler climates, Solace Low-E reflects warmth generated from heating systems inwards, cutting window heat loss compared to double glazing without Solace Low-E. Meanwhile, in warmer climates, Solace Low-E reflects solar heat to the outside.

Greater savings on energy costs

Solace Low-E glass ensures your home is less reliant on heating and cooling systems, providing significant energy savings over the course of the year.

Better for the environment

With fewer energy resources required to keep your home healthy and comfortable year round, Solace Low-E offers overall greater energy efficiency ensuring a sustainable home.

We only coat Solace Low-E on ultra-clear glass

Unlike other glass manufacturers, we only coat Low-E on ultra-clear glass so our entire Solace Low-E offering retains a high percentage of visible light transmission.

HEALTH ADVANTAGES

A clear difference

Studies have shown that natural light is a vital component of our well-being. It improves our mood and reduces stress and anxiety levels and it improves productivity. Solace is the clearest Low-E on the market allowing the maximum achievable, much needed natural light and is especially recommended in living spaces for the elderly and for offices.

HOT CLIMATE ADVANTAGES

Solar Heat Gain

Solar heat gain in homes and buildings occurs when solar radiation enters directly through windows and skylights. The sunlight enters the room through the windows and heats up the interior surfaces, increasing the temperature in the room. If it is not properly managed, excessive direct solar heat gain can lead to discomfort and the need for additional cooling to maintain a comfortable indoor environment.

Solar heat gain can be significant, especially in warm climates during the summer months.

Managing solar heat gain is crucial for energy efficiency and general comfort and can be achieved by using dual Solace Low-E or tinted reflective glass.

CLEAREST CODE COMPLIANT LOW E GLASS ON THE MARKET

Double Glazed IGU Configuration				Rg Value m²K/W	Ug Value W/(m²K)	Solar Heat Gain Coefficient (SHGC)	Visible Light Transmittance
4 Clear	16 Air	4 Clear		0.37	2.73	0.76	82%
4 Clear	16 Ar	4 Solace ¹		0.84	1.19	0.64	83%
4 Solace ¹	16 Ar	4 Solace ¹		0.91	1.10	0.60	83%
4 Solace ²	16 Ar	4 Solace ¹		0.92	1.09	0.42	71%
4 Solace ³	16 Ar	4 Solace ¹		0.94	1.06	0.35	69%
Tinted	16 Ar	4 Solace ¹		0.84	1.19	0.39	41%
Tinted Reflective	16 Ar	4 Solace ¹		0.84	1.19	0.31	31%

Triple Glazed IGU Configuration					Rg Value m²K/W	Ug Value W/(m²K)	Solar Heat Gain Coefficient (SHGC)	Visible Light Transmittance
4 Clear	16 Air	4 Clear	16 Ar	4 Clear	0.56	1.79	0.68	75%
4 Clear	16 Ar	4 Clear	16 Ar	4 Solace ¹	1.04	0.96	0.58	75%
4 Solace ¹	16 Ar	4 Clear	16 Ar	4 Solace ¹	1.49	0.67	0.55	76%
4 Solace ²	16 Ar	4 Clear	16 Ar	4 Solace ¹	1.54	0.65	0.39	65%
4 Solace ³	16 Ar	4 Clear	16 Ar	4 Solace ¹	1.59	0.63	0.30	63%
Tinted	16 Ar	4 Solace ¹	16 Ar	4 Solace ¹	1.49	0.67	0.33	38%
Tinted Reflective	16 Ar	4 Solace ¹	16 Ar	4 Solace ¹	1.49	0.67	0.26	29%

To Standards EN673, EN410 Ar = 90% Argon Solace 1 on UltraClear

XR EDGE

INSULATING GLASS

Spacer technology for longer life

XR Edge is available in all NEXT windows and doors glazing. The key to the effectiveness of this technology is the spacer which is essentially a component that holds the two panes of glass apart within an insulated glass unit (IGU). Its main role is to stop moisture passing into the IGU, preventing the possibility of internal condensation and fogging.

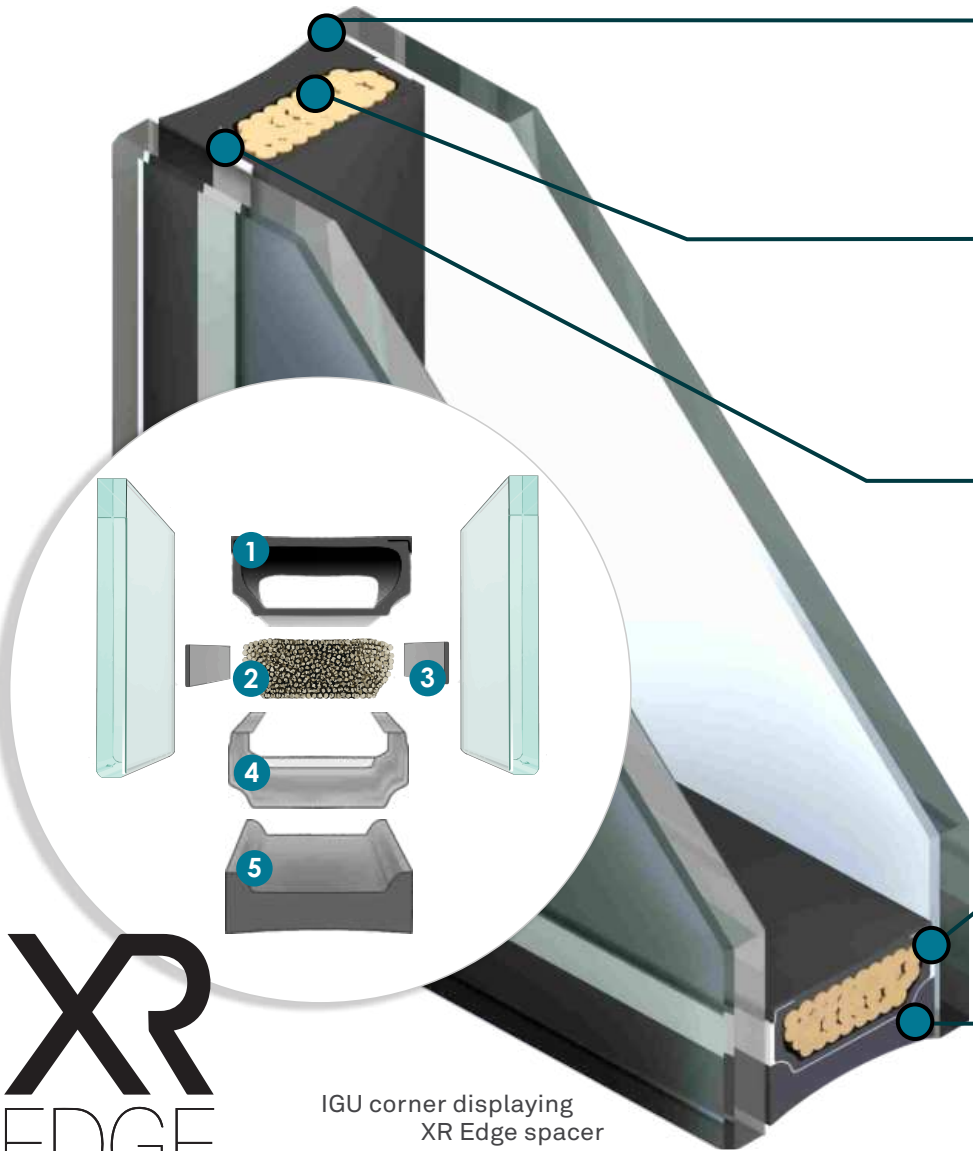
TESTED IN NEW ZEALAND’S MOST ADVANCED INDEPENDENT LABORATORY

FMI’s advanced on site laboratory tests to NZ and International standards. Tests conducted have shown that XR Edge IGUs are up to 3X more durable than other IGUs on the NZ market. This means that they can last up to 3X longer.

How we compare

FEATURES	ALUMINIUM SPACER	FOAM SPACER	TPS SPACER	XR EDGE SPACER
Rigid Spacer	✓	×	×	✓
Warm Edge	×	✓	✓	✓
Desiccant on all Four Sides	×	✓	✓	✓
Desiccant Moisture Absorption Capacity	50%	35%	35%	100%
Zero External Vapour Permeation	✓	×	×	✓
Stainless Steel External Vapour Barrier	×	×	×	✓

UP TO 3X THE DURABILITY



IGU corner displaying XR Edge spacer



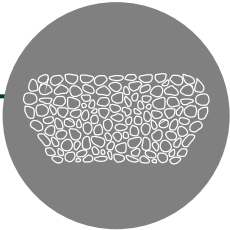
1 Warm Edge Box Structure

A composite box structure that gives the entire spacer unit overall strength and a warm edge performance.



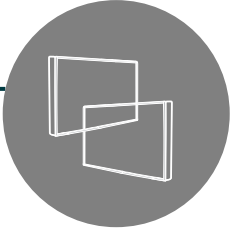
2 Desiccant

Removes moisture from the enclosed air during production and subsequently absorbs water vapor that penetrates until the end of its absorption capacity.



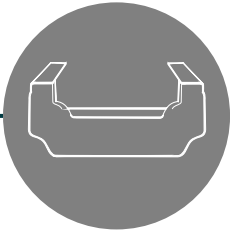
3 Primary Sealant (PIB)

Maintains gas tightness and minimizes moisture ingress into the unit. PIB is applied to the sidewalls of the spacer and creates a seal between the spacer and the glass.



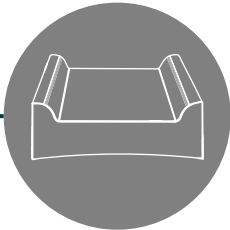
4 Stainless Steel Vapour Barrier

Stops desiccant absorbing moisture from outside of the unit.



5 Secondary Sealant

Provides mechanical stability to the entire IGU and protects the unit from environmental influences.

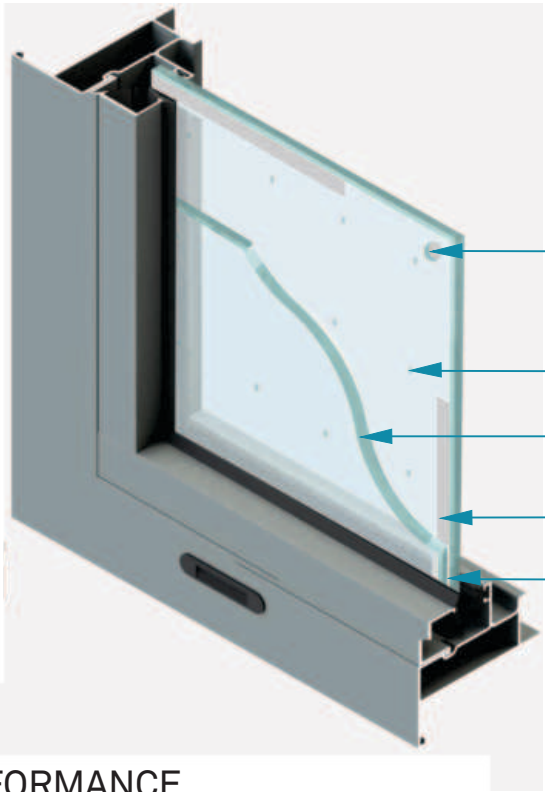


FMI VIGs

VACUUM INSULATED GLASS

Sophisticated technology offering the ultimate in thermal glass technology

VIG combines the best thermal insulation and noise reduction with appealing aesthetics allowing seamless integration into existing frames or new windows and doors.



Efficient Getter Material

Reactive deposit to absorb any gas inside the vacuum space

Micro Support Pillars

0.7 mm dia pillars resist atmospheric pressure

Low-e Glass

fully tempered glass

Edge Sealing Material

0.3mm Vacuum Gap

PERFORMANCE ADVANTAGES

Energy Conservation: The high vacuum chamber of our FMI VIG windows, effectively blocks thermal transmission ensuring superior thermal insulation performance.

Noise Reduction: Thanks to the high vacuum chamber which effectively blocks the sound transmission, the sound insulation performance is far better than insulated glass.

UV Filtering: The UV radiation is low protecting indoor furniture and home appliances.

Thinner, Lighter & Stronger: Our FMI VIG glass is thinner and lighter than insulated glass but low temperature sealing technology provides exceptional high strength and impact resistance.

Thermal Insulation: The properties of this product meet all international thermal transmittance requirements on windows and doors for passive houses.

Super Long Life: FMI VIGs' service life expectancy exceeds 25 years even in environments with big temperature differences between the inner and outer glass surfaces.

Easy to Replace: FMI VIGs make historic building restoration work easy and safe because they can be easily fitted into the original window and door frames.

Single Glazed VIGs 11x Better Than Single Glazing	 AW SG	 AW VIG Vacuum Insulated Glass
	SINGLE GLAZED NON THERMAL FRAME	SINGLE GLAZED WITH VIG NON THERMAL FRAME
	ENERGY EFFICIENCY CENTER OF GLAZING (COG) R_{COG} Value (m ² K)/W	0.17

Double Glazed VIGs 6x Better Than Double Glazing	 AW DG	 AW VIG-DG Vacuum Insulated Glass
	DOUBLE GLAZED THERMAL FRAME	DOUBLE GLAZED WITH VIG THERMAL FRAME
	ENERGY EFFICIENCY CENTER OF GLAZING (COG) R_{COG} Value (m ² K)/W	0.37

KEY CHART

CEN environmental conditions to standards EN673 and EN410

- U_{COG}** U_{COG} is the thermal transmittance measured at the centre of the glazing. The lower the value, the less heat is lost.
- R-Value** R-Value is the thermal resistance of a material. The higher the value, the less heat is lost through the material and the better the insulation and efficiency.
- VLT** Visible Light Transmittance (VLT) describes the percentage of visible light transmitted through the glass. The higher the percentage the more daylight transmitted.
- SHGC** The Solar Heat Gain Coefficient (SHGC) is the total fraction of available solar radiation that is transmitted through the window as heat gain.



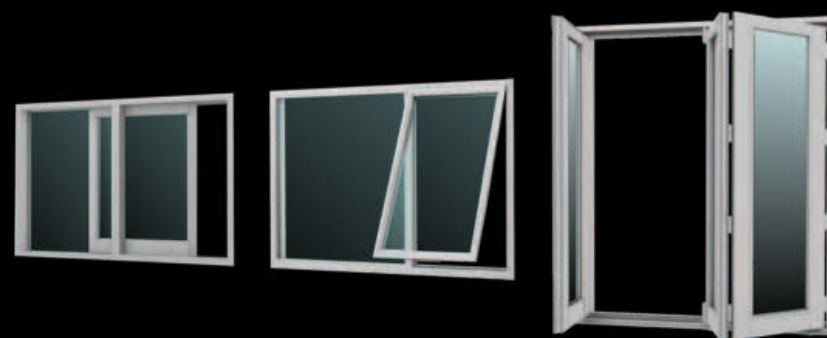
WINDOWS & DOORS

Style and function

Whether the style of your build is modern or traditional, choosing the right window and door styles is important and the overall aesthetic appeal and functionality has to be factored into every decision.

Window and door styles you select should harmonize with the architectural design, accentuating its unique features while providing optimal natural light, ventilation, and security.

Different window and door styles can reflect the era of a home, the surroundings, lifestyle requirements and address weather peculiarities of some regions.



ENHANCING THE COMFORT IN YOUR HOME

There is an intrinsic relationship between temperature and our comfort and well being. Temperature profoundly affects our emotions, mood and overall well-being and having the right temperature is important.

The demands on energy are growing at a rapid rate and it is a fact of life that a comfortable environment is becoming more costly every year. For this reason, people are replacing single glazed windows with double glazing to reduce energy consumption however NEXT has taken this a step further with thermal break technology which takes energy efficiency for windows and doors to another level.

NEXT's thermal window and door systems provide an energy-efficient alternative to the traditional non-thermally broken window and door products. This helps to optimize efficiency and comfort for New Zealand homes especially, in the cold regions.

Key Benefits

- A warmer, more energy-efficient home
- Reduced condensation for a drier, healthier home
- Double and triple-glazed options provide increased comfort and sound control in all climates
- Able to hold larger panels of glass for uninterrupted views
- Built to withstand New Zealand's harshest weather conditions
- Blends perfectly with NEXT Architectural for maximum design options
- Exceeds New Zealand standards



CHOOSE YOUR WINDOWS & DOORS

Windows and doors function in a variety of ways – they can slide, tilt or fold back on themselves. Understanding our range of windows and doors and how they work, will help you make the correct choice to match to your needs, and your lifestyle.

Awning Top Hung Windows

Top hung awning windows allow humid air to escape and reduce condensation, they can be left partially open when its raining. This is a great advantage during the colder months. These are the benefits of having awning windows, particularly when they are placed high up in a bathroom, kitchen and laundry.



Awning Side Hung Windows

Side hung awning windows add an elegant, traditional look to your home or apartment. Our options are practical, simple and provide excellent ventilation. These windows open fully from top to bottom, providing maximum natural ventilation and light.



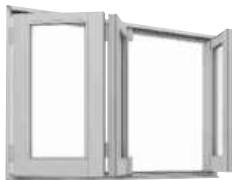
Hinged Doors

Our hinged doors are available in single and double panels and can be open in or open out to maximise space and best fit a home's layout. The single panel doors are ideal as utility doors such as a laundry or garage door but they can be used for any entry. The glass can be clear or tinted and is normally safety glass. Hinged doors are often styled as French doors.



Hinged Folding Windows & Doors

Maximise your views with a well placed folding window. You won't even notice the window, just the view. Folding windows and doors seamlessly connect your home to the outside, adding a sense of space, light and openness to your home.



Sliding Windows & Doors

Create a feeling of space and light with sliding and stacking windows and doors. They are a great, space-saving option, staying flush with the wall. They can be configured to have a single sliding window or door and one or two stationary panels or even double sliding windows or doors flanked by fixed panels. They maximise light and are a great opening onto gardens or features. Vertical (double hung) sliding windows offer a traditional look, making them perfect for traditional style villas.



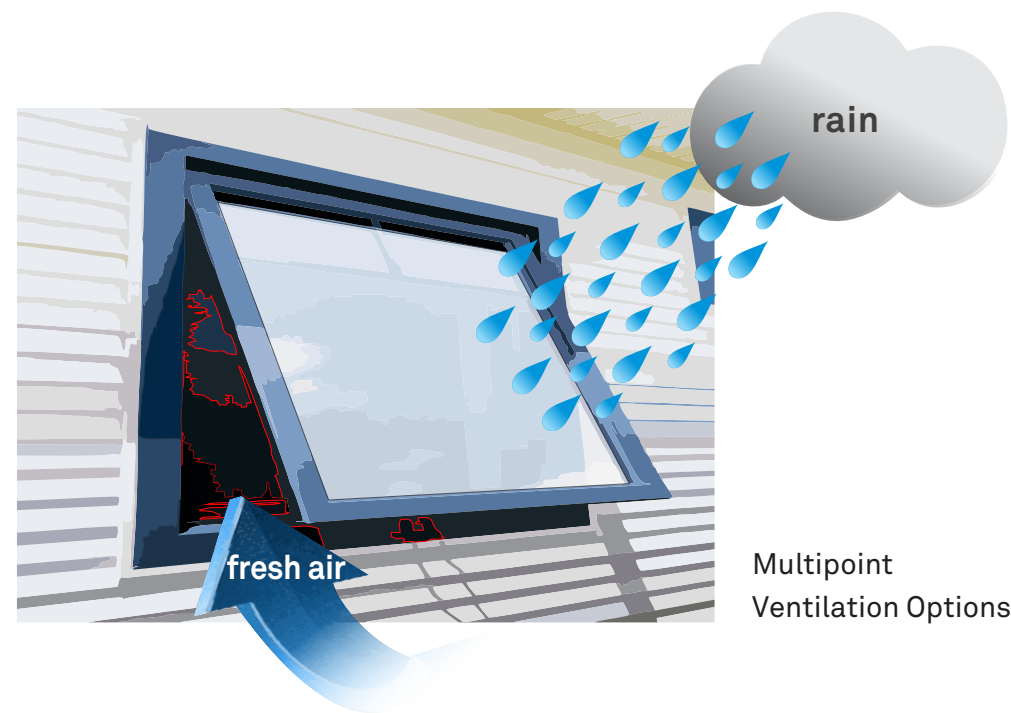
AWNING

An excellent option for any room

Awning windows - top hung

Awning windows are hinged to the top and open out from the bottom. It is a design that allows for excellent, controlled ventilation, catching a refreshing breeze regardless of the direction of the wind, and the open sash can actually help to funnel a breeze into your home. Additionally, an awning window can be placed above or below stationary windows in order to provide adequate ventilation in otherwise stuffy areas. This enables a well ventilated room without compromising wall space. The style of opening also provides a shield from driving rain.

Since awning windows are hinged at the top and open upward there is nothing in the way and they also provide an unobstructed view of the outdoors. These windows are easy to open and close and are ideal for hard-to-reach spaces. While awning windows are a great choice for bathrooms and kitchens, their size flexibility means they can be used in any room. Another advantage of installing awning windows is that they can often be placed high on walls where many traditional style windows would not fit.



Key Benefits

- Controlled air flow
- Excellent window solution for wide openings
- Ideal for high-wind locations
- Can be open when it is raining
- Open and close easily with the simple turn of a handle
- Allows humid air to escape, reducing condensation



AWNING

Windows for modern or traditional

Awning windows - side hung

Most side hung awning windows are vertical rectangles that have a single pane of glass. They also tend to have simple styling that sets them apart from more decorative window types. These are classic windows that lend themselves particularly well to older homes under renovation and new buildings for which a traditional look is desired.

The element that makes a side hung window stand out is the operating mechanics which means instead of sliding up and down, like a hung window, or side to side, like sliders, these windows are hinged at the side, and they open outward similar to a car door.



Controlled
Ventilation Options

fresh air

Key Benefits

- Controlled air flow
- Open and close easily with the simple turn of a handle
- Allows moist air to escape reducing condensation
- The pivot on the edge offers the best “clear opening” area for the size of the frame
- Complements a traditional look
- High security ratings
- Ventilation option



HINGED

Doors with multiple benefits

Our hinged glass windows and doors combine a modern aesthetic with exceptional performance and design flexibility. The doors are available in both in swing and out swing. Like the rest of the NEXT doors and windows, the hinged windows and doors have minimalist hardware, narrow sightlines, and meticulous attention to every detail.



Key Benefits

- Door frames can allow a front door to swing inwards or outwards
- Creates a welcoming, light-filled entryway
- Door frames can be coated to match the door or in a contrasting colour
- Allow for large, floor-to-ceiling configurations
- Unique, tested design of NEXT's windows and doors makes them extremely waterproof

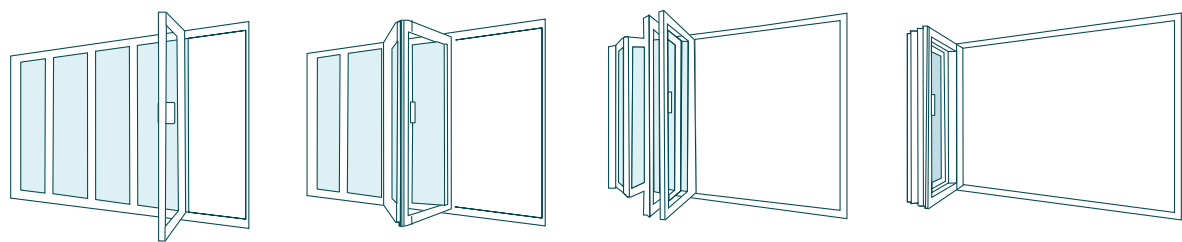


FOLDING

Folding windows & doors transform spaces

Folding windows and doors are functional and stylish. They consist of a number of hinged framed panels that fold into each other simply and elegantly, to connect interior spaces with exterior spaces.

With their timeless appearance, folding windows and doors fit with any style including modern, traditional, period, heritage or new build. They allow a large amount of natural light into a home and remove boundaries creating a different concept of space. They are also highly versatile and can be opened fully or partially and can either open to one side or both sides folding to opposite directions.



Key Benefits

- Exceptional ventilation & airflow
- Abundance of natural light
- Unimpeded views
- Durable & low maintenance
- Ideal for tight spaces & smaller homes
- Easy to open & close
- Door frame can be coated to match window frames
- Unique, tested design of NEXT's doors makes them extremely waterproof



SLIDING

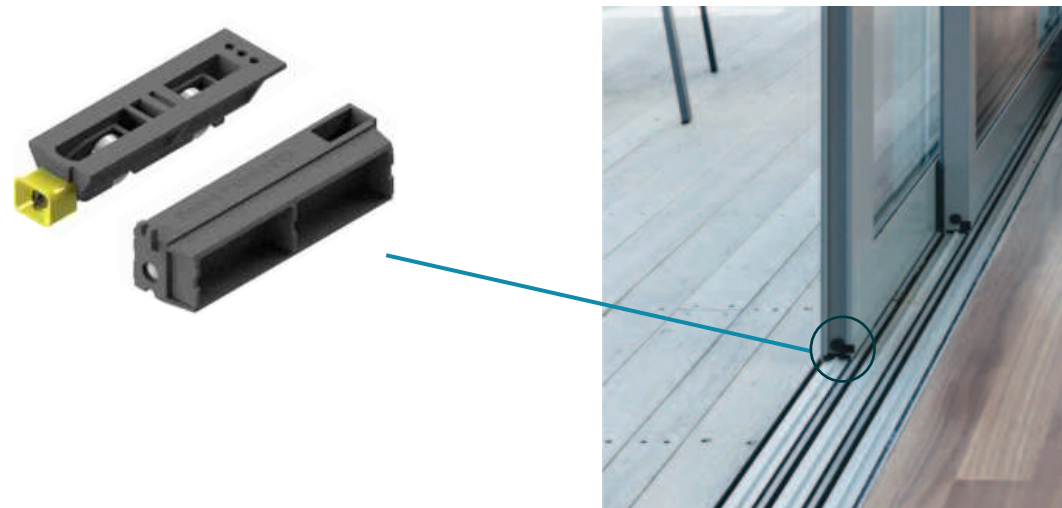
Sliding windows & doors to widen the view

Sliding windows and doors have a simple design. They contain two or more sashes in a single frame and move horizontally left and right ensuring you can operate your windows and doors effortlessly and open or close them as much as you want.

The width means they are ideal for large rooms and can frame natural beauty and provide an enchanting view. Moreover, sliding windows and doors can significantly brighten up a room since they are almost entirely made of glass and have no part of the frame that breaks up the center of the glass panel.

One of the most popular designs is a wide sliding window or door with middle pane fixed and sliding panes on both sides. There is also a variation of this model has two stable middle panes with sliding panes on either side.

Our specially designed high performance, heavy duty, pitched roller makes for effortless operation.



Key Benefits

- Provide a clear and unobstructed view
- Excellent window solution for wide opening spaces
- Large glass panels that let in plenty of natural light and increase ventilation
- Simply overlap and do not require any additional space
- Do not protrude beyond the building
- Can make smaller rooms appear more spacious
- Hard wearing and low in maintenance



THERMAL SUITES

A suite for every design

We've built a reputation for innovative products, technical advancements and exceptional service.

Our suites are ideal for residential builds, high end architectural homes and low rise commercial applications such as schools, hotels and apartments. They address performance demands, visual appeal and design flexibility.

We've spent thousands of hours developing and refining our window and door systems, using some of the best minds in the business right here in New Zealand. We understand New

Zealand conditions and building standards and have created products to withstand all that our unpredictable weather can throw at them.

We also understand the importance of delivering to your clients' time frames and budgets, and our highly experienced Architectural Support Team will work with you to ensure all your projects with us achieve the desired outcome.

TL40-55



ENHANCING THE COMFORT IN YOUR HOME

There is an intrinsic relationship between temperature and our comfort and well-being. Temperature profoundly affects our emotions, mood and overall wellness and having the correct temperature is important.

The demands on energy are growing at a rapid rate and it is a fact of life that a comfortable environment is becoming more costly every year. For this reason, people are replacing single glazed windows with double glazing to reduce energy consumption however NEXT has taken this a step further with thermal break technology which takes energy efficiency for windows and doors to another level.

NEXT's thermal window and door systems provide an energy-efficient alternative to the traditional non-thermally broken window and door products. This helps to optimize efficiency and comfort for New Zealand homes especially in the cold regions.

Key Benefits

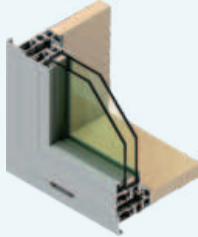
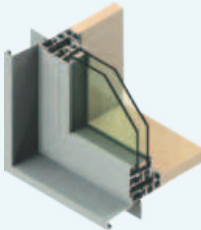
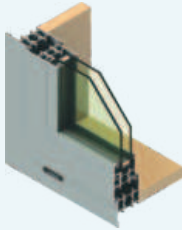
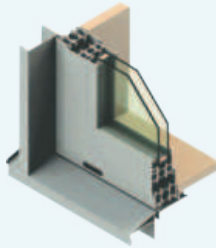
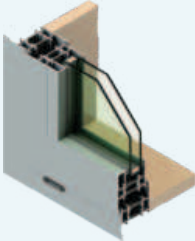
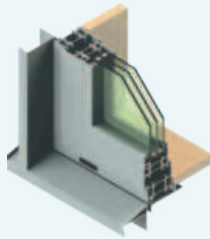
- A warmer, more energy-efficient home
- Reduced condensation for a drier, healthier home
- Double and triple-glazed options provide increased comfort and sound control in all climates
- Able to hold larger panels of glass for uninterrupted views
- Built to withstand New Zealand's harshest weather conditions
- Blends perfectly with NEXT Architectural for maximum design options
- Exceeds New Zealand standards



A THERMAL SUITE FOR EVERY DESIGN

We have six thermal suite solutions that feature ‘thermal break’ polyamide technology which reduces thermal transmittance through the joinery, in turn reducing the impact of external temperature variations and providing a more comfortable living environment. The suites are designed to meet every architectural style. Proper selection of the window and door system is important to ensure you match the correct suite for your application from a compact home to even the most demanding, wide span window construction.

Performance Differences

TL 40 Application: Mid to high-end residential applications  Frame Performance Window R value : Flanged: 0.55 Installed R value: E2/AS1 - 0.45	TL 40 Plus Application: Mid to high-end residential applications where improved installation thermal performance is important  Frame Performance Window R value : Flanged: 0.55 Installed R value: Recessed - 0.51
TL 45 Application: High-end homes with large glass features, it has a robust design to take the weight of wide span windows  Frame Performance Window R value : Flanged: 0.55 Installed R value: E2/AS1 - 0.45	TL 45 Plus Application: As per TL45 but with improved installation performance  Frame Performance Window R value : Flangeless: 0.56 Installed R value: Recessed - 0.49
TL 55 Application: High-end homes with large glass features, it has a robust design to take the weight of triple glazed and wide span windows  Frame Performance Window R value : Flanged: 0.75 Installed R value: E2/AS1 - 0.58	TL 55 Plus Application: As per TL55 but with improved installation performance  Frame Performance Window R value : Flangeless: 0.76 Installed R value: Recessed - 0.64

R Value for a window 1500h x 1800w with central mullion and one opening light to standards ISO10077 and EN673

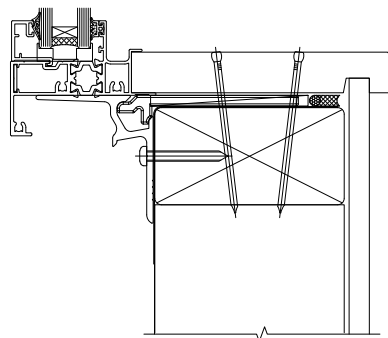


TL 40 Technical details

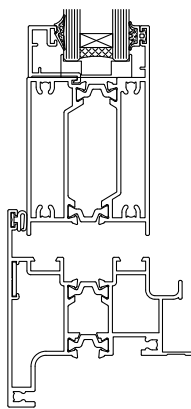
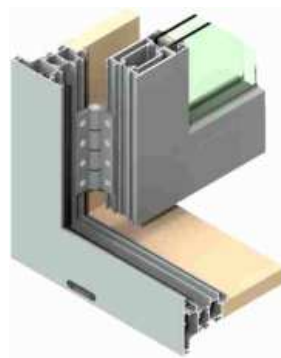
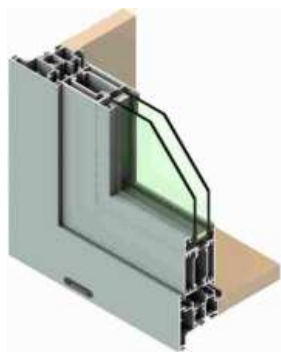
Features

- Square, flat aesthetic with a flanged frame, accommodating a range of sash options
- Basic thermal suite with Insert window frame for replacement windows
- Maximum glass thickness: 30mm

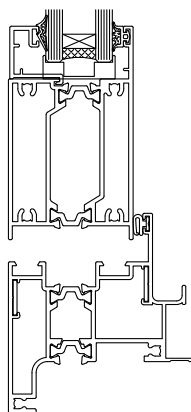
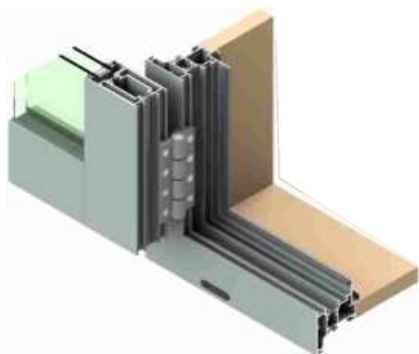
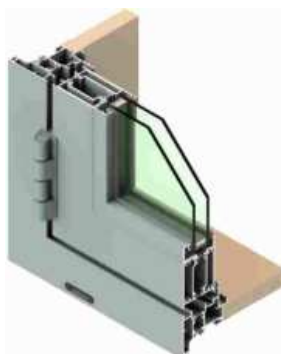
Awning windows



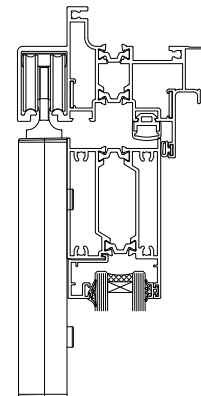
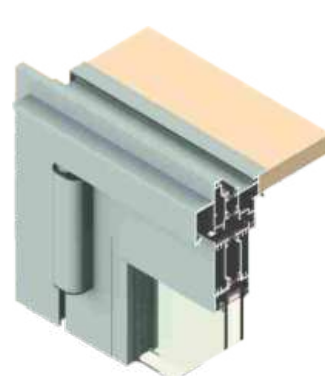
Hinged door Open In



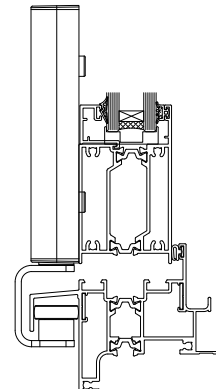
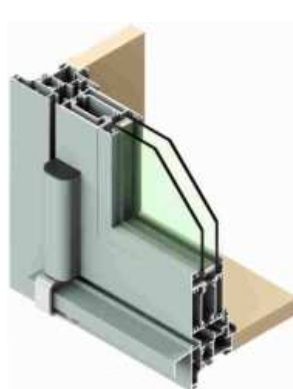
Hinged door Open Out



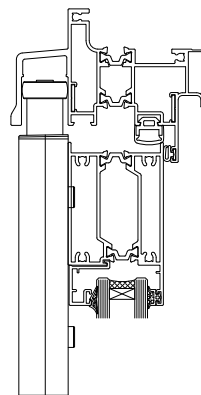
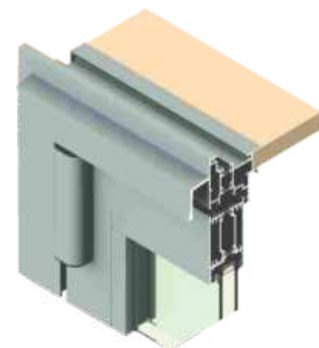
Folding Top hung head



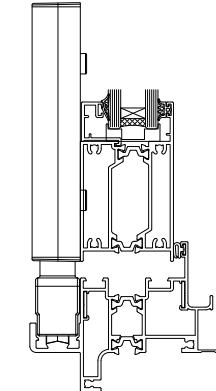
Folding Top hung sill



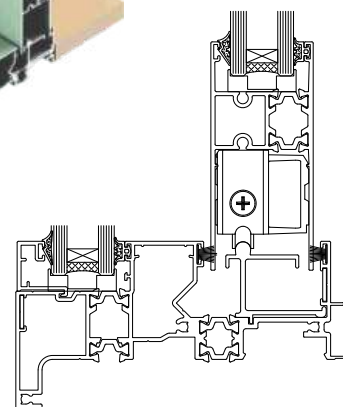
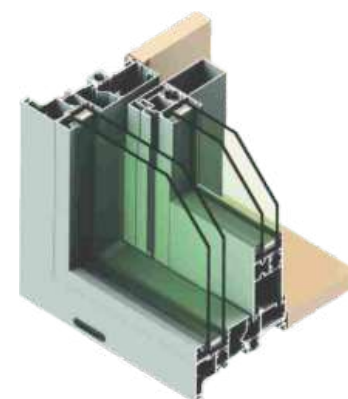
Folding Bottom rolling head



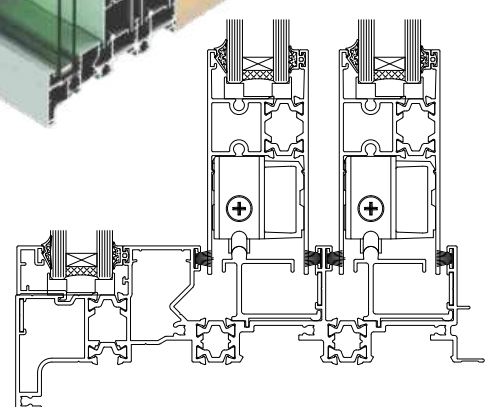
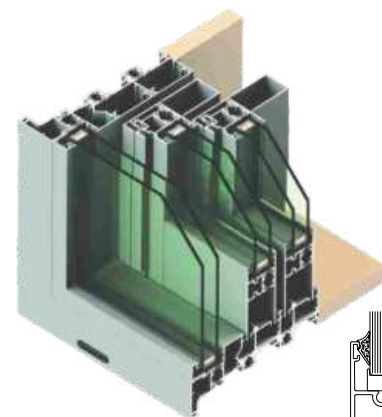
Folding Bottom rolling sill



Sliding door



Stacking door

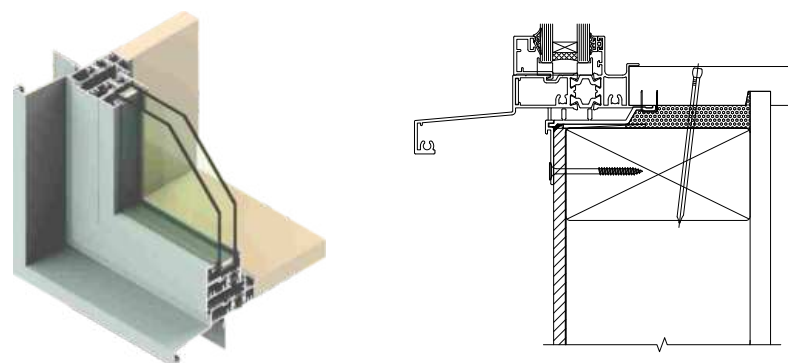


TL40 PLUS Technical details

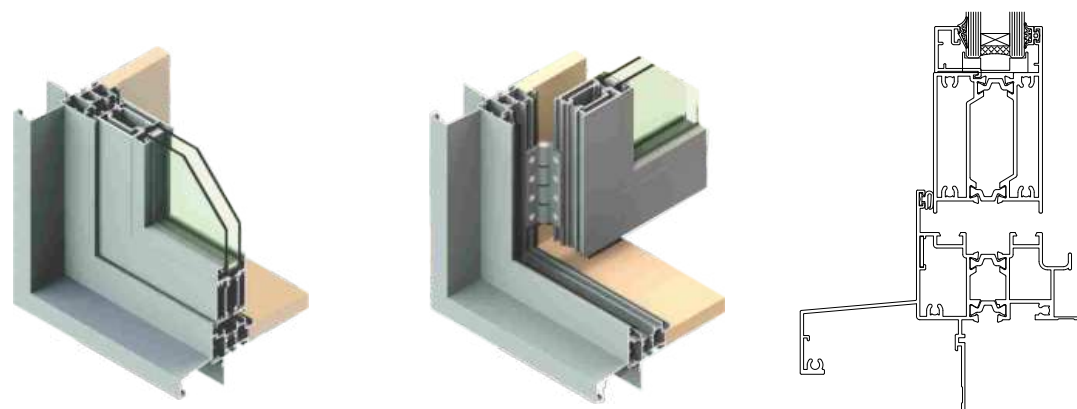
Features

- Square, flat aesthetic accommodating a range of sash options
- Designed for recessed installation method
- Maximum glass thickness: 30mm

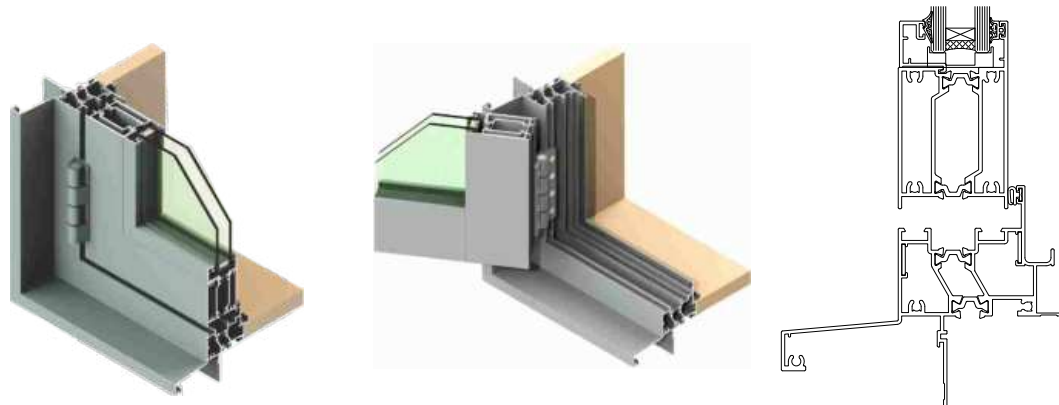
Awning windows



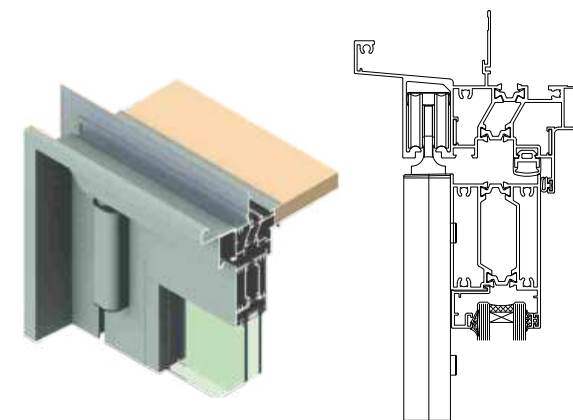
Hinged door Open In



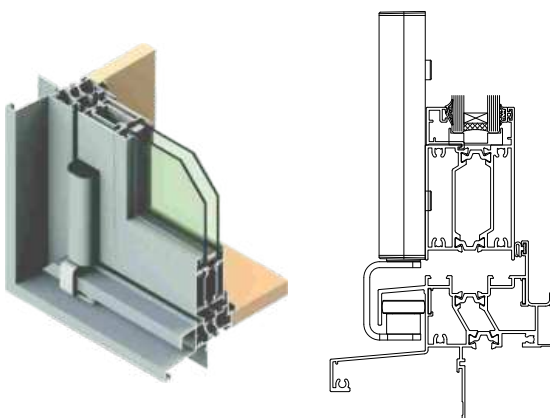
Hinged door Open Out



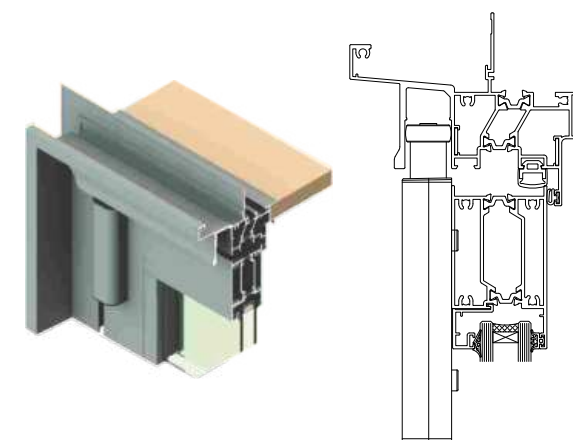
Folding Top hung head



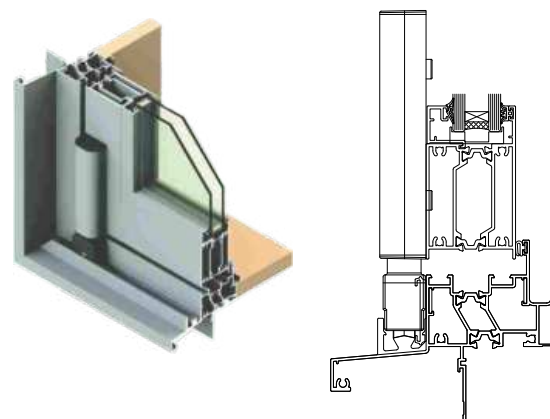
Folding Top hung sill



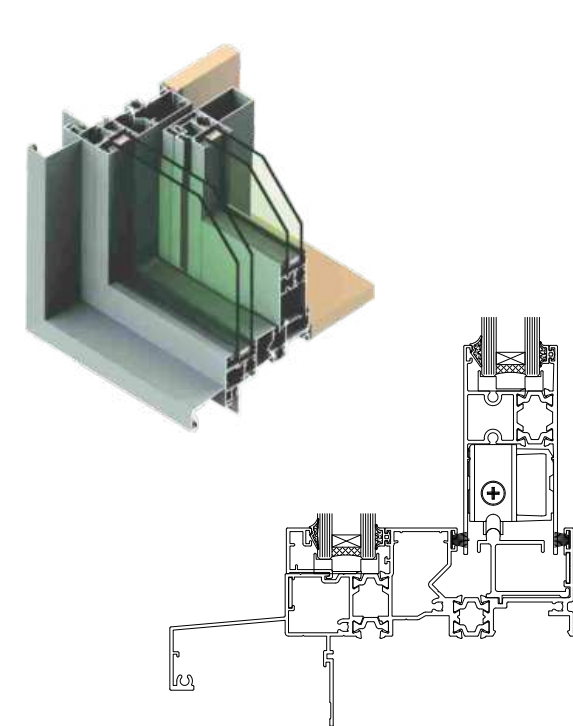
Folding Bottom rolling head



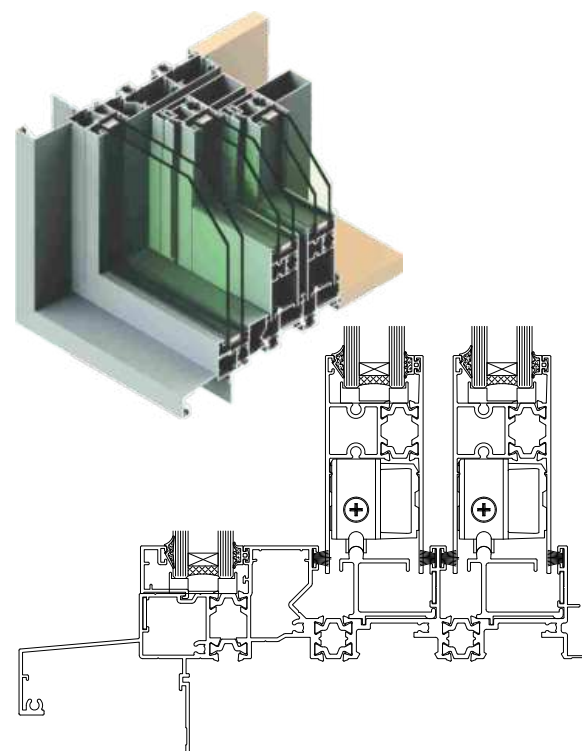
Folding Bottom rolling sill



Sliding door



Stacking door

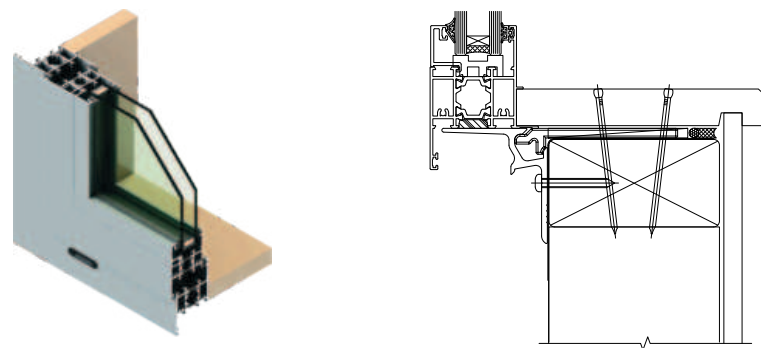


TL45 Technical details

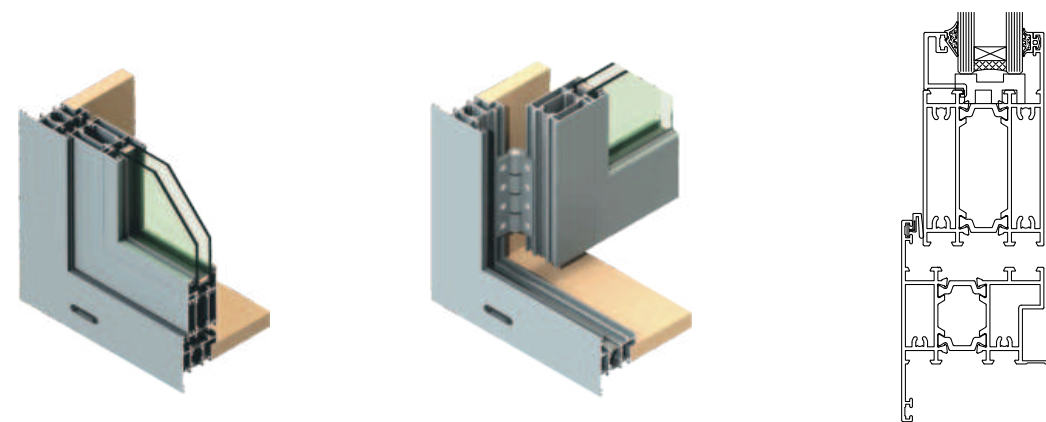
Features

- Square, flat aesthetic with a flanged frame, accommodating a range of sash options
- Allows for windows larger than TL40
- Maximum glass thickness: 31mm

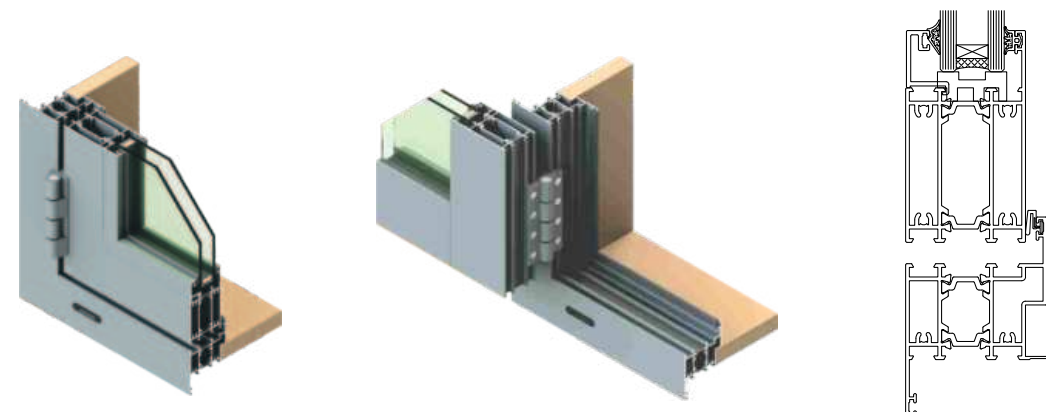
Awning windows



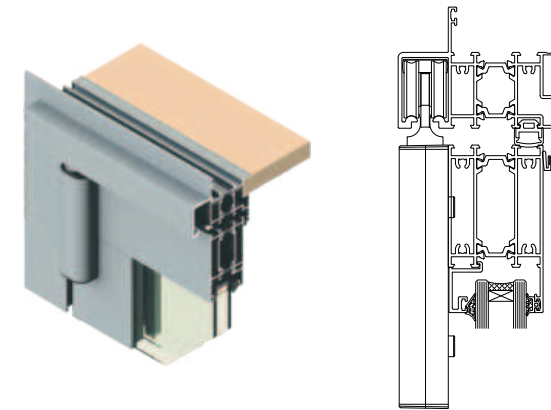
Hinged door Open In



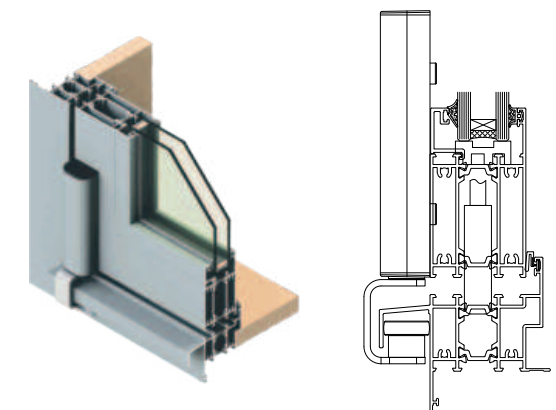
Hinged door Open Out



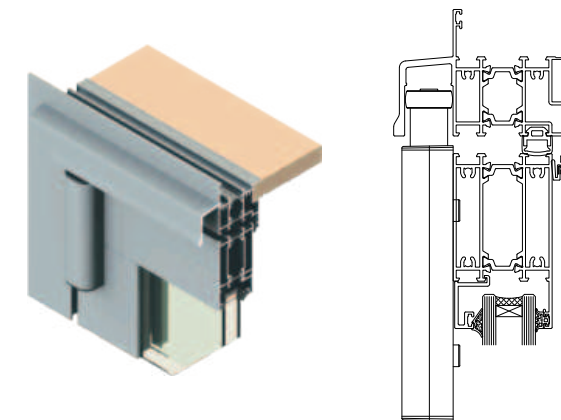
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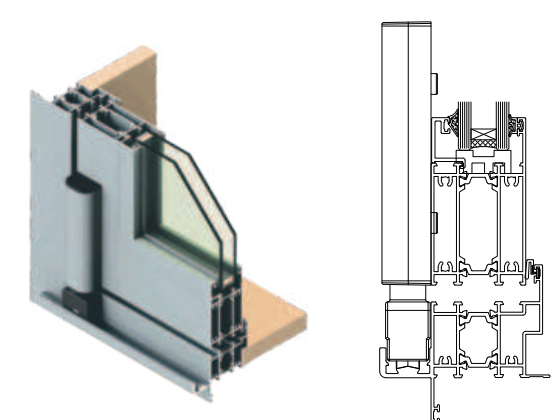
Folding Top hung sill



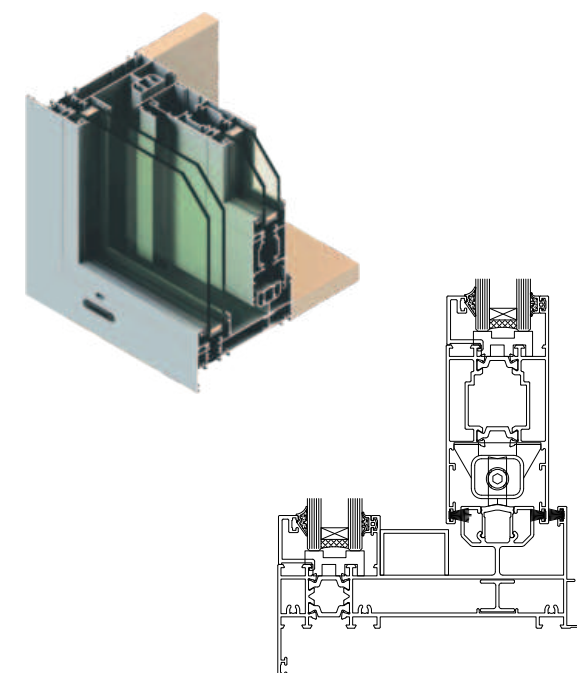
Folding Bottom rolling head



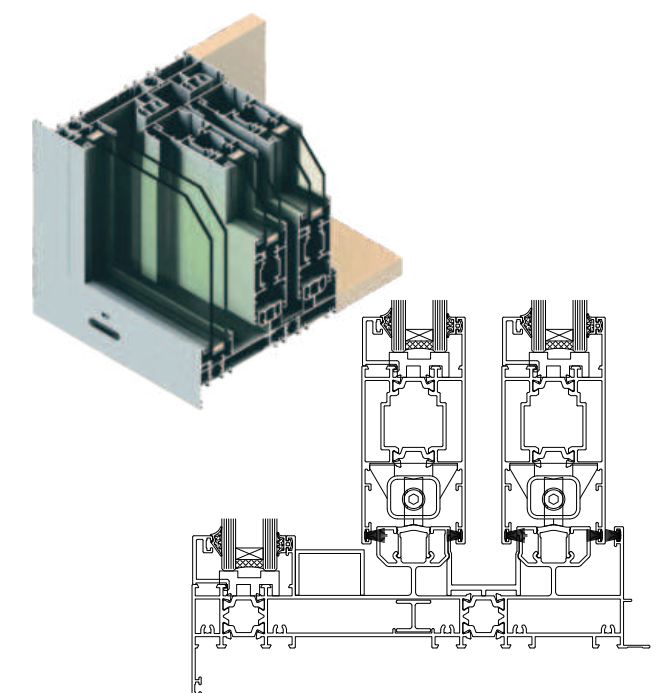
Folding Bottom rolling sill



Sliding door



Stacking door

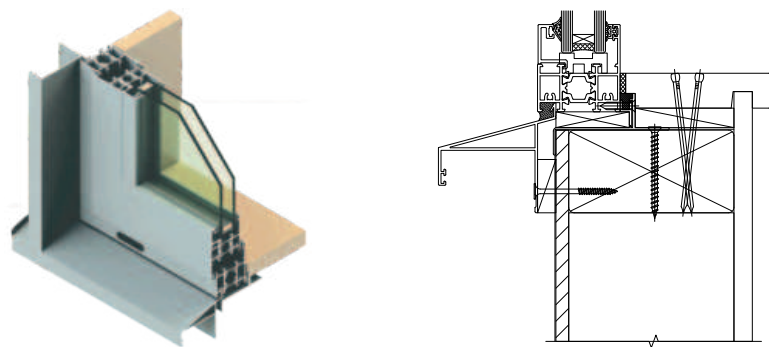


TL45 PLUS Technical details

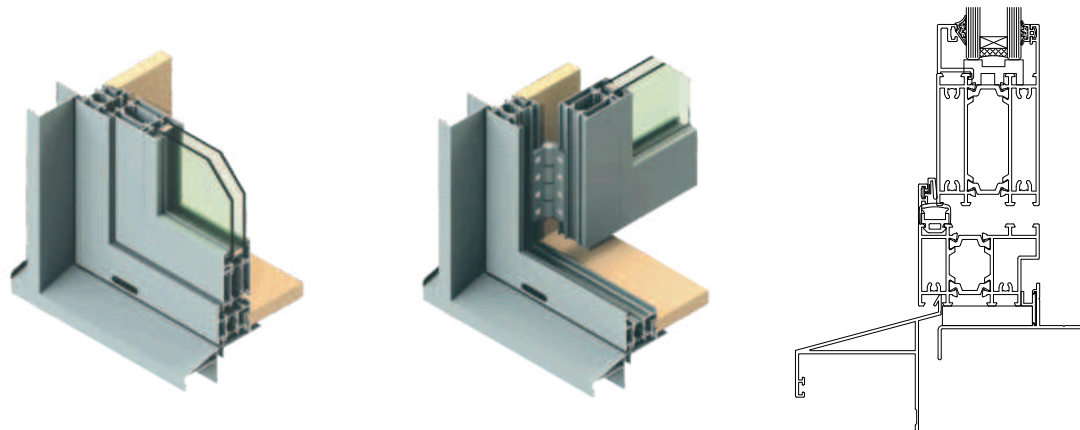
Features

- Square, flat aesthetic with a trim kit, accommodating a range of sash options
- Designed for 3 sided recessed installation method
- Allows for windows larger than TL40
- Maximum glass thickness: 31mm

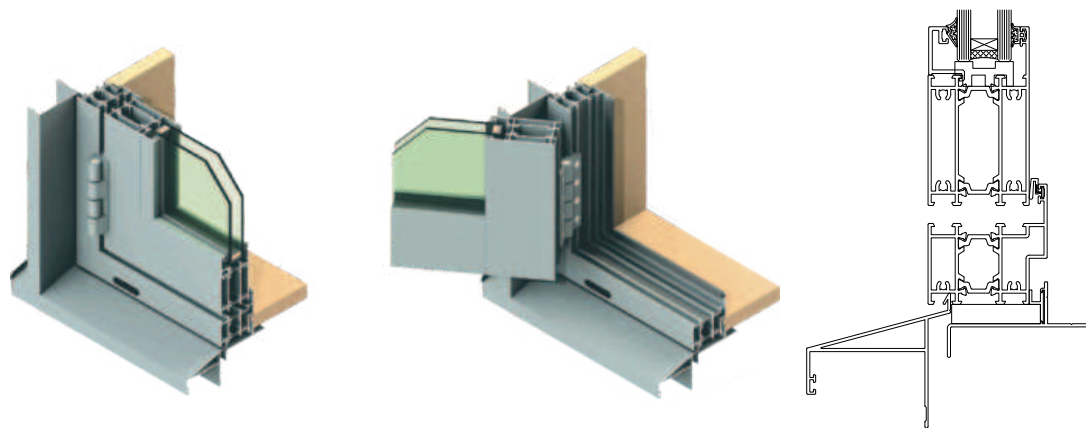
Awning windows



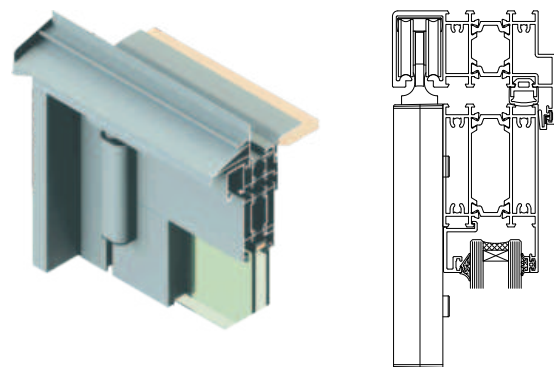
Hinged door Open In



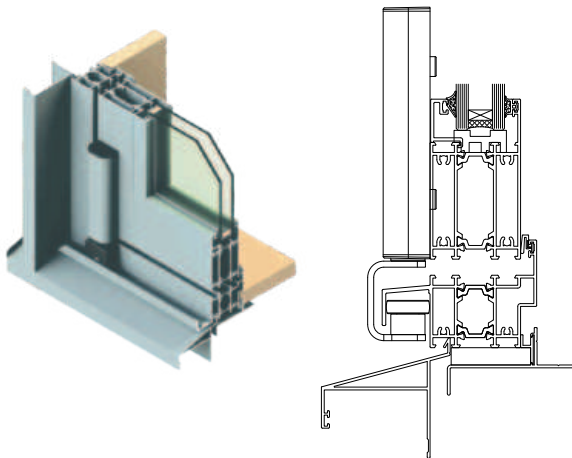
Hinged door Open Out



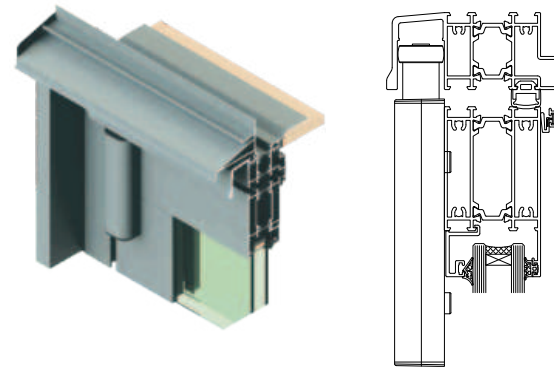
Folding Top hung head



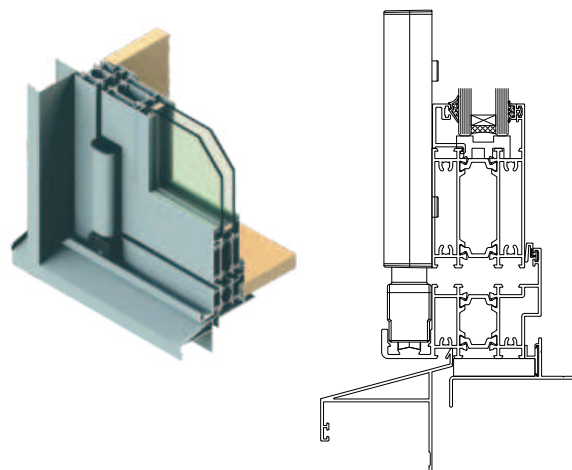
Folding Top hung sill



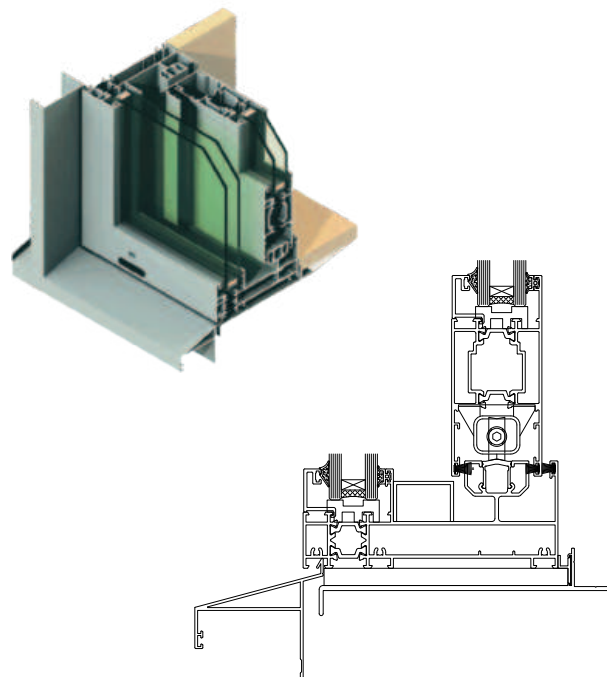
Folding Bottom rolling head



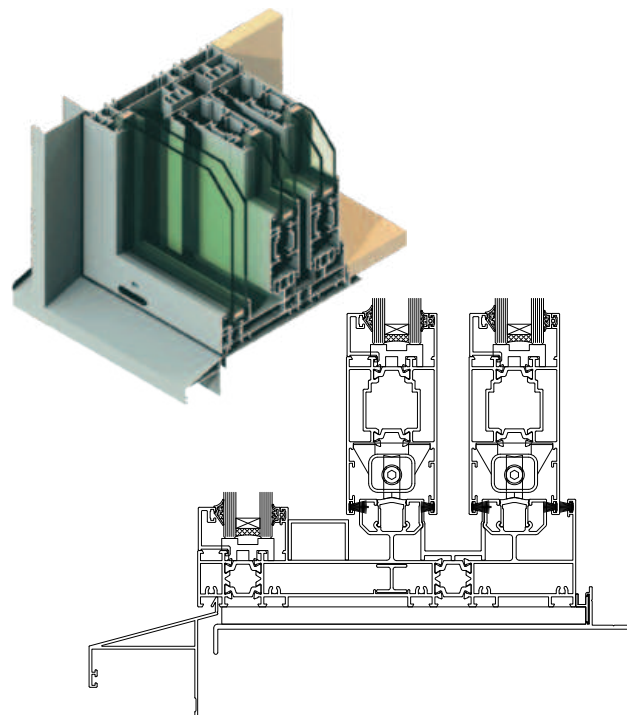
Folding Bottom rolling sill



Sliding door



Stacking door

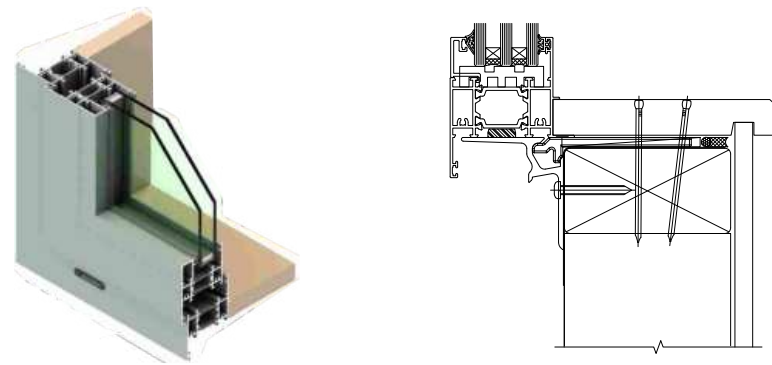


TL 55 Technical details

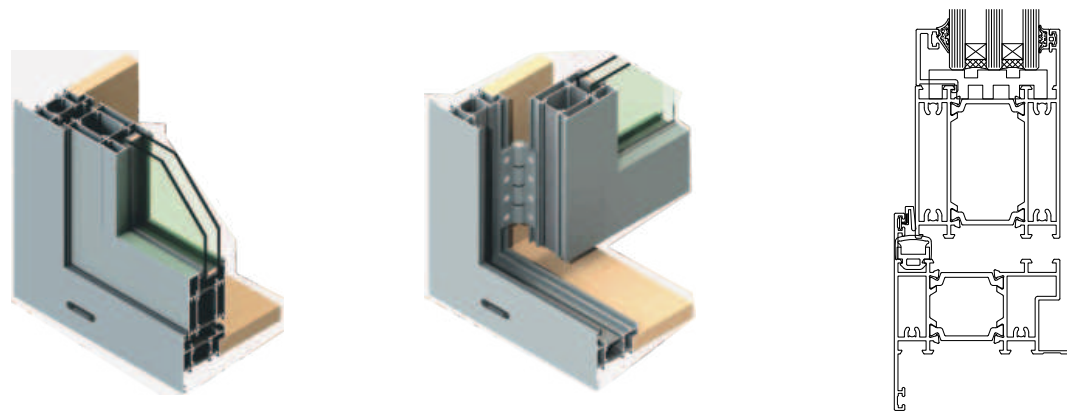
Features

- Square, flat aesthetic with a flanged frame, accommodating a range of sash options
- Allows for triple glazing
- Allows for windows larger than TL45
- Maximum glass thickness: 41mm

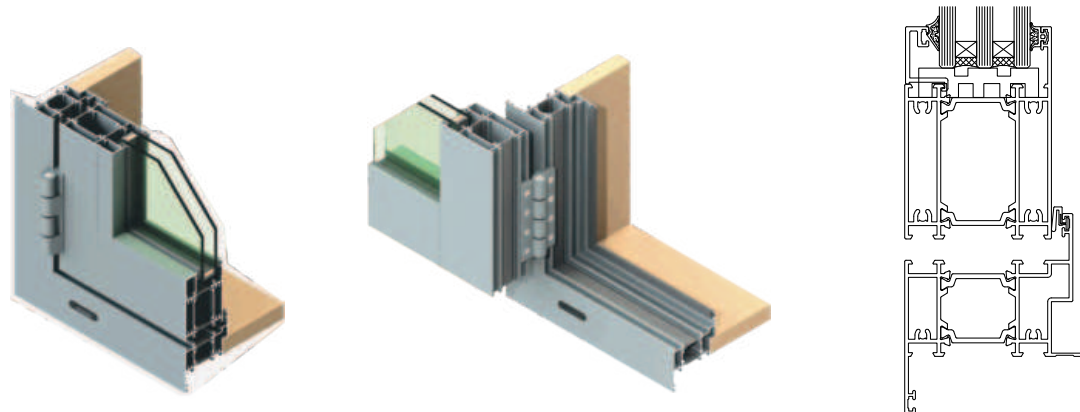
Awning windows



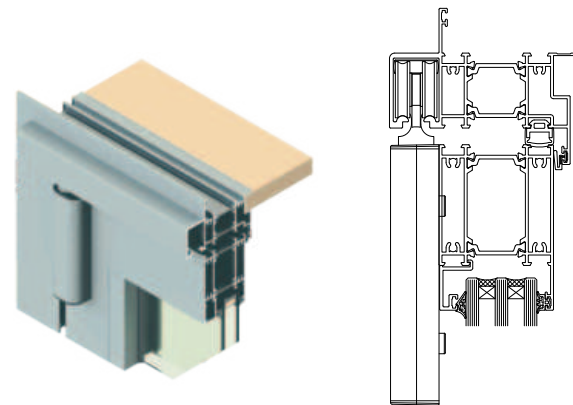
Hinged door Open In



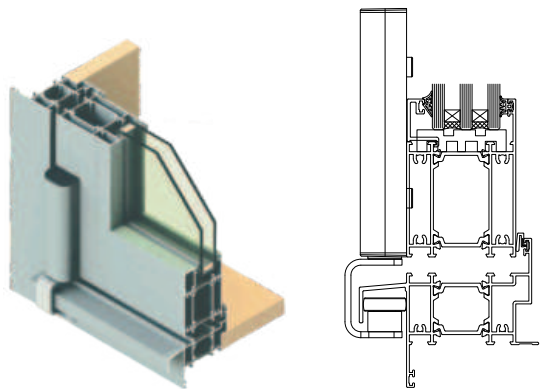
Hinged door Open out



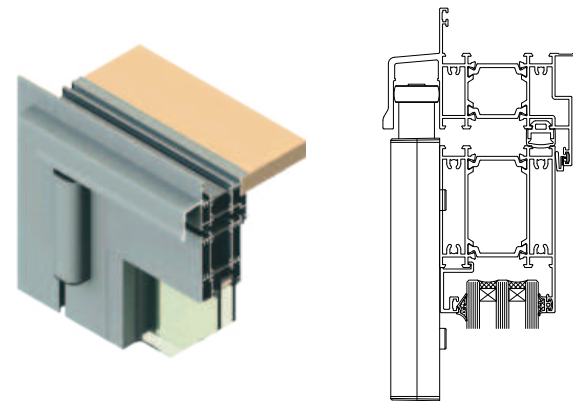
Folding Top hung head



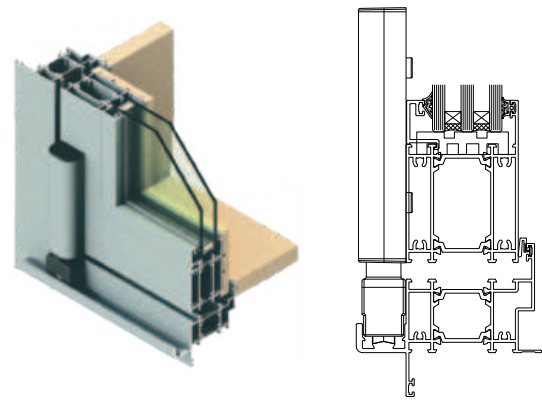
Folding Top hung sill



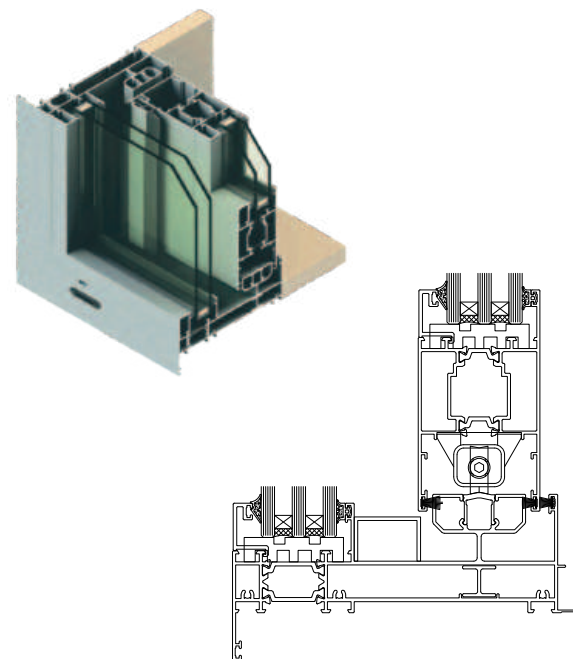
Folding Bottom rolling head



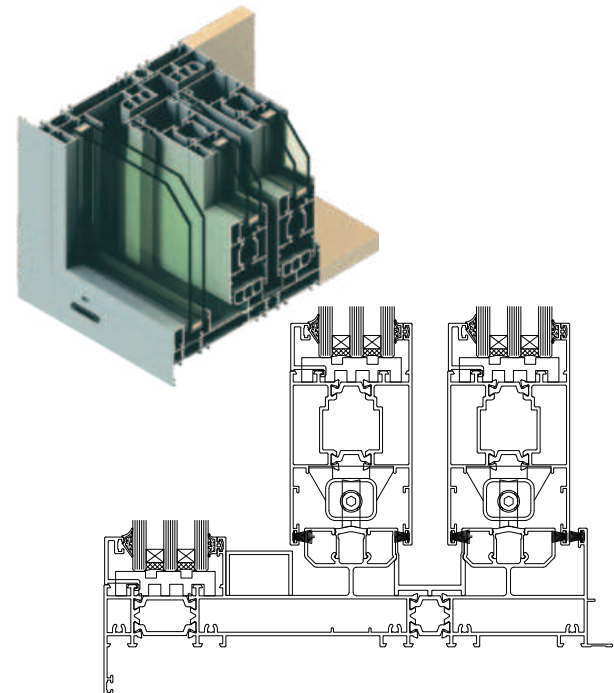
Folding Bottom rolling sill



Sliding door



Stacking door

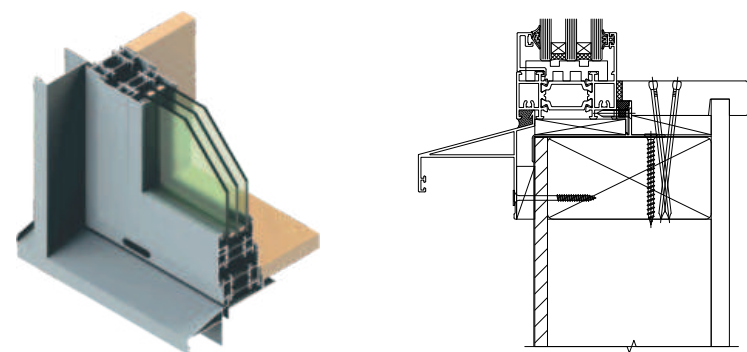


TL 55 PLUS Technical details

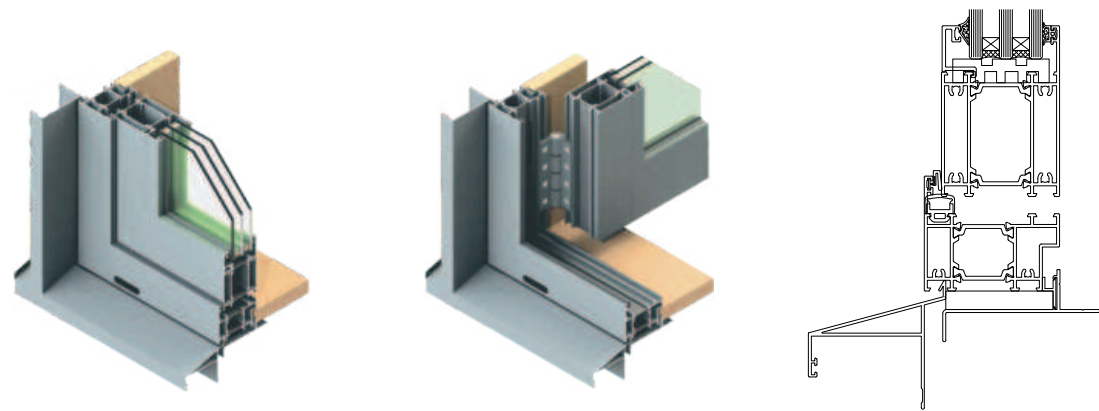
Features

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- Allows for triple glazing
- Designed for 3 sided recessed installation method
- Allows for windows larger than TL45
- Maximum glass thickness: 41mm

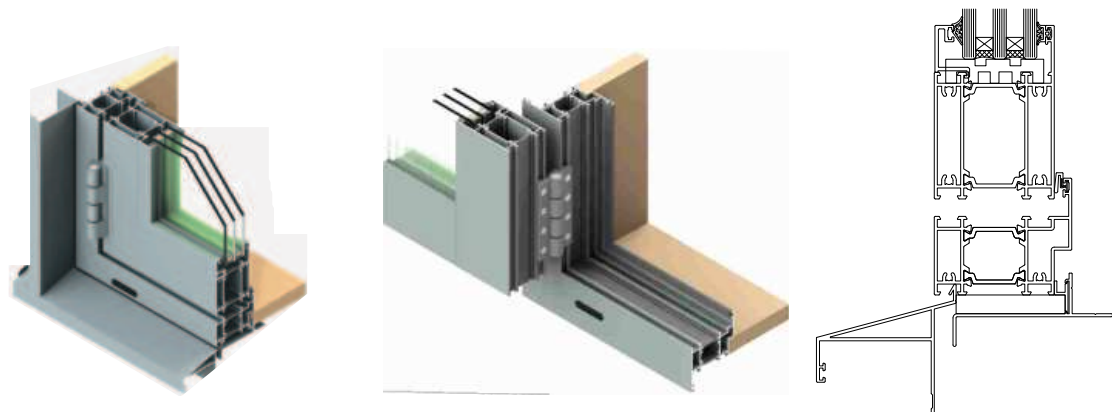
Awning windows



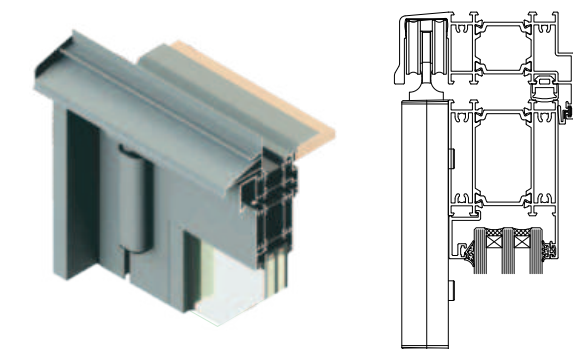
Hinged door Open In



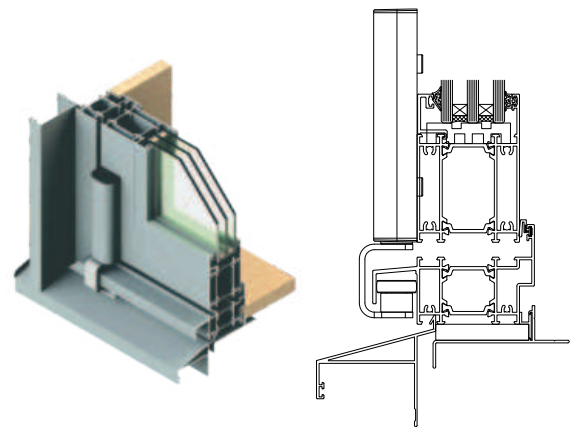
Hinged door Open out



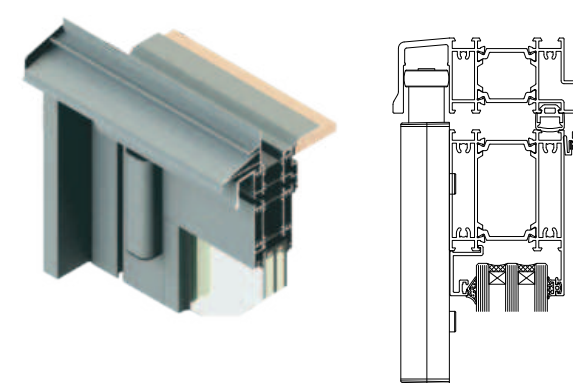
Folding Top hung head



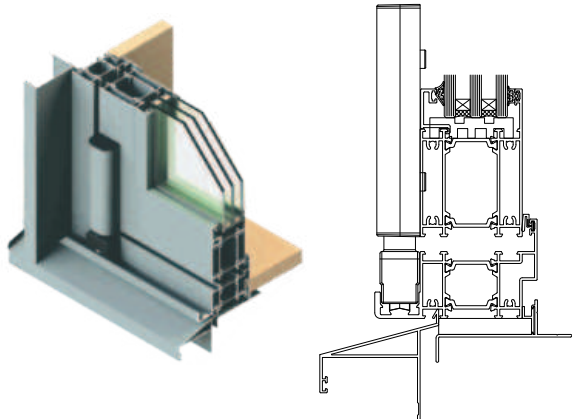
Folding Top hung sill



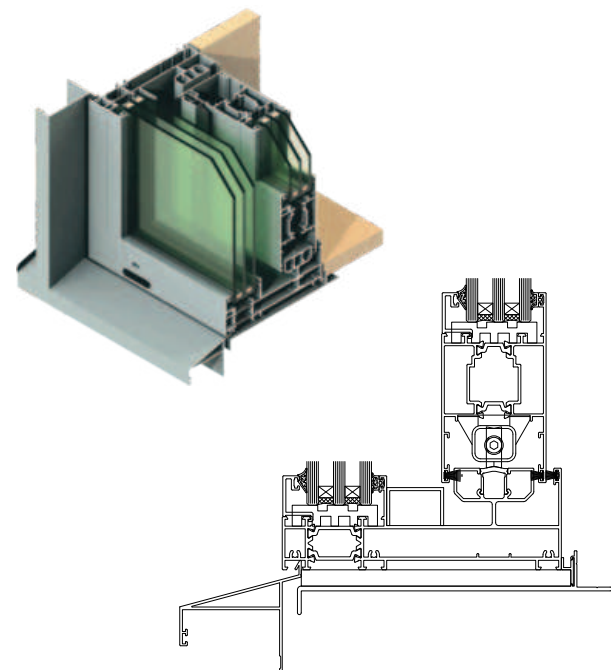
Folding Bottom rolling head



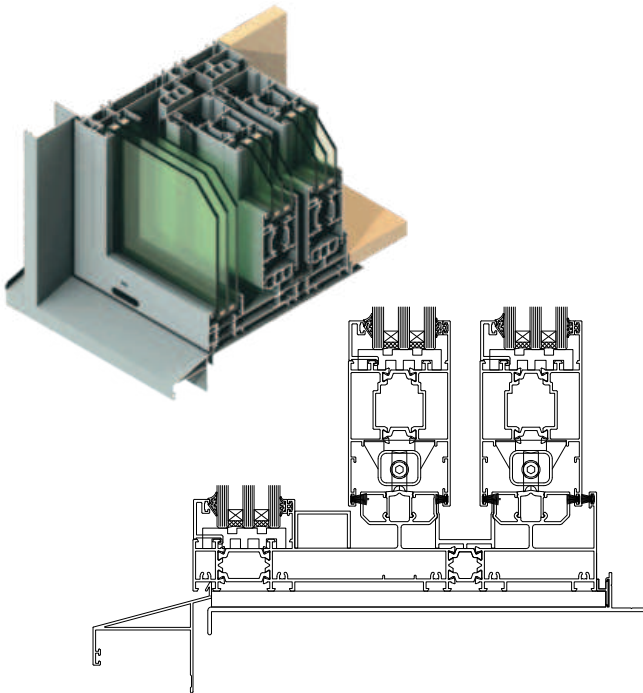
Folding Bottom rolling sill



Sliding door



Stacking door



COATINGS & COLOURS

An excellent range of finishing choices

Windows and doors add style and flexibility to any home while emphasizing a home's connection to the outdoors.

The colours you choose for the outside of your home may jar when seen from the inside, so choose a colour that works both inside and out. Different finish processes provide unique benefits- an important consideration when choosing your colours. Talk to your NEXT fabricator for more information.

Environmental Impact

The environmental impact of our products is important to our customers, and it's important to

us. That's why we take care to ensure our production processes are as sustainable as possible. Our powdercoatings don't contain Volatile Organic Compounds (VOCs), they are recyclable during the application, and they've been produced using a sustainable manufacturing process. Therefore they have a lower ecological footprint than most other coating alternatives, and our finishes are so durable that the need for replacement coatings is reduced.



CHOOSE YOUR FINISH

NEXT has a range of advanced finishes allowing for near endless possibilities in colour and appearance to suit any style or preference.

Powder Coating

Powder coating is one of the most durable colour coatings available. FMI's new advanced powder coating facilities are world class and are accredited to WANZ Enduro Colour Powder Coating Quality Standards.



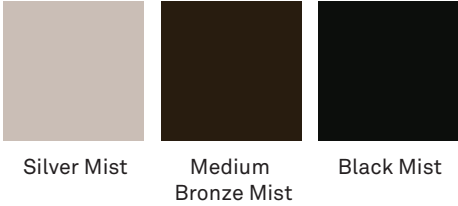
AEONOX™ is NEXT's standard range of colours adopting breakthrough, tough, scratch-resistant powder coat technology with added protection for aluminium surfaces. The super-fine texture finish and advanced formulation will protect your windows and doors during installation as well as from nature's harsh elements and the wear of everyday living.

AEONOX™ is a new generation TGIC Free, Polyester based formula and comes with a 15 year Interpon warranty. As with all of our powder coatings, AEONOX™ does not contain volatile organic compounds (VOCs), is recyclable during application, and is produced using a sustainable manufacturing process.



Anodised Finish

The NEXT anodising process - Mist Anodising, etches the aluminium first which results in a stylish, matt metallic finish that's durable and tough wearing.



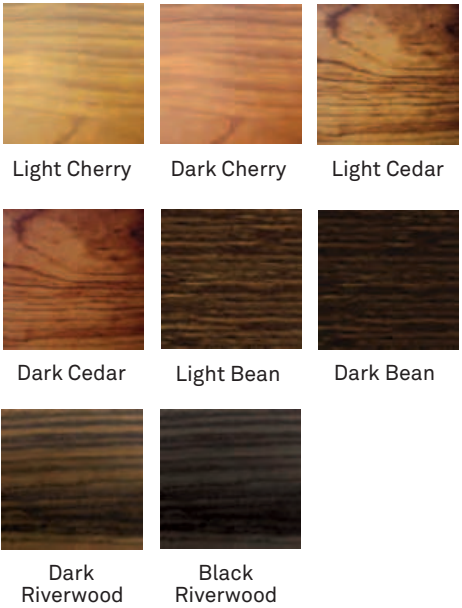
Please Note: Colours displayed are a guide only. Whilst every care has been taken to replicate colours these are not necessarily colour accurate. We recommend that you use production line colour swatches for final colour selection and approval. Sample chips are available from NEXT fabricators.

Sublimation Finish

NEXT's sublimation finish technology provides an additional decorative layer is fused into the powder coating.

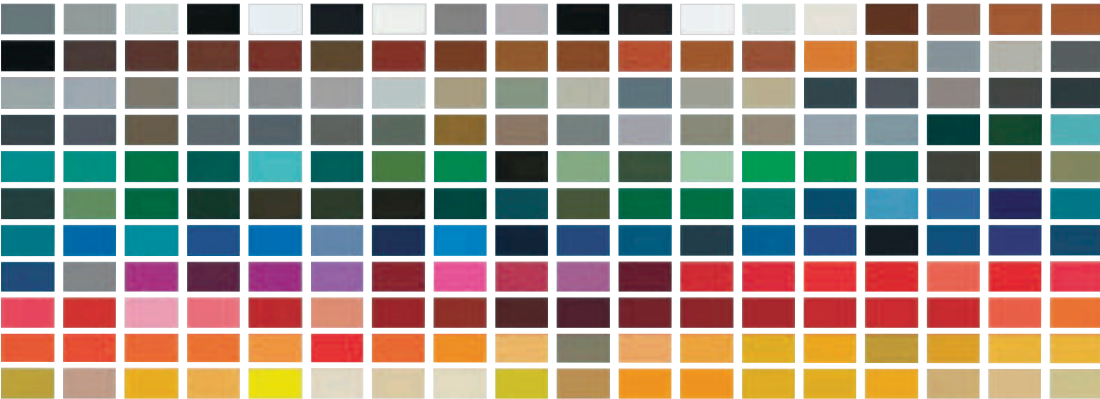
Sublimation is a wood-grain finish that creates the look and feel of timber with long-lasting paint-free durability. Unlike real wood, the sublimated wood finish is virtually maintenance free.

Sublimation wood-grain can be used on front doors for an eye-catching entrance to any home.



Special Colours

We have a virtually unlimited range of powdercoat colours which are available at various price points. You can refer to the colour cards and samples available from NEXT fabricators.



ACCESSORIES

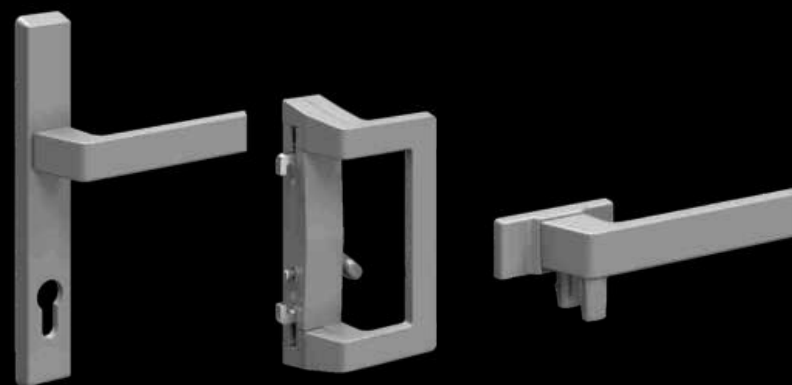
A Style for Every Home

Our handles and locks are available in a wide range of styles and finishes to suit all build and renovation designs.

We offer a variety of door pulls, handles and locks for both inside and outside in a wide range of styles from traditional to modern and finishes to suit all build and renovation designs. They combine functionality and aesthetics to

complement your beautiful NEXT windows and doors.

We also have a range of electronic keyless entry locks for our Platinum Doors.



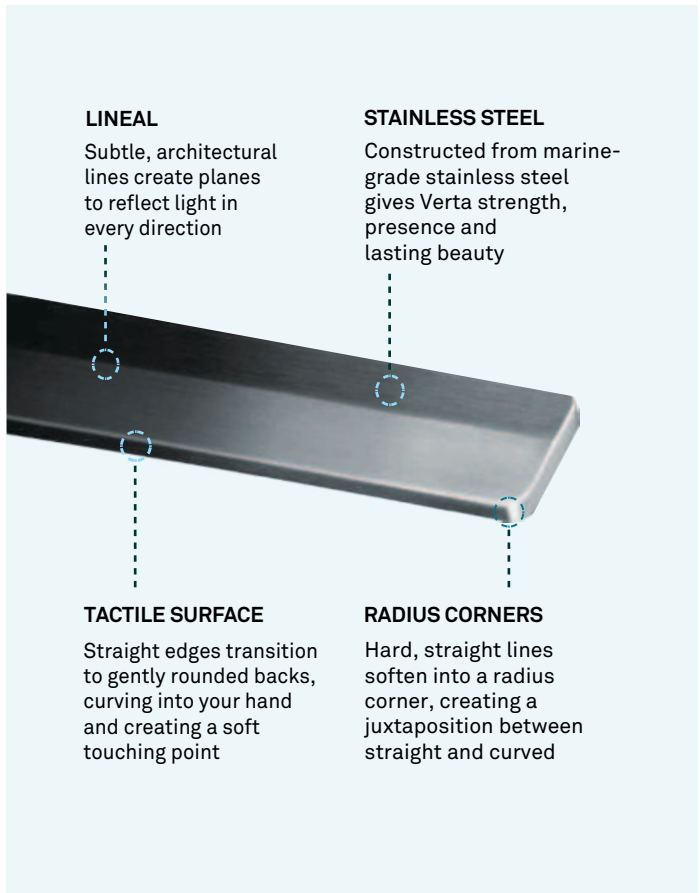
CHOOSE YOUR ACCESSORIES

HANDLES AND LOCKS

Our handles and locks are the perfect choice for any build or renovation. We offer a wide range of styles and finishes to suit all designs that are not just stylish but also highly functional. For the full range of hardware we carry refer to our website or request individual hardware brochures from your NEXT fabricator.

Verta

The stunning Verta range is a combination of classic and contemporary. Verta handles and locks are crafted from the highest grade solid stainless steel and set a new standard for innovative style for your home.

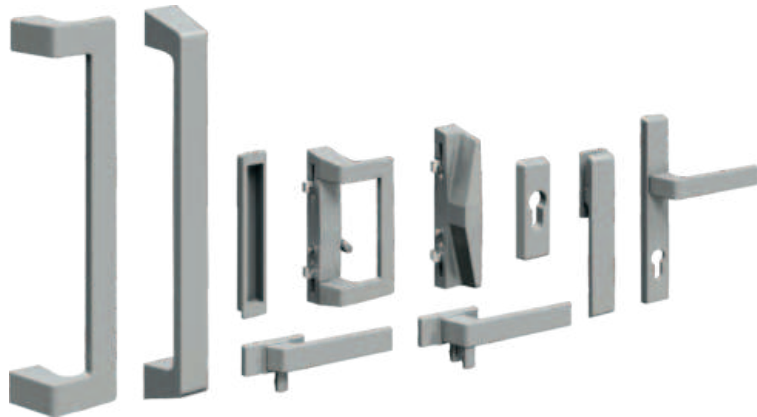


Kanso

Kanso, the Zen principle of simplicity, is an expression of simple and natural design.

The Kanso suite of aluminium door and window hardware embodies these principles with a look that is subtle and minimalist, yet cohesive and contemporary; a design that reflects harmony and style.

Every element of the Kanso suite has been carefully considered, engineered and tested locally, to ensure strength, style and suitability.



Stella

Sleek and sophisticated with minimal, ergonomic styling and maximum impact. Stella is a full suite of products to complement any modern interior and exterior. The Stella range can be colour matched to your windows and doors for a consistent look throughout your home.



PLATINUM
DOORS

PLATINUM ENTRANCE DOORS

Shaping First Impressions

Aluminium Doors

NEXT has an impressive range of premium-grade aluminium doors that are ideal for both traditional and modern homes. While aesthetics are important, entry doors must also be functional, durable against the elements and provide security. These additional aspects are vital because doors are a barrier between the living space and the outside world.

The unique, tested design of NEXT's doors makes them extremely waterproof. The high tech design and superior

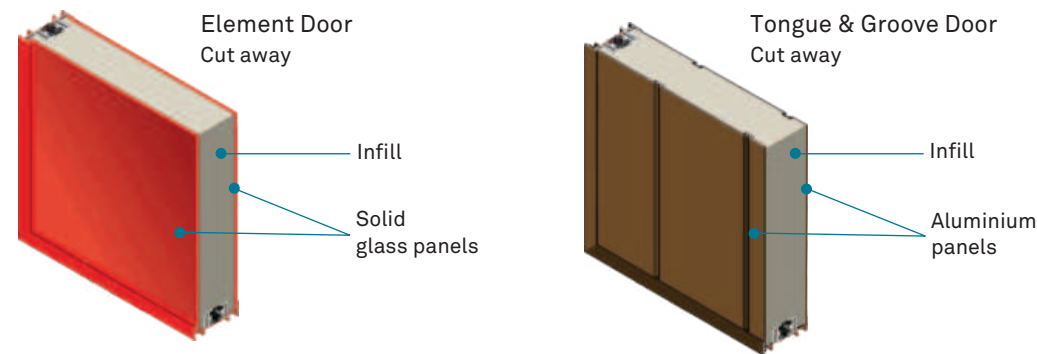
engineering employed in the structure of both the doors and the frames ensure a quality product that exceeds required New Zealand standards.

Most of NEXT's aluminium doors have a thermal option available (identified with a TH in the configurations section of each range). A thermal front door can contribute significantly to improving the energy efficiency of your home. Our thermal doors are joined with a polyamide strip separating the internal and external aluminium elements.



ENTRANCE PANELS

The platinum doors are available in 40mm standard and also in 50mm thickness for added performance



Element

The Element Door is constructed by bonding toughened glass sheets. It offers the latest contemporary style and can be crafted using a solid painted finish for a pop of colour, or with direct-on-glass digital imaging of your choice.



Classic

The Classic Door Range of recessed panel doors will never date and the simple elegant style will complement any house.



Tongue & Groove

The aluminium TGV range replicates the traditional style of a wooden tongue and groove door, resulting in a modern stylish door, without the inherent problems that come with wood.



Solid

The Solid Door offers a more contemporary take on the classic panel doors.



Sidelights

Sidelights create a spacious feel to a home entry and add more natural light to the interior. They match the entry door, come in a variety of sizes and can be on either or both sides of the door.



ENTRANCE HARDWARE

KEYLESS ENTRANCE HARDWARE

We have a range of stylish keyless entrance hardware for absolute convenience and security for safer living. For more in the range see the brochure downloads on the NEXT website or pick up some brochures from your local NEXT Fabricator.

Resolute



For keyless simplicity and peace of mind, the Schlage Resolute Smart mortice lock set (60mm backset) is easy to operate, features Bluetooth technology and advanced security options.

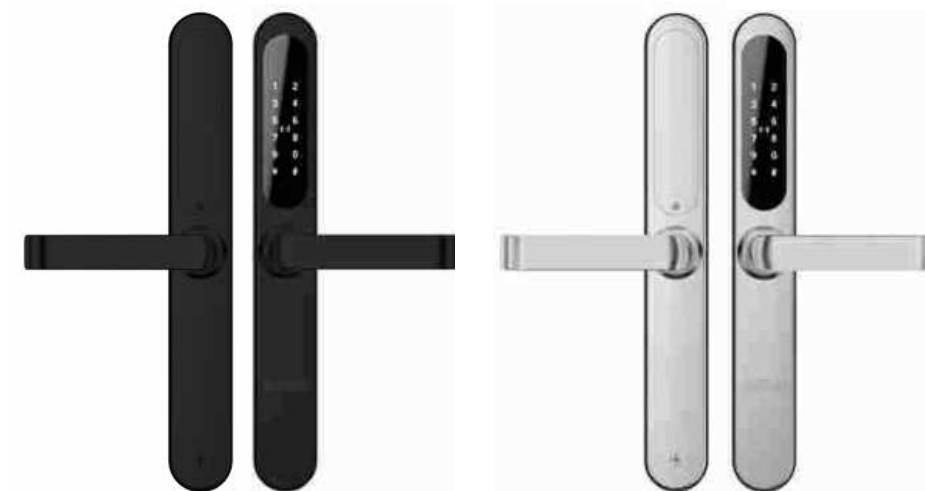
The Resolute's wide profile makes it perfect for retrofitting and modernising outdated hardware, for a seamless smart solution with mortice locking. The lock sets are available in black and silver.



Key Benefits

- Simple access including keypad, key tags, app or back-up key
- Easy to set up and program using the Schlage Breeze app, program access codes for temporary or recurring visitors
- Send virtual keys to guests, via text message from the Schlage Breeze app
- Use voice commands via Amazon Alexa or Google Assistant
- Firmware updates through the app ensure future compatibility
- Convenience of passage or auto locking modes for easy access
- Built-in alarm technology senses potential security breaches at the lock
- Audit trail allows you to see who has used the lock and when
- Random PIN number function protects your entry code
- With remote access via the Schlage Wi-Fi Bridge (optional accessory), send access codes to guests or be alerted if your lock has been tampered with

Artus Smart Lock



The Schlage Artus Smart Lock provides an effortless home security solution with no more lost keys and forgotten combinations. The sleek Schlage Artus Smart Lock, designed with versatility to suit various door profiles. This is the perfect blend of advanced technology with a modern design, offering you the ultimate security and convenience for your home.

The Schlage Artus seamlessly integrates with the Schlage Breeze app, to easily manage and monitor your lock. Retrofit from an existing mechanical solution for a seamless digital solution. Lock sets are available in black and silver.



FMI BUILDING INNOVATION

A Truly Kiwi Company

Innovation and engineering excellence is the FMI ethos and an obsession with detail and perfection is the default standard.

100% kiwi owned and operated, FMI has come a long way from a humble start in Timaru as Fairview Metal Industries (FMI) in 1968. Initially supplying steel windows from a small manufacturing plant, the FMI brand has evolved to an impressive network of approved fabricators located across the country.

As the FMI product range grows, FMI Fabricators are able to offer an extensive range of exceptional window, door and glass solutions.

Over the decades the company's manufacturing knowledge and capabilities grew, as well as the footprint of the wider business.

Customers have come to know FMI as industry innovators, always looking forward, pushing boundaries and pioneering improvements in products and solutions through sophisticated research and testing.

FMI has locations in both the North and South Island of New Zealand that total 46,000 square meters of building space, spanning across 9.2 hectares of land. The head office complex is in Mt. Wellington, Auckland has offices, warehousing, testing facilities, manufacturing and factories and there is an additional office and large glass plant in Christchurch.

fmi Building innovation.



FMI Head Office Auckland



Christchurch Glass Factory



Auckland Glass Factory



EUROWOOD ALUMINIUM CLADDING TECHNOLOGY

Eurowood is FMI's high performance, low maintenance aluminium weatherboard cladding system that creates a drier, more comfortable home year round.

Traditionally, timber battens are used to fix cladding to a wall. This results in multiple closed-off cavities, which inhibit airflow, creating uneven equalisation zones around the house. Our patented clip system addresses this problem, allowing for total air movement

FINISHES

Powdercoating

Eurowood is available in the Aeonox range of colours. AEONOX is FMI's breakthrough, tough, scratch-resistant powder coat technology that carries added protection for aluminium and cladding surfaces.

Sublimation

Our wood look sublimation provides the warm look and feel of timber, without the associated maintenance issues – no swelling, warping or rotting, and no need to paint.

PERFORMANCE ADVANTAGES

Weather Seals

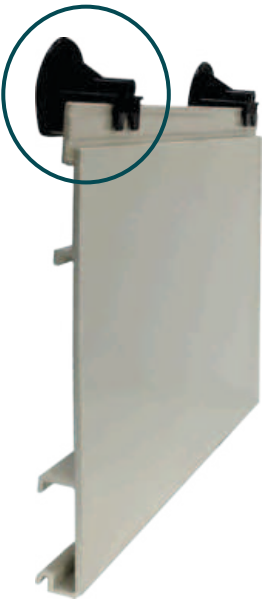
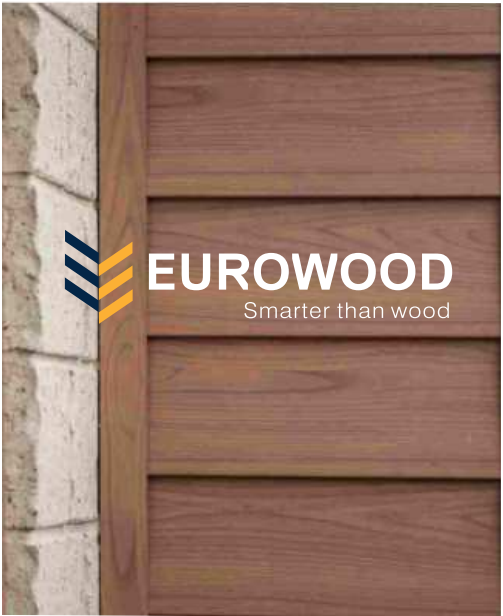
Eurowood cladding is designed to keep the weather outside and the walls protected with a superior cladding and weather seal system. The patented cavity clip system and the corner system ensure continuous airflow around the inside of the cavity which makes for a dryer home.

Environment

Eurowood sublimation and powdercoat finishes are environmentally friendly. Unlike wet paint applications, our finishes are solvent-free and applied electrostatically. When your home reaches the end of its life, our aluminium products can be completely recycled.

Low Maintenance

Eurowood aluminium cladding does not warp or swell and the amount of time spent on home maintenance can be significantly reduced. We recommend a regular inspection, especially for homes close to the coast. Periodic washing with water and even a small amount of well diluted, mild detergent for dirt, will prolong the life of the product. Washing in cool conditions is advisable to event heat streaks. (See full maintenance details on our website)



Unique Cavity Clip System

Cladding is attached to the frame with specially designed clips that allow a consistent 20mm cavity right around the house.

Proudly Kiwi owned and managed, FMI Building Innovation is a strong family of interconnected brands offering exceptional building solutions to architects, builders, trade customers, and an extensive fabricator network across the country.

NEXT Generation technology windows & doors

NEXT supplies joinery through an extensive network of independent fabricators who have a deep understanding of their local markets.

Our reputation is built on delivering innovative and high quality solutions to customers with specific design needs. With research & development, specification and technical teams in house, we can help develop window and door solutions for you no matter how challenging your design is. Whether you're experienced at building and renovating, or beginning your first dream home, a NEXT expert can help you to find the best windows and doors solution for you.

Talk to us, we're here to help.

