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Bradnam's

windows & doors nz



SovereignSeries™



The new **SovereignSeries™** from Bradnam's.

› Architecturally styled, high performance window and door systems.

The NEW SovereignSeries™ range provides superior performance characteristics ideal for Commercial and quality Residential applications.

The suite offers greater architectural flexibility surrounding detailing and sizes of windows and doors available. Specifically suited for Apartments, low rise Office Buildings, Educational, Health Facilities and Architectural homes.

› High Performance

SovereignSeries™ is designed for New Zealand conditions, features a 100mm frame platform, has excellent strength, very low air infiltration and very high water resistance, exceeding the requirements of NZS 4211:2008.

› Greater Design Flexibility

Unique to the SovereignSeries™ suite is a choice of flange sizes on all frames (0mm, 25mm, or 35mm). Adding or removing the flange facilitates a range of exterior finishing styles to be achieved, offering greater flexibility around joinery integration into the building.

The concealed fix solution, deep aluminium reveals and choice of box mullions create a very commercial looking product with a wide range of possible applications.

On windows the choice of standard or raised cover plates enable the designer to choose how the window integrates with the internal linings.

› Commercial Product Integration

The 100mm frame platform allows for integration with Bradnams Commercial products including Shopfront, Frontline flush glaze systems and Commercial doors.

› Improved Security

Protection against force entry on public and private buildings is easily achieved with SovereignSeries™ flush sash and options for multi point locking.

› Large Openings

Sliding and stacking doors all offer a 35mm glazing platform and are capable of heights of 2.4m in most areas. Large bi-fold and hinged doors are also possible where required.

The strong frame and sash profiles enable you to achieve larger openings, support heavier glass panels and create windows free of transoms for an unobstructed view.

› Great Thermal Performance

Selecting SovereignSeries™ high performance windows and doors for your Residential or Commercial project will help to improve energy efficiency and comfort. A consistent 35mm glazing platform accommodating 4-24mm glazing means optimal glass combinations can be attained across all the joinery configurations.



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SovereignSeries™

Awning, Casement & Fixed Windows



› Functions perfectly with a stylish

SovereignSeries™ Awning and Casement Windows combine stylish appearance with excellent performance.

Features include:

- › Optional flange facings 0mm, 25mm or 35mm
- › Flush sash with the option of multi-point locking
- › Choice of heavy or light box section mullions
- › Optional standard or raised cover plate
- › Concealed fixing

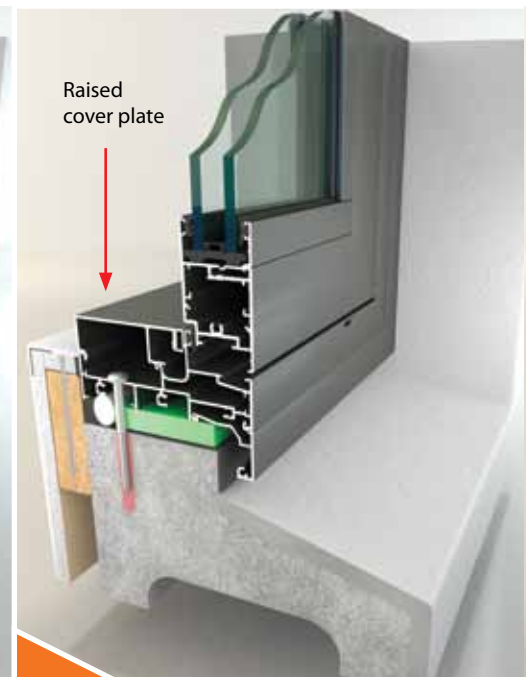


Window Frame showing
flange option



Standard
cover plate
option

Window Frame
with flange



Raised
cover plate

Awning Window with
flange (flush sash)



Windows, Awning Casement & Fixed	Requirement	Performance	Comments
Water & Air Pressure	375pa, 1760pa UWP	600pa, 2300pa UWP	Meets and exceeds max requirements of NZS 4211:2008
Fixed Windows, Height & Width		2300mm x 1500mm	Mullions at 1.3m centres using the 22mm box mullion 12752, or at 1.5m centres using the 34mm box mullion 12753*
Sash Max Sizes (H x W)		1200mm x 800mm	Wider sashes are possible when heights are lower
Max Sash Weight		43kg	Weight is limited by the stay capacity
Sash Types		Flush	Flush sash can accommodate multi-point locking
Glazing		4mm-24mm	Provides for a wide range of glass combinations
Flange Size		0mm, 25mm or 35mm	Optional flange sizes
Sill Finishing		Optional details	Choice of cover plate option and finishing determines final detail
Frame width		100mm	Includes 35mm glazing platform
Concealed Fixing		Yes	Through the frame, with a choice of 2 styles of cover plate

* Higher spans can be achieved using stiffening.



Awning Window with flange (flush sash open)



Awning Window & box mullion (flush sash)



SovereignSeries™

Inline™ Bifold Doors &



› Folding back effortlessly to be flush with exterior cladding

The unique mechanism opens the door to the 90 degree position, where a spring release activates allowing the panels to swing free to a 180 degree position.

- › Panel configurations (six panel bi-parting possible, 2x2, 3x3, 3x2, 3x1)
- › Concealed fix frame does not require reveal
- › Stainless steel operating gear
- › Double glazing up to 24mm
- › Full length weather protection seals
- › Flat Sill design

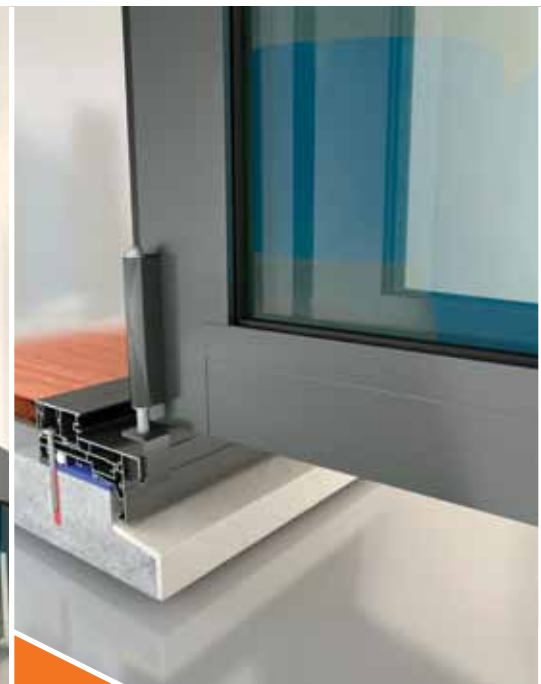
When space is at a premium, choosing the right door and window becomes important. The Bradnam's Inline™ Bifold creates unobstructed openings for your enjoyment.



Inline™ Bifold Door
head detail



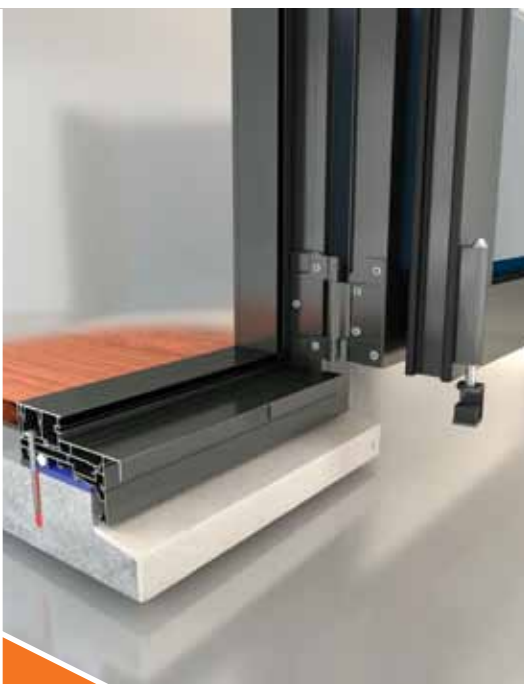
Inline™ Bifold Door
head detail (open)



Inline™ Bifold Door
sill detail



Inline™ Bifold Doors & Windows	Requirement	Performance	Comments
Water & Air Pressure	375a, 1760pa UWP	375pa, 1760pa UWP	Meets max requirements of NZS 4211:2008
Max Height		2200mm	Recommended
Max Width		850mm	Recommended
Max Panel Weight		60kg	Recommended
Inline Bi-fold panel Configuration		3 Panels	Provides for 6 panel bi-parting. Top rolling only
Standard Bi-fold		6 Panels	Top rolling only
Panel Thickness		41mm	
Glazing		4mm-24mm	Provides wide range of glass combinations
Flange Size		0mm, 25mm or 35mm	Optional flange sizes
Sills		Flush	
Frame Width		100mm	Includes 35mm glazing platform
Concealed Fixing		Yes	Through the frame



Inline™ Bifold Door
sill detail (open)



Inline™ Bifold Window
sill detail (open)



Inline™ Bifold Window/
Door head detail (open)

SovereignSeries™

Sliding & Stacker Doors &



Smooth, easy opening and closing

Bottom rolling on a structural grade (6261) anodised aluminium track makes for smooth, easy opening and closing.

A flush easy clean sill design and large panels form the basis of the new SovereignSeries™ Sliding and Stacker Doors / Windows from Bradnam's.

Features include:

- Optional flange facings 0mm, 25mm or 35mm
- 36mm Door panels can accommodate up to 24mm double glazing for improved insulation performance
- Wide lock stile options to accommodate a wide variety of pull handles, flush pulls with 35/40mm backset locks



Sliding Door
without flange



Sliding Door
with flange (flush deck)



Sliding Door
head detail



Sliding and Stacker Windows & Doors	Requirement	Performance	Comments
Sliding Door / Window Water & Air Pressure	375pa, 1760pa UWP	1000pa water, 2300pa air UWP	Meets and exceeds max requirements of NZS 4211:2008
Stacking Door / Window Water & Air Pressure	375pa, 1760pa UWP	600pa water, 2300 pa UWP	Meets and exceeds max requirements of NZS 4211:2008
Height/Width		2400mm @ 2000mm	Sliding and stacking panel size recommendations*
Sliding Panel Thickness		36mm	Glazing pocket allows up to 24mm IGU's
Glazing		4mm-24mm	Provides wide range of glass combinations
Flange Size		0mm, 25mm or 35mm	Optional flange sizes
Frame Width		100mm	Includes 35mm glazing platform
Concealed Fixing		Yes	Using proprietary fixing lug



Stacker Door/Window head detail



Sliding Window sill detail



Stacker Window sill detail

SovereignSeries™

Hinged Doors



Unobstructed openings for commercial

Features include:

- › Accomodate multi-point locks
- › Wide and narrow rail/stile options
- › Open In/Open Out configurations
- › Parliament hinge option for Brick Veneer claddings

Hinged Doors	Requirement	Performance	Comments
Water & Air Pressure	375pa, 1760pa UWP	1000pa* & 450pa** 2300pa UWP	Meets and exceeds max requirements of NZS 4211:2008
Height/Width		2200mm x 900mm	Recommended
Max Panel Weight		60kg	
Panel Thickness		41mm	
Glazing		4mm-24mm	Provides wide range of glass combinations
Flange Size		0mm, 25mm or 35mm	Optional flange sizes
Sills		Flush	
Frame Width		100mm	Includes 35mm glazing platform



Hinged Door head detail (closed)



Hinged Door sill detail with flange (open)



Glazing Performance Chart

Glass Type		% UV Elimination	U Value	R Value	Heat Loss Reduction %	Solar Heat Gain Coefficient	Perceived Sound Reduction %
4mm Clear Float		32%	5.88	0.17	0%	0.85	10%
Laminate							
7mm Soundstop Laminate	3/1/3	99%	5.7	0.18	3%	0.77	50%
6.38mm Laminate		99%	5.7	0.18	3%	0.79	35%
IGU's (Double Glazing)							
Standard IGU	4/12/4	48%	2.73	0.37	52%	0.74	20%
Clear - Laminate	6.4/12/4	99%	2.68	0.37	54%	0.71	55%
Argon Gas	4/12/4	48%	2.56	0.39	56%	0.74	20%
Low E ***	4/12/4	58%	1.9	0.53	68%	0.69	20%
Argon Gas & Low E ***	5/12/4	58%	1.62	0.62	72%	0.70	20%
Tinted IGU's (Double Glazing)							
Grey	5/12/4	79%	2.73	0.37	54%	0.50	22%
Bronze	5/12/5	77%	2.73	0.37	54%	0.56	22%
Green	5/12/6	72%	2.72	0.37	54%	0.53	22%
Artic Blue	6/12/6	81%	2.7	0.37	54%	0.41	22%

- U Value is the measure of air to air heat transmission due to thermal conductance of material and difference of indoor and outdoor temperature as a centre of glass value ($W/m^2\text{°C}$)
- R Value is the value of thermal resistance of a building element ($M^2\text{°C}/W$)
- Solar heat gain Coefficient. The measure of total solar energy transmittance entering a building through the glazing as heat gain
- Perceived Sound Reduction: the % by which the human ear detects a lessening of sound or noise. A 10db reduction is generally perceived as halving original noise. Base is 3mm clear float

*** Low E (emissivity) Glass. Thin film of metallic oxide coating that allows the passage of short wave energy into a building but prevents long-wave energy produced by heating systems and lighting from escaping outside.

