

### COMPANY NAME AND ADDRESS:

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**PRODUCT:** Outback®



### DESCRIPTION

The versatile Outback® Flat Roof system can be configured to cover any area around the home. It is ideal as a single unit or incorporated with a gable roof, louvre, or pergola system. Available as either a freestanding structure or attached to the home it can be used as a verandah, patio or carport. With the addition of the Outback Rooflite™ you can supply natural, filtered light to the underside. The beams can span up to 8.4 metres and are available in either 120mm or 150mm sizes.

The Stratco Outback® range is a complete customisable package, giving you the freedom to design your own style, shape, size and colour. All Outback® designs are supported by in-house engineering and local manufacturing offering design flexibility.

### PLACE OF MANUFACTURE

New Zealand, Australia and Cambodia

### DESIGN CONSIDERATIONS

- Stratco Outback® systems are available in flat and gable roof options that can be freestanding or attached to a building
- Stratco Outback® flat and gable roof options can be used in conjunction with each other for greater flexibility of design
- Stratco Ambient Blinds and Stratco Louvre roof systems can be used in conjunction with flat and gable roof systems
- Use with Stratco Outback® Rooflite™ to supply natural, filtered light to the underside. Stratco Outback Rooflite™ panels are manufactured from polycarbonate that are non-trafficable
- Other profiled polycarbonate roof sheets can be used with Stratco Outback® gable roof options for areas where large sections of natural light are required
- All Stratco Outback® systems are supported by in-house engineering that is reviewed and certified by independent structural engineers. Producer Statements for Stratco Outback® systems are available on request
- Stratco Outback® systems meet the structural requirements of NZS 3101:2006—Concrete Structures Standard, NZS 3404.1 & 2:1997—Steel Structures Standard, NZ Building Code NZS 3604:2011—Timber-Framed Buildings.
- Ensure compatibility when using Stratco Outback® with other metal products such as copper
- Ensure Stratco Outback® systems are suitable for the location it is to be used in to ensure it meets the minimum durability requirements of the NZ Building Code and satisfy customer expectations.
- Available as a complete package installed by an Authorised Stratco Dealer. Contact your [nearest Stratco](#) or Authorised Stratco Dealer.

### MATERIAL COMPOSITION & COATINGS

It is important to ensure Stratco Outback® systems are suitable for the location it is to be used in to ensure it meets the minimum durability requirements of the NZ Building Code and satisfy customer expectations. The boundaries of different corrosion zones in New Zealand are difficult to define because many factors determine the corrosivity of a particular location.

Contact Stratco or your nearest Authorised Stratco Dealer to confirm suitability for your location.

Stratco Outback® systems and components comply with the following standards:

- Beam and Column sections are cold-rolled from hi-tensile steel, conforming to AS1397.
- Hot rolled plate conforms to AS/NZS1594 and AS/NZS3678.
- Roof sheeting Zinc/alum coated steel complies with AS1397:2011. Paint coatings are manufactured in accordance with AS/NZS 2728:2013.
- Bolts comply with AS/NZS2451, AS1110.1 and AS1111.1.
- Self drilling screws comply with AS3566.1

### WARRANTY

Stratco Outback® systems and components have the following warranties:

Structural Warranty—25 years

Paint Finishes—8 years

Metal Roofing Durability—15 years

Installation—1 year when installed by an Authorised Stratco Dealer

### BUILDING CODE COMPLIANCE

The product will, if used in accordance with Stratco's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure:** B1.3.1, B1.3.2, B1.3.3 (b, c, f, g, h, j), B1.3.4  
 Span tables are in accordance with:
  - AS/NZS 1170:2002 Part 0 Structural Design Actions—General Principles
  - AS/NZS 1170:2002 Part 1 Structural Design Actions—Permanent, Imposed & Other Actions
  - AS/NZS 1170:2011 Part 2 Structural Design Actions—Wind Actions
  - NZS 3101:2006 Concrete Structures Standard
  - NZS 3404.1 & 2:1997 Steel Structures Standard
  - NZS 3604:2011 Timber-Framed Buildings

### MAXIMUM SPANS FOR NZS 3604 WIND ZONES

SLS Low wind zone = 0.68kPa, Medium wind zone = 0.93kPa, High wind zone = 1.32kPa, Very high wind zone = 1.72kPa, Extra high wind zone = 2.09kPa

ULS Low wind zone = 0.98kPa, Medium wind zone = 1.32kPa, High wind zone = 1.88kPa, Very high wind zone = 2.44kPa, Extra high wind zone = 2.96kPa

Note: Spans do not apply to snow loading applications

Flat Verandah Attached—Maximum Spans (mm)						
Wind Zone	Type 1A	Type 2A	Type 3A		Type 4A	
	120 or 150	120 or 150	120 Beam	150 Beam	120 Beam	150 Beam
Low	4500	4500	7200	8400	6000	8400
Medium	4500	4500	7200	8400	6000	8400
High	4500	4500	7200	8400	6000	8400
Very High	4500	4500	7200	8400	6000	8400

Flat Verandah Freestanding—Maximum Spans (mm)						
Wind Zone	Type 1F	Type 2F	Type 3F		Type 4F	
	120 or 150 Beam	120 or 150 Beam	120 Beam	150 Beam	120 Beam	150 Beam
Low	4500	4500	7200	8400	6000	8400
Medium	4500	4500	7200	8400	6000	8400
High	4500	4500	7200	8400	6000	8400
Very High	4500	4500	7200	8400	6000	8400

Multispan Gable Verandah — Maximum Opening (mm)								
Wind Zone	Attached to Wall or Fascia One Side Only	Attached One Side And To Wall Or Fascia One End Using 120 Or 150 Stratco Verandah Valley Beams			Attached To Flat Verandah Unit One Side And Wall Or Fascia On Opposite Side. Or Attached Both Sides And To Wall Or Fascia Using 120 Or 150 Valley Beams			
	120 or 150 Valley Beams	Type 1A Or 2A	Type 3A	Type 4A	Type 1A	Type 2A	Type 3A	Type 4A
Low	6600*	6600	6600	6600	6600	6600	6600	6600
Medium	6600*	6600	6600	6600	6600	6600	6600	6600
High	6300*	6300	6000	6000	6600	6600	6600	6600
Very High	5700*	5700	3000	4800	6600	6600	3000	6600

\* Minimum of four columns along the length of the gable unit on the opposite side of the attachment when solid infill is used

Clearspan Gable Verandah — Maximum Opening (mm)								
Wind Zone	Attached to Wall or Fascia One Side Only	Attached One Side And To Wall Or Fascia One End Using 120 Or 150 Stratco Verandah Valley Beams			Attached To Flat Verandah Unit One Side And Wall Or Fascia On Opposite Side. Or Attached Both Sides And To Wall Or Fascia Using 120 Or 150 Valley Beams			
	120 or 150	Type 1A	Type 3A	Type 4A	Type 1A	Type 2A	Type 3A	Type 4A
Low	6600*	6600	6600	6600	7500	7500	7500	7500
Medium	6600*	6600	6600	6600	7500	7500	7500	7500
High	6300*	6300	6300	6300	7500	7500	7500	7500
Very High	5700*	5700	3600	5100	7500	7500	7500	7500

\* Minimum of four columns along the length of the gable unit on the opposite side of the attachment when solid infill is used

- Clause B2 Durability: B2.3.1 (b)**  
*Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:  
 (b) 15 years if:
  - those *building elements* (including the *building* envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or
  - failure of those *building elements* to comply with the *building code* would go undetected during normal use of the *building*, but would be easily detected during normal maintenance.
- Clause C Fire: C3.5**  
 Stratco Outback® systems are manufactured from Zinc/alum based Pre-Painted sheet metal and Powder coated Galvanized steel products. Stratco Rooflites are manufactured from polycarbonate. These materials are rated as a Group 1-S material when tested in accordance with ISO 5660:2002 Part 1 & Part 2
- Clause E2 External Moisture: E2.3.1**  
 Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.
- Clause F2 Hazardous building materials: F2.3.1**  
 Stratco Outback® systems are manufactured from Zinc/alum based Pre-Painted sheet metal will meet the performance requirement of F2.3.1.
- Clause G12 Water Supplies: G12.3.2**  
 Stratco Outback® systems are manufactured from Zinc/alum based Pre-Painted sheet metal tested in accordance with AS/NZS 4020:2005 passed the requirements for products in contact with drinking water.

### INSTALLATION

Refer full installation guidelines by product type at the following links:

[www.stratco.co.nz/siteassets/pdfs/nz\\_verandah\\_flat\\_attached\\_install.pdf](http://www.stratco.co.nz/siteassets/pdfs/nz_verandah_flat_attached_install.pdf)

[www.stratco.co.nz/siteassets/pdfs/nz\\_verandah\\_flat\\_freestanding\\_install.pdf](http://www.stratco.co.nz/siteassets/pdfs/nz_verandah_flat_freestanding_install.pdf)

[www.stratco.co.nz/siteassets/pdfs/nz\\_verandah\\_gable\\_clearspan\\_attached\\_install.pdf](http://www.stratco.co.nz/siteassets/pdfs/nz_verandah_gable_clearspan_attached_install.pdf)

[www.stratco.co.nz/siteassets/pdfs/nz\\_verandah\\_gable\\_multispan\\_attached\\_install.pdf](http://www.stratco.co.nz/siteassets/pdfs/nz_verandah_gable_multispan_attached_install.pdf)

### MAINTENANCE

Regular maintenance is essential to maintain the good looks of your Stratco steel product. It will ensure you receive the maximum possible life-span for a steel product in your location, this is especially important for coloured pre-painted steel. To maintain the product's surface, wash it with clean water at least every six months. A more frequent wash is recommended in coastal or industrial areas. Maintenance must be frequent enough to prevent dust, salts, pollutants and any other material to accumulate on the product and reduce its life. Products that are regularly washed by rain require no additional maintenance. Avoid locating a Stratco steel product near polluted areas or in areas with aggressive environmental factors that could reduce the life of the steel. This includes areas near barbecues, diesel fumes, air-conditioners, clothes dryers, sprinklers, bore water, water softeners and industrial applications. Stratco steel products and materials are not recommended for use over, or near swimming pools and spas.

More regular maintenance is required on the areas of a product that are not naturally washed by rain. These areas include the underside of verandahs and carports, roofing visible through exposed eaves, and steel fascias and gutters. Other products such as garage doors and cladding under eaves may also require additional attention. A product's life-span may be reduced from not following a regular maintenance program because night time condensation in these areas can combine with salt and pollution on the surface, resulting in accelerated corrosion.

Wash areas that are not naturally cleaned by rain with fresh, clean water. It is recommended that you clean the surface as often as you would wash your car. In marine or industrial environments you should wash more often. Maintenance must be frequent enough to prevent dust, salts, pollutants and any other material to accumulate on the product and reduce its life.

If washing with clean water does not completely clean the surface, a mild solution of detergent should be added to the water and applied with a soft bristled nylon brush. Rinse the coloured surface thoroughly.

Never use abrasive or solvent based cleaners such as turps, petrol or kerosene.

Contact Stratco or your Authorised Stratco Dealer for more information on the correct maintenance for your application.

### SECTION 26 OF THE BUILDING ACT

Stratco Outback® systems are not subject to any warnings or bans under Section 26 of the Building Act.

### ENVIRONMENT

Stratco has Toitu Envirocare Bronze Certification. Stratco sites recycle all steel scrap and offcuts which can then be remelted for use in other steel products.

Steel is infinitely recyclable so at the end of its useful life as roofing or wall cladding the product can be recycled and remelted for other steel products.

### Appendix

As reference, this appendix contains the full descriptions of all building performance clauses listed in this document.

#### B1 Structure

##### B1.3.1

*Buildings, building elements and sitework* shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during *construction or alteration* and throughout their lives.

##### B1.3.2

*Buildings, building elements and sitework* shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during *construction or alteration* when the *building* is in use.

##### B1.3.3

Account shall be taken of all physical conditions likely to affect the stability of *buildings, building elements and sitework*, including:

- (b) imposed gravity loads arising from use
- (c) temperature
- (f) earthquake
- (g) snow
- (h) wind
- (j) Impact

##### B1.3.4

Due allowances shall be made for:

1. the consequences of failure,
2. the intended use of the *building*,
3. effects of uncertainties resulting from *construction* activities, or the sequence in which *construction* activities occur,
4. variation in the properties of materials and the characteristics of the site, and
5. accuracy limitations inherent in the methods used to predict the stability of *buildings*

#### B2 Durability

##### B2.3.1

*Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:

(b) 15 years if:

- i. those *building elements* (including the *building* envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or
- ii. failure of those *building elements* to comply with the *building code* would go undetected during normal use of the *building*, but would be easily detected during normal maintenance.

#### C3 Fire affecting areas beyond the fire source

##### C3.5

*Buildings* must be designed and constructed so that *fire* does not spread more than 3.5 m vertically from the *fire source* over the external cladding of multi-level *buildings*.

#### E2 External moisture

##### E2.3.1

Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.

### Appendix

#### F2 Hazardous building materials

##### F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the *construction of buildings*, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

#### G12 Water Supplies

##### G12.3.2

A potable *water supply system* must be—

1. protected from contamination; and
2. installed in a manner that avoids the likelihood of contamination within the system and the water main; and
3. installed using components that will not contaminate the water.

### Appendix