

# STÄRKE AMBIANCE Inline uPVC Windows & Doors

Product Technical Statement: 112953



STÄRKE AMBIANCE uPVC Inline window system is high performance uPVC, for resi, multi-resi and more

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## Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



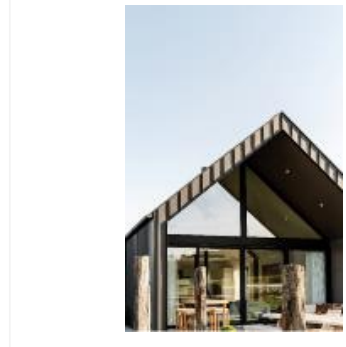
STÄRKE confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

1005

Oculus Architectural Engineering

[STARKE Ambiance Inline Window System - J-00025](#)



## Technical Statement

### Product Description

#### STÄRKE AMBIANCE Inline uPVC Window and Doors

The STÄRKE AMBIANCE uPVC Window and door suite has the perfect combination of volume, performance, and classy aesthetics. Stärke's manufacturing abilities make it perfect for volume housing, apartment and retirement village projects, and with its performance it is the best suite for compliance with new code regulations. It is also perfect for standard residential homes.

### FEATURES

- Recessed installation detail ensuring better thermal performance
- High thermal performance and air-tightness
- Can be used for Passive House
- Tested up to and beyond New Zealand and Australian standards
- Double or Triple Glazing Capability

### USED FOR

- Awning and fixed windows
- Open in and open out hinge doors
- French Doors
- Sliding and stacking Doors
- Entry doors
- Tilt & Turn Windows
- Lift & Slide Doors

### SPECIFICATIONS

- 70mm Construction depth
- 1.3 W/m<sup>2</sup>K Uf value
- 0.69 W/m<sup>2</sup>K Rw value\*
- Up to RC2 Safety
- Up to 45dB Sound isolation
- 41mm Glazing pocket.

### Scope of use

Stärke Ambiance Inline Window system Suite uPVC Windows and Doors must be installed in accordance according to Stärke specific installation detailing.

Product must be maintained in accordance with the Stärke Maintenance and Care Guide.

All products detailed below are suitable for use in the EXTRA HIGH wind zones (as defined in NZS3604), and are also suitable in SED wind zones, depending on project specifics.

- Stärke Ambiance Inline Window system Awning/fixed window up to 2100mm high x 3210mm wide
- Stärke Ambiance Inline Window system Hinged Door open out up to 2100mm high x 1150mm wide
- Stärke Ambiance Inline Window system Hinged Door open in up to 2100mm high x 1400mm wide
- Stärke Ambiance Inline Window system Hinged French Door open out up to 2100mm high x 2230mm wide The following attributes shall be determined specifically:
- Vision barriers must be specified when required for compliance with NZBC F2.3.2
- Safety glazing must be specified when required for compliance with NZBC F2.3.3
- Suitable restrictor stays must be specified when required for compliance with NZBC F4.3.1

## New Zealand Building Code (NZBC)

## masterspec partner

### Company Contact Details

Company:	Starke Group Limited
Physical Address:	4 Wilco Place Wiri Auckland
Postal Address:	PO Box 76814 Manukau Auckland
Telephone:	64 9 2798617
Email:	<a href="mailto:admin@starke.co.nz">admin@starke.co.nz</a>
Website:	<a href="http://www.starke.co.nz">www.starke.co.nz</a>

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

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3, B1.3.3(a), B1.3.3(b), B1.3.3(c), B1.3.3(d), B1.3.3(e), B1.3.3(f), B1.3.3(h), B1.3.3(j), B1.3.3(k), B1.3.3(l), B1.3.3(m), B1.3.3(n), B1.3.3(o), B1.3.3(p), B1.3.3(q), B1.3.3(r), B1.3.4, B1.3.4(a), B1.3.4(b), B1.3.4(c), B1.3.4(d), B1.3.4(e), B1.3.5, B1.3.6, B1.3.6(a), B1.3.6(b), B1.3.7, B1.3.7(a), B1.3.7(b), B1.3.7(c)
- **Clause B2 Durability:** Performance B2.3.1, B2.3.1(b), B2.3.1(c), B2.3.2, B2.3.2(b)
- **Clause D1 Access routes:** Performance D1.3.3(b)
- **Clause E2 External moisture:** Performance E2.3.5, E2.3.6, E2.3.7, E2.3.7(a), E2.3.7(b), E2.3.7(c)
- **Clause E3 Internal moisture:** Performance E3.3.1
- **Clause F2 Hazardous building materials:** Performance F2.3.2, F2.3.3, F2.3.3(a), F2.3.3(b), F2.3.3(c)
- **Clause F4 Safety from falling:** Performance F4.3.1, F4.3.4, F4.3.4(a), F4.3.4(b), F4.3.4(c), F4.3.4(d), F4.3.4(e), F4.3.4(g), F4.3.4(h)
- **Clause G4 Ventilation:** Performance G4.3.1
- **Clause G7 Natural light:** Performance G7.3.1, G7.3.2
- **Clause H1 Energy efficiency:** Performance H1.3.1, H1.3.1(a), H1.3.1(b), H1.3.2E, H1.3.3, H1.3.3(a), H1.3.3(b), H1.3.3(c), H1.3.3(d), H1.3.3(e), H1.3.3(f), H1.3.4, H1.3.4(a)

## Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal

[1005](#)

Oculus Architectural Engineering

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## Product Criteria

### Design requirements

STARKE Ambiance Inline (recessed) installation detail is to be used with the STARKE Ambiance high performance uPVC suite of windows and doors.

Is to be used to increase the thermal performance and reduce the thermal bridge of the installation.

Care needs to be taken that the installation details are followed exactly, and any variations to be signed off by STARKE.

Is suitable for up to Extra High Wind zones, for all units with horizontal heads and sills, and vertical jambs. Can further be used on units with raking heads if required.

### Installation requirements

Installation to be as follows:

Cut open building wrap and line sill and top corners with standard sill tape as per E2/AS1 process.

Install the sill flashing ensuring 5mm space off the building line, and 17mm up from the timber sill. Fix at 450 centres.

Install the window with the groove into the sill flashing, and tack into place

Install the head flashing into the window groove, and Fix at 450 centres, and tape above the head flashing back to the building wrap.

Fix the window off using the fixing tabs at 450 centres.

Install the jamb flashings, cutting exactly to length between the head and sill. Fix at 450 centers.

Install the air-seal tape on the inside of the window.

Install the flashing end caps.

### Maintenance requirements

uPVC is very low maintenance.

Wash every 6 months with warm soapy water, and ensure drain holes are clear.

## Company Product Information

### Relationships



Member of New Zealand Green Building Council



New Zealand Made

### Videos

[STARKE AMBIANCE Video](#)

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