

# PRODUCT TECHNICAL STATEMENT



Ambiance Inline Window Systems



# PRODUCT TECHNICAL STATEMENT

## KEY INFORMATION

### 1.0

#### Summary of Description of Building Product

Stärke Ambiance Inline Window system uPVC windows and doors are a standard New Zealand residential joinery range which can be double or triple glazed. They include:

- ▶ Fixed, Awning and Casement Open Out Windows
- ▶ Smartslide Sliding Doors
- ▶ Tilt & Turn Open-In Windows
- ▶ Liftslide Sliding Doors
- ▶ VarioSlide Sliding & Stacking Doors
- ▶ Inward and outward opening French Doors

*Continuation of intended use can be found in item 9. Supporting information about Intended use of Building Product or Method.*

*Matters that should be taken into account in the use or application of the building product can be found in 6. Conditions and Limitations of Use.*

### 2.0

#### Summary of Intended Use of Building Product

Stärke Ambiance Inline Window system uPVC windows and doors are for use as part of the building envelope in residential buildings. They contribute to natural daylight and ventilation and are suitable for use in building envelopes enclosing spaces where the temperature and/or humidity are modified.

*Continuation of intended use can be found in item 8. Supporting information about intended use of Building Product.*

### 3.0

#### Building Code Provisions

The clauses of the New Zealand Building Code that are relevant to the intended use and with which the building product complies or contributes to (where used as part of a system)

- ▶ **B1 Structure:** B1.3.1; B1.3.2; B1.3.3 (a, b, h); B1.3.4
- ▶ **F4 Safety from Falling:** F4.3.1
- ▶ **B2 Durability:** B2.3.1(b); B2.3.1(c) (For Hardware)
- ▶ **G4 Ventilation:** G4.3.1; G4.3.3 (contributes to)
- ▶ **E2 External Moisture:** E2.3.2; E2.3.7
- ▶ **G7 Natural light:** G7.3.1 (contributes to); G7.3.2 (contributes to)
- ▶ **E3 Internal Moisture:** E3.3.1 (contributes to)
- ▶ **H1 Energy Efficiency:** H1.3.1; H1.3.2E (contributes to)
- ▶ **F2 Hazardous Building Materials:** F2.3.1, F2.3.3

*If designed, used installed & maintained in accordance with the scope of this Technical Statement, the above-mentioned product will meet the above-mentioned provisions of the NZBC. How the building method or product complies or contributes can be found in item 12. Basis for Certification. Any qualification on the extent of that compliance can be found in item 6. Conditions and limitations of use.*

## 4.0

### Conditions and Limitations of Use

Stärke Ambiance Inline Window system Suite uPVC Windows and Doors must be installed in accordance with the WANZ guide to Window Installation, and NZBC E2/AS1 or as 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)

- ▶ 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
- ▶ VarioSlide Sliding & Stacking Doors up to 2400mm high x 7000mm wide
- ▶ Smartslide Sliding Doors up to 2.64m high x 8m wide
- ▶ Liftslide Sliding Doors up to 2.64m high x 8m 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

**NOTE:** Together, items 3,4,5 and 6 define the scope of use.

## 5.0

### Health and Safety Information

The compliance with any manufacturer's installation instructions, OH&S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

## 6.0

### Signatures

*Name and signature of the Product Technical Statement issuer's authorised representative*



**Ken Pridham**  
General Manager

For and on behalf of Stärke Group Limited

## 7.0

### Supporting Information About Description

The following models of windows and doors are covered by this certificate:

- ▶ 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
- ▶ VarioSlide Sliding & Stacking Doors up to 2400mm high x 7000mm wide
- ▶ Smartslide Sliding Doors up to 2.64m high x 8m wide
- ▶ Liftslide Sliding Doors up to 2.64m high x 8m wide

## 8.0

### Supporting Information About Intended Use

Stärke Ambiance Inline Window system Suite Windows and Door assemblies are for use in private houses, office blocks, and public and commercial buildings. Product must be installed as per NZBC E2/AS1, or Stärke specific installation details and maintained in accordance with the Stärke Maintenance and Care Guide.

## 9.0

### Supporting Information About Conditions and Limitations of Use

Stärke Ambiance Inline Window system Window and Door assemblies must be fabricated by Stärke Group Limited, 4 Wilco Place Wiri ([www.starke.co.nz](http://www.starke.co.nz)).

*All conditions and limitations of use are stated above in item 6. Conditions and Limitations of use.*

## 10.0

### Basis for Compliance

- ▶ **B1 Structure:** by testing and compliance with verification method B1/VM1 and referenced standard NZS4211: 2008
- ▶ **B2 Durability:** By analysis and comparison with Verification Method B2/VM1
- ▶ **E2 External Moisture:** By testing and comparison with Acceptable Solution E2/AS1 and referenced standard NZS4211: 2008
- ▶ **E3 Internal Moisture:** By analysis and comparison with Acceptable Solutions E3/AS1, G4/AS1 and H1/AS1
- ▶ **F2 Hazardous Building Materials:** By comparison with the provisions of Acceptable Solution F2/AS1
- ▶ **F4 Safety From Falling:** By comparison with the provisions of Acceptable Solution F4/AS1
- ▶ **G4 Ventilation:** By comparison with the provisions of Acceptable Solution G4/AS1
- ▶ **G7 Natural Light:** By comparison with the provisions of Acceptable Solution G7/AS1
- ▶ **H1 Energy Efficiency:** By comparison with the provisions of Acceptable Solution H1/AS1

## 11.0

### Supporting Documentation

- ▶ New Zealand Standard 4211: 2008 Specification and performance of Windows
- ▶ Australian Standard 2047: 2014 Windows and External Glazed Doors
- ▶ WGANZ Guide to window installation Version 1.5 1 August 2019
- ▶ Acceptable Solutions and Verification Methods for New Zealand Building Code:
  - ▶ Clause B1 Structure 1<sup>st</sup> Edition (Amendment 19) 28 November 2019 (B1/VM1)
  - ▶ Clause B2 Durability 2<sup>nd</sup> Edition (Amendment 12) 28 November 2019 (B2/VM1)
  - ▶ Clause E2 External Moisture 3<sup>rd</sup> Edition (Amendment 10) 5 November 2020 (E2/AS1)
  - ▶ Clause E3 Internal Moisture 2<sup>nd</sup> Edition (Amendment 6) 1 Jan 2017 (E3/AS1)
  - ▶ Clause F2 Hazardous Building Materials 1<sup>st</sup> Edition (amendment 3) 1 Jan 2017 (F2/AS1)
  - ▶ Clause F4 Safety from Falling 3<sup>rd</sup> Edition (amendment 2) 1 Jan 2017 (F4/AS1)
  - ▶ Clause G4 Ventilation 4<sup>th</sup> Edition 27 June 2019 (G4/AS1)
  - ▶ Clause G7 Natural Light 1<sup>st</sup> Edition (Amendment 2) 14 February 2014 (G7/AS1)
  - ▶ Clause H1 Energy Efficiency 4<sup>th</sup> Edition (Amendment 4) 28 November 2019
- ▶ Highbrook Windows testing Laboratory REPORT NO. AS-228A Open In Hinge Door to NZ4211 (available from Stärke)
- ▶ Highbrook Windows testing Laboratory REPORT NO. AS-227A Open Out Hinge Door to NZ4211 (available from Stärke)
- ▶ Highbrook Windows testing Laboratory REPORT NO. AS-229A Open Out French Door to NZ4211 (available from Stärke)
- ▶ Highbrook Windows testing Laboratory REPORT NO. AS-230A Awning and Fixed Window to NZ4211 (available from Stärke)
- ▶ Stärke Maintenance and Care Guide Jan 2019

## 12.0

### Conditions Relating to Specification

This Product Technical Specification can only be reproduced in full and is a controlled document. Current as:

- ▶ Version 1.1, 18 January 2022

Latest versions of Product Technical Specifications can be obtained by contacting Stärke Group Ltd directly as per contact details.

## 13.0

### Warranty

Stärke Ambiance Inline Window system Suite Windows & doors have a 5-year manufacturer's warranty. For more details, please contact Stärke for a copy of our Terms and Conditions.