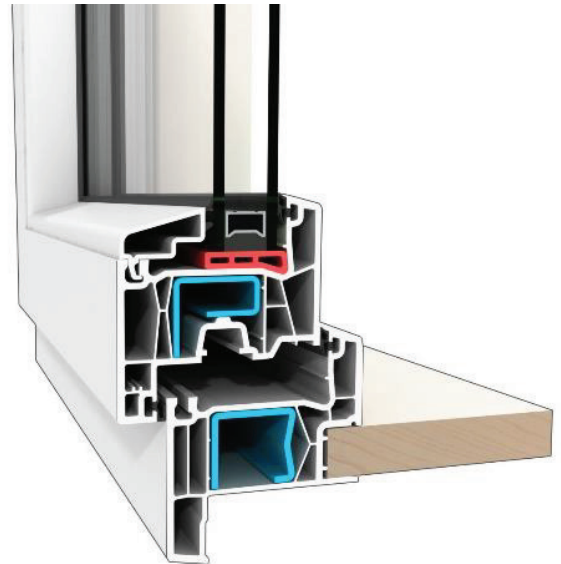


## Product Data Sheet – Klima

January 2018

**Description:** A range of uPVC windows and doors, with steel reinforcement, based on the Kömmerling 76mm Series, but re-configured for New Zealand conditions.



**Structure:** Based on testing to NZS4211:2008 at the APL Test Facility in Hamilton, Klima windows and doors comply with Clause B1 of the NZBC, for an Extra High wind zone.



**Durability:** Based on on-going testing at the Allunga Exposure Laboratory in Queensland - Australia, Klima complies with Clause B2 of the NZBC, for a durability of not less than 15 years.



**External Moisture:** Based on testing to NZS4211:2008 at the APL Test Facility in Hamilton, Klima windows and doors comply with, or exceed the requirements of, Clause E2 of the NZBC, for an Extra High wind zone.<sup>1</sup>



**Energy Efficiency:** Based on thermal modelling carried out using Flixo Pro 7, Klima windows and doors comply with Clause H1 of the NZBC, as noted below for each product.

Calculations have been performed in accordance with EN ISO 10077-2 but have been modified for NZ conditions as described in the WEERS TPM<sup>2</sup>.

1) The Klima stacking sliding door meets the requirements of, Clause E2 of the NZBC for a Very High wind zone

2) Window Energy Efficiency Star Rating Technical Procedures Manual, Version 2: A window energy efficiency rating tool for New Zealand housing. BRANZ, October, 2014.

## Product: Window Frame - K76113

### Test Report: T0453

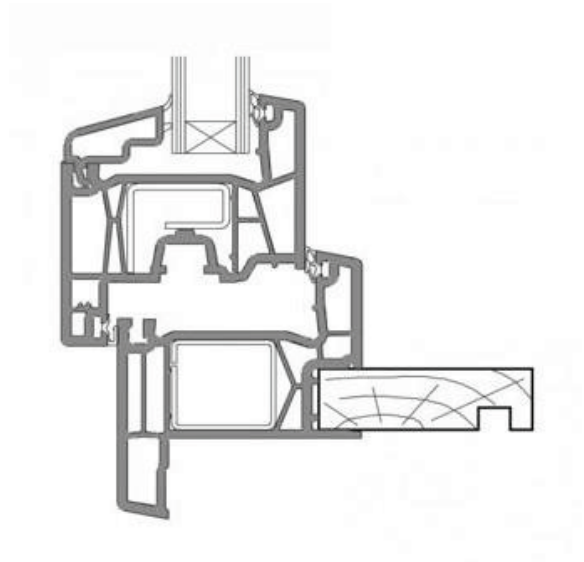
Test Sample - 1.55m x 1.85m



Extra High wind zone



> Extra High wind zone



### Thermal values:

$U_{(Frame)}$  1.366 W/(m<sup>2</sup>K)

$R_{(Frame)}$  0.73

$U_{(Frame + Sash)}$  1.458 W/(m<sup>2</sup>K)

$R_{(Frame + Sash)}$  0.69



## Product: Sliding Door Frame - K76056

### Test Report: T0457

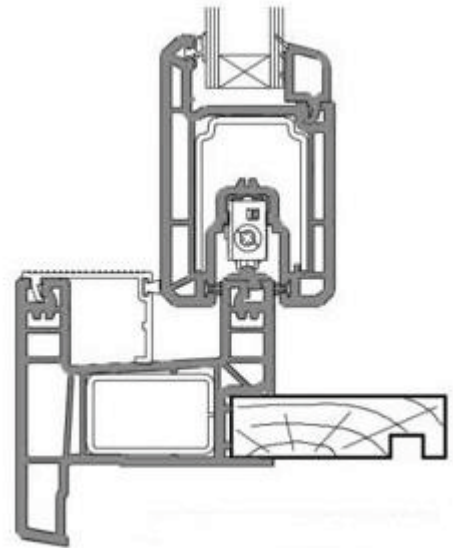
Test Sample = 2.15m x 2.05m



Extra High wind zone



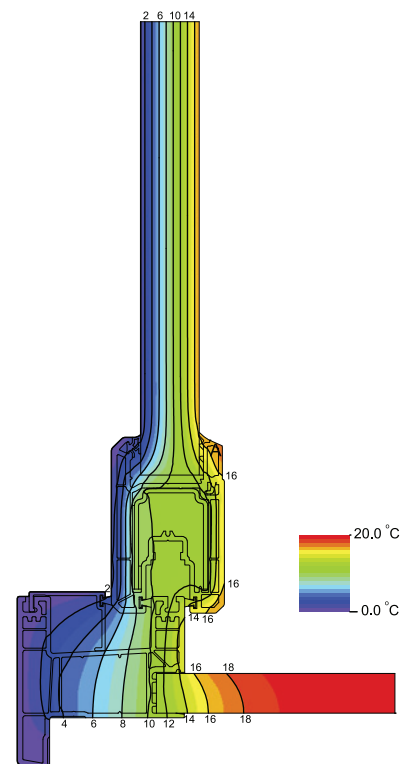
> Extra High wind zone



### Thermal values:

$U_{(Frame + Panel)}$  1.712 W/(m<sup>2</sup>K)

$R_{(Frame + Panel)}$  0.58



## Product: Hinged Door Frame - K76114

### Test Report: T0455

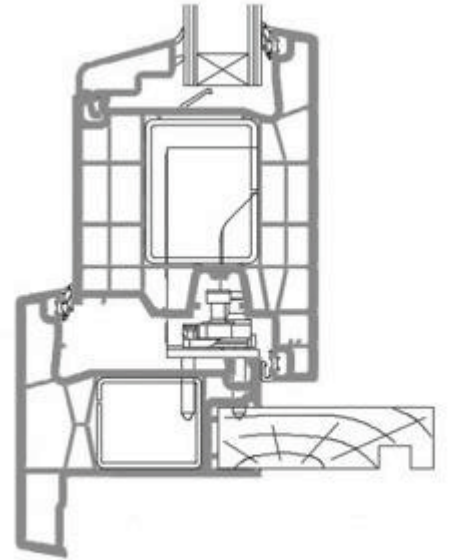
Test Sample = 2.15m x 1.01m



Extra High wind zone



> Extra High wind zone



### Thermal values:

$U_{(Frame + Panel)}$  1.294 W/(m<sup>2</sup>K)

$R_{(Frame + Panel)}$  0.77

