

# System 200 – Performance Specification

06.10.2023

**Project Name:**

xxx

**Architect:**

xxx

**Location:**

xxx

**Building Type:**

xxx

**Glazing Specification:****6.4 Laminated Inner/18 Cavity/4mm Annealed Outer****Composite Windows**

Windows, curtain walling and other glazed areas are to be a unitised composite aluminium/wood system with a uniform appearance, ie fixed lights have same modular sight-lines as opening lights.

The system must be a fully ventilated and drained system with concealed drain-channels, thermally broken and prefabricated.

The system must have an internal structural frame of Scandinavian Pinewood (*Pinus Sylvestris*), and an external thermally broken aluminium sash alloy AIMgSO,5.

**Glazing**

The sealed glass unit must be internally dry-glazed argon filled with EPDM gaskets and the glass rebate must be formed of aluminium.

**Aluminium**

54mm wide T-shaped thermally broken aluminium extrusion alloy EN AW-6060 or EN AW-6063.

**Ironmongery**

Friction stays, sliding tracks, hinges and handles must be sourced from one single manufacturer and/or must have been developed and engineered specifically with the proposed window system in mind.

Opening handles are to be single handles incorporating a multipoint locking mechanism fully concealed within the sash with only one handle permitted per window in a brushed anodized finish.

**Finishes**

The external aluminium sash must be polyester powder-coated in compliance with BS 6496, BS 6497, GSB and DIN 50939, in RAL colour [ ] to gloss level 30% and a primary coating thickness of between 60-120 µm.

The internal structural frames mullions and transoms of Scandinavian Pinewood must be Flow-coat-treated

preservative treated with fungicides and have a further two coat factory pre-finish with an environmentally friendly (solvent free) 100% Acryl emulsion/water-based surface treatment.

The coating is to have a dry paint thickness of between 60-100 µm and a colourless finish to gloss level 25 (silk matt) or painted in one of a range of colours RAL [ ].

**Performance**

The proposed TEROCO/VELFAC window system must have an expected lifespan of 40 years with regular maintenance.

The TEROCO/VELFAC window system must meet the air permeability requirements of test pressure class 600PA given in EN1026 (BS 6375 part 1), and no deformation or damage must be recorded at an applied wind pressure of 1800PA using test method EN 12211 (BS 6375 part 1).

The window system must meet the weather tightness requirements of test pressure class 300 given in BS 6375 part 1, and the window system must be tested to meet the requirements of BS 6375 part 2.

**Strengths**

The TEROCO/VELFAC window system, glazing and fixings must be designed with full consideration to the anticipated imposed loads based upon the following data. Window loads in accordance with CP3: Chapter 5: Part 2: (1972) for a basic wind speed,  $V=[ ]$  in category [ ].

**Thermal Transmittance**

The thermal transmittance (U value) for the window system and glazing shall not exceed:

Window U-value DGU = 1.1 - 1.58 W/m<sup>2</sup> K,  
Window U-value TGU = .8 - 1.0 W/m<sup>2</sup> K,  
spandrel panels U-value = as per requirements  
glass U-value = [ 1.1 ] W/m<sup>2</sup> K.

This is based on a TEROCO/VELFAC window 1230 x 1480mm as specified in BS EN ISO 12567-1.

**Interface details**

TEROCO RP200 render profile to be used in conjunction with the VELFAC V200 window where indicated. 8-15mm Shadow gaps to be shown externally required for ventilation & system operation

**Resistance to Forced Entry - SBD**

The TEROCO/VELFAC system must pass the PAS 24 (BS7950) tests for Secured By Design.

**Supplier**

TEROCO Windows & Door  
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Unit 16, Eastgate Drive, Little Island, Cork, T45 T623  
Tel: +353 1 403 9999  
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