

Contemporary Alu-clad Windows

Stylish & High-Performance



Russell Timber Technology
Data Sheet

Overview

Russell Timber Technology Contemporary Alu-clad Windows are manufactured using **FSC® and PEFC® certified** laminated timbers sourced from responsibly managed forests with Full Chain of Custody certification.

The system supports both **double glazing and triple glazing**, ensuring suitability for **Passivhaus** developments, with **U-values as low as 0.7W/m²K** and acoustic performance of up to **58dB**.

All products achieve **Secured by Design - PAS 24:2022** accreditation and feature both internally and externally glazed solutions with vented beads, allowing air circulation around the glass cavity to enhance durability and service life.

Products are **fully compliant with Building Regulations**, meeting Part M, Part, K, Part O, Part F, and Part Q.

A wide range of complimentary options are available, including aluminium louvres, laser-cut panelling, cill extensions, head flashing, and ventilation.

Windows are primarily manufactured as top-hung, Fully Reversible units, ensuring easy use and safe cleaning.

Tilt & Turn or Turn Only configurations are available as an inward opening solution, along with side-hung and fixed configurations.

The Contemporary Windows range includes **inward and outward opening Balcony Doors, Sliding Doors, and Turn & Tilt doorsets**.



Juliet Balconies are also available - integrated into our window systems.

In addition, **aluminium panelling** is available to add a contemporary finish that can add privacy, security, and solar shading.

Integral **louvres** complete with plenum and ventilation solution are available to ensure a balanced airflow is achieved.

Russell Timber Technology offers certified Automatic Opening Vents (**AOVs**) to EN12101-2:2003 in bottom or side-hung configurations.

Products are supplied with a powder-coated aluminium-clad exterior, and painted timber interior - offering improved longevity, low maintenance, and dual-colour flexibility.

Powder coatings on our aluminium products are also available in the full range of RAL Classic colours as standard, as well as metallic and anodised finishes. Powder coating is available to Qualicoat Class 1 and Class 2 as standard.

Manufactured from sustainable timber, the range delivers a secure, energy-efficient solution that exceeds current building regulation standards.



Specifications: Windows & Balcony Doors

- U-value 1.2 – 0.7W/m²K and 58dB depending on glass
- Manufactured from laminated Redwood for long-term stability
- Certified PAS 24:2022 - Secured by Design*

Key Compliance

Part M

- Clear open 850mm+
- Accessible handles
- Mobility thresholds
- Automated access when required

Part K

- Containment managed through the appropriate glass. Applied loads to Julietts transferred through the window frame

Part O

- Appropriate G-value
- Accessible purge ventilation

Part F

- Through frame ventilation

*Part Q - Fulfilled to PAS 24:2022

- Alu-clad: externally fixed, breathable solution enhancing life span through drainage & ventilation
- Range of extension cills and head flashing available
- Internal and external glazed
- Complete with all ironmongery
- Available in dual colours



Performance (See Declaration of Performance for details)

General Performance Window	BS 644:2012, BS EN 6375-1, EN ISO 10077 and ISO 9001	
Enhanced Security Window	PAS 24:2022 - Secured by Design licensed	
Air Permeability	600 Pa (Class 4)	EN 12207:2016
Water Tightness	600 Pa (Class 9A)	EN 12208:2008
Resistance to Wind Load	2000 Pa (Class C5)	EN 12210:2016
Exposure Category	2000 Pa	BS6375-1 Annex A
Whole Window U-value	1.2Wm ² K on double glazing 0.7Wm ² K on triple glazing	

Configurations & Options

Outward Opening Fully Reversible



Inside View

Inward Opening Tilt & Turn



Inside View

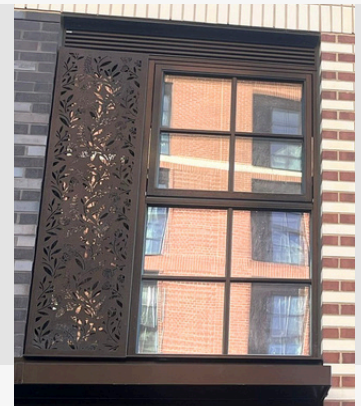
Sliding Door



Inside View

Louvre Vents

RTT louvres are designed to work with MVHR systems. Plenums and spigots are available to ensure a balanced airflow is achieved.



Laser-cut Panelling

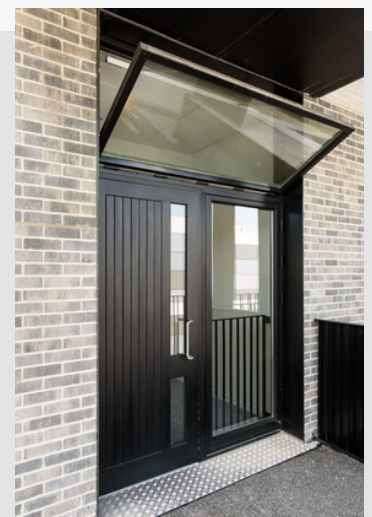
This precision laser-cut aluminium panelling can feature unique designs that enhance the façade of a building whilst offering additional safety, security, solar shading, and privacy.

Ideal for developers looking to create distinctive, durable façades with flair.

AOV

Russell Timber Technology provides the construction market with a compliant Natural Smoke and Heat Exhaust Ventilator (NSHEV) AOV with a full system declaration of performance to meet the requirements of EN12101-2:2003, and compliance with UK Building Regulations.

- Can be provided with actuator pre-fitted
- Compatible with numerous window and door configurations
- Balustrade incorporated within system
- Available as bottom hung or side hung



Colours

Our window systems are available in our standard range of colours as well as the full range of RAL Classic colours. Timber elements come in white as standard but are available in the full range of RAL Classic colour pigmented finishes and clear lacquers.

Powder coatings on our aluminium products are also available in the full range of RAL Classic colours as standard, as well as metallic and anodised finishes. Powder coating is available to Qualicoat Class 1 and Class 2 as standard.

Timber coatings are environmentally friendly, water-based formulations with low odour and no solvents. Paints are applied using electrostatic wraparound robotic technology, giving optimum protection whilst reducing waste.



Hardware

Hardware within Russell Timber Technology's timber & alu-clad windows and doors is manufactured in Europe. Offered in chrome, gold anodised (GAA) and silver anodised (SAA) finishes whilst the norm for windows is white or satin chrome. Black and gold finishes are also available.



SAA



Satin
Chrome



White



Black



Gold



GAA



Russell Timber Technology is trusted to advise on, design and install windows and doors for some of the UK's biggest contractors. RTT delivers on projects ranging from revived national treasures right through to the new build façades of residential regeneration schemes.

A deep understanding of regulations and a high level of accreditation as manufacturer and installer gives peace of mind to our clients.

All our quality products come with the expected industry certification and compliance.

- QMS ISO 9001
- EMS ISO 14001
- Chain of Custody: FSC® – PEFC® (Please ask about our FSC® Certified products.)
- Constructionline Gold: Standard and Higher-Risk Buildings
- Builders Profile
- SMAS
- CHAS: Advanced
- Achilles
- Secured by Design
- Blue Sky: General performance – BS644 – Enhanced Security Windows & Doors PAS 24:2022
- Blue Sky: Installation Scheme
- Blue Sky: Manufacture Scheme

John A Russell (Joinery) Ltd, 8 Dilwara Avenue, Glasgow, G14 0QS 0141 958 0444
Company Reg: SC045289 VAT No: 260 8552 57 www.russelltimbertech.co.uk