COBIANWD

PERFORMANCE & CERTIFICATIONS GUIDE

Published Test Reports | Performance Classifications | Manufacturer Technical Data

REHAU uPVC SYSTEMS

Exelis 190

Configuration	Independent test report	Published performance
Fixed / Picture Window	NCTL-210-4248-01 National Certified Testing Laboratories	AAMA/WDMA/CSA 101/I.S.2/A440-11 **LC-PG25** - Type FW Test size: 1829 x 1829 mm (approx. 72 x 72 in)
Single-Hung Window	NCTL-210-4248-02 National Certified Testing Laboratories	AAMA/WDMA/CSA 101/I.S.2/A440-11 **R-PG30** - Type SH Test size: 1118 x 1880 mm (approx. 44 x 74 in)
Horizontal Sliding Window	NCTL-210-4248-03 National Certified Testing Laboratories	AAMA/WDMA/CSA 101/I.S.2/A440-11 **LC-PG25** - Type HS Test size: 1848 x 1448 mm (approx. 72.75 x 57 in)

ONNCCE technical suitability documentation for the S190 profile family identifies the tested Fixed, Single-Hung and Horizontal Sliding configurations. The NCTL reports above provide the corresponding NAFS performance test records.

EuroDesign 4500

Configuration	Independent test report	Published performance
Fixed Window	B8186.01-109-47 Architectural Testing / Intertek-ATI	AAMA/WDMA/CSA 101/I.S.2/A440-08 **CW-PG75** - Type FW 72 x 72 in tested DP +/-75.19 psf; Water 15.04 psf
Fixed Window - Large Format	D3600.01-109-47 Architectural Testing, Inc.	AAMA/WDMA/CSA 101/I.S.2/A440-08 **LC-PG100** - Type FW 72 x 109 in tested DP +/-100.25 psf; Water 12.11 psf
Tilt & Turn / Dual Action	B7013.01-109-47 Architectural Testing / Intertek-ATI	AAMA/WDMA/CSA 101/I.S.2/A440-08 **CW-PG95** - Type DAW 48 x 71 in tested DP +/-95.24 psf; Water 15.04 psf
Tilt & Turn / Dual Action	QCT15-3576.01 Quast Consulting and Testing	AAMA/WDMA/CSA 101/I.S.2/A440-11 **CW-PG70** - Type DAW 1200 x 1800 mm tested; ASTM E283 / E547 / E330M / F588
Fixed Impact Window	NCTL-210-3741-2A National Certified Testing Laboratories	AAMA/WDMA/CSA 101/I.S.2/A440-05 **FW-R65** 48 x 98 in tested
Out-swing French Door	NCTL-210-3739-1A National Certified Testing Laboratories	AAMA/WDMA/CSA 101/I.S.2/A440-05 **SHD-C65** 74 x 98 in and 74 x 82 in specimens

REHAU's current System 4500 product information publishes NAFS performance up to AW-PG100 for tilt-turn configurations. The table above identifies specific independent laboratory reports supplied for the 4500 system and the tested specimens represented by those reports.

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REHAU Test Records | Thermal & Acoustical References

ADDITIONAL REHAU 4500 TEST RECORDS

Test category	Report number	Product / result
NFRC thermal test	NCTL-110-20014-1	4500 Fixed Lite - NFRC 102-2014 thermal performance test; standardized U-factor reported by the test: 0.19 Btu/hr-ft2-F.
NFRC air leakage	NCTL-110-20014-2	4500 Fixed Lite - NFRC 400-2014 air leakage performance test.
NFRC simulation	NCTL-610-23385-1E0A0	4500 Fixed Window - ANSI/NFRC 100-2017 / 200-2017 / 500-2017 simulation report.
Acoustical - Fixed	A1834.01-113-11	4500 Fixed Window - ASTM E90 sound transmission loss test; STC 40 configuration.
Acoustical - Tilt & Turn	F2425.01-113-11	4500 Tilt-Turn Window - ASTM E90 acoustical performance test.
NFRC simulation - Tilt & Turn	C4087.07-116-45	4500 Tilt Turn - NFRC U-factor, SHGC, VT and condensation-resistance computer simulation report.
NFRC thermal - Outswing Door	C4591.01-116-46	4500 Series Single Outswing Door - NFRC 102-2010 thermal performance test.

REHAU SLIDING SYSTEMS

System	REHAU published performance
EuroSlide 920 - Sliding Window	Wind load: Class C1; air permeability: Class 3; water tightness: Class 6A; acoustic insulation: up to 32 dB.
High-Design Slide 920-86 - Sliding Patio Door	Wind load: Class C1/B1; air permeability: Class 3 (EN 12207); water tightness: Class 4A; acoustic insulation: up to protection Class 4 (VDI 2719).

Performance values shown for the 920 and 920-86 are REHAU-published system data. No independent laboratory report number is assigned to these values in the source package used for this guide.

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Thermal-Break Aluminum | Manufacturer Test Results

THERMAL BREAK ALUMINUM

COVENT Imperial

Published test result	Classification
Air permeability	Class 4 - UNE-EN 1026:2000
Water tightness	Class E2100 - UNI-EN 1027:2000, as stated in the Imperial technical catalog
Wind resistance	Class C5 - UNE-EN 12211:2000
Acoustic insulation	Maximum Rw = 43 dB

Matra 110 RPT - Alugom

Published test result	Manufacturer test data - balcony-door configuration
Air permeability	Class 3 - UNE EN 1026 / EN 12207
Water tightness	Class 8A - UNE EN 1027 / EN 12208
Wind resistance	Class C2 - UNE EN 12211 / EN 12210
Acoustic insulation	30 (0;-3) dB

ALG VISTA RPT - Alugom

Technical reference	Published manufacturer data
System	75 mm frame and sash; concealed-sash design; European-groove hardware.
Operable sash capacity	Up to 150 kg (331 lb), according to the manufacturer configuration data.
Glazing capacity	Up to 52 mm in frames and 38 mm in sashes.

PERFORMANCE & CERTIFICATIONS GUIDE

Standard Aluminum | Extruder Technical References

EXTRUSIONES METALICAS SYSTEMS

The following values are technical references and fabrication recommendations published by **Extrusiones Metálicas** for its aluminum profile systems.

Extruder series	Published technical reference
Supra 65	Profile-system technical information for fixed and concealed-sash operable window configurations.
Series 4600	6063-T5 aluminum; glazing up to 18 mm. Extrusiones Metálicas publishes fabrication dimensions and sash-weight recommendations. Wind-load resistance is determined by analysis of the specific module and project conditions using the design criteria referenced by the extruder.
Series 10000	6063-T5 aluminum; glazing from 6 to 24 mm. Extrusiones Metálicas publishes configurations up to 200 kg (441 lb) per sash. Wind-load resistance is determined by project/module analysis using the design criteria referenced by the extruder.

REFERENCE STANDARDS

AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS) | ASTM E283 | ASTM E547 | ASTM E330/E330M | ASTM F588 | NFRC 100 | NFRC 102 | NFRC 200 | NFRC 400 | NFRC 500 | ASTM E90 | ASTM E413 | EN 12207 | EN 12208 | EN 12210.