COBIAN

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.

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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.