

# multi-storey, residential apartment blocks

**CW-75 system**

# CW-75

## The holistic solution for multi-storey residential.

Symonite has collaborated with one of Europe's leading joinery manufacturers to develop exterior facade systems including a sliding door, operable windows and balconies all incorporated into one system.

### DURABLE WITH ENHANCED PERFORMANCE

Reynaers Aluminium is a leading European specialist in the development of innovative and sustainable aluminium solutions for windows, doors, curtain walls, sliding systems and sun screening. Driven by energy-efficiency and the willingness to take responsibility for the environment. Our high-quality systems meet the most stringent demands in terms of comfort, energy, security, architectural design, and energy-efficiency

#### **Thermal Insulation:**

Reynaers systems are designed to meet different levels of thermal insulation. This insulation level is called the U-value. The lower this U-value is, the higher the insulation. This insulation level is realised by a thermal break between the inner and outer aluminium profiles. Profiles of Reynaers also have a unique center seal or gasket and a continuous acoustic seal, to ensure the insulation.

The state-of-the-art insulation technique used by Reynaers, connects the outer chamber and the inner chamber through fiberglass reinforced polyamide strips. These strips provide a thermal break and come in various widths. The wider strips, the higher the insulation factor. The design of these strips is important to guarantee the stability and strength of the assembled profile.

#### **Airtight building connections:**

Air tightness is an absolute requirement for an energy efficient building. Reynaers fabricators can drastically improve the airtightness of the building connection, using ReynaConnect according to strict procedures. Their expertise and knowledge in this field is essential in achieving your passive or low energy project. ReynaConnect duofoil is applied around the window or door frame. In combination with our special elastic foam and compression tape, it guarantees a superior airtight building connection.



## PERFORMANCE

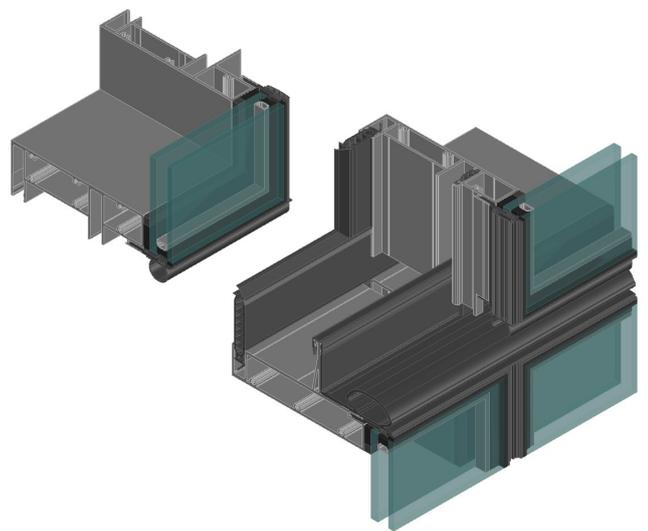
This table shows classes and values of performances, which can be achieved for specific configurations and opening types.

ENERGY					
Thermal insulation	Uf = 2.6 W/m <sup>2</sup> .K (for typical curtain wall mullion / transom)				
COMFORT					
Acoustic performance	34 to 47 dB STC , depending on glass thickness				
Air tightness	NZS4284:2008 NZS4211:2008	Surface: 0.32 l/s/m <sup>2</sup>	<1.60 PASS	Joints: 0.18 l/s/m	<0.60 PASS
Water tightness	NZS4284:2008	Static up to 700 Pa, cyclic 1.4 kPa incl for inward, outward sash and sliding door insert			
Wind load pressure	NZS4284:2008	Up to ULS +/- 3.57 kPa @ 3.3m floor span			
Structural deflection	NZS4284:2008	Up to SLS +/- 2.40 kPa @ 3.3m floor span			
Seismic inter-storey	NZS4284:2008	SLS up to +/- 25mm ULS up to +/- 100mm on 3.3m span			
Live load deflection		+15mm/-20mm			
Resistance against impact	NZS2208: 1996	Incorporated Juliette balconies for C3 occupancy			



## CW-75 TECHNICAL CHARACTERISTICS

Max dimensions	1.600 x 3.600
Interior visible width	75 mm
Exterior visible width	16mm joint between glass
Depth system	183mm
Depth from floor slab	250mm
Depth mullions	150mm
Depth transom	150mm
Glass thickness	24-28mm
Glass weight	Up to 40kg/sqm
Max height sliding door	2700mm
Max size inward sash	1500x1200
Max size outward sash	1500x1200
Types of vents	Inward, outward opening



# Reynaers in New Zealand

Reynaers Aluminium is one of the leading European joinery designers and has been active in New Zealand for almost 10 years with both residential and commercial references. A wide variety of systems are developed and tested to New Zealand Standards and our fast-growing list

of references is proof of the excellent quality of the joinery solutions.

Symonite Solutions is the local partner of Reynaers Aluminium in the New Zealand market and offers local design, engineering, fabrication and installation.



Hampden Otahuhu Precinct, Auckland, New Zealand



Justice Precinct Christchurch. Photo: Dennis Lightforge.



## **SYMONITE PANELS**

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The current state of architecture and design requires extensive collaboration and an investigative attitude. We continue to research and develop product technologies and installation techniques