

REYNAERS COMBINES ALUMINIUM AND WOOD IN NEW RW RANGE

Reynaers Aluminium, a leading supplier of innovative and sustainable architectural aluminium solutions, launches a new range of technologically advanced products joining aluminium and wood in an aesthetical end result that represents all the advantages of aluminium. The range offers the best of both materials: the warm and natural feel of wood merges smoothly with the aluminium base that not only lasts a lifetime and allows a wide range of designs and colour options but is highly insulating, environmentally friendly and cost-effective.

Duffel, July 2010 - Reynaers Aluminium introduces a range of systems combining a strong aluminium base with a wood finishing, offering an innovative hybrid product ideal for those looking for the appeal of a wooden profile with the benefits of aluminium. The combination of solid wood for the internal profiles with the thermally insulated aluminium core and outer scale results in superior stability and long-lasting functionality, reducing maintenance to a minimum. The new range is available in RW 100 system for windows and doors as well as in RW 105 sliding system and offers a variety of options and possibilities for architects and builders to work with.

Thermal insulation combined with natural woods

The Reynaers aluminium profiles, used for the construction of the outer part of the alu-wood, are thermally broken by means of polyamide strips. Due to the thermal break in the aluminium profile in combination with the insulating properties of the wooden inner profile, condensation can be reduced to a minimum.

The natural wood profiles are triple coated and finished off with a water-based product, which are both environment-friendly. The aluminium base can be combined with a wide choice of solid wood offering various finishing types suitable for various applications including ash painted cherry, tuliper painted mahogany, natural oak, natural ash, ash painted dark and light walnut and pickled ash.

Finishing types



As such, these new highly insulating alu-wood solutions can be used in any interior and architectural style.

RW 100 system for windows and doors

The RW 100 system for the construction of combined alu-wood windows and doors consists of an internal profile in wood and an external one in aluminium with thermal break. The internal profiles in solid natural wood show the first-rate quality of the product. Never in direct contact with the aluminium, it allows further insulation thus avoiding thermal expansion problems caused by the use of different materials. Thanks to the good thermal insulation values, the alu-wood system can be applied almost anywhere, taking into account the local legislations. Laboratory tests show the impeccable product quality, with CE mark. The profiles have an overall system depth of 82mm for the frame and 100mm for the vent. Besides, the use of hardware generates greater functionality due to its ability to act on several closing points, thus allowing a satisfactory adjustment of the doors.



RW 100 system for windows and doors

RW 105 sliding system

The RW 105 sliding system consists of a wooden interior and an external insulated aluminium profile. The RW sliding window is a high-end quality product with a good insulation value. The profiles have a construction depth of 150mm for the frame and 64mm for the vent. The system uses a multi-point locking mechanism operated by one handle or, upon request, a three-point closing or double handle.



RW105 sliding system

“At Reynaers, we continuously strive to improve our product range according to the end-users’ requirements. Architects that are looking for the appeal of a wooden architecture will enjoy the new alu-wood RW range with aluminium base systems both for its design and functionality. The perfect match of an aluminium profile with wooden finishing goes beyond the warm appeal of wood and also offers increased thermal insulation value, a long-lasting sustainability, low-maintenance and cost effectiveness, as well as the possibility to cover bigger spans thanks to the strength of the aluminium structure. Besides, like all Reynaers aluminium products, the RW range offers a huge variety of finishing and colour options, fit for every interior and style, making it the preferred product for architects with high aesthetical and technological standards.” says Erik Rasker, Chief Technology Officer of Reynaers Aluminium.

Technical characteristics:

		RW 100	RW 105
Min. visible width inward opening window	Frame	55 mm	48 mm
	Vent	43 mm	82 mm
Minimal visible width of transom		83 mm	-
Overall system depth window	Frame	82 mm	105 mm
	Vent	100 mm	64 mm
Rebate height		25 mm	25 mm
Glass thickness		from 28 mm to 36 mm	Up to 25 mm
Glazing method		dry glazing with EPDM or neutral silicones	
Thermal insulation		omega-shaped fiber glass reinforced polyamide strips	
Opening types		window and door with 1, 2, 3, 4 vents, thermo front, bent window with 2, 3, 4 vents, entrance doors	Sliding system with 2, 3, 4 vents

Performances:

ENERGY	RW100	RW105
Thermal Insulation (1) EN 10077-2	Uf - values between 1.99 and 2.43 W/m ² K depending on the frame/vent combination	Uf-value ≥ di 3,25 W/m ² K, depending on the frame/vent combination
Air tightness (2)	A3	A3
Water tightness (3)	8A	5A
Wind tightness (4)	C2	B2

(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.

(2) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

(3) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.

(4) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.

About Reynaers Aluminium

Reynaers Aluminium is a leading European provider of innovative and sustainable architectural aluminium solutions. These include a wide variety of window and door systems, curtain walling, sliding systems, sun screening, conservatories, skylights, screens and systems to incorporate blinds and ventilation grids. Established in 1965 and headquartered in Duffel (Belgium), Reynaers Aluminium has offices in 27 countries worldwide.

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