Lindner ECO_N® Hybrid Unitized Curtain Wall

The Lindner ECO_N® is the first hybrid facade in our range of unitised facades. As a structurally effective component, the timber module contributes – depending on the specific configuration – to a reduction in CO_2 emissions of 20 to 25% compared with a conventional aluminium unitised facade without a timber module.

Depending on the aluminium variant, CO_2e values of **131.60 kg CO_2e/m²** have been determined for the manufacture of the Lindner ECO_N® using Hydro REDUXA® aluminium. By comparison, a standard aluminium facade has a value of **175.96 kg CO_2e/m²**. The ECO_N values are based on a life cycle assessment in accordance with DIN EN 14067 and ISO 14025 (December 2024).

In addition to reducing the amount of material used, the system is designed for dismantling and material separation: the materials used are kept separate by type and mechanically connected. At the end of their service life, they can be separated and directed towards suitable reuse or recovery processes.

The Lindner ECO_N® is available in the **ECO_N 80** and **ECO_N 100** variants. With a consistent external appearance of 80 mm, it can be combined with the Lindner ECO® aluminium system, creating a continuous facade aesthetic even where different functional requirements apply within a building.

Winner of the “Best of Products 2024” award from Architect’s Newspaper Magazine in the “Structural Systems” category.

Advantages at a glance

- reduced aluminium content in the facade element
- materials kept separate by type & mechanically separable construction
- patented spring clip mounting
- extensive design freedom with timber, aluminium, colours & joint patterns
- consistent 80 mm external appearance & compatibility with Lindner ECO®
- very good thermal & moisture protection
- high durability & replaceable components



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