



Armstrong DLW linoleum eco audit to DIN EN ISO 14040-43

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The sustainability of buildings and thus also of individual construction materials is increasingly becoming the focus not only of architects and clients, but also of the legislator. A long-term development is considered sustainable if it satisfies the requirements of the present without restricting the options for future generations of satisfying their own requirements.¹

In floor coverings, the traditional product linoleum has had a "green" image for decades. Yet is it also possible to declare Armstrong DLW linoleum an environmentally-friendly construction product to DIN EN ISO 14040-43?

This was the issue addressed by acknowledged expert Prof. Hegger and his team from the Technical University in Darmstadt in a differentiated eco audit. A broad selection of system limits was made for the eco audit, including:

- the production and transport of raw materials
- the production of linoleum at the Delmenhorst site in Germany
- transport from the facility to the end-customer
- fitting the linoleum
- service life, assuming defined cleaning cycles
- disposal by means of thermal recycling including removal and transport

Assessment and summary for Armstrong DLW linoleum

Armstrong DLW linoleum is produced largely from renewable and safe raw materials. This is an initial important prerequisite for a sustainable construction product.

Examination of the entire life cycle more than confirms the assumed/familiar advantages. Quantitative analysis proves that this is a floor covering with a long life, the environmental impact of which is extraordinarily small and virtually impossible to minimize further. Given the current state of knowledge, Armstrong DLW linoleum can therefore be unreservedly recommended from the point of view of sustainability.

Armstrong DLW linoleum with the PUR surface finish (PUR Eco System)

The extremely slight negative impact on the eco audit caused by application of the PUR surface finish is more than compensated by the considerable positive impact during the service life of the linoleum. The positive impact on the eco audit for Armstrong DLW linoleum PUR comes, among other things, from a reduced requirement for electrical power for cleaning, reduced quantities of cleaning agent and reduced pollution of drinking water. This reduces greenhouse potential, for example, by approx. 5 %.

This confirms the further improvement in the eco audit for which Armstrong DLW linoleum PUR has been striving, essentially as a result of the improved cleaning audit. The new PUR surface finish (PUR Eco System) thus represents a meaningful further development of Armstrong DLW linoleum in both economic and ecological terms.

Its timeless appearance and long lifespan, even in areas of heavy traffic, are further notable properties of this material also reflected in a positive eco audit.

¹ See also the Brundtland Report from the World Commission on Environment and Development