TC205/WG7

「建築環境設計への自然と生物多様性の観点の導入について」

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Integration of nature and biodiversity in building design



User well-being and satisfaction through outcome-based building design including nature and biodiversity



Integration of nature and biodiversity in building design - General principles



User well-being and satisfaction through outcome-based building design including nature and biodiversity – General principles



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Integration of nature and biodiversity in building design - General principles

The Scope

(agreed at WG7 in Boulder, Colorado, USA - March 2024)

This International Standard provides an integrated design process to reflect the symbiotic relationship between nature, human biology and building environment design in order to promote user satisfaction, health, well-being and productivity as well as sustainability.

It covers new buildings and retrofit of existing buildings, adaptation to changing needs and the utilisation of post-occupancy feedback.

It promotes an approach in which the parties involved in design collaborate with one another to provide a high-quality building environment design.

Biophilic Design - example



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Transpecies Design - example



Integration of nature and biodiversity in building design - General principles

Introduction (excerpt 1)

(agreed at WG7 in Paris, France - October 2024)

All organisms exist within connected and related environments bound together as integrated wholes or ecosystems. The area of work addressed by this standard includes all design of buildings, indoor and outdoor spaces and building components where the major concern is mutual flourishing of ecosystem among all species including human well-being.

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Introduction (excerpt 2)

(agreed at WG7 in Paris, France - October 2024)

Critically, human needs include task performance and health, safety and wellbeing elements, relationship with outside as for example access to quality views, in addition to social, physiological and psychological factors. Design consideration includes occupant connectivity to the natural environment through the use of connection to nature through biophilic design. The design considers the site location, life-cycles of the building, construction, renovation, maintenance, operation and end of lives including disassembly, reuse and end of life when unavoidable.

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Introduction (excerpt 3)

(agreed at WG7 in Paris, France - October 2024)

The aim is to assist these groups in applying an effective design process in order to achieve balance between comfort and environmental considerations.

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Introduction (excerpt 4)

(agreed at WG7 in Paris, France - October 2024)

Transpecies design, as outlined in this text, offers a new approach to regenerating the natural environment while honoring biodiversity. Rather than presenting the human experience as the end goal of all design, transpecies design takes the inextricable linkages connecting living things as both its starting point and end goal.

Integration of nature and biodiversity in building design - General principles

Next Step

(WG1 & WG7 in Manila, Philippine - May 2025)

Introduction Draft Making - continue (WG1)

Case Studies - Feedback from Post Occupancy Evaluation (WG1 & WG7)

Computing in Building Environment Design (WG1)

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