



Sustainability and Life cycle Assessment of Novel Structural Building Skins

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Message from the Guest Editors

Dear Colleagues,

This Special Issue comprises selected papers from the Working Group “Sustainability and Life cycle Assessment of Novel Structural Membrane Skins” in the EU-COST Action TU1303 “Novel Structural Skins” (2013–2017).

The Working Group focused on searching for the most effective life-cycle-based design methodology, to support designers during their daily work, and on studies that combined the necessity of increasing the designers’ awareness of both lightweight and flexible materials and their building physic performances from a life-cycle perspective, achieving membrane architectures with a smaller environmental footprint. The discussed research need actually originates from the networking between researchers and firms—both manufacturers tensile/pneumatic structures and membrane/foil producers—as well as engineers and architects, who are all seeking to find an easier way to compare the eco-profile of lightweight material alternatives that are currently available on the global market.

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