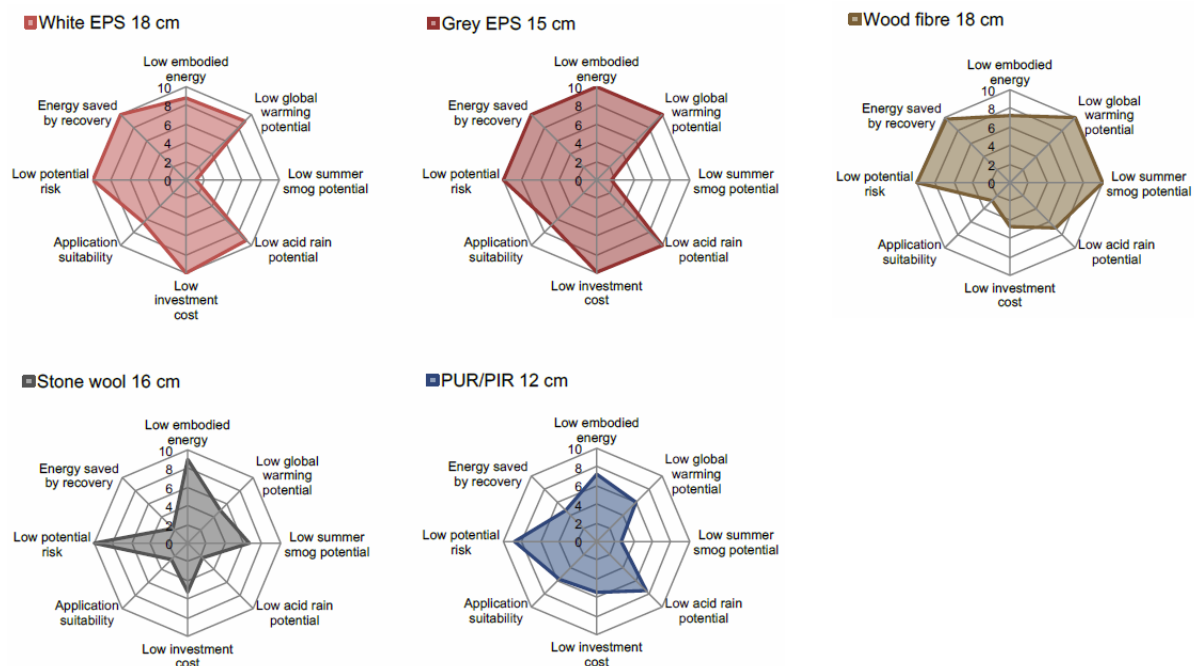


Evaluation and Comparison of ETICS Insulation

The independent Swiss consultancy firm Büro für Umweltchemie (BFU) has developed a multi-criteria evaluation and comparison of different insulation materials. The outcome is a simple and practical graphical tool that visualises the strengths and weaknesses of insulating materials in various applications¹. In the case of ETICS insulation the spider diagrams show that the EPS materials have the best overall results for the production phase together with wood fibre. EPS provides the lowest investment cost and is the most suitable material for this application. When it comes to demolition and recycling, both EPS materials and also wood fibre offer the best energy savings. PUR/PIR has overall medium scores. Stone wool does not have any particular advantages in an ETICS system.



- Principles of the spider diagram:
 - The selection of the criteria (axes) represents the whole life cycle.
 - The criteria are based on objective characteristics and comparable data.
 - Best values are shown at the outside of the spider axes.
 - The axes indicate the extreme values within a given application.

¹ see Büro für Umweltchemie Report „[Multi-criteria Comparison of Insulation Materials](#)“, 8 March 2018