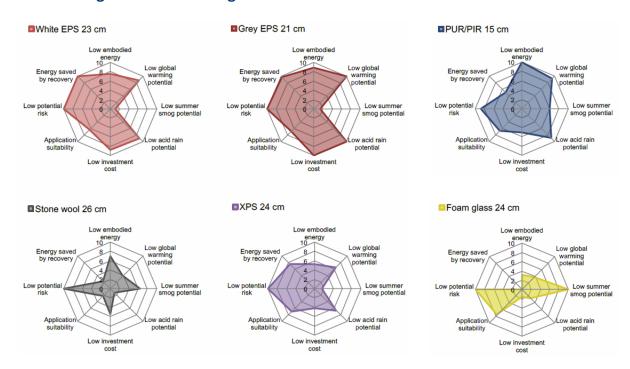






Evaluation and Comparison of Flat Roof Insulation

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 flat roof insulation the spider diagrams show that grey EPS has the best overall results with regards to the LCIA indicators for production. The material has also a small mass per square metre. Stone wool and foam glass have major disadvantages in several categories.



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

¹ see Büro für Umweltchemie Report "<u>Multi-criteria Comparison of Insulation Materials</u>", 8 March 2018