



REIMAGINING URBAN GREENSPACE OVER PARKING STRUCTURES



In the heart of Helsinki's Töölö district, a major regeneration project transformed a closed construction zone into a vibrant urban park — sitting directly above a large underground parking garage. The rejuvenated Kivelänkatu Park offers an essential green oasis for residents, blending sustainability with engineering

innovation.

To meet stringent weight limitations imposed by the underground structure, lightweight and porous Leca® aggregate was specified in the growing medium for the landscaped podium. This not only reduced load on the concrete roof deck but significantly enhanced water retention, drainage, and root support in a challenging urban environment.

FACTS

Application: Green roof-style park construction above parking infrastructure

Material Used: Leca® Crushed Lightweight Aggregate (3–8mm)

Project Overview: Green infrastructure, podium landscaping, urban tree planting, and load-sensitive sites