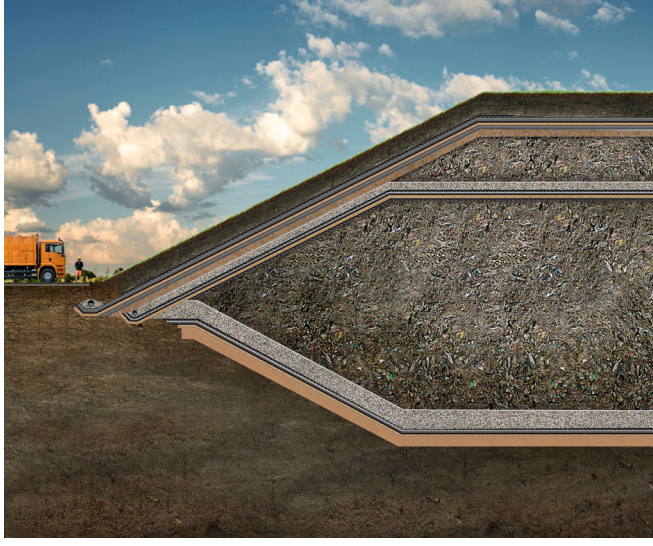


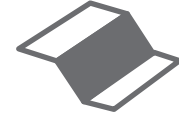
Reduction of tyre abrasion and CO₂ through the use of geotextiles

Calculation Example The Surface Sealing of Landfills

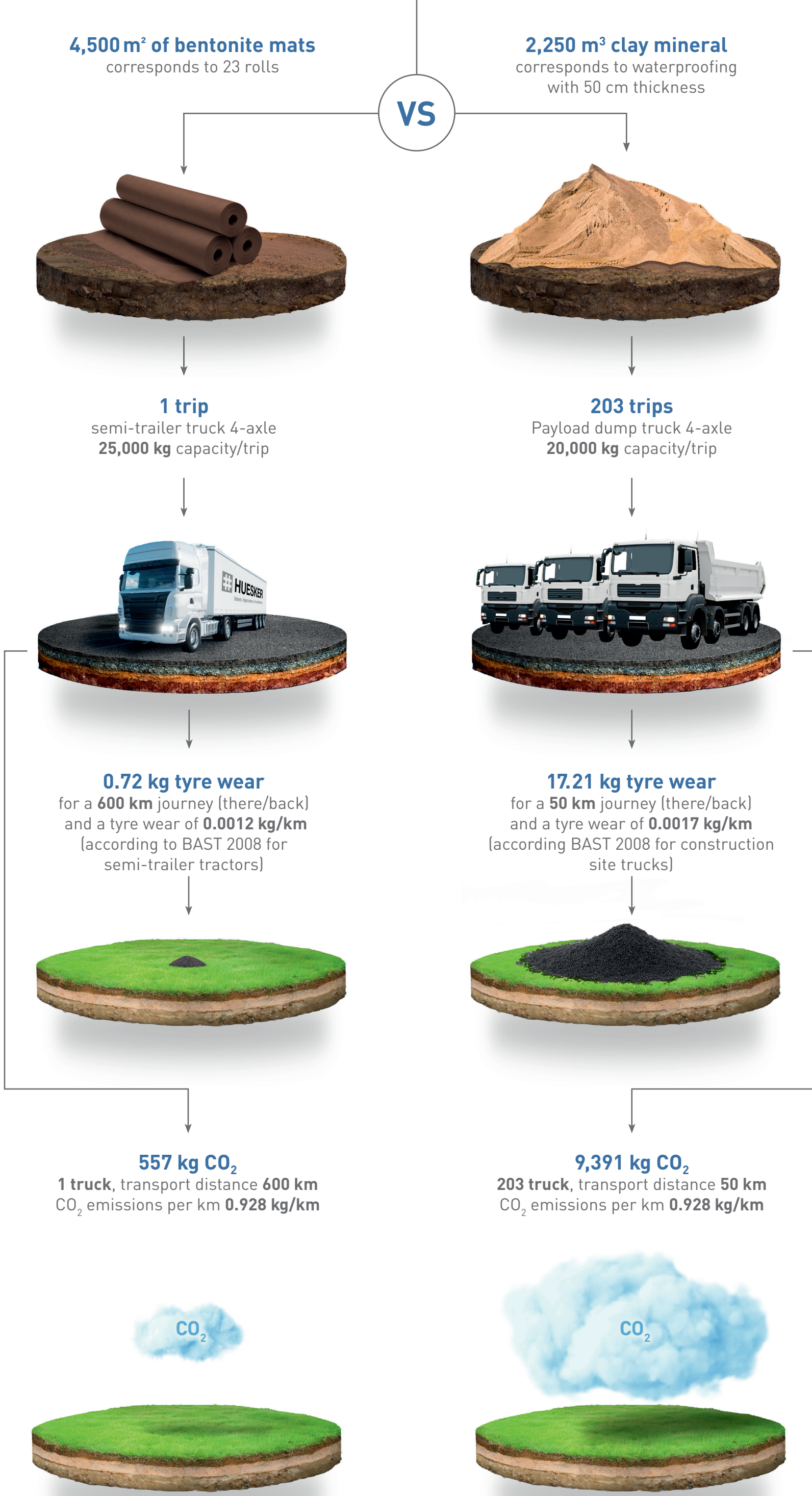
The transport of material for a fictitious landfill sealing project is compared. Comparisons are made between a geotextile bentonite mat liner project and a clay liner project.



4,500 m²
Landfill area



The construction methods in comparison



Result:

A comparison of the two solutions clearly shows that a landfill using geotextiles produces up to 96% less microplastic from tyre abrasion (under the parameters listed above) than the expansion variant with a clay liner.

In addition, 94% more CO₂ is produced during the transport of the clay mineral. Added to this, is the additional CO₂ caused by the use of machinery during paving, which is considerably lower with the geosynthetic option. In addition, the construction costs are usually lower when using a geotextile solution.



Less CO₂ emissions



Microplastic reduction



Construction time and energy saving



Space saving transport



Saving in construction costs

