

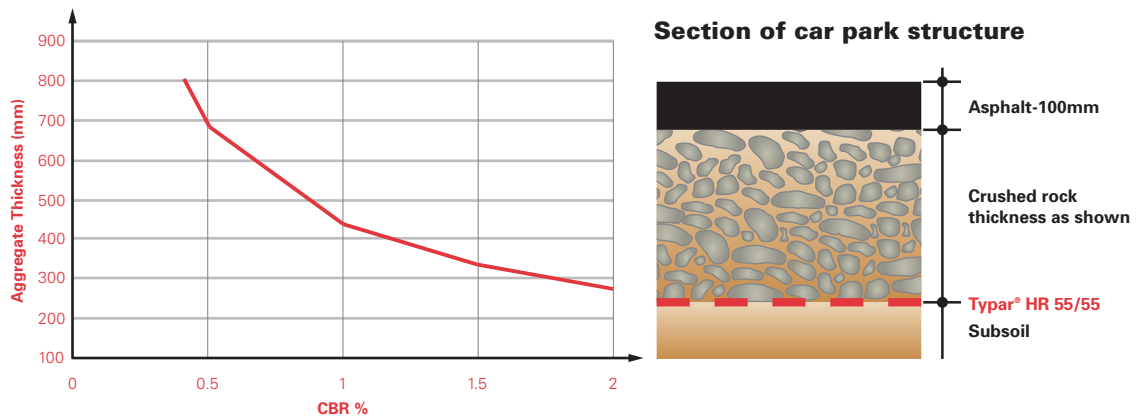
DuPont™ Typar® HR Reinforcement geocomposite

Generic Car Park

DESIGN SUGGESTION

Car parks cover quite large areas and are essential to give the public safe access to homes, offices and shopping complexes. Increasingly car parks are being built over poor quality ground and this gives rise to problems of uneven surfaces due to differential settlement

To minimize potential future disruption to car park operations this application suggestion recommends the necessary aggregate thickness and Typar® HR grade based on assumed soil conditions. Further applicable conditions are listed at the bottom of the page.



The above graph is based upon the following assumptions:

- the use of Typar® HR 55/55 as the reinforcement
- recommended overlaps of minimum 40 cm
- the use of crushed rock as aggregate (density 20 kN/m³, internal friction angle 40°, angle of load spread after compaction 40°)
- maximum axle load of 80 kN (single axles): Tyre pressure 600 kPa
- 1,000 axle passes during construction phase, 1,000,000 axle passes during lifetime
- surfacing material asphalt (100mm thick, density 20 kN/m³, angle of load spread 40°)
- rut depth for unpaved situation is 75mm
- prior to installation of asphalt layers, rock fill to be levelled off
- Safety factors for:
 - Surface/granular fill interface: minimum value > 1.1
 - Granular fill/subsoil interface: minimum value > 1.5

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