

Carbon Neutral Assessment and Accreditation

As part of Miles Macadam's commitment to carbon neutrality we have in place a robust carbon reduction plan, whereby each year as an organisation we strive to reduce our carbon emissions through investment & projects such as upgrading our company vehicles to electric and installing a ground source heat pump system for our offices. In addition, we measure our outputs and invest in carbon reduction projects to reduce our emissions further. These are verified and assessed by our environmental consultants Carbon Footprint Limited, who in turn are audited and assessed.

From a supply chain perspective, our Grouted Macadams are less resource intensive than conventional materials. All are warm mix and utilise an open graded receiving course; the warm mix element means the material is heated less intensively while the open graded design of the receiving course yields a greater spread rate per tonne which leads to a saving of 12.5% on raw aggregate used. The liquid grout element of our materials is cold mixed & cold applied thus saving energy. As for the bituminous element, our Asphaltic Grouted Macadam uses significantly less, as the bitumen within the grout inhabits the surface of the material where it is needed to reinforce surface strength, delay oxidation, and prevent water ingress.

Comparison to Conventional Warm Mix Asphalt (based on a 10,000m² scheme):

Aggregate Savings – 125 tonnes

Bitumen Saving – 16.25 tonnes

Overall Carbon Saving – 20.40 tonnes

If the scheme used the conventional warm mix asphalt and a non-carbon neutral organisation, the carbon emissions would be 54.40 tonnes meaning a carbon saving of 37.5% when used against our Asphaltic Grouted Macadam (46.21% saving against a conventional hot mix material).

Assessment of Carbon

As part of our Carbon Assessment, we are assessed on 3 scopes:

Scope 1 – *Direct Emissions* – activities owned or controlled by your organisation that release emissions straight into the atmosphere e.g., manufacturing processes

Scope 2 – *Indirect Emissions* – generated from the consumption of fuels such as electricity, heat, and fuels

Scope 3 – *Indirect Emissions* – generated from transportation of materials from a third party

Accreditation and Assessment:

As a company, we are accredited by Carbon Footprint Limited, who are then audited by:

- QAS (Quality Assurance Standard for Carbon offsetting)
- VCS (Verified Carbon Standard)
- CFS (Carbon Footprint Standard)
- Ricardo-AEA Ltd.

The information that is provided within our calculator is audited by the BBA, ISOQAR and Carbon Footprint Ltd. Our calculations are from verified databases or Organisations – Environment Agency, ICE (Inventory of Carbon and Energy), Circular Ecology, Defra and the All Party Parliamentary Group on Highways, all cross checked with our suppliers information, which is then audited as above. We also have a sensitivity analysis built in by our Assessors. Each year from the findings of assessment, suggestions are made as to how reduce emissions and where to concentrate our efforts and each year is measured against the last for improved performance. In essence we have made a commitment to reduce our emissions year on year and decide on the most beneficial method of offsetting the remainder.

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