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THE USE OF RECYCLED BITUMINOUS FLAT ROOFING SYSTEMS IN HOT ASPHALT MIXES

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ABSTRACT

Sustainable development has introduced considerable change in the UK highway industry due to the need to reduce both the use of virgin raw materials and a reliance on landfill. The use of recycled materials in the UK aggregate market has increased by 50% in the past 10 years. This paper summarises the main types of recycled materials used in highway construction. It then considers a collaborative research project being carried out between the Building Research Establishment, Aggregate Industries and the University of Ulster that is evaluating the use of recycled bituminous flat roofing systems. These are non-inert materials with a potential to pollute and so successful recycling will contribute towards achieving the goal of an integrated and sustainable construction and demolition industry.

KEYWORDS: sustainability, recycling, shingles, asphalt, flat roofing systems