

## Supertrench<sup>®</sup>-footway



Aggregate Industries' research programme into asphalt reinstatement materials has led to the development of our Supertrench<sup>®</sup>-footway system. A permanent hot mix asphalt surface course mixture for use in the reinstatement of flexible footways, footpaths and cycle tracks.

Designed to overcome the installation and specification issues encountered with existing asphalt materials when executing first time permanent reinstatements under the Specification for the Reinstatement of Openings in Highways (SROH)

- The surface course system is designed to be compliant with BS EN13108-1 for asphalt concrete mixtures
- Compatible with the flexible footway reinstatement requirements Method A of SROH
- Reduces issues created by insitu air voids
- Volumetrically designed binder rich surface course optimised to give defined performance characteristics
- Provides high levels of in-service performance demanded from the overseeing authority
- Reduced permeability, extended durability
- CE marked.



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## Volumetric and performance design

Requirements for Supertrench-footway are shown in tables 1 and 2 below.

**Table 1 - Supertrench-footway mixture volumetrics**

Aggregate grading		
Sieve size (mm)	Target composition % passing	Tolerances at target composition (%) BS EN 13108-21
6.3	100	-2 / +0
4	98-100	-8 / +5
2	70-79	± 6
0.125	17-21	± 4
0.063	12-15	± 2

### Binder

Binder, grade	Binder, Bmin	Binder, richness modulus, K
125 or 190pen	8.4%	>= 5.0

Mix Delivery temperature 150 – 170°C

**Table 2 - Supertrench-footway design performance requirements**

Design performance requirements	
Design Void content:	
- maximum	Vmax 4.0
- minimum	Vmin 2.0
Resistance to permanent deformation (small device, procB @ 45°C):	
- max rut depth	RDAIR 5,0
- max wheel tracking slope	WTSAIR 1.00

## Layers

Designed as a combined surface and binder courses in footways from a minimum compacted thickness of 60mm up to a maximum thickness of 80mm in two equal layers.

## Installation

Installation shall follow the procedures given in Aggregate Industries laying guide.

## Aggregate

Mixture: 4mm nominal size.

Chippings: 6, 10 and 14mm nominal size, either 60 or 65 psv.

A range of nominal sized lightly coated chippings explicitly selected to achieve the required surface characteristics of texture, skid resistance and aesthetics.

## Binder

All grades appropriate to the BS/EN mixture selected are available, although it is recommended that the softer grades should be specified to provide maximum workability.

125 or 190 Penetration grade bitumen.

## Applications

- Footways
- Footpaths
- Cycle tracks
- Pedestrian areas.



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## Sustainability and local sourcing

**Energy use:** Aggregate Industries is at the forefront of sustainability and has committed to reduce carbon emissions by 20% by 2016 based on a 2012 base line.

**Recyclable:** 100% of the product can be recycled thus reducing the amount of material that is sent to landfill.

**Manufacturing location:** Produced in the UK, under strict environmental and social legislation.

**Responsible sourcing:** Aggregate Industries is the first company in the world to achieve a BES 6001:2008 Responsible Sourcing Certificate from BRE Global. Products are assessed on:

- quality management
- environmental management
- health and safety management
- greenhouse gas emissions
- minimising raw material usage
- labour practice
- biodiversity
- community engagement.

## Manufacturing standard

All Aggregate Industries' products are manufactured in accordance with ISO 9001 and Highway Sector Scheme 14 with factory compliance to ISO 14001.

## Policies

Aggregate Industries' policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website [www.aggregate.com](http://www.aggregate.com)

## Health and safety: COSHH data

Full COSHH data on asphalt products is available on request. Please call the technical helpline on 0844 557 8396.

## CE Marking

For more information on CE marking please visit: [www.aggregate.com/cemarking](http://www.aggregate.com/cemarking)

## Technical support

Detailed guidance and assistance with the preparation of specification and use of asphalt products is available through the sales office. A free technical service is also available.

**For further information, please refer to our asphalt technical services on 0844 557 8396.**

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