APPROVED SUPPLIERS

INFORMATION BOOKLET

Summer 2025





Introduction

Lincolnshire County Council requires materials used in the construction and maintenance of highways to be from sources that have been approved by the County for such use.

This applies to existing highways that are maintained by the County, new highways constructed by the County and those proposed for adoption by the County.

Lincolnshire County Council's Approved Suppliers Information Booklet "The Approved Suppliers List" details the sources of materials commonly used in highway works in the County.

Suppliers promoting materials for inclusion on the list can contact Lincs Laboratory's Principal Materials Advisor for advice. The Principal Materials Advisor can be contacted at Lincs Laboratory on Lincoln (01522) 530355 and email lincslab@lincolnshire.gov.uk

Contractors wishing to propose a source of material for approval are also advised to make initial contact with Lincs Laboratory's Principal Material Advisor.

Approval for project specific materials is granted by the individuals identified below:

Term Maintenance Works
Major Maintenance Works
County New Build Works
Adoptable Works (Development Roads etc.)

The Service Manager
The Lead Design Engineer
The Project's Materials Manager
The Development Management Officer

August 2021: Based on data gathered over more than 50 years of local sources, we have found that stone solely from the Lincolnshire Limestone formation can rarely be classed as non-frost susceptible. Although, on occasion small quantities of this Oolitic Limestone from the hardest strata are capable of achieving compliance to non-frost susceptible sub-base standards, this is likely to be the exception to the rule. Even with strict Factory Production Control, it is unlikely that ongoing compliance can be achieved due to the geological properties of the material.

Although we have periodically accepted Lincolnshire Limestone sources as non-frost susceptible in the past, the increased scrutiny we apply to these sources due to their known variability often leads to sources being removed from the Approved List after routine monitoring tests. There remains the possibility of the sources being approved as frost susceptible Type 1 sub-base or as 6F5 capping.

Jan 2025: Due to feedback from Environment Agency, we have currently suspended approvals of Incinerator Bottom Ash Aggregates (IBAA). We are working with the EA and Suppliers to resolve this situation and will inform as soon as a resolution is determined.

Spring 2025: PSV and AAV rankings replaced with Aggregate Grade classifications

Summer 2025: Removal of approval listings for limestone aggregates in footway surface course (AC 6 Dense Surf) based on local and national specification requirements.



LINCS LABORATORY INFORMATION APPROVED SUPPLIERS

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FURTHER INFORMATION MAY BE OBTAINED BY CONTACTING THE PRINCIPAL MATERIALS ADVISOR AT LINCS LABORATORY ON (01522) 530355 AND E-MAIL <u>LINCSLAB@LINCOLNSHIRE.GOV.UK</u>.



LINCS LABORATORY INFORMATION APPROVED SUPPLIERS

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AGGREGATES GRADES FOR SURFACE TREATMENTS

Aggregate Grade 6

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Aggregate Industries	Cwm Nant Lleici	Cwm Nant Lleici Gritstone	
Breedon Group	Gilfach	Gritstone	08 - 24
Breedon Group	Tan-Y-Foel	Gritstone	08 - 24
Bryn Group	Bryn	Gritstone	07 - 22
Heidelberg Materials	Craig-Yr-Hesg	Gritstone	03 - 15
Tarmac Ltd	Hafod	Gritstone	02 - 12

Aggregate Grade 5

SUPPLIER	AGGREGATE SOURCE AC		DATE	
Breedon Group (White Mountain Aggregates Ltd)	Ballystockart	Gritstone	08 - 24	
Colliers	Goat Hill	Dolerite	09 - 21	

Aggregate Grade 4

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Aggregate Industries	Haughmond Hill	Gritstone	08 - 24
Aggregate Industries	Ghyll Scaur	Tuff	02 - 25
Breedon Group	Roan Edge Quarry	Gritstone	08 - 24
Breedon Group	Barbae Quarry	Gritstone	02 - 19
Breedon Group	Temple Quarry	Gritstone	09 - 05
(White Mountain Aggregates Ltd)			
Aggregate Industries (Conexpo)	(Conexpo) Doran's Rock Gritstone		08 - 24
Hull Asphalt	NSE Frøysjøvegen Greywacke		09 - 21
Steelphalt, Rotherham	Ickles Rotherham	EAF Carbon Steel Slag	01 - 18
Tarmac Ltd	Arcow Quarry	Gritstone	01 - 20
Tarmac Ltd	Bayston Hill Quarry	Gritstone	02 - 19
Tarmac Ltd	Dolyhir Quarry	Gritstone	01 - 16
Tarmac Ltd	Dry Rigg Quarry	Gritstone	01 - 20
Tarmac Ltd	Mancetter Quarry	Basalt	02 - 20
Tarmac Ltd	The Gore Quarry	Gritstone	04 - 25
Heidelberg Materials	Ingleton	Gritstone	01 - 24

Aggregate Grade 4 or above shall be used for coated chippings in HRA S/C.



Aggregate Grade 3

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Aggregate Industries	Bardon Hill	Granite	08 - 24
Aggregate Industries	Croft	Granite	09 - 18
Breedon Group	High Force/Middleton	Granite	02 - 24
Breedon Group	Leaton	Leaton Dolerite	
Heidelberg Materials	Criggion	Gritstone	08 - 02
MQP	Cliffe Hill	Granite	11 - 18
Steelphalt	Jelsa – Norway	Granite	04 - 21
Steelphalt	Rotherham	Rotherham EAFS Steel Slag	
Tarmac Ltd	Santon	Steel Slag	02 - 20
Steelphalt	Scunthorpe	BOS Steel Slag	02 - 21

Aggregate Grade 2

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Tarmac Ltd	Mountsorrel	Granite	02 - 20
Stacey Asphalt	Ex Network Rail	Granite	05 - 25

Aggregate Grade 1

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Tarmac Ltd	Swinden	Limestone	05 - 24

Aggregate Grade 0

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE	
Tarmac Ltd	Earith	Pt Crushed Gravel	05 - 04	
Tarmac Ltd	Langford	Pt Crushed Gravel	09 - 15	
Tarmac Ltd	Longham	Pt Crushed Gravel	-	
Tarmac Ltd	Dowlow	Limestone	07 - 22	
Cemex	Dove Holes	Limestone	08 - 24	
Tarmac Ltd	Tunstead	Limestone	08 - 23	
Breedon Group	Cloud Hill	Limestone	04 - 25	

Aggregate Grades 0 & 1 are not suitable for carriageway or footway surfacing with the exception of crushed gravel which can be used for aesthetic purposes only.

Aggregate Grade 2 or greater shall be used for footway surfacing.

Aggregate Grade 4 or above shall be used for coated chippings in HRA S/C.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1

20mm DENSE BINDER COURSE (AC 20 DENSE BIN)

SUPPLIER – BATCHING	COARSE AGG SOURCE / TYPE ²	FINE AGG SOURCE /	BINDER GRADE (1)	Aggregate Grade	Warm Mix Available	DATE
Aggregate Industries –	Bardon Hill –	Bardon Hill –	40/60	3	✓	02 - 21
Bardon Hill	Granite	Granite				
00 0	Bardon Hill –	Bardon Hill –	100/150	3	✓	02 - 21
Bardon Hill	Granite	Granite				
Aggregate Industries – Newark	Bardon Hill – Granite	Bardon Hill – Granite Woodhall Spa – Sand	40/60	3	√	02 - 21
Aggregate Industries – Newark	Bardon Hill – Granite	Bardon Hill – Granite Woodhall Spa – Sand	100/150	3	√	02 - 21
Aggregate Industries – Peterborough	Bardon Hill – Granite	Haughmond Hill – Greywacke Pode Hole – Sand	40/60	3	√	02 - 21
00 0	Bardon Hill – Granite	Haughmond Hill – Greywacke Pode Hole – Sand	100/150	3	√	02 - 21
Aggregate Industries – Peterborough	Bardon Hill – Granite	Bardon Hill – Granite	40/60	3	√	05 - 24
Aggregate Industries – Sheffield	Bardon Hill – Granite	Bardon Hill – Granite	40/60	3	√	04 - 25
Breedon Group – Grimsby	Dove Holes – Limestone	Tattershall – Sand Middleton – Basalt	40/60	0	√	09 - 21
Breedon Group – Grimsby	Dove Holes – Limestone	Tattershall – Sand Middleton – Basalt	100/150	0	√	09 - 21
Breedon Group – Grimsby	Roan Edge – Gritstone	Tattershall – Sand Middleton – Basalt	40/60	4	√	03 - 22
	Roan Edge – Gritstone	Tattershall – Sand Middleton – Basalt	100/150	4	√	03 - 22
Breedon Group –	Cloud Hill –	Cloud Hill –	40/60	_	√	02 - 21
Mansfield, Corby, Cloud Hill		Limestone				
· ·	Cloud Hill –	Cloud Hill –	100/150	-	✓	02 - 21
Mansfield, Corby, Cloud Hill		Limestone				
· ·	Leaton –	Leaton –	40/60	3	✓	02 - 21
Mansfield, Corby, Cloud Hill		Dolerite				
Breedon Group – Mansfield, Corby, Cloud Hill	Leaton – Dolerite	Leaton – Dolerite	100/150	3	✓	02 - 21

- 1. 100/150 pen AC 20 Dense Bin is not suitable for use on the carriageway.
- 2. All mixes have permission to use up to 20% Recycled Asphalt Planings (RAP).
- 3. Sources with aggregate grade 0 & 1 are not suitable for carriageway surface course.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 20mm DENSE BINDER COURSE (AC 20 DENSE BIN) continued

SUPPLIER – BATCHING PLANT	COARSE AGG SOURCE / TYPE ²	FINE AGG SOURCE / TYPE	BINDER GRADE (1)	Aggregate Grade	Warm Mix	DATE
PLANT	SOURCE / TTPE	ITPE	GRADE	Grade	Available	
Cemex –	Dove Holes -	Bardon Hill –	40/60	0		04 - 25
Lincoln	Limestone	Granite				
Cemex –	Dove Holes -	Bardon Hill –	PMB	0		04 - 25
Lincoln	Limestone	Granite				
Cemex –	Dove Holes -	Bardon Hill – Granite	40/60	0	✓	04 – 25
Lincoln	Limestone	West Deeping or Swinderby - Sand				
Cemex –	Dove Holes -	Bardon Hill – Granite	100/150	0	✓	04 - 25
Lincoln	Limestone	West Deeping or Swinderby - Sand				
Cemex –	Bardon Hill –	Bardon Hill –	40/60	3		04 – 25
Lincoln	Granite	Granite				
Cemex –	Bardon Hill –	Bardon Hill – Granite	100/150	3		04 - 25
Lincoln	Granite	West Deeping or Swinderby - Sand				
Cemex –	Bardon Hill –	Swinderby –	100/150	3		04 - 25
Nottingham	Granite	Asphalt Sand				
Cemex –	Dove Holes -	Dove Holes -	40/60	0	✓	04 - 25
Selby	Limestone	Limestone				
Cemex –	Dove Holes -	Dove Holes -	100/150	0	✓	04 – 25
Selby	Limestone	Limestone				
Cemex –	High Force –	Dove Holes -	40/60	3		04 – 25
Selby	Granite	Limestone				
Cemex –	High Force –	Dove Holes -	100/150	3		04 – 25
Selby	Granite	Limestone				
Cemex –	High Force –	High Force –	40/60	3		04 – 25
Selby	Granite	Granite				
Cemex –	High Force –	High Force –	100/150	3		04 – 25
Selby	Granite	Granite				
Chesterfield Asphalt –	Dowlow –	Dowlow –	40/60	0	✓	07-25
Chesterfield	Limestone	Limestone				
Chesterfield Asphalt –	Dowlow –	Dowlow –	100/150	0	✓	07-25
Chesterfield	Limestone	Limestone				
Chesterfield Asphalt –	Granite –	Limestone –	40/60	3	✓	07-25
Chesterfield	Bardon Hill	Dowlow				
Chesterfield Asphalt –	Granite –	Limestone –	100/150	3	✓	07-25
Chesterfield	Bardon Hill	Dowlow				
Hull Asphalt –	NSE Frøysjøvegen –	, , ,	40/60	4		09-21
Hull	Greywacke	Greywacke				
Hull Asphalt –	NSE Frøysjøvegen –	, , ,	100/150	4		09-21
Hull	Greywacke	Greywacke				

- 1. 100/150 pen AC 20 Dense Bin is not suitable for use on the carriageway.
- 2. All mixes have permission to use up to 20% Recycled Asphalt Planings (RAP).
- 3. Sources with aggregate grade 0 & 1 are not suitable for carriageway surface course.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 20mm DENSE BINDER COURSE (AC 20 DENSE BIN) continued

SUPPLIER – BATCHING	COARSE AGG	FINE AGG SOURCE /	BINDER	Aggregate	Warm Mix	DATE
PLANT	SOURCE / TYPE ²	TYPE	GRADE (1)	Grade	Available	
MQP – Baston Fen, St Ives,	Cliffe Hill –	Baston Fen –	40/60	3		02 - 21
Northampton, Cliffe Hill	Granite	Sand				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Baston Fen –	100/150	3		02 - 21
Northampton, Cliffe Hill	Granite	Sand				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Cliffe Hill –	40/60	3		02 - 21
Northampton, Cliffe Hill	Granite	Granite				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Cliffe Hill –	100/150	3		02 - 21
Northampton, Cliffe Hill	Granite	Granite				
Steelphalt –	Dove Holes –	Dove Holes –	40/60	0		04 - 25
Rotherham	Limestone	Limestone				
Steelphalt –	Dove Holes –	Dove Holes –	100/150	0		04 - 25
Rotherham	Limestone	Limestone				
Tarmac –	Mountsorrel –	Mountsorrel –	40/60	2		07 - 25
Birmingham	Granite	Granite				
	Bayston Hill –					
	Gritstone					
Tarmac –	Mountsorrel –	Mountsorrel –	40/60	2	✓	04 - 25
Elstow	Granite	Granite				
		Broom South –				
		Asphalt Sand				
Tarmac –	Mountsorrel –	Mountsorrel –	100/150	2	✓	04 - 25
Elstow	Granite	Granite				
		Broom South –				
		Asphalt Sand				
Tarmac –	Swinden –	Swinden –	40/60	1	✓	02 - 21
Hull	Limestone	Limestone				
Tarmac –	Swinden –	Swinden –	100/150	1	✓	02 - 21
Hull	Limestone	Limestone				
Tarmac –	Mountsorrel –	Mountsorrel –	40/60	2	✓	04 - 25
Mountsorrel (SH)	Granite	Granite				
Tarmac –	Mountsorrel –	Mountsorrel –	40/60	2	✓	04 - 25
Mountsorrel (KVM)	Granite	Granite				
Tarmac –	Mountsorrel –	Mountsorrel –	100/150	2	✓	04 - 25
Mountsorrel (KVM)	Granite	Granite				
Stacey Asphalt –	Recycled Granite –	Recycled Granite –	40/60		✓	05 - 25
Wirksworth	Ex Network Rail	Ex Network Rail				
Stacey Asphalt –	Recycled Granite –	Recycled Granite –	40/60		✓	05 - 25
Wirksworth	Ex Network Rail	Ex Network Rail				

- 1. 100/150 pen AC 20 Dense Bin is not suitable for use on the carriageway.
- 2. All mixes have permission to use up to 20% Recycled Asphalt Planings (RAP).
- 3. Sources with aggregate grade 0 &1 are not suitable for carriageway surface course.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 20mm DENSE BINDER COURSE (AC 20 DENSE BIN) continued

SUPPLIER – BATCHING PLANT	COARSE AGG SOURCE / TYPE ²	FINE AGG SOURCE / TYPE	BINDER GRADE (1)	Aggregate Grade	Warm Mix Available	DATE
Tarmac –	Arcow – Gritstone	Arcow – Gritstone	40/60	4	✓	05 - 24
Santon	Santon – Steel Slag	Santon – Steel Slag				
Tarmac –	Swinden –	Arcow – Gritstone	40/60	1	√	05 - 24
Santon	Limestone	Santon – Steel Slag				
Tarmac –	Swinden –	Arcow – Gritstone	100/150	1	✓	05 - 24
Santon	Limestone	Santon – Steel Slag				
Tillicoultry Quarries –	Dowlow –	Dowlow –	40/60	0		07 - 22
Ely	Limestone	Limestone				

- 1. 100/150 pen AC 20 Dense Bin is not suitable for use on the carriageway.
- 2. All mixes have permission to use up to 20% Recycled Asphalt Planings (RAP).
- 3. Sources with aggregate grade 0 &1 are not suitable for carriageway surface course.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 10mm CLOSE GRADED SURFACE COURSE (AC 10 CLOSE SURF)

SUPPLIER – BATCHING	COARSE AGG	FINE AGG SOURCE /	BINDER	Aggregate	Warm Mix	DATE
PLANT	SOURCE / TYPE	TYPE	GRADE	Grade	Available	
Aggregate Industries –	Bardon Hill –	Bardon Hill –	100/150	3		02 - 21
Bardon Hill	Granite	Granite				
Aggregate Industries –	Bardon Hill –	Bardon Hill – Granite	100/150	3		02 - 21
Newark	Granite	Woodhall Spa – Sand				
Aggregate Industries –	Bardon Hill –	Haughmond Hill –	100/150	3		02 - 21
Peterborough	Granite	Greywacke				
Aggregate Industries –	Bardon Hill –	Bardon Hill –	100/150	3		02 - 25
Sheffield	Granite	Granite				
Breedon Group –	Roan Edge –	Tattershall –	100/150	4		06 - 21
Grimsby	Gritstone	Sand				
Breedon Group –	Leaton –	Leaton –	100/150	3		02 - 21
Mansfield, Corby, Cloud Hill	Dolerite	Dolerite				
Cemex –	Bremanger –	Bardon Hill – Granite	100/150	_		04 - 25
Lincoln	Granite	West Deeping or Swinderby -				
C	Dondon Hill	Sand Bardon Hill –	100/150	2		04 25
Cemex –	Bardon Hill –	Granite	100/150	3		04 - 25
Lincoln	Granite	West Deeping or Swinderby - Sand				
Cemex –	Roan Edge –	Bardon Hill –	100/150	4		04 - 25
Lincoln	Gritstone	Granite West Deeping or Swinderby - Sand	·			
Cemex –	Bardon Hill –	Swinderby –	100/150	3		04 - 25
Nottingham	Granite	Sand				
Cemex –	Bremanger –	High Force –	100/150	-		04 - 25
Selby	Granite	Granite				
Cemex –	High Force –	Dove Holes –	100/150	3		04 - 25
Selby	Granite	Limestone				
Cemex –	High Force –	High Force –	100/150	3		04 - 25
Selby	Granite	Granite				
Chesterfield Asphalt –	Bardon Hill –	Dowlow –	70/100	3	✓	07-25
Chesterfield	Granite	Limestone				
Chesterfield Asphalt –	Bardon Hill –	Dowlow –	100/150	3	✓	07-25
Chesterfield	Granite	Limestone				
Hull Asphalt –	NSE Frøysjøvegen –	NSE Frøysjøvegen –	100/150	4		09 - 21
Hull	Greywacke	Greywacke				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Baston Fen –	100/150	3		02 - 21
Northampton, Cliffe Hill	Granite	Sand				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Baston Fen –	70/100	3		02 - 21
Northampton, Cliffe Hill	Granite	Sand				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Cliffe Hill –	100/150	3		02 - 21
Northampton, Cliffe Hill	Granite	Granite				
MQP – Baston Fen, St Ives,	Cliffe Hill –	Cliffe Hill –	70/100	3		02 - 21
Northampton, Cliffe Hill	Granite	Granite				
Stacey Asphalt –	Recycled Granite –	Recycled Granite –	100/150	2	√	05 - 25
Wirksworth	Ex Network Rail	Ex Network Rail				



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 continued

10mm CLOSE GRADED SURFACE COURSE (AC 10 CLOSE SURF)

SUPPLIER – BATCHING	COARSE AGG	FINE AGG SOURCE /	BINDER	Aggregate	Warm Mix	DATE
PLANT	SOURCE / TYPE	TYPE	GRADE	Grade	Available	
Steelphalt –	Jelsa, Norway –	Jelsa, Norway –	70/100	3		04 – 25
Rotherham	Granite	Granite				
Steelphalt –	Jelsa, Norway –	Jelsa, Norway –	100/150	3		04 - 25
Rotherham	Granite	Granite				
Steelphalt –	Roan Edge –	Roan Edge –	70/100	4		04 – 25
Rotherham	Gritstone	Gritstone				
Steelphalt –	Roan Edge –	Roan Edge –	100/150	4		04 - 25
Rotherham	Gritstone	Gritstone				
Steelphalt –	Rotherham –	Rotherham –	70/100	3		04 - 25
Rotherham	EAF S Steel Slag	EAF S Steel Slag				
Steelphalt –	Rotherham –	Rotherham –	100/150	3		04 - 25
Rotherham	EAF S Steel Slag	EAF S Steel Slag				
Steelphalt –	Rotherham –	Rotherham –	70/100	4		04 - 25
Rotherham	EAF C Steel Slag	EAF C Steel Slag				
Steelphalt –	Rotherham –	Rotherham –	100/150	4		04 - 25
Rotherham	EAF C Steel Slag	EAF C Steel Slag				
Tarmac –	Gore –	Mountsorrel –	70/100	-		04 - 25
Elstow	Gritstone	Granite				
		Broom South –				
		Asphalt Sand				
Tarmac –	Gore –	Mountsorrel –	100/150	-		04 - 25
Elstow	Gritstone	Granite				
		Broom South –				
		Asphalt Sand				
Tarmac –	Santon –	Santon –	100/150	3		02 - 21
Hull	Steel Slag	Blended Slag				
Tarmac –	Bayston Hill –	Mountsorrel –	70/100	4		05 -24
Mountsorrel (KVM)	Gritstone	Granite				
Tarmac –	Bayston Hill –	Mountsorrel –	100/150	4	✓	05 -24
Mountsorrel (KVM)	Gritstone	Granite				
Tarmac –	Santon –	Santon Steel	100/150	3		05 -24
Santon	Steel Slag	Slag/Arcow				
		Gritstone				



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 6mm DENSE SURFACE COURSE (AC 6 DENSE SURF)

	COARSE AGG SOURCE / TYPE	FINE AGG SOURCE /	BINDER GRADE	Aggregate Grade	Warm Mix Available	DATE
Aggregate Industries – Bardon Hill	Bardon Hill – Granite	Bardon Hill – Granite	100/150	3		02 - 21
Aggregate Industries – Newark	Bardon Hill – Granite	Bardon Hill – Granite Woodhall Spa – Sand	100/150	3		02 - 21
Aggregate Industries – Peterborough	Bardon Hill – Granite	Bardon Hill – Granite Pode Hole – Sand	100/150	3		02 - 21
Aggregate Industries – Sheffield	Bardon Hill – Granite	Bardon Hill – Granite Pode Hole – Sand	100/150	3		02 - 25
Breedon Group – Grimsby	Roan Edge – Gritstone	Tattershall – Asphalt Sand Middlestone – Dust	100/150	4		11 - 21
Breedon Group* – Mansfield, Corby, Cloud Hill	Leaton – Dolerite	Leaton – Dolerite	100/150	3		07-25
Cemex – Lincoln	Roan Edge – Gritstone	Bardon Hill – Granite West Deeping or Swinderby - Sand	100/150	4		04 - 25
Cemex – Lincoln	Bardon Hill - Granite	Bardon Hill – Granite West Deeping or Swinderby - Sand	100/150	3		04 – 25
Cemex – Nottingham	Bardon Hill – Granite	Swinderby – Asphalt Sand	100/150	3		04 – 25
Cemex – Selby	High Force – Granite	Dove Holes – Limestone	100/150	3		04 – 25
Cemex – Selby	High Force – Granite	High Force – Granite	100/150	3		04 – 25
Chesterfield Asphalt – Chesterfield	Granite – Bardon Hill	Limestone – Dowlow	70/100	3	√	07-25
Chesterfield Asphalt – Chesterfield	Granite – Bardon Hill	Limestone – Dowlow	100/150	3	√	07-25

^{*} New mixes being developed; this entry will be updated in a future issue.



RECIPE MIX ASPHALT CONCRETE IN ACCORDANCE WITH BS EN 13108-1 6mm DENSE SURFACE COURSE (AC 6 DENSE SURF)

SUPPLIER – BATCHING PLANT		FINE AGG SOURCE / TYPE	BINDER GRADE	Aggregate Grade	Warm Mix Available	DATE
MQP – Baston Fen, St Ives, Northampton, Cliffe Hill	Cliffe Hill – Granite	Baston Fen – Sand	100/150	3		2-21
MQP – Baston Fen, St Ives, Northampton, Cliffe Hill	Cliffe Hill – Granite	Cliffe Hill – Granite	100/150	3		2-21
Stacey Asphalt – Wirksworth	Recycled Granite – Ex Network Rail	Recycled Granite – Ex Network Rail	100/150	2	✓	05 - 25
Steelphalt – Rotherham	Jelsa, Norway – Granite	Jelsa, Norway – Granite	70/100	3		04 – 25
Steelphalt – Rotherham	Jelsa, Norway – Granite	Jelsa, Norway – Granite	100/150	3		04 - 25
Steelphalt – Rotherham	Rotherham – EAF C Steel Slag	Rotherham – EAF C Steel Slag	70/100	4		04 – 25
Steelphalt – Rotherham	Rotherham – EAF C Steel Slag	Rotherham – EAF C Steel Slag	100/150	4		04 - 25
Tarmac – Hull		Santon – Blended Slag	100/150	3		2-21
Tarmac – Mountsorrel (KVM)	Mountsorrel – Granite	Mountsorrel – Granite	100/150	2		04 - 25
Tarmac – Santon		Santon Steel Slag/Arcow Gritstone	100/150	3		05 -24

Aggregate Grades 0 & 1 are not suitable for carriageway or footway surfacing with the exception of crushed gravel which can be used for aesthetic purposes only.



DESIGN ASPHALT IN ACCORDANCE WITH BS EN 13108-4 LCC HIGH STIFFNESS MIXES 30% 14mm Designation (HRA 30/14 F Surf PMB des)

Mixes meeting Wheel Tracking Class 2 when tested in accordance with BS EN 12697-22 small device procedure A at 60°C shall have a maximum wheel tracking rate WTR_{AIR} 12.5 and a maximum rut depth of RD_{AIR} 7.0. These requirements apply over the permitted binder and filler contents tolerance range.

Mixes meeting LCC High Stiffness Mix requirements can also be considered suitable LCC Special Mixes and LCC Standard Mixes.

PLANT	FINE AGGREGATE	COARSE AGGREGATE	ADDITIVE / MODIFIER	WHEEL TRACKING COMPLIANCE CLASSIFICATION	TEST DATE
Aggregate Industries – Peterborough	Two Oaks – Sand	Bardon Hill - Granite	pmb	2	01 - 22
Breedon Group – Cloud Hill	Two Oaks – Sand	Leaton – Dolerite	pmb	2	02 - 22
Breedon Group – Corby	Two Oaks – Sand	Leaton – Dolerite	pmb	2	02 - 22
Breedon Group – Mansfield	Two Oaks – Sand	Leaton – Dolerite	pmb	2	02 - 22
CEMEX – Lincoln	Two Oaks – Sand	Cliffe Hill – Granite	pmb	2	04 - 25
CEMEX – Selby	75% Austerfield 25% High Force Granite	High Force – Granite	pmb	2	02 - 22
HARSCO Metals Group Limited/ Steelphalt – Rotherham	Austerfield – Sand	Steelphalt – EAF C Steel Slag	pmb	2	01 - 22
MQP – Baston Fen	Two Oaks – Sand	Cliffe Hill – Granite	pmb	2	02 - 22
MQP – Cliffe Hill	Two Oaks – Sand	Cliffe Hill – Granite	pmb	2	02 - 22
MQP – St Ives	Two Oaks – Sand	Cliffe Hill – Granite	pmb	2	02 - 22
Tarmac Ltd – Mountsorrel	75% Bestwood Sand 25% Mountsorrel Granite	Mountsorrel – Granite	pmb	2	01 - 22
Tarmac Ltd – Santon	Thrislington	Arcow	pmb	2	09 - 20
Tarmac Ltd – Santon	Thrislington	Santon – Steel Slag	pmb	2	09 - 21



DESIGN ASPHALT IN ACCORDANCE WITH BS EN 13108-4 LCC SPECIAL MIXES 30% 14mm Designation (HRA 30/14 F Surf 40/60 des)

The mix shall have a minimum stability of 8kN at the design binder content and a stability greater than 6kN at any point (BS 594987 Annex H), or a maximum wheel tracking rate of 5,0 μ m / cycle (WTR Air 5,0) and a maximum rut depth of 3,0mm (Rd Air 3,0) when tested at 45°C to BS EN 12697-22 small device procedure A, and a stability greater than 6kN at any point. These requirements apply over the permitted binder and filler contents tolerance range.

The maximum permitted flow is 5mm except where stability exceeds 8Kn when the maximum permitted flow becomes 7mm. Mixes meeting LCC Special Mix requirements can also be considered suitable LCC standard mixes.

PLANT	FINE AGGREGATE	COARSE AGGREGATE	ADDITIVE / MODIFIER	WHEEL TRACKING COMPLIANCE CLASSIFICATION (1)	TEST DATE
Aggregate Industries – Bardon Hill	Two Oaks – Sand	Bardon Hill – Granite	-	-	01 - 22
Breedon Group – Cloud Hill	Two Oaks – Sand	Leaton – Dolerite	-	1	02 - 22
Breedon Group – Corby	Two Oaks – Sand	Leaton – Dolerite	-	1	02 - 22
Breedon Group – Mansfield	Two Oaks – Sand	Leaton – Dolerite	-	1	02 - 22
CEMEX – Lincoln	Two Oaks – Sand	Roan Edge – Gritstone	-	1	04 – 25
CEMEX – Lincoln	Two Oaks – Sand	Cliffe Hill – Granite	-	1	04 - 25
CEMEX – Selby	75% Austerfield 25% High Force Granite	High Force – Granite	-	1	02 - 22
HARSCO Metals Group Limited/ Steelphalt – Rotherham	Austerfield – Sand	Steelphalt – Steel Slag	-	1	01 - 22
MQP – Baston Fen	Two Oaks – Sand	Cliffe Hill – Granite	-	1	02 - 22
MQP – Cliffe Hill	Two Oaks – Sand	Cliffe Hill – Granite	-	1	02 - 22
MQP – St Ives	Two Oaks – Sand	Cliffe Hill – Granite	-	1	02 - 22
Tarmac Ltd – Mountsorrel	75% Bestwood 25% Mountsorrel Granite	Mountsorrel – Granite	-	1	01 - 22
Tarmac Ltd – Santon/Cross Green/Hull/Ackworth	Thrislington	Arcow/Dry Rigg	-	1	06 - 20
Tarmac Ltd – Santon	Thrislington	Santon – Steel Slag	-	1	09 - 21

⁽¹⁾ Mixes meeting the Special Mix wheel tracking requirements are identified by the number 1 in the Wheel Tracking Compliance Classification Column.



DESIGN ASPHALT IN ACCORDANCE WITH BS EN 13108-4

LCC STANDARD MIX 30% 14mm Designation (HRA 30/14 F surf 40/60 des)

The mix must have a minimum stability of 6kN at the design binder content (BS 594987 Annex H) and a stability greater than 4kN at any point over the permitted binder and filler tolerance content ranges. The maximum permitted flow is 5mm.

PLANT	FINE AGGREGATE	COARSE AGGREGATE	ADDITIVE/ MODIFIER	TEST DATE
Aggregate Industries – Bardon	Two Oaks – Sand	Bardon Hill – Granite	-	10 - 24
Aggregate Industries – Peterborough	Two Oaks – Sand	Bardon Hill – Granite	-	10 - 24
Breedon Group – Corby	Potton Quarry – Sand	Leaton – Dolerite	-	05 - 22
MQP – Baston Fen	Two Oaks – Sand	Cliffe Hill – Granite	-	02 - 22
MQP – Cliffe Hill	Two Oaks – Sand	Cliffe Hill – Granite	-	02 - 22
MQP – St Ives	Two Oaks – Sand	Cliffe Hill – Granite	-	02 - 22



DESIGN ASPHALT IN ACCORDANCE WITH BS EN 13108-4

LCC 55% STONE CONTENT SURFACE COURSE 55% 10 Type F or C Designation (HRA 55/10 F or C surf 40/60 des)

For use only as the substrate for High Friction Surface treatments or as a "Hot Box" Patching or Pothole Repair Material

The mix shall have a minimum stability of 10kN at the design binder content (BS 594987 Annex H), or a maximum wheel tracking rate when tested to BS EN 12697-22 small device procedure A at 60° C, of WTR_{AIR}12,5 and a maximum Rut Depth RD_{AIR}7,0 and have a stability greater than 8kN at any point and have a maximum permitted flow of 5mm. The above performance requirements shall be met over the permitted binder and filler contents tolerance range.

PLANT	FINE AGGREGATE	COARSE AGGREGATE	DATE
Aggregate Industries – Bardon Hill	Two Oaks – Sand	Bardon Hill – Porphry	01 - 22
Breedon Group – Cloud Hill	Two Oaks – Sand	Tan-Y-Foel, Gritstone	02 - 22
Breedon Group – Corby	Two Oaks – Sand	Tan-Y-Foel, Gritstone	02 - 22
Breedon Group – Mansfield	Two Oaks – Sand	Tan-Y-Foel, Gritstone	02 - 22
Breedon Group – Cloud Hill	Two Oaks – Sand	Leaton – Dolerite	02 - 22
Breedon Group – Corby	Two Oaks – Sand	Leaton – Dolerite	02 - 22
Breedon Group – Mansfield	Two Oaks – Sand	Leaton – Dolerite	02 - 22
Cemex – Lincoln	Two Oaks – Sand	Cliffe Hill – Granite	04 – 25
Cemex – Lincoln	Two Oaks – Sand	Roan Edge - Gritstone	04 - 25
Cemex – Selby	Austerfield – Sand	Gilfach – Gritstone	02 - 22
Cemex – Selby	High Force – Granite	Gilfach – Gritstone	02 - 22
Chesterfield Asphalt - Chesterfield	Dowlow - Limestone	Bardon Hill - Granite	07 - 25
Tarmac Ltd – Mountsorrel	Bestwood – Sand Mountsorrel – Granite	Mountsorrel – Granite	01 - 22

Note: 55% Stone content 10mm Hot Rolled Asphalt Surface Course when used as patching or pothole repair material shall only be used when transported in and discharged from a hot box asphalt transport and storage facility.

The plants listed above are approved for the production of design surface course asphalt. Approved Suppliers List, pages 12-14, gives details of those plants approved for the production of asphalt concretes.



STONE MASTIC ASPHALT SURFACE COURSES

'Lincolnshire has moved to specifying Stone Mastic Asphalt (SMA) Surface Course instead of proprietary Thin Surface Course Systems. Advice on suitable SMA's shall be obtained from Lincs Laboratory prior to their use.



SURFACE DRESSING CHIPPINGS

Aggregate Grade 5

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Colliers	Goat Hill	Dolerite	09 - 21

Aggregate Grade 4

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Aggregate Industries	Haughmond Hill	Gritstone	08 - 24
Aggregate Industries	Ghyll Scaur	Tuff	02 - 25
Colliers	Goat Hill	Dolerite	09 - 21
Tarmac Ltd	Arcow Quarry	Gritstone	01 - 20
Tarmac Ltd	Bayston Hill Quarry	Gritstone	02 - 19
Tarmac Ltd	Dolyhir Quarry	Gritstone	01 - 16
Heidelberg Materials	Ingleton	Gritstone	01 - 24

Aggregate Grade 3

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Aggregate Industries	Bardon Hill	Granite	08 - 24
Aggregate Industries	Croft	Granite	09 - 18
Breedon Group	Leaton	Dolerite	09 - 15
Heidelberg Materials	Criggion	Gritstone	08 - 02
MQP	Cliffe Hill	Granite	11 - 18
Tarmac Ltd	Santon	Steel Slag*	02 - 20

^{* 2.8/6.3}mm or 6.3/10mm Steel Slag only

See LCC Code of Practice for Highway Works or contact Lincs Laboratory.

NB: This list is not definitive. If any further sources are known/wish to be used, please contact the Laboratory.

Aggregate Grade 0

SUPPLIER	AGGREGATE SOURCE	AGGREGATE	DATE
Tarmac Ltd	Earith	Pt Crushed Gravel	05 - 04
Tarmac Ltd	Langford	Pt Crushed Gravel	09 - 15
Tarmac Ltd	Longham	Pt Crushed Gravel	-

⁽¹⁾ Due to its relative softness, blast furnace slag from Santon is not an appropriate surface dressing aggregate to use on more heavily trafficked roads.



NON FROST SUSCEPTIBLE TYPE 1 SUB-BASE (SUPPLIERS A - M)

SUPPLIER	AGGREGATE TYPE	QUARRY/SOURCE	TYPE 3 ⁽¹⁾ SUB-BASE (OPEN GRADED)	DATE
Aggregate Industries	Granite	Bardon Hill	٧	07 – 23
Aggregate Industries – Woodhall Spa	70% Bardon Hill Granite / 30% Manufactured Limestone	Woodhall Spa Quarry		01 - 24
AMS Build Ltd	Recycled	Saxilby	-	03 - 25
Ashcourt Group Lincolnshire	Limestone	Manton Quarry	-	01 - 25
Brauncewell Quarries	Crushed Concrete/Brick	Brauncewell	-	10 - 18
Brauncewell Quarries	Recycled / Granite dust	Brauncewell	-	10 - 24
Brauncewell Quarries	Recycled / Limestone dust	Brauncewell	-	11 – 24
Breedon Group	Limestone	Cloud Hill	-	01 - 25
Breedon Group	Limestone	Holme Hall Stainton	٧	02 - 25
Breedon Group	Limestone	Ashwood Dale ³	-	02 - 25
Breedon Group	Limestone	Dowlow	-	02 - 25
CEMEX Materials UK Ltd	Limestone	Dove Holes	-	05 - 23
GBM Waste Management	Crushed Concrete/Brick	South Hykeham	-	07 – 25
G S Hughes	Crushed Concrete	Harmston	-	10 - 18
Hargreaves Environmental	Recycled Aggregate	North Hykeham	-	07 - 24
Heidelberg Materials	Granite	Cliffe Hill	٧	09 - 23
Heidelberg Materials	Granite	Whitwick	-	02 - 25
Longwoods Quarry Ltd	Crushed Concrete	Blankney	-	11 - 20
Marshalls	Limestone	Stainton	-	01 - 25
Minster Surfacing Ltd	Crushed Concrete	Minster HQ	-	12 - 21

Note:

- (1) Non Frost Susceptible Type 1 Sub-Base Approved Source Extended to Include Type 3 Sub-Base (Open Graded) for use in Development Road Permeable Pavements Only.
- (2) Based on data gathered over more than 50 years of local sources, we have found that stone solely from the Lincolnshire Limestone formation can rarely be classed as non-frost susceptible. Although, on occasion small quantities of this Oolitic Limestone from the hardest strata are capable of achieving compliance to non-frost susceptible sub-base standards, this is likely to be the exception to the rule. Even with strict Factory Production Control, it is unlikely that on-going compliance can be achieved due to the geological properties of the material. Although we have periodically accepted Lincolnshire Limestone sources as non-frost susceptible in the past, the increased scrutiny we apply to these sources due to their known variability often leads to sources being removed from the Approved List after routine monitoring tests. There remains the possibility of the sources being approved as frost susceptible Type 1 sub-base or as 6F5 capping.
- (3) This is also available from Total Aggregates (Boston Railhead)



NON FROST SUSCEPTIBLE TYPE 1 SUB-BASE (SUPPLIERS N – Z)

SUPPLIER	AGGREGATE TYPE	QUARRY/SOURCE	TYPE 3 ⁽¹⁾ SUB-BASE (OPEN GRADED)	DATE
Overhall	Blast Furnace Slag	Scunthorpe	٧	10 - 24
P J Thory Ltd	Crushed Concrete (Hoveringham)	Coates, Peterborough	-	03 - 25
P J Thory Ltd	Recycled Rail Ballast	Coates, Peterborough	٧	07 - 25
Tarmac Ltd	Limestone	Whitwell	٧	05 - 23
Tarmac Ltd	Granite	Mountsorrel	-	06 - 25
Tarmac Ltd	Blast Furnace Slag	Santon Works, Scunthorpe	٧	06 - 22
Tarmac Ltd	Limestone	Tunstead	-	05 - 23
Tarmac Ltd	Limestone	Swinden	-	11 - 23
Tarmac Ltd	Limestone	Hindlow	-	06 - 21
Tarmac Ltd	Limestone	Harrycroft	-	06 - 24
Total Aggregates (Boston Railhead)	Limestone	Dowlow	-	02 - 25
Welton Aggregates	Limestone (Grey)	Slate House Quarry, Hibaldstow	٧	10 - 24
Willowcroft Aggregates	Granite Rail Ballast	Ex-March Railhead	-	11 - 20

Note:

- (1) Non Frost Susceptible Type 1 Sub-Base Approved Source Extended to Include Type 3 Sub-Base (Open Graded) for use in Development Road Permeable Pavements Only.
- (2) Based on data gathered over more than 50 years of local sources, we have found that stone solely from the Lincolnshire Limestone formation can rarely be classed as non-frost susceptible. Although, on occasion small quantities of this Oolitic Limestone from the hardest strata are capable of achieving compliance to non-frost susceptible sub-base standards, this is likely to be the exception to the rule. Even with strict Factory Production Control, it is unlikely that on-going compliance can be achieved due to the geological properties of the material. Although we have periodically accepted Lincolnshire Limestone sources as non-frost susceptible in the past, the increased scrutiny we apply to these sources due to their known variability often leads to sources being removed from the Approved List after routine monitoring tests. There remains the possibility of the sources being approved as frost susceptible Type 1 sub-base or as 6F5 capping.



FROST SUSCEPTIBLE TYPE 1 SUB-BASE

SUPPLIER	AGGREGATE TYPE	QUARRY/SOURCE	DATE
Ashcourt Group Lincolnshire	Limestone	Manton Quarry	09 - 24
Brauncewell Quarry	Recycled Concrete & Limeston Blend (50:50)	e Brauncewell Quarry	05 - 19
Geo Quarries Ltd	Limestone	Little Ponton Quarry	03 - 25
G Webb Haulage	Recycled Crushed Concrete	South Witham Quarry	09 - 22

Lincolnshire County Council has revised the county's specifications for sub-base. Sub-bases complying with the appropriate BS EN Standards are now specified.

The above lists are therefore subject to review as sources are re-assessed against the new standards



6F5 CAPPING LAYER MATERIALS FOR DEVELOPMENT ROADS

SUPPLIER	AGGREGATE TYPE	QUARRY/SOURCE	APPROVAL DATE
AMS Build	Recycled	Saxilby	10 - 24
Ashcourt Group Lincolnshire	Recycled Concrete	Manton Quarry	05 - 25
Ashcourt Group Lincolnshire	Limestone	Manton Quarry	04 - 25
Breedon Group	Limestone	Holme Hall	02 - 25
Bullimores	Limestone	Collyweston Quarry	04 - 25
CES Ltd	Recycled Concrete / Brick	Stainby	04 - 25
Cupid Plant Hire	Recycled Aggregate	Weston	01 - 24
Daniel Charles Aggregates	Limestone	Dunston Quarry	11 - 23
GBM Waste Management Ltd	Chalk	South Thoresby	10 - 24
Geo Quarries Ltd	Limestone	Little Ponton Quarry	12 - 24
G S Hughes	Crushed Recycled	Harmston	06 - 24
G S Hughes	Limestone	Great Ponton	04 - 25
G Webb Haulage	Limestone	South Witham	10 - 24
Jelson Ltd	Ironstone/Limestone/Clay	Barrowby Road, Grantham	11 - 23
Johnston Quarry Group Ltd	Limestone	Creeton Quarry	07 – 22
Johnston Quarry Group Ltd	Limestone	Ropsley Quarry	07 - 22
Kirton (Fox Plant)	Limestone	Kirton Lindsey	04 - 22
Lindum Waste Recycling	Recycled	Saxilby	11 - 23
Longwood Quarry Ltd	Recycled Concrete/Brick	Longwood Quarry	07 - 24
Midland Quarry Products	Granite	Cliffe Hill	02 - 20
Overhall	Blast Furnace Slag	Scunthorpe	01 - 25
P J Thory	Crushed Concrete / Brick	Coates, Peterborough	04 - 25
Singleton Birch	Chalk	Melton Ross	05 - 25
Tarmac Ltd	Limestone	Harrycroft	06 - 24
Tarmac Ltd	Limestone	Hindlow	06 - 21
Tarmac Ltd	Granite	Mountsorrel	05 - 25
Tarmac Ltd	Limestone	Tunstead	03 - 23
Tarmac Ltd	Limestone	Whitwell	03 - 23
Total Aggregates	Crushed Concrete/Brick	Slippery Gowt Lane, Boston	10 - 24
Welton Aggregates	Chalk	Welton Le Marsh	05 - 25
Welton Aggregates	Crushed Concrete / Brick	Welton Le Marsh	04 - 25
Welton Aggregates	Limestone	Hibaldstow	12 - 24
Willowcroft Aggregates Ltd	Limestone	Willowcroft Fisheries	09 - 22

NOTES

- 1. Approved status under review. Contact Materials Advisor at Lincs Laboratory for the latest approved status. The sources listed above are suitable for use as Granular Fill in Development Roads (Clause 6.8 of the Specification). They have demonstrated the ability to achieve the technical requirements for 6F5.
- 2. All materials listed above are also suitable as trench backfill at appropriate depth when the width of the trench exceeds 850mm.
- 3. Also available from

6F5 Capping layer materials are required to comply with **BS EN 13285 Unbound mixtures** – **Specification** and be made from aggregates complying with **BS EN 13242 Aggregates for unbound and hydraulically bound materials for use in Civil engineering work and road construction.**

It is the producer's responsibility to ensure an appropriate Factory Production Control (FPC) system is in place as an integral part of the production process

If sources other than those listed above are proposed, please contact Lincs Laboratory to establish the current status of the source. For works other than Development Roads contact Lincs Laboratory to establish the suitability of the proposed source. All Capping layer materials are classified as frost susceptible.



GEOSYNTHETICS (GEOTXTILES / GEOGRIDS / GEOCOMPOSITES)

Due to the significant increase in number and variety of geosynthetics now available, a definitive list of approved suppliers is not possible. The following is a selection of suitable materials for Development Roads.

Advice should be sought from the Lincolnshire County Council Highway and Flood Authority before selection or installation of geogrids, geocomposites and geofabrics.

Geogrid reinforcing is required in areas where the subgrade CBR value is less than 1.5%. Suitable advice should be obtained from the manufacturer and approval obtained from Lincolnshire County Council Highway and Flood Authority for the use of an geosynthetics material.

Geotextile – Separation

Manufacturer	Product Name	Date
Don & Lowe	Lotrak 200	07-20
Don & Lowe	Lotrak 2800	07-20
Fibertex Nonwovens	Fibretex F35	07-20
Fiberweb Geosynthetics Ltd	Terram 3000 GT	07-20
Geosynthetics Ltd	Rhyno GW8129	07-20
Geosynthetics Ltd	Ekotex 18	07-20
Maccafferi Ltd	Mactex H2800	07-20
TCS Geotechnics	TNW2000T	07-20
Tencate	Polyfelt TS60	07-20
Wrekin Products Ltd	Multitrack NW 18	07-20

Geogrid - Reinforcement

Manufacturer	Product Name	Date
Don & Lowe	Lotrak 40/40S	07-20
Geosynthetics Ltd	ILX40	10 – 23
Tencate	Miragrid GX80/80	01-21
Tensar	SS40	07-20
Wrekin Products Ltd	E'grid 40/40	07-20

Geogrid – Composite (Reinforcement and Separation)

Manufacturer	Product Name	Date
NAUE GmbH & Co	Combigrid 40/40 Q1 GRK 4	05-21

Geotextile - Filter membrane

Manufacturer	Product Name	Date
Don & Lowe	Lotrak 200	07-20
Fibertex Nonwovens	Fibretex F35	07-20
Fiberweb Geosynthetics Ltd	Terram 3000 GT	07-20
Geosynthetics Ltd	Ekotex 18	07-20
Maccafferi Ltd	Mactex H2800	07-20
TCS Geotechnics	TNW2000T	07-20
Tencate	Polyfelt TS60	07-20
Wrekin Products Ltd	Multitrack NW 18	07-20



BLOCK PAVING BEDDING SAND FOR CONVENTIONAL PAVEMENTS

The sources listed below produce sand suitable for use as bedding for either concrete or clay paving blocks used in conventional (i.e. not permeable or pervious) pavements.

SUPPLIERS	AGGREGATE SOURCE	SITE CATEGORY
Aggregate Industries	Pode Hole 0/4 MP	III
Bardo Midlands Ltd	Freemans Pit Baston Fen	II
Breedon Group	Kettleby 0/4	III
Breedon Group	Norton Disney	II
Breedon Group	Tattershall (Sharp Sand)	III
CEMEX Materials UK Ltd	Hykeham (Sharp Sand)	III
CEMEX Materials UK Ltd	Manor Pit (Coarse Sand)	II
Heidelberg Materials	Auckley	II
Heidelberg Materials	Earith	I
Heidelberg Materials	Needingworth	III*
MQP	Baston Fen	II
Tarmac Ltd	Whisby (Grit Sand)	II
Tarmac Ltd	Besthorpe	II
Tarmac Ltd	Finningley	II
Tarmac Ltd	Langford	III
Woodhall Spa Sand & Gravel	Kirkby on Bain (0/4 MP Sand) (Woodhall Spa)	II

ND CATEGORIES	
SITE TYPE	APPLICATION
I	Pavements subjected to significant channelised traffic, bus stations, industrial pavements, loading bays, Chart 6 Development Roads.
II	General highways and other roads, Chart 3 Development Roads, pedestrianisation project with regular heavy trafficking, car parks, receiving some heavy traffic, footways regularly overridden by vehicular traffic.
III	Pedestrianisation projects with only occasional heavy traffic, car parks receiving no heavy vehicles and footways.

NB Site Category II sands can be considered suitable for use at Site Category III locations.

The designation III* indicates the sand to be theoretically capable of performing satisfactorily on more arduous sites. Contact Lincs Laboratory for further advice.



SURFACE DRESSING BINDERS

C69B3 (K1-70) UNMODIFIED EMULSION BINDERS

SUPPLIER	SOURCE	PRODUCT
Ayton Products	Wymondham	Ayton K1-70
Colas	Warrington	Surfix C K1-70
Nynas UK AB	Ellesmere Port	Spraymuls K1-70
Total	Preston	Emulsis K1-70

INTERMEDIATE OR MID-RANGE POLYMER MODIFIED BINDERS¹ [C70 BP3/ C69 BP3]

SUPPLIER	SOURCE	PRODUCT
Ayton Products	Wymondham	Aquagrip 70P (KE90 + KE93)
Colas	Warrington	Surfix 80S
Nynas UK AB	Ellesmere Port	Fleximulus
Total	Preston	Emulsis Ultra

PREMIUM OR HEAVY DUTY POLYMER MODIFIED BINDERS² [C70 BP3/ C69 BP3]

SUPPLIER	SOURCE	PRODUCT	
Ayton Products	Wymondham	Aquagrip PMB (KE94)	
Colas	Warrington	Premium 80	
Colas	Warrington	SLX80	
Nynas UK AB	Ellesmere Port	Duramuls	
Total	Preston	Emulsis Satis	
Total	Preston	Emulsis Supreme	

Suitable for sites described as Moderate sites – see Appendix 2.2 Table 4A of the Code of Practice: Highway Works (HT/14/1/94)

² Suitable for sites described as Difficult Sites – see Appendix 2.2 Table 4A of the Code of Practice



PERMANENT COLD LAY SURFACING MATERIALS

6mm ASHPALT CONCRETE SURFACE COURSE

SUPPLIER	AGGREGATE/ MATERIAL NAME	HAPAS APPROVAL DATE & CERTIFICATE NO.	PTSPAS APPROVAL DATES & CERTIFICATE NO.	APPROVAL CATEGORY
Colas Ltd Rowfant Crawley Sussex RH10 4NF	Bitucrete 6mm Surface Course	25 April 2012 07/H128		Footway and Cycle Tracks Only
Instarmac Group PLC Kingsbury Link Trinity Road Kingsbury Tamworth B78 2EX	Ultracrete IRR 6mm	25 November 2016 01/H060		Class 3 and 4 Carriageways Footways and Cycle Tracks
Larsen Manufacturing Ltd 07 West Bank Road Belfast Harbour Industrial Estate Belfast County Antrim Belfast BT3 9JL	Larsen PCL06	22 June 2017 17/H264		Footways and Cycle Tracks Only
Red Stag Highclere Business Park, Highclere Way, Inverurie, Aberdeenshire, AB51 5QW	EZ Street 6mm	23 Oct 18 12/H190		Type 3 and 4 Carriageways Footways and Cycle Tracks
Tarmac Trading Ltd Bickenhill Lane Solihull B37 7BQ	Ultipatch Footway 6mm	10 March 2017 02/H073		Footways and Cycle Tracks Only
Vialit mbH Josef Reiter Strasse 78 5280 Braunan Am Inn Austria	Rephalt 6mm Surface Course	20 December 2010 09/H147		Type 2, 3 and 4 Carriageways Footways and Cycle Tracks
Viatec UK Ltd Westfield Business Park Second Avenue Radstock BA3 3BH	Viafixquick 6mm	18 February 2016 16/H245		Type 3 and 4 Carriageways Footways and Cycle Tracks

10mm ASPHALT CONCRETE SURFACE COURSE

SUPPLIER	AGGREGATE/ MATERIAL NAME	HAPAS APPROVAL DATES	PTSPAS APPROVAL DATES & CERTIFICATE NO.	APPROVAL CATEGORY
Instarmac Group PLC	Ulttracrete IRR 10mm	25 November 2016		Type 3 and 4 Carriageways
Danny Morson Way				Footways and Cycle Tracks
Birch Coppice Business		01/H060		
Park Dordon Tamworth				
Staffordshire				
B78 1SE				
Vialit mbH	Rephalt 10mm	20 December 2010		Type 2,3 and 4
Josef Reiter Strasse 78 5280	Surface Course			Carriageways, Footways,
Braunan Am Inn Austria		09/H147		Footpaths and Cycle Tracks
Viatec UK Ltd	Viafixquick 10mm	18 February 2016		Type 3 and 4 Carriageways,
Westfield Business Park		·		Footways, Footpaths and
Second Avenue Radstock		16/H245		Cycle Tracks
BA3 3BH				-



PERMANENT COLD LAY SURFACING MATERIALS FOR CLAUSE 946 MINOR CARRIAGEWAY REPAIRS

6mm ASPHALT CONCRETE SURFACE COURSE

		HAPAS Approval	PTS PAS	Material A	ppro	val S	tatus	3					
Cumplion		Dates	Approval	LCC Carriag	ewa	y Hie	erarc	hies					
Supplier Material	iviateriai	& HAPAS Certificate No. Dates & Certificate No.	Certificate	Major Road Network	1	2	3	4	5	6	7	8	Footways & Cycleways
Instarmac Group PLC	Ultracrete IRR 6mm	25 Nov 16 01/H060		х	х	х	٧	٧	٧	٧	٧	٧	٧
Instarmac Group PLC	Ultracrete Tough Patch 6mm	_	PA9460005 01/02/19	x	X	х	х	x	x	х	x	x	٧
Red Stag	EZ Street	23 Oct 18 12/H190		х	X	х	٧	٧	٧	٧	٧	٧	٧
Vialit mbH	Rephalt 6mm Surface Course	20 Dec 10 09/H147		x	х	٧	٧	٧	٧	٧	٧	٧	٧
Viatec UK Ltd	Viafixquick 6mm	18 Feb 16 16/H245		x	Χ	Х	٧	٧	٧	٧	٧	٧	٧

10mm ASPHALT CONCRETE SURFACE COURSE

			DTC DAG	Material A	ppro	oval	Stat	tus					
Supplier	HAPAS Approval Dates Dates &		Annroval	LCC Carriageway Hierarchies								Footways & Cycleways	
- с. р. г. с.		& HAPAS Certificate No.	Certificate No.					6	7	8			
Instarmac Group PLC	Ultracrete IRR 10mm	25 Nov 16 01/H060		х	х	х	٧	٧	٧	٧	٧	٧	٧
Instarmac Group PLC	Ultracrete Tough Patch 10mm		PA9460005 01/02/19	х	х	х	٧	٧	٧	٧	٧	٧	Х
Vialit mbH	Rephalt 10mm Surface Course	20 Dec 10 09/H147		х	Х	٧	٧	٧	٧	٧	٧	٧	٧
Viatec UK Ltd	Viafixquick 10mm	18 Feb16 16/H245		X	х	x	٧	٧	٧	٧	٧	٧	٧

Note -

v = Suitable as temporary and permanent repair material for these Carriageway Hierarchies and Cycleways and Footways.

X = Unsuitable as temporary and permanent repair material for these Carriageway Hierarchies.



HIGH FRICTION SURFACES SYSTEMS HIGHWAYS AUTHORITIES PRODUCT APPROVAL SCHEME (HAPAS)

APPROVED HIGH FRICTION SURFACE SYSTEMS (HFS) WITH HAPAS ACCREDITATION AS OF DECEMBER 2022

HFS Type 1

SYSTEM PROVIDER	SYSTEM	CERTIFICATE NUMBER	AGGREGATE	BINDER
Aximum	Hypergrip Type 1	15/H233	Calcined Bauxite	Methyl
				Methacrylate
GCP Applied Technologies	Safetrack HFS	21/H310	Calcined Bauxite	MMA Based
(UK) Ltd				ESSELAC Resin
GCP Applied Technologies (UK) Ltd	Safetrack HW	19/H291	Calcined Bauxite	ESSELAC Resin
Geveko Markings UK Ltd	Coldgrip Type 1	20/H300	Calcined Bauxite	Polyurethane
Hitex Traffic Safety Ltd	Ecogrip Epoxy Type 1	14/H212	Calcined Bauxite	Ероху
Hitex Traffic Safety Ltd	Hitex Type 1 Thermoplastic	04/H088	Calcined Bauxite	Thermoplastic Resin Ester
Hitex Traffic Safety Ltd	Pumagrip Type 1	16/H256	Calcined Bauxite	Polyurethane –
				MMA Resin
Jobling Purser	Rocbinda/Colorvial	12/H196	Calcined Bauxite	Polyurethane
Kestrel Thermoplastics Ltd	Kestrel Grip Type 1 Hot	18/H280	Calcined Bauxite	Thermoplastic
				Resin Ester
MV Plastics Limited	Valgrip HFS	22/H6089	Calcined Bauxite	MMA Based Resin
Prismo Road Marking Ltd	Prismogrip Type 1	21/H308	Calcined Bauxite	MMA Resin
Prismo Road Marking Ltd	Tyregrip HFS Type 1	05/H115	Calcined Bauxite	Ероху
Prismo Road Marking Ltd	Zebraflex Type 1 HFS System	00/H043	Calcined Bauxite	Thermoplastic
Road Techs Specialist	Techgrip RTT1	10/H158	Calcined Bauxite	Thermoplastic
Products Ltd				Hydrocarbon
Shildon Thermoplastics	Thermogrip Type 1	12/H193	Calcined Bauxite	Thermoplastic
Star Uretech Ltd	Star Polymers HFS	11/H177	Calcined Bauxite	Polyurethane
Trustseal Ltd	Keygrip Epoxy 924	00/H039	Calcined Bauxite	Ероху
Trustseal Ltd	Keygrip Type 1 Thermoplastic	01/H058	Calcined Bauxite	Thermoplastic
				Resin Ester
WJ Products Ltd	Weathergrip Type 1 HFS System	20/H293	Calcined Bauxite	MMA Resin

HFS Type 2

HFS Type 3		

Please contact Lincs Laboratory when selecting High Friction Surfaces Systems.



PERMEABLE PAVING AGGREGATES FOR DEVELOPMENT ROADS

Materials approved for use in accordance with Tables 10/1 and 10/2 of the Lincolnshire County Council, Highway and Flood Authority, Development Road and Sustainable Drainage Specification and Construction for the following use.

Only virgin aggregates are deemed suitable when used as part of a Sustainable Drainage system.

Laying Course, Drainage Hole Fill and Jointing Material

SUPPLIER	PRODUCT NAME /	AGGREGATE TYPE	SIZE	DATE
	SOURCE			
Aggregate Industries	Bardon Hill	Granite	2/6.3mm	07-20
Aggregate Industries	Superflow, Bardon Hill	Granite	2/4mm	07-20
Tarmac	Ultiflow, Santon	Blast Furnace Slag	2/6.3mm	07-20



DRAINAGE AGGREGATES

Materials approved for the use as described in the following tables in accordance with Section 5 of Lincolnshire County Council, Highway and Flood Authority, Development Road and Sustainable Drainage Specification and Construction and Series 500 of Lincolnshire's Specification for Highway Works.

Only virgin aggregates are deemed suitable when used as part of a Sustainable Drainage system, no sources listed below as recycled shall be used in a Sustainable Drainage system.

Pipe Bedding

SUPPLIER	SOURCE	AGGREGATE TYPE	SIZES	DATE
Aggregate Industries	Woodhall Spa	Gravel	4/10, 10/20, 20/40	04 - 23
Brauncewell Quarries	Brauncewell Quarry	Recycled Aggregate	0/1, 0/4, 4/10, 10/20, 20/40	01 - 24
Breedon Group	Holme Hall	Limestone	4/10, 10/20, 20/40	06 - 21
Breedon Group	Kettleby	Sand & Gravel	0/4, 4/10, 10/20	10 - 22
Breedon Group	Norton Bottoms	Sand & Gravel	0/4, 4/10, 10/20, 20/40	05 - 21
Breedon Group	Tattershall	Sand & Gravel	0/4, 4/10, 10/20, 20/40	05 - 21
Cemex	Cromwell	Gravel	10/20	07 - 20
Cemex	Swinderby	Gravel	10/20	07 - 20
Daniel Charles	Dunston	Washed Recycled	0/2, 0/4, 4/10, 10/20,	09 - 23
Aggregates		Aggregate	20/40	
Fox Plant Ltd	Wigsley	Sand & Gravel	0/4, 4/10, 10/20	02 - 24
GBM Tudworth	Doncaster	Washed Recycled	4/10, 10/20	10 - 22
Recycling		Aggregate		
Heidelberg Materials	Ex Baston Fen	Sand & Gravel	4/10, 4/20, 10/20	01 - 25
Kirton (Fox Plant)	Kirton Quarry	Washed Recycled Aggregate	0/4, 4/10, 10/20	06 - 22
MQP	Baston Fen	Limestone Gravel	4/10, 4/20, 10/20	02 - 23
Overhall	Scunthorpe	Blast Furnace Slag	10/20	10 - 24
P J Thory	Willowhall	Sand & Gravel	0/4, 4/10, 4/20, 20/40	11 – 22
Tarmac Ltd	Besthorpe	Gravel	4/10	07 – 22
Tarmac Ltd	Block Fen	Sand & Gravel	0/4, 4/10, 4/20, 20/40	11 – 22
Tarmac Ltd	Broom South	Sand & Gravel	0/4, 4/10, 4/20, 10/20 20/40	11 – 22
Tarmac Ltd	Langford	Gravel	4/10, 10/20	07 – 20
Tarmac Ltd	Maxey	Sand & Gravel	0/4, 4/10, 4/20, 20/40	11 – 22
Tarmac Ltd	Whisby	Gravel	4/10, 10/20	07 – 20
Total Aggregates	West Deeping Quarry	Sand & Gravel	4/10	12 - 22
Welton Aggregates	Welton Le Marsh	Recycled	4/10, 10/20	07 – 22



Type B Filter Media

SUPPLIER	SOURCE	AGGREGATE TYPE	DATE
Aggregate Industries	Woodhall Spa	Gravel	04 - 23
Brauncewell Quarries	Brauncewell Quarry	Recycled Aggregate	01 - 24
Breedon Group	Holme Hall	Limestone	06 – 21
Breedon Group	Kettleby	Gravel	07 – 20
Breedon Group	Norton Bottoms	Gravel	05 – 21
Breedon Group	Tattershall	Gravel	05 – 21
CEMEX	Cromwell	Gravel	07 – 20
Daniel Charles Aggregates	Dunston	Washed Recycled Aggregate	09 - 23
GBM Tudworth Recycling	Ex-Site	Recycled Aggregate	06 – 22
P J Thory	Willowhall	Gravel	11 – 22
Tarmac Ltd	Block Fen	Gravel	11 - 22
Tarmac Ltd	Broom South	Gravel	11 - 22
Tarmac Ltd	Langford	Gravel	07 - 20
Tarmac Ltd	Maxey	Gravel	11 - 22
Tarmac Ltd	Whisby	Gravel	07 - 20