

Researched, compiled and produced by



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Introduction- SROH Appendix 6

This advisory document is designed to assist incoming and existing Inspectors as support and refresher material. It will be provided in simple language to aid in understanding and avoiding technical or descriptive explanation.

The current edition (Ed 4) of the Specification for Reinstatement of Openings in the Highway (SROH) has been updated to assist readers in understanding, and introduce new methods and developments within street-works.

Remember, the SROH applies to works undertaken on carriageway's, footway's and verge's maintained at public expense (not private roads or land).

You will now be taken through the key items within Appendix A6 which will enable you to have a better understanding of what to look for when monitoring reinstatement in modular roads.



Please note:

This document is simply to aid in understanding of the Specification for the Reinstatement of Openings in the Highway (SROH) and should not be used for any other purpose. The simplicity of language is to assist in explanation, but may detract from certain technical or descriptive specification requirements and, therefore, the SROH should be consulted for clarity.



A reminder of reinstatement methods

The reinstatement methods you can employ for modular roads is shown in Table A2.10 of the SROH. As you can see outlined in red, only methods A and D apply to Types 3 and 4 roads only.

What you will notice in composite roads construction is that they differ at base layer in terms of construction. You have three options in base layer construction that will determine layer thickness values as will be seen in following pages. Firstly, you will see bituminous base option, then a composite base option, and finally a granular base option. Each of these will have different requirements in terms of layer thickness values.

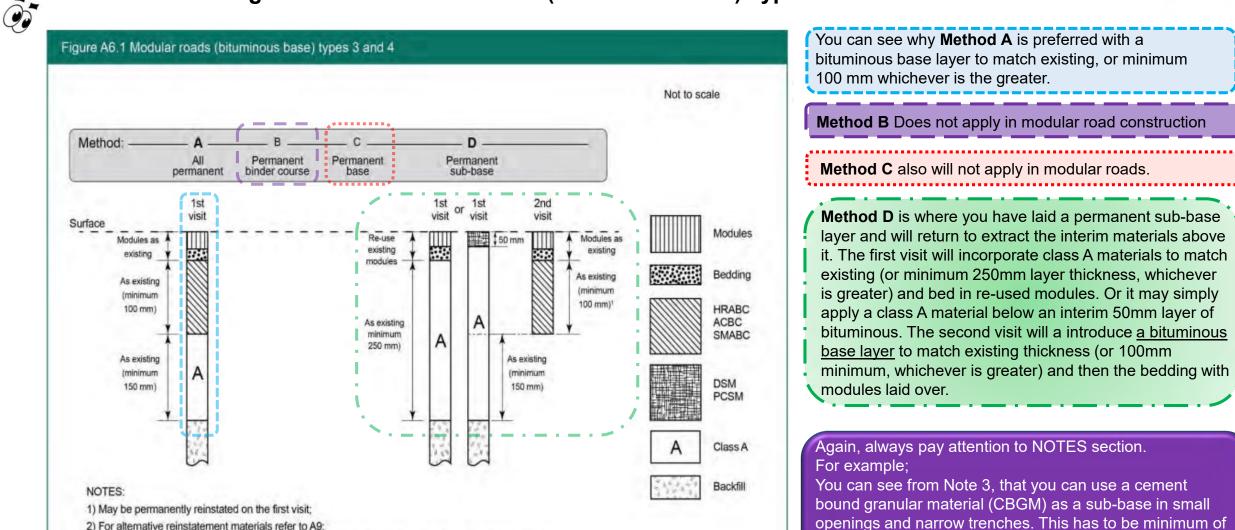
For example, if you use the bituminous base option, the next page will show Method A as requiring to match the exiting materials, subject to a minimum of 100 mm bituminous laid over a minimum 150 mm of class A material. Please refer to the following pages to understand the options and layer values required.

Table A2.10 Key to reinstatement methods

Reinstatement method (at first visit)	Flexible & composite roads S6		Rigid & modular roads S7				Footways, footpaths & cycle tracks		
	Flexible	Composite	Rigid (A5.0 - A5.2 ind.)	Modular			Flexible and	Rigid	Modular
	(A3.0 - A3.4 incl.)	(A4.0 - A4.3 incl.)		Bituminous base (roadbase) (A6.1)	Composite base (roadbase) (A6.2)	Granular base (roadbase) (A6.3)	(A7.1 and A7.2)	(A7.3)	(A7.4)
All permanent	Method A (Types 0-4 incl.)	Method A (Types 0-4 incl.)	Method A (Types 0-4 incl.)	Method A (Types 3, 4 only)	Method A (Types 3, 4 only)	Method A (Types 3, 4 only)	Method A	Method A	Method A
Interim with permanent binder course	Method B (Types 0-4 incl.)	Method B (Types 0-4 incl.)	N/A	N/A	N/A	N/A	Method B	N/A	N/A
Interim with permanent base	Method C (Types 3, 4 incl.)	Method C (Types 0-4 incl.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Interim with permanent sub-base	Method D (Types 0-4 incl.)	Method D (Types 0-4 incl.)	Method D (Types 0-4 incl.)	Method D (Types 3, 4 only)	Method D (Types 3, 4 only)	Method D (Types 3, 4 only)	Method D	Method D	Method D
Permanent incorporating interim surface overlay	N/A	N/A	Method E (Types 0-4 incl.)	N/A	N/A	N/A	N/A	N/A	N/A

Figure A6.1 – Modular Roads (bituminous base) Types 3 & 4





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For alternative reinstatement materials refer to A9:

In small openings and narrow trenches CBGM base may be used as sub-base. Thickness must

be 150 mm and the base must be bound.

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150 mm thick and the base has to be a bound material for

this to apply (the class A should not be unbound material).



Figure A6.2 – Modular Roads (composite base) Types 3 & 4

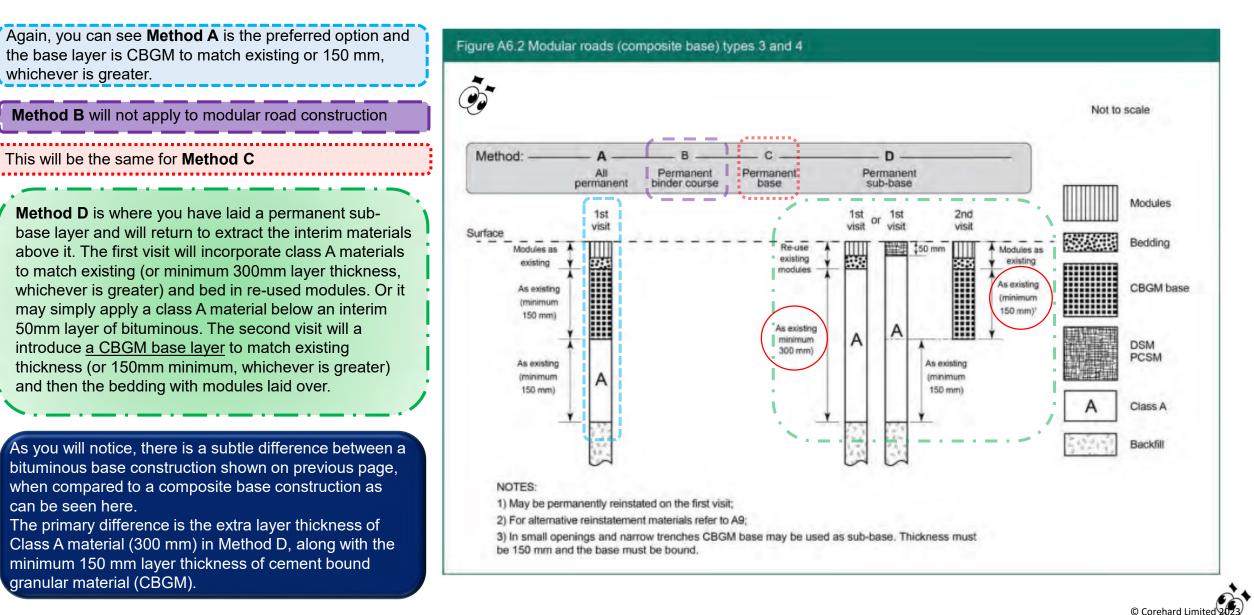
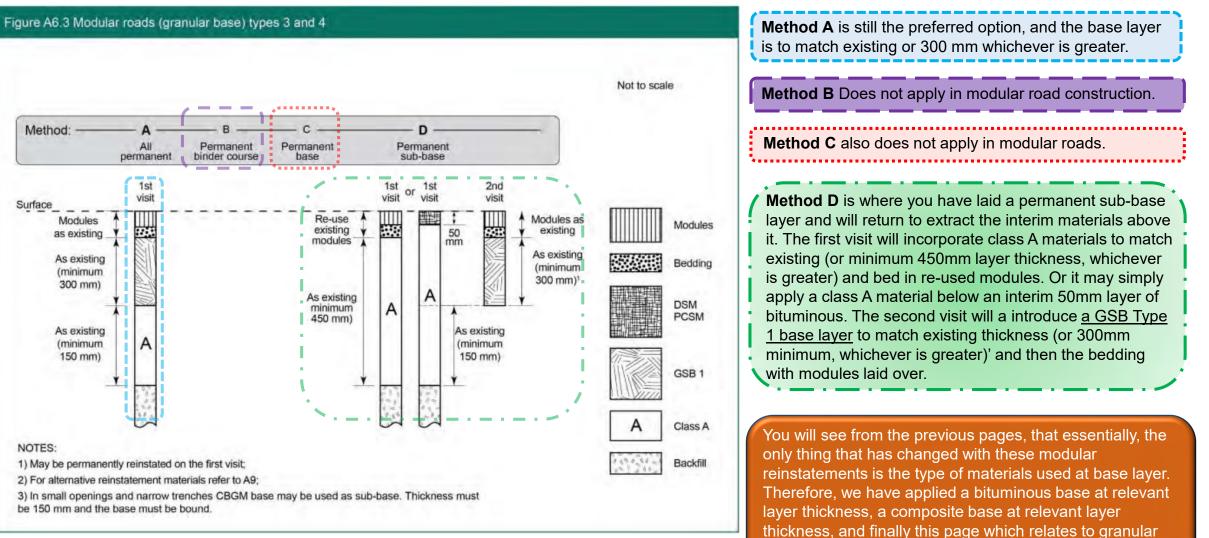


Figure A6.3 – Modular Roads (granular base) Types 3 & 4

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base layer and relavent layer thickness.

A6 - Summary





What are modular roads?

They are roads surfaced by decorative blocks or modules over a suitable construction.

Why are only Types 3 & 4 roads allowed for in relation to modular reinstatements?

Its most likely because roads of heavy duty usage would not bear up to the stresses and strains if constructed as modular. They are generally more for decorative purposes.

What are the different kinds of modular roads?

Essentially, all modular roads will be similar in appearance from the surface. What you have to consider is what materials are used below at base layer and below.

What difference does this make?

Simply, when you think of structural integrity of base layer, a bound material will be stronger than an unbound material. Therefore, a bituminous base layer of 100 mm thickness equates to a CBGM of 150 mm thickness, or a granular material of 300 mm thickness. These are the three options allowed for in modular roads construction.

Is that all that's different?

Essentially, yes.

But make sure you comply with the minimum requirements of all other structural layers for materials applied below the base layer.



