

HA104/09 Guidelines

This advice note by Highways England sets out procedures and denotes materials which Highway Authorities believe provide the best possible performance of road chamber top and gully top installations in trunk roads and motorways.

Its recommendations may be applied to other roads and traffic conditions, as appropriate. For example; Sewers for Adoption (please see Wrekin's SfA guide)

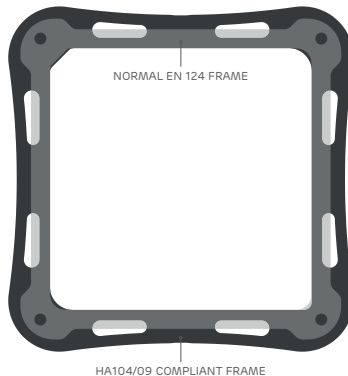


HA104/09 Buyer Guidance: Bearing Pressure

If compliance to HA104/09 is specified it is important that you ensure that the manhole cover you are considering purchasing does indeed meet that specification.

There are a number of requirements of HA104/09 but probably the key one is the 'bearing pressure' of the frame (*Clause 4.7a*).

This normally means the area of the frame flange has to be greater than products that just comply to EN124. This is because HA104/09 is seeking to reduce damaging forces on bedding materials.



If you want to ensure your installation is not rejected by your client - Check the bearing pressure yourself or ask your manufacturer to supply their calculations. You divide the EN124 test load in Newtons (for D400 that's 400,000) by the flange area in mm². The resultant bearing pressure should be less than or equal to 2.1N/mm²

Example of four of Wrekin's highly popular Highway® range:

WREKIN PRODUCTS' STOCK CODE	SIZE (mm)	TEST LOAD (N)	FLANGE AREA (mm ²)	BEARING PRESSURE (N/mm ²)	CONFORMS TO HA104/09
DMTOD4/6060/KH DMTOD6/6060/KH	600 x 600	400,000	199069	2.01	✓ ✓
DMTOD4/6767/KH DMTOD6/6767/KH	675 x 675	400,000	205822	1.94	✓ ✓

For more information on HA104/09 take a look at our technical guidance note: HA104/09 Guidelines Overview.

[UNRESTRICTED APPLICATION]

All of Wrekin's Highway™ and Unite™ ranges exceed the requirements outlined in the HA104/09 guidelines. They are unrestricted in their use in the highway.