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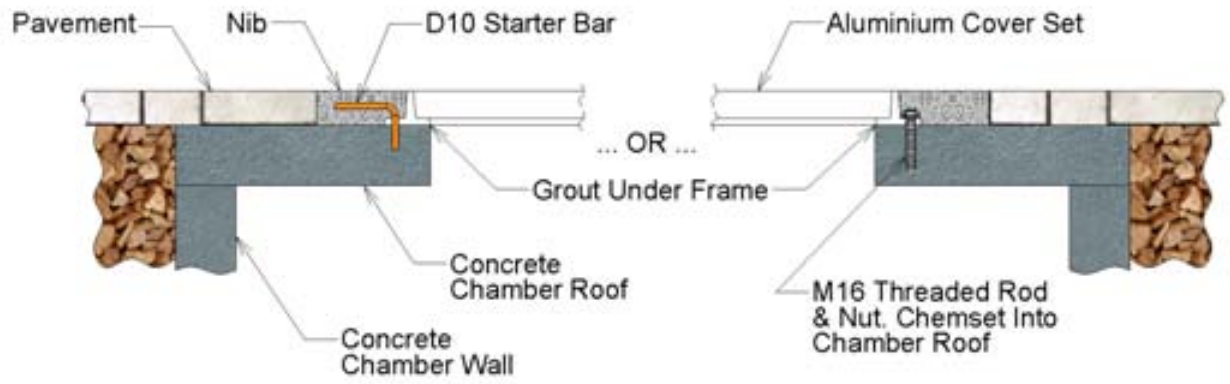
Concrete Jointing Chambers & Aluminium Cover Set **Class B**

GUIDELINES for INSTALLATION

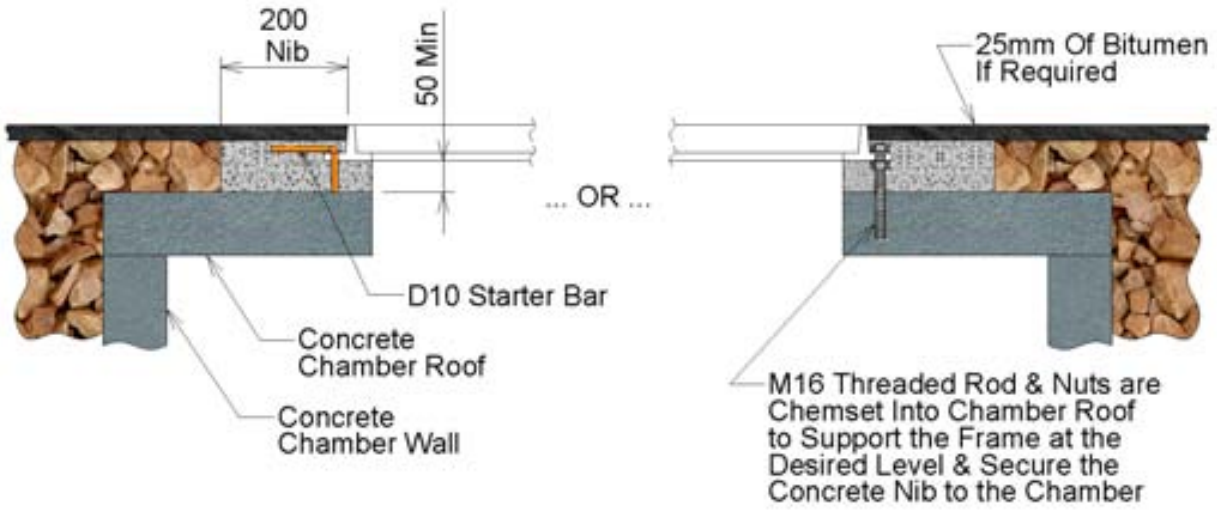
NB: Only to be used in height restricted situations & frame must be nested properly and fully supported.



A

Please note that in sketch A the cover set frame is attached directly to the chamber roof. This is acceptable provided that the concrete surface is flat and the aluminium frame is not being distorted. Use epoxy grout to nest the cover set frame if the concrete chamber surface is uneven.

Reinforcing steel starter bars are chemset into the concrete structure and bent over to secure the frame, and a concrete surround nib is poured. This frame could be bolted down if pavers are required to reach the cover set frame rim.



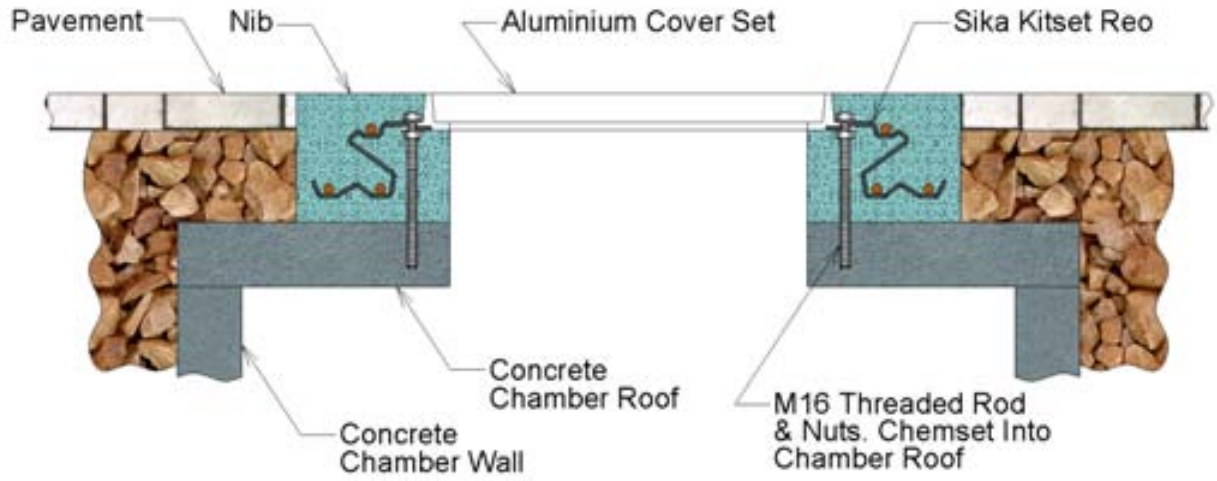
B

A more likely scenario is shown in sketch B where the frame is raised to meet the pavement level and the concrete surround is vibrated to flow under the frame to give full support. This method requires internal shuttering and a minimum gap under the frame of 50mm.

Note:

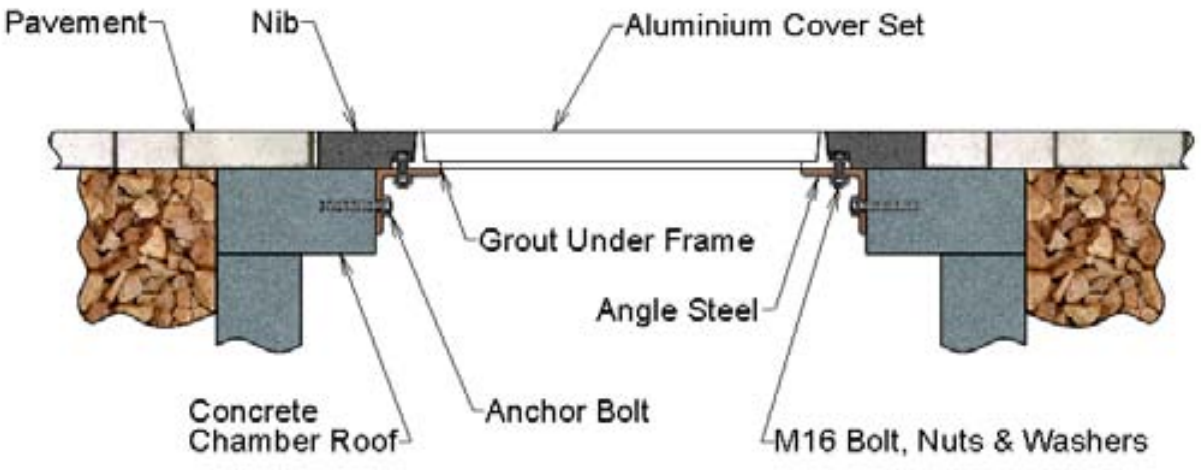
a) In Sketch B the concrete support collar has a 25mm allowance for bitumen if required.

b) Any reinforcing steel requirements for the concrete support nib are the contractors' care! Kitset reinforcing is available from Sika.

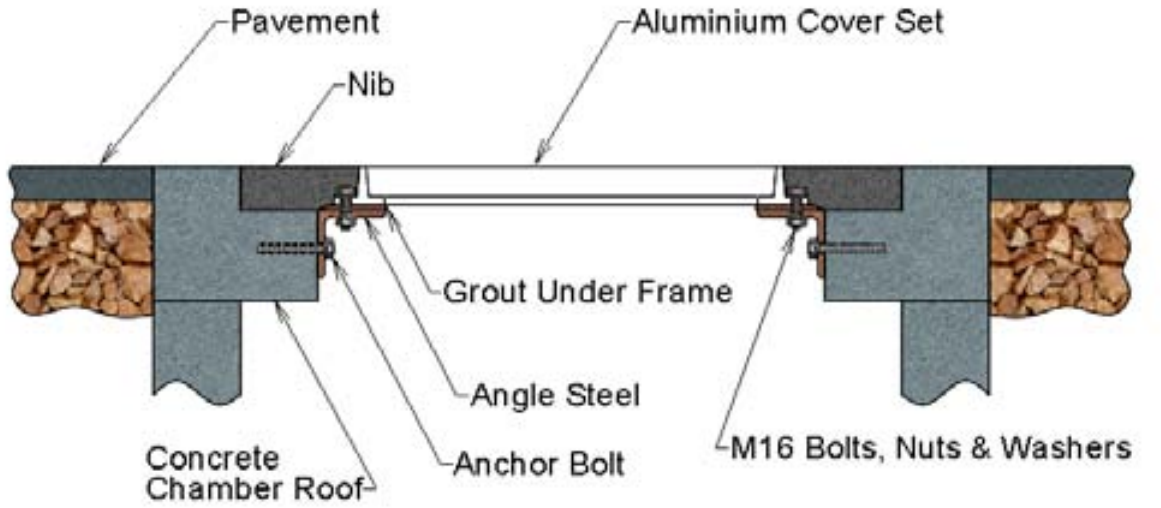


C

Sketch C demonstrates the original proposal of Sika kitset reinforcing steel and a minimum concrete support nib of 200x200mm.



D



E

Sketches D and E show two configurations of a Sika aluminium cover set bolted to an existing concrete chamber with a clear opening which does not match that of the cover set. Secure the angle steel to the opening of the chamber with anchor bolts, and bolt the cover set frame to the angle steel. Bring the frame up flush with the ground level using solid packers or washers. Use epoxy grout under the frame to fully support it from below.

A concrete nib is poured around the frame.

In all cases it is essential that the aluminium Class B cover set frame is secured and fully supported from below to provide load compliance for the cover.