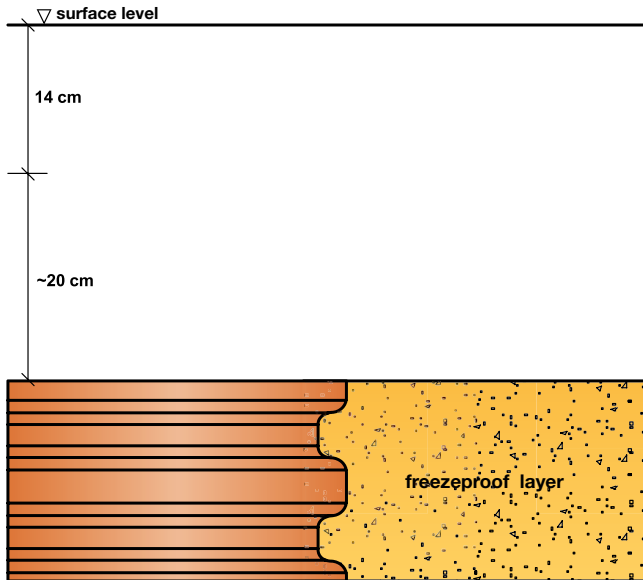


Laying the new hard surface in three-layer e.g.:

- 4 cm of abrasive layer,
- 10 cm of bituminous base (setting) layer ,

- 25 cm of base course (road-metal or broken aggregate).

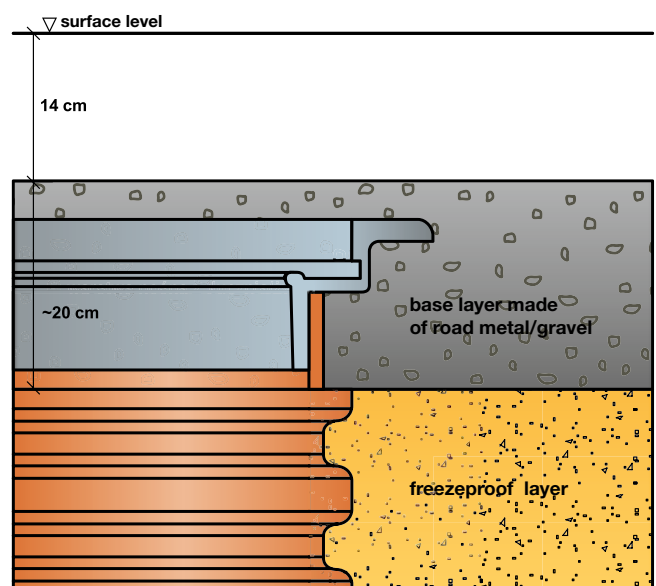
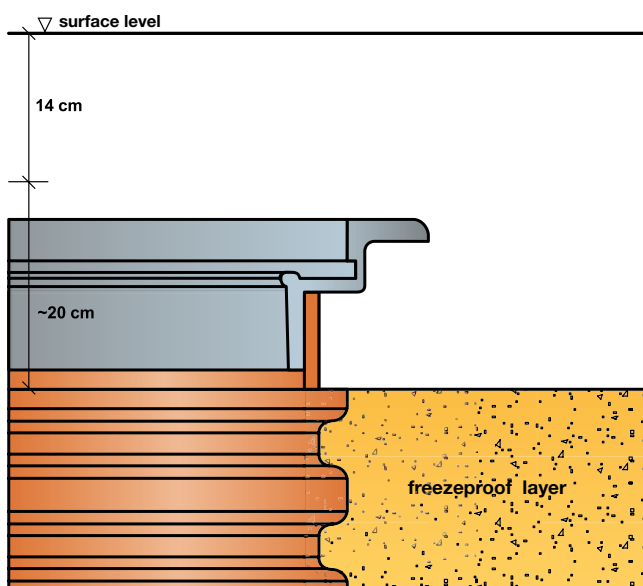


1. Level the upper edge of the chamber about 35 cm under the planned road surface level (on the level the upper freezeproof layer). Compact thoroughly the soil around the chamber beginning from its bottom part. The soil shall be compacted layer by layer (max 30 cm) according to the chamber installation guide. Protect backfilling against washing out in line with PN-EN 1610 and PN-ENV 1046.



2. . Mark the location of chamber on the shoulder or the curb to allow finding chamber after covering it with asphalt.

3. Connect the telescopic pipe with cover/gully – place pipe's catches with groove in the cover body. Protect the telescopic adapter entry with the steel plate.



4. Insert the telescopic part of the adapter or the pipe into the chamber shaft. Use the telescopic pipe seal for the connection sealing. The seal must be installed inside the shaft in its higher groove. Lay the base course made of road metal and compact it thoroughly.

Inspection Chambers and Manholes

Chamber covers

5. Uncover the chamber, move its telescopic part up. Backfill the hollow which has formed after moving up the chamber. Thoroughly fill the spaces under telescopic adapter or cover assembled on telescopic pipe. Before laying the bituminous base layer lay the upper part of cover in a way it is located minimum 20% over the non-compacted layer.

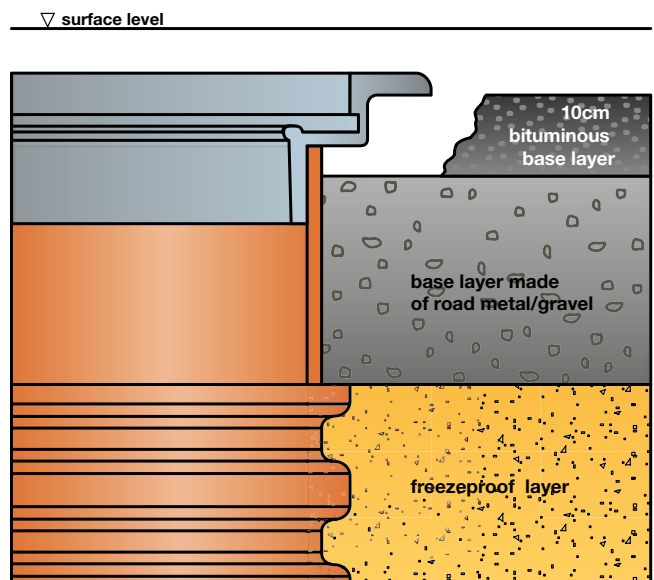
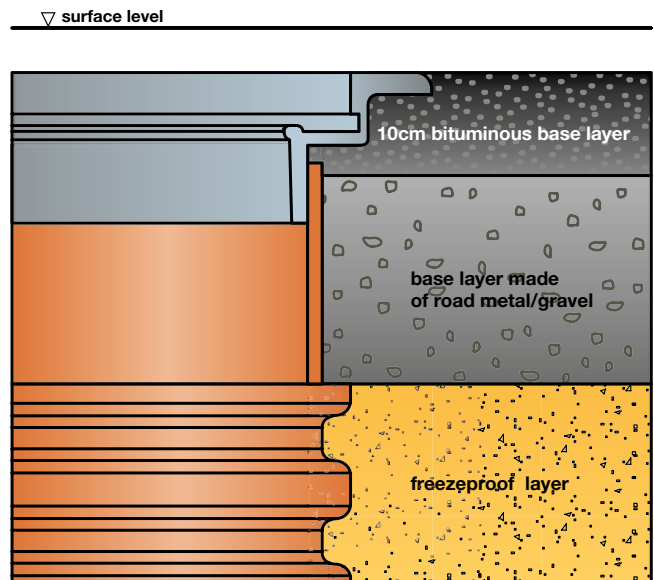
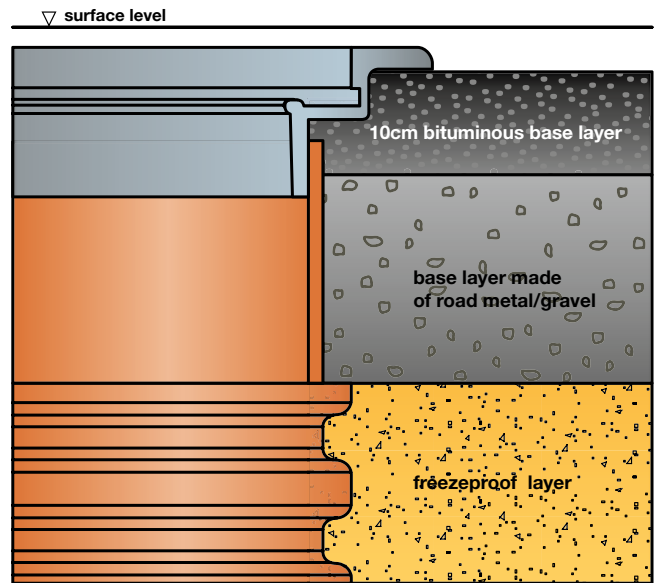
6. Before rolling the layer protect cover and pipe by backfilling them with sand or thin sheet. Telescopic adapter should be protected with steel plate.



7. Roll the asphalt layer. When the cover is already installed it should be pressed down first by rolling its middle part without vibrations.



8. Just after finishing this operation move the cover up with telescopic pipe or telescopic adapter by using a pick or a spade.



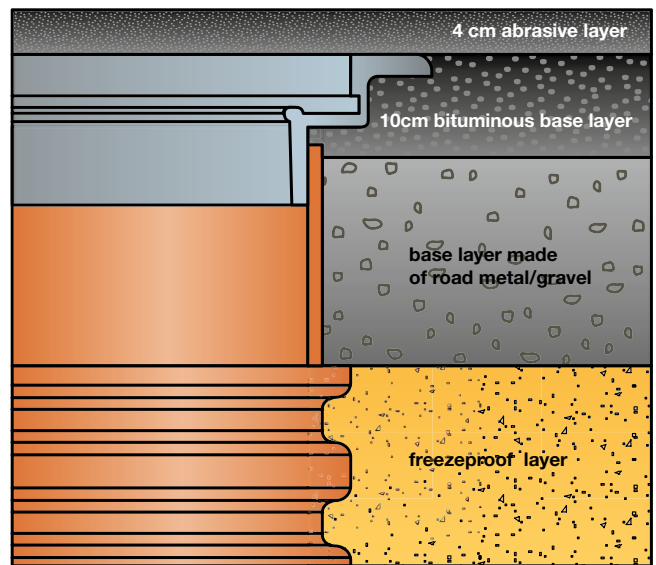


9. Fill the space under cover/telescopic adapter by using wooden scrapers. Fill all the empty spaces thoroughly. If it is needed supplement the asphalt.. Material surrounding cover frame will be additionally compacted during compacting and rolling the next surface layer.

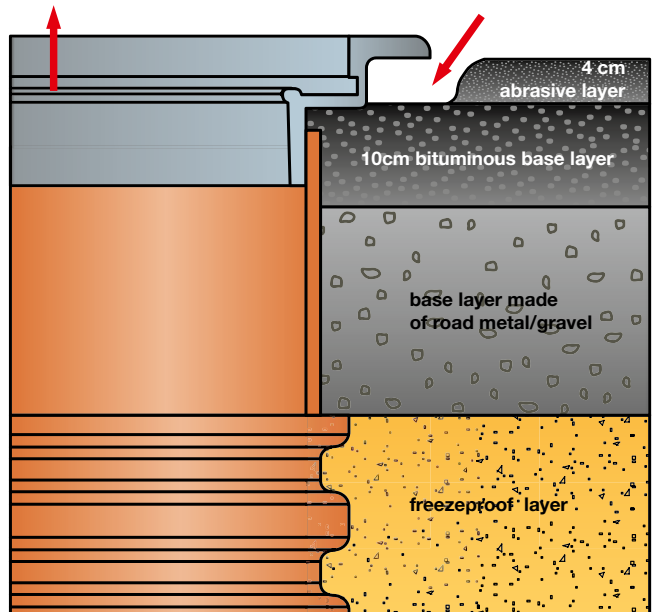
10. . If it is required protect the cover again with steel sheet or complete the gravel/sand layer. Put the cover on the telescopic adapter. If needed (e.g. in case of sloping pavement, big clearance between telescopic adapter frame and cover body) screw the cover down to the surface.



11. Put the asphalt surface by using road finisher.



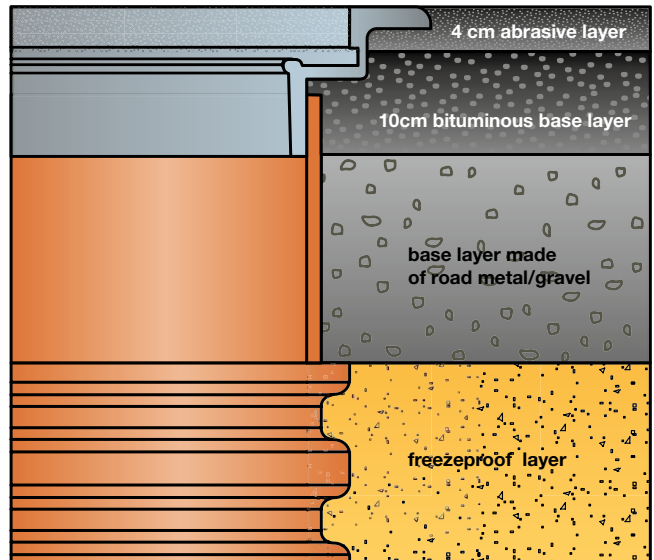
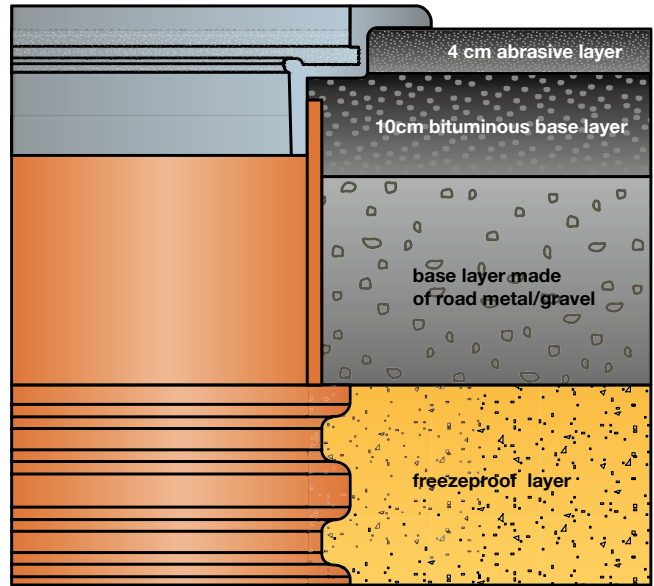
12. When cover with telescopic pipe is used repeat previously made operation – after the road finisher is removed from installation place the cover should be uncovered and moved up (by using e.g. a pick or a spade) to be higher than the non-compacted bituminous layer (min. 20% of the layer thickness).



Inspection Chambers and Manholes

Chamber covers

13. Fill the space surrounding the protruding cover with hot asphalt mass. All empty spaces must be filled thoroughly.



14. Clean the cover thoroughly and roll in one plane together with the asphalt mass. First press down the cover by rolling it in its middle part without vibrations. After finishing the works remove asphalt residues from the cover.