



ACO. creating
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ACO Stop Channel

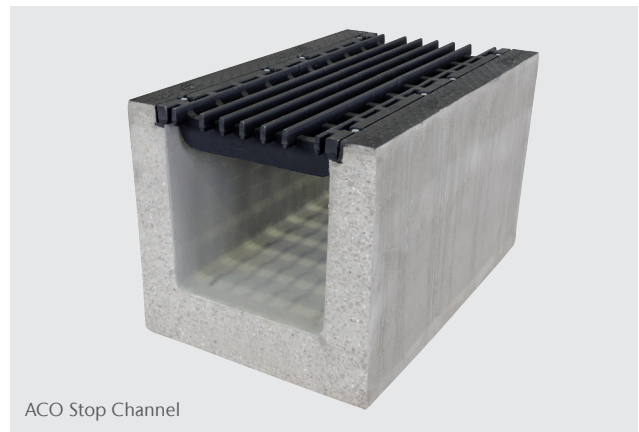
For use as barriers at side roads and approaches.

In side roads and approach areas ACO Stop Channels perform the function otherwise performed by guide fences. When correctly arranged Stop Channels and ACO Guide Walls form a continuous, unbroken system. The ACO Stop Channel performs several important functions. It continues to guide wildlife under the road, intercepts amphibians on the road and provides a level crossing for vehicles.

The gratings are suitable for a loading in accordance with EN 1433 class D 400*.

Benefits

- Inlet design forces amphibians to fall into the channel away from areas of risk
- Fully lined channel protects amphibians skin
- Full surface frame for long-life performance



ACO Stop Channel

Applications

- Migratory paths across road systems
- Tunnels across vehicle crossing areas*, paths and verges

* Not suitable for carriageways of public roads or motorways, due to grated system

System Overview

Product Code	Description	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
11138	ACO Stop Channel - reinforced concrete	1000	625	600	660

Stop Channels come complete with two ductile iron grates per channel



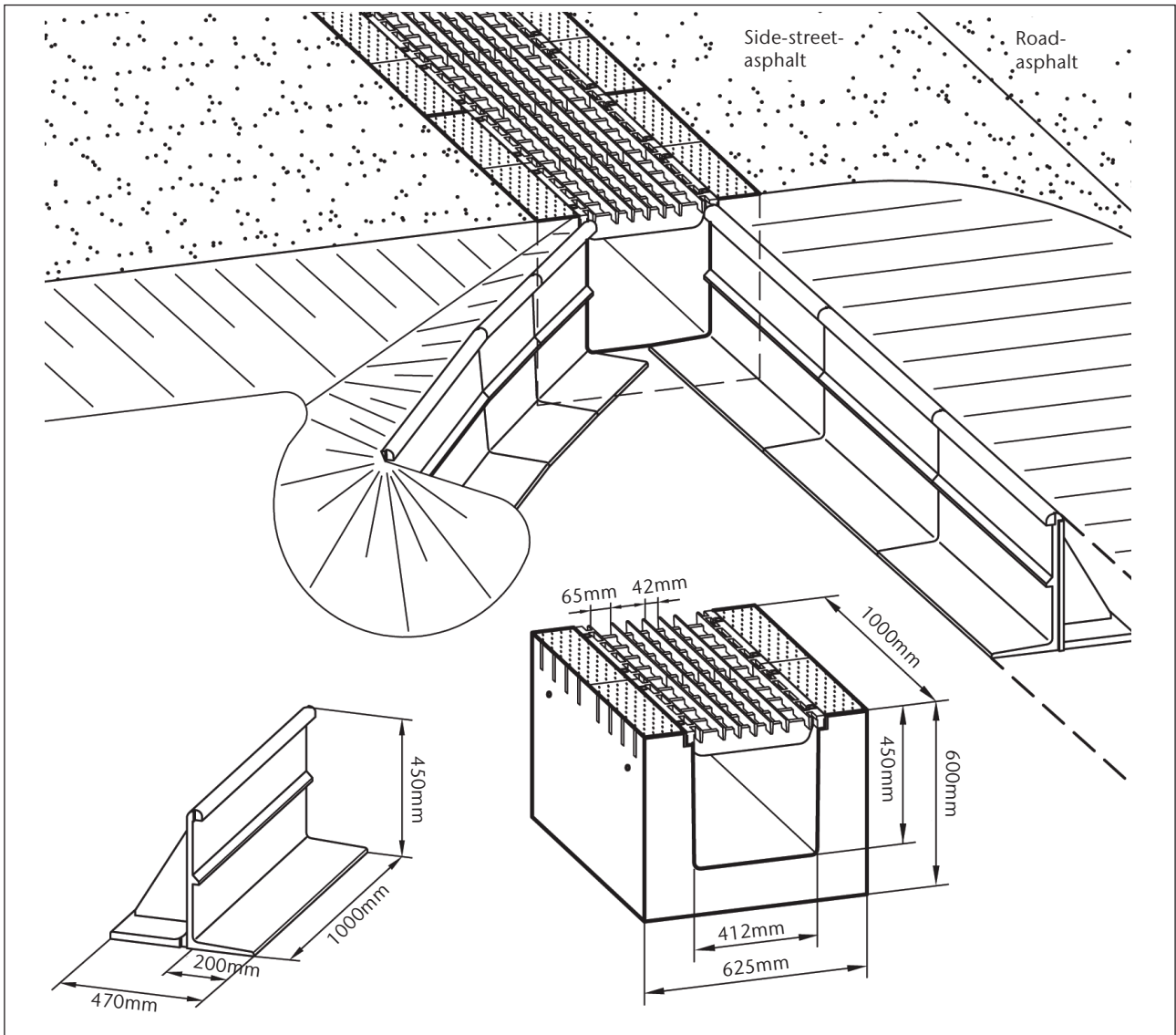
Compatibility

ACO Stop Channels can be incorporated into wildlife guidance layouts, allowing traffic to easily bridge the area, whilst still allowing wildlife to be guided to safe areas.

The versatility of the system allows the Stop Channel to be connected to Wildlife Guide Walls.

Maintenance

The floor of the ACO Stop Channel should be covered with a layer of earth/leaves to a depth of 50–100 mm immediately before the first expected amphibian migration. Further ingress of earth is then removed in accordance with a maintenance schedule. The functioning of the system should be checked regularly to ensure lasting efficiency. As a minimum this should include a visual inspection prior to spring migration periods. A maintenance plan should be developed to keep the system free of accumulations of growths and leaves.

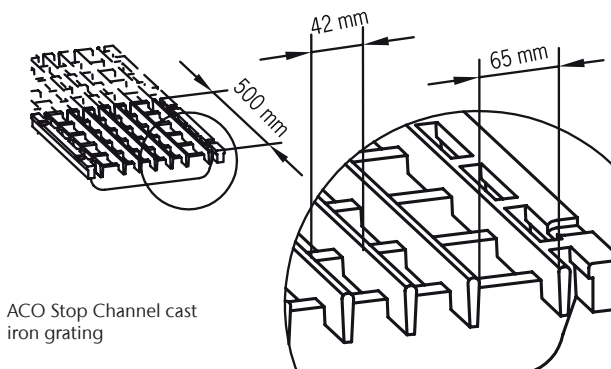
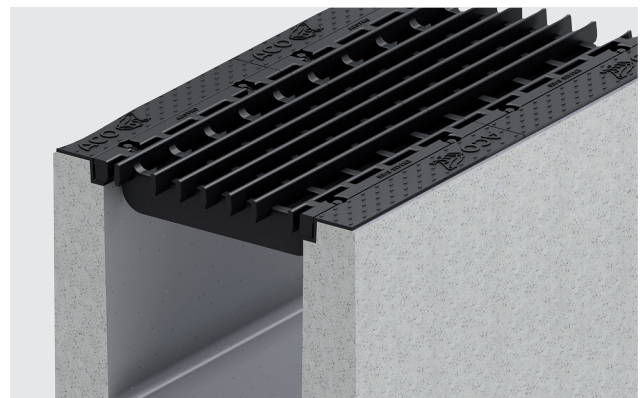


Protection of amphibians

Passing amphibians and those falling through the grating into the channel can proceed through the ACO Stop Channel without risk of injury. The grating has indentations and 65 mm wide openings which form an inherent barrier to amphibians passing across it.

The gratings are also provided with barriers against climbing over them.

The inner surface of the channel is lined with epoxy resin to protect the amphibians delicate skin from contact with concrete surfaces.



ACO Stop Channel cast iron grating



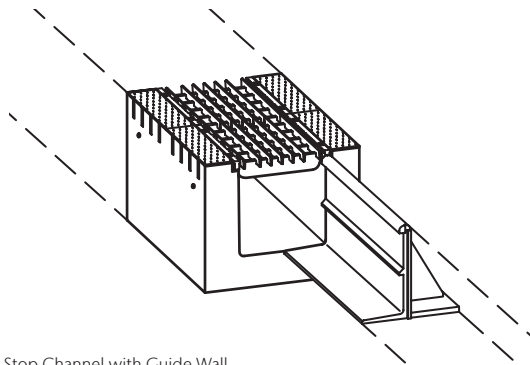
Tips on installing Guide Walls

ACO Stop Channels are used in side road and approach areas lateral to the roadway. In such areas they take over the function otherwise performed by guide fences.

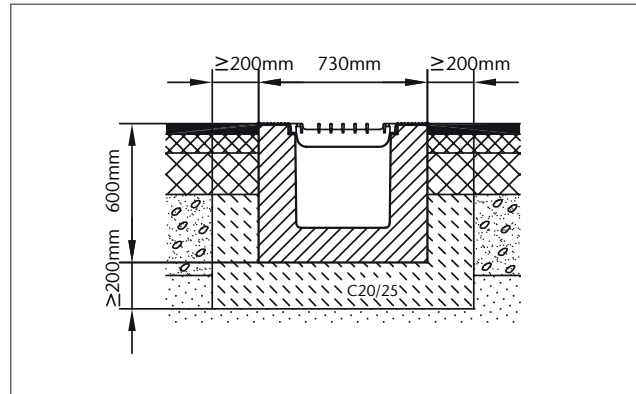
Stop grids and adjoining guide fences form a continuous, un-broken system.

Stop Channels and Guide Wall components are laid to the same floor elevation.

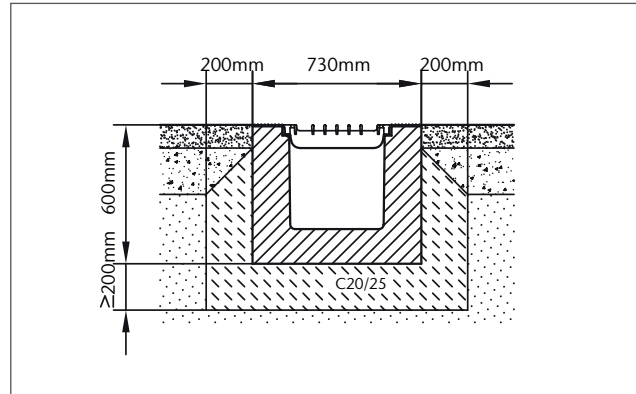
ACO Guide Walls are connected to the vertical walls of the ACO Stop Channel on both sides forming a close-fitting butt-joint. The final arrangement is determined in consideration of the biological requirements and depending on the possibilities existing at the location.



ACO Stop Channel with Guide Wall



Installation in asphalt



Installation in water-bound surface

Installation

STEP 1

Routing of the ACO Stop Channel should be determined by the ACO Guide Wall arrangement. Make two cuts in the road surface 1200mm apart or if necessary to the width of the digger bucket, or alternatively to suit any special requirements. Excavate the trench for the foundation to a depth of approx. 800mm.

STEP 2

Lay a C 20/25 concrete footing of 200 mm thickness and compact onto a loadbearing foundation. Position the ACO Stop Channel(s) on this concrete footing to the correct line and level. Ensure that the individual elements butt tight up against each other.

STEP 3

Place C 20/25 concrete lateral support to a depth of 200mm on both sides of the ACO Stop Channel. Fill and compact the voids to either side of the channel in layers evenly on both sides, using 0–32 mm or alternatively 0–45 mm gravel.

STEP 4

Repair the road surface to either side of the ACO Stop Channel as required. Take care to ensure that the space is not overfilled or underfilled. Clean any residual concrete and/or asphalt from the floor of the channel.

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