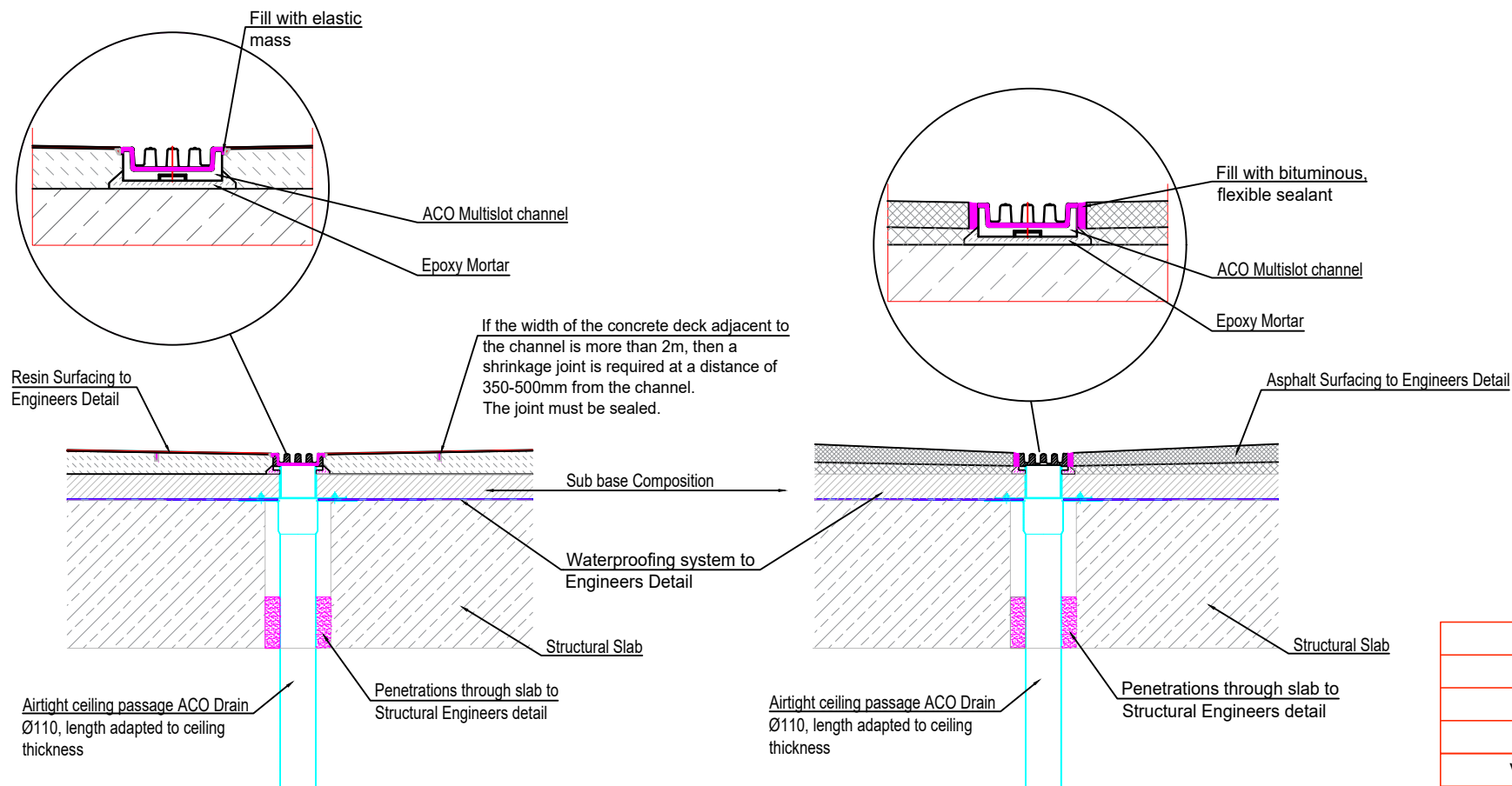


**1 : 20 ACO Multislot Concrete Floor**



**1 : 20 ACO Multislot Resin Floor**

**1 : 20 ACO Multislot Asphalt Floor**

**NBS Specification:**  
ACO Multislot should be specified in section Q10:180. Assistance in completing this clause can be found in ACO Technologies product entries in NBS Plus, or a model specification can be downloaded from [www.aco.co.uk](http://www.aco.co.uk). For further assistance, contact the ACO Water Management Design Services Team.

**Best Practice and Workmanship:**  
ACO can give guidance with respect to the most suitable methods of installation for each of the products in the ACO Multislot range. ACO Multislot should be installed using levels of workmanship that accord with the National Code of Practice (UK: BS8000-0:2014) and in keeping with BS EN 1433:2002 (Drainage channels for vehicular and pedestrian areas).

Detailed installation statements and methodologies will vary for all sites as each will have different aspects deserving particular consideration, consequently the relevant approvals should be sought from the consulting engineer and/or the installer.

**1.0 Load Class**  
Installation recommendations shown are ACO minimum recommendations for BS EN 1433:2002 load class requirements.

**2.0 Ground Conditions**  
The long term performance of a channel installation to sustain vertical and lateral loads depends upon A) ground conditions B) stability of the adjacent pavement and C) a durable concrete bed and surround. The recommended installation detail may require the minimum dimensions to be revised to achieve site specific load class requirements (referred to in 1.0 above).

**3.0 Cutting and Jointing**  
Mitre joints are formed by cutting the channels to the required angle and butting them together with appropriate sealant or ACO Repair Kit. For further details please contact ACO Design Services Team.

**4.0 Isolation Joints**  
If the width of the concrete deck adjacent to the channel is more than 2m, then a shrinkage joint is required at a distance of 350-500mm from the channel. The joint must be sealed.

**5.0 Installation into in-situ Slab**  
Where a channel is to be installed into an existing concrete slab it is necessary to cut a suitably sized pocket in the slab. The channel will then need to be bedded in polymer modified mortar of 25mm minimum thickness (this may vary depending on the type of mortar used). Engineering advice may be necessary.

**6.0 Temporary Installation**  
A channel installation is not complete until the final surfacing is laid. In any temporary condition, i.e. with the channel walls projecting above adjacent ground, site traffic should not cross channels. Loose boards, stone fill or cover plates will not protect the channel. A temporary channel crossing should be formed by raising the ground level locally, to 3 - 6mm above top of edge rail, either side of a channel for a distance of 750 to 1000mm, to form ramps. Note that the channel load class should be adequate to carry the site traffic.

**7.0 Channel Protection**  
Avoid contact between compaction equipment and top of ACO channel edge rail. Covering or protecting the channel, before concreting the haunch removes the time and cost associated with cleaning the channel and grating of cement material and embedded stones.

**8.0 Watertight Installation to BS EN 1433:2002**  
Where ACO channel joints/fittings and channel/pavement interfaces are to be sealed, an appropriate sealant should be used for the application. Guidance on the necessary surface preparation and/or priming should be sought from the sealant manufacturer.

For Guidance a typical method of application follows:

- The end faces of the channels are to be sound and free from dust, oil, and grease, with any loose material or dirt removed, e.g. by mechanical wire brush. No water drops should be evident.
- Using a standard cartridge gun, apply the sealant evenly and with no flaws. The detail on the ends of a channel varies from one product to another:
- Products with a basically flat face - apply the sealant in a layer approximately 5mm thick to one face of the joint.
- Products with a sealing groove within the end face - apply the sealant in a bead of approximately 10mm diameter into the sealing groove.
- Products with a sealing groove following the inside shape of the channel - apply the sealant to the end face of the channel and to the sealant groove, such that when the joint is completed, the sealant will both cover the end face and fill the groove.
- The channel unit should be placed on the prepared concrete bedding and pressed against the previously placed channel unit. A sealed joint of approximately 1-2mm width should be formed between adjacent channel units.
- Excess sealant should be wiped from the inside face of the channel to leave a smooth finish.
- The sealant is to be left to cure for 24 hours, during which time the sealant should be kept as dry as possible.

Note: Galvanised steel and iron products have good corrosion resistance to concrete and mortar products but may experience corrosion if high chloride and/or sulphate content is present. Use only good quality concrete and consider using corrosion inhibitors where necessary. The use of protective coatings, such as paint, can minimise the risk of corrosion.

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|------------------------|-----------------------|--|--|---------------|
| Version                |                       | Date   | Description  | Name          |
| ACO Technologies plc   |                       | ACO Business Park<br>Hitchin Road<br>Shefford<br>Bedfordshire<br>SG17 5TE, UK<br>Tel: 01462 816666<br><a href="http://www.aco.co.uk">www.aco.co.uk</a>                                   | Drawing Number: 24176<br>Title: ACO MULTISLOT CHANNEL<br>INSTALLATION DETAIL DRAWING | Revision: A   |
| Created by: RB         | Released by: RB       | Projection: ISO-A  |  | Units: mm     |
| Created at: 21.10.2022 | Released at: 13.02.21 |  |  | Format: A3    |
| Replacement for: -     | Replaced by:          | Information contained in this drawing is copyright property of ACO Technologies plc. Any reproduction in part or whole without written permission of ACO Technologies plc is prohibited. |  | Scale: 1 : 20 |
|                        |                       |  |  | Sheet: 1 of 1 |