

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

that rails do not have to be cut utilising ACO Qmax access/inlet/outlet/silt chambers. Angles can be formed by connecting them using proprietary pipework attached to ACO inlet/outlet endcaps. For further details please contact ACO Design Services Team. Where requested ACO can custom

bars must be located no nearer than 150mm from the channel wall. Other isolation joints in surrounding slab must be continued through the channel.

concrete, pour concrete in several lifts (e.g. 1 to the line on the side of the channel, 2 to the crown of the channel and 3 to the finished levels).

ground, site traffic should not cross channels. Loose boards, stone fill or cover plates will not protect the channel walls or grating. 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

The channel must be supported laterally. Blocks laid directly against a channel must be laid as a soldier course and restrained from movement by bedding securely on the concrete haunch e.g. by using a polymer modified mortar for bed and perpendicular joints (e.g. RONAFIX mortar mix C or similar). Blocks or slabs bedded on sand remote from the channel should be set at a higher level to compensate for possible settlement of the paving

the top of the edge rail (by at least 3-6mm). Covering or protecting the rail, before concreting the haunch or laying blocks, removes the time and cost associated with cleaning the channel and grating of cement material and embedded stones. During site work ensure that the plastic protective strip (supplied with the galvanised steel edge rails) or the ductile iron edge rail protector (supplied separately) is not damaged or displaced, in order to

smeared with lubricant jelly such as proprietary pipe joining lubricant. Guidance on the preparation should be sought from the lubricant manufacturer. ACO Qmax channels are tested to confirm compliance with the watertightness requirements of BS EN 1433 when filled with water to the top of the channel bore (below the inlet arches). Installation must be in accordance with ACO's recommendations and the recommendations of the lubricant manufacturer. It is envisaged that the channel joints would not be subject to movement, but any movement of the joint might compromise the

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

Plus, or a model specification can be downloaded from www.aco.co.uk. For further assistance, contact the ACO Water Management Design Services

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

Detailed installation statements and methodologies will vary for all sites as each will have different aspects deserving particular consideration,

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	D	3.8.2016	BS EN 1433 table amended			TS	7		
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