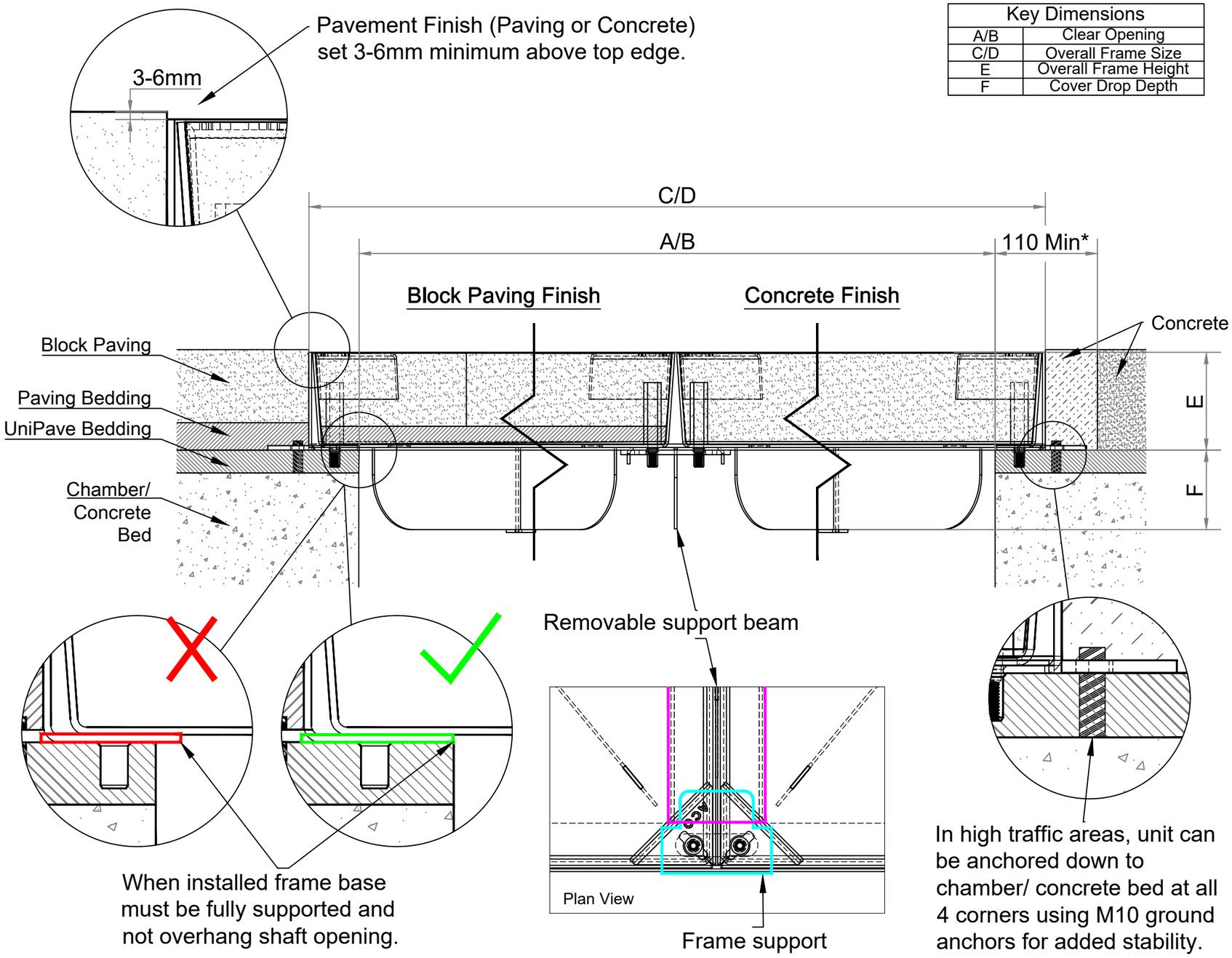
Key Dimensions	
A/B	Clear Opening
C/D	Overall Frame Size
E	Overall Frame Height
F	Cover Drop Depth



*See note 3.0

Best Practice and Guidance:

A: Galvanised steel 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.

B: ACO can give guidance with respect to the most suitable methods of installation for each of the products in the ACO UniPave. ACO UniPave GS should be installed using levels of workmanship that accord with the National Code of Practice (UK: BS8000-0:2014).

C: 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 in accordance with FACTA load class requirements.

2.0 Ground Conditions

The long term performance of an access unit 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 amendment to achieve site specific load class requirements (referred to in 1.0 above).

3.0 Installation into in-situ Slab

Where an access unit is to be installed into an existing concrete slab it is necessary to cut a rebate to accommodate the frame and anchors. Assuming the clear opening size of the access unit matches the chamber size, a minimum rebate of 110mm is sufficient to provide 5-10mm clearance. The access unit should then 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.

4.0 Temporary Installation

An access unit's installation is not complete until the final surfacing is laid. In any temporary condition, i.e. the access unit projecting above adjacent ground, site traffic should not cross the access units. If crossing is required, a temporary crossing should be formed raising the ground level locally, to 3 - 6mm above access unit, either side of an access unit for a distance of 750 to 1000mm, to form ramps. Note that the access unit load class should be adequate to carry light site traffic.

5.0 Block Pavements

The unit must be supported laterally. Blocks laid directly against the access unit must be laid as a soldier course. Blocks inside the tray and directly abutting the access unit must be restrained from movement by bedding securely on a polymer modified mortar bed (e.g. RONAFIX mortar mix C or similar). Blocks laid within the cover require a minimum bedding of 20mm.

Blocks or slabs bedded on sand remote from the access unit should be set at a higher level to compensate for possible settlement of the paving in service.

6.0 Concrete Floors

Care should be taken to ensure bedding doesn't seep into the chamber opening, and the pavement finish is higher than the access unit as per Pavement Finish drawing detail. Bedding to use C20/25 concrete or suitable alternative polymer modified mortar.

7.0 Cover Locking System

Cover should be securely fixed where required, using the lock system (where available). Care should be taken to maintain the original orientation of tray within the frame to reduce risk of locking point misalignment. Maximum locking screw torque setting: 10Nm.

8.0 Finish Protection

Avoid contact between compaction equipment and top of access unit. The installer is to ensure that the finished surface level lies above the top of the access unit(by at least 3-6mm). Covering or protecting the edges, before concreting the haunch or laying blocks, removes the time and cost associated with cleaning cement material and embedded stones from the surface finish. (Please note that ACO UniPave must be installed with the tray in place to prevent deformation of the access unit).

9.0 Support Beam

Ensure the central support beam is correctly seated on frame supports prior to fitting the covers. Support beam is removable to gain clear access to the opening.

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A	02/07/2025	INITIAL ISSUE	ALP	

ACO Technologies plc
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Title:

UNIPAVE INSTALLATION MULTI COVER

Created By: ALP	Created at: 02/07/2025	Projection: ISO-E	Units: mm	Format: A3	Scale: NTS
Protection Note : ISO 16016					Sheet: 1