

## EASYPIT® ACCESS CHAMBER SYSTEM INSTALLATION GUIDELINES

The EasyPIT® system can be supplied as complete chambers fully assembled with pre-drilled duct entries/exits or plain 150mm deep segments for coring on site. We recommend the following installation instructions.

1. Mark out area for chamber and allow a minimum 250mm on all sides for backfilling with the client specified material.
2. Excavation depth can vary. Excavate allowing for the overall depth of the chamber plus base slab, cover and frame/mortar. A poured concrete base for D400 applications should be a minimum C20 grade concrete and a minimum of 150mm deep. Advanced recommend the use of our EasySLAB® for D400, E600 and F900 loadings - a fully certificated reinforced concrete factory made base unit with an upstand and sump unit already installed. (D400 base slabs are 150mm deep E600 and F900 are 200mm deep). B125 loading chambers can be placed on a 100mm deep compacted MOT Type 1 base.
3. After the base is installed place the chamber/segment into the wet concrete and push in by approx. 25mm. Alternatively, if using the EasySLAB® system, place over the upstand. (This will prevent lateral movement and will not require haunching). There is a directional arrow for correct chamber/segment installation on corners.
4. Core Drilling for duct entries/exits - 110mm ID dia. duct entries can be drilled using the “+” on external faces for positioning of lead drill. 150mm ID dia. Duct entries will core through two segments. The lead drill should be positioned 25 mm below the joint in two sections. Speed of drill should be noted as the material is polypropylene and will buckle if speed of drill is too fast. 150mm ID dia. ducts should be surrounded in concrete. NB - duct entries must not be cut within 50mm of corners.
5. Cable Management Equipment – attach any cable bearers, brackets or step irons to the chamber walls using the nuts, bolts, washers and backplates provided. Alternatively, chambers can be supplied with cable management equipment pre-installed to site specific positions. Please note, chamber equipment cannot be retro-fit, once chamber has been installed.
6. Prior to backfilling strutting is required for chambers 900x900mm and above. For chambers with side walls over 1200mm 2/3 struts are recommended. For chambers with side walls of 1500mm and above ACROW props will be required in either direction. Bracing plans are provided for bespoke chamber requirements.
7. Backfilling - Using the specified client material backfilling to be carried out in Max 300 mm deep increments. MOT Type 1 to be compacted as required. For chambers of 1500x1500mm and above, we would recommend a minimum 200mm C40 concrete surround. We would also recommend a full concrete surround to any chamber depth exceeding 1800mm.
8. Cover and Frame - Once the chamber has been backfilled the frame can be placed on top of the installed chamber. An acceptable bed of Mortar (to be specified by client) is placed on the top of chamber and the frame and levelled off. Once the mortar has set the struts can be removed and the cover placed in the frame.

**Note:** These guidelines suggest the acceptable methods for installation of EasyPIT® Access Chambers. These are guidelines only and are not intended for any specific construction project or installation. Advanced accept that there are alternative ways that might be required and/or recommended based on site or project specific conditions.

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## Bracing Guidelines

We recommend when bracing, Acrow-Props and timber foot plates are used.

Chamber Side Wall Length	Bracing Required	Depth
1200mm - 1500mm	One central brace	300mm from top of chamber
1500mm - 1800mm	Three braces evenly spaced	300mm from top of chamber
1800mm and above	Bracing at 600mm intervals	300mm from top of chamber



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Product	Loading	Excavation	Base Material	Bracing	Backfill
EasyPIT® CONNECT	A15	250mm	50mm of sand	Bracing required on all chambers with a side-wall greater than 900mm	As dug material
	B125	250mm	50mm of compacted stone		As dug material or compacted MOT Type 1
	D400	250mm	150mm of lean mix concrete (C20) reinforced with A393 mesh		Min 150mm C40 concrete
EasyPIT® ULTRA	A15	250mm	50mm of sand	>1200mm central bracing in both directions	Sidewall length up to 1200mm as dug granular
	B125	250mm	50mm of compacted stone	>1800mm double bracing evenly spaced in both directions	Sidewall length up to 1200mm compacted MOT Type 1 stone or lean mix concrete
	D400	250mm	150mm of lean mix concrete (C20) reinforced with A393 mesh	>2100mm bracing at 600mm centres in both directions	Sidewall length up to 1200mm compacted MOT Type 1 stone or lean mix concrete
					Sidewall length greater than 1200mm minimum 150mm C40 concrete

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