



Overview

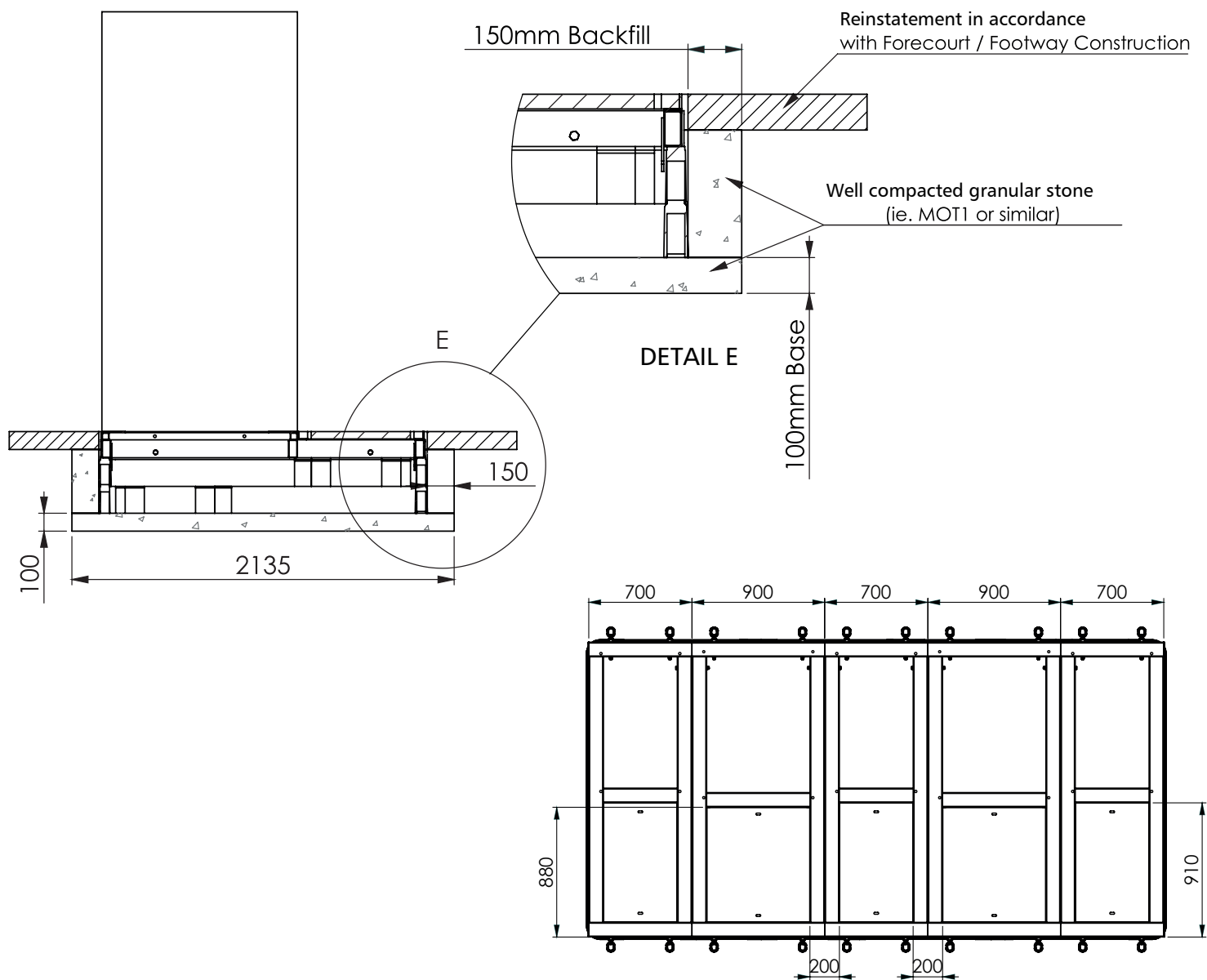
The NAL EV Charging Cabinet Base is an innovative, modular system designed to serve as a secure foundation for all types of EV charging cabinets. The system facilitates both the civils and cabling phases of installation, keeping both entirely separate. Future maintenance works are also simplified, providing greater accessibility to equipment and cables, as well as the adaptability for any type of future upgrades or cabinet changes.

The system is comprised of a STAKKAbOX™ Ultima Connect access chamber, providing a positively ducted base. Modules for each cabinet are positioned and bolted down to the top of STAKKAbOX™. Each module provides an area for either a transformer, power or communications cabinet to sit upon, with a second area positioned in front of the cabinet for a composite manhole cover, providing access to cables and equipment.



Features and Benefits

- ♦ Smaller excavation compared to traditional methods due to eliminating a concrete surround
- ♦ Positively connected duct network (no holes or gaps in duct)
- ♦ Void of chamber and backfill requirements removes concrete volume
- ♦ Installation is not weather dependant for chamber construction
- ♦ Civil work can be completed and made safe without the need for EV charging units to be on site
- ♦ Chamber system is modular so can be designed to suit 1-10nr cabinets long, reducing overall footprint
- ♦ Allows access to all of the cabinets when required
- ♦ Enables extra cables and cabinets to be added easily added or existing cabinets to be upgraded or changed
- ♦ A gland tray can be designed to suit requirements, eliminating the need for any sealing and help with cabling
- ♦ Easier for electrical contractor to cable and link cabinets
- ♦ Reduction in installation time for both electrical and civil works
- ♦ Modular solution enables any cabinet configuration



EV Cabinet Base Product Specification

The Cabinet Base system is to be constructed using thermoset glass reinforced polymer (GRP) stackable twin wall access chamber capable of withstanding a minimum of F900 (90T) vertical load.

Access chambers must have the ability to be constructed to any dimension within 100mm but must not have joints or corner sections.

It must have a heat deflection temp of $>200^{\circ}\text{C}$ and a reaction to fire, D -S3, D0 (EN13501), reaction to fire (single flame source), pass @ 30SEC (ISO 11925-2).

It must have a co-efficient of linear thermal expansion $< 33 \times 10^{-6}\text{M/M}^{\circ}\text{C}$ (ISO 11359-2).

All Cabinet Modules must be constructed from aluminium and must be polyester powder coated with a maximum unit weight of 20kg.

All Modules should have a separate recessed aluminium gland tray with IP rated glands to suit all incoming cables.

Cover Modules must be anti-slip lightweight composite capable of withstanding a minimum A15 (1.5T) vertical load.

Frames must be constructed from aluminium with a maximum unit weight of 15kg.



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