

## CORGRID



### Product Identification:

- Each Corgrid panel is identifiable through the label applied. Where the panels are delivered in a pre-formed U-shape profile, a schedule is provided indicating the dimensions and quantity of each panel type delivered.

### Product Selection & Suitability:

- The suitability of Corgrid for the application it is intended should be based upon the recommendations and specification of the Project Design Team and in accordance with the following:
  - > NHBC guidance (where applicable)
  - > Cordek Corgrid Data Sheet

### Storage & Handling

- Packs of Corgrid and individual panels can be manually handled and offloaded upon delivery, taking into account any site specific manual handling regulations.
- Due to the relatively light nature of the product, all Corgrid packs / panels should be weighted down or secured should they be stored outside prior to installation. No further storage requirements are needed as the product is unaffected by both UV light and water.
- Corgrid panels must not be exposed to flame or ignition. Careful consideration should also be given to the management of fire risk when in storage; detailed guidance is given in the material safety data sheet which is available upon request.

For further guidance on product selection and suitability, please consult the Cordek Technical Team on 01403 799600, [techsupport@cordek.com](mailto:techsupport@cordek.com) or visit our website at [www.cordek.com](http://www.cordek.com).

## INSTALLATION

### General:

- The excavations for the ground beams must be carried out generally in accordance with BS 6031 : 2009 paying particular attention to any site specific safety procedures or requirements.
- Installation of the Corgrid panels should be undertaken from outside the excavation where possible unless appropriate measures are in place to allow safe entry. Precautions should be taken to ensure the sides of the excavation do not collapse during installation of the product, for example using shoring.
- Where there is a requirement to cut the panels, this should be undertaken using a sharp, bladed tool and a pair of bolt cutters, with the necessary precautions taken.

### Preparation:

- Corgrid panels should be placed upon a suitable firm and level surface. Typically, a blinding layer beneath the panels is recommended.

### Procedure:

- Individual Corgrid panels should be overlapped by placing one inside another with a minimum overlap of 150mm (which is one space between the vertical wire core) and secured with steel tying wire / cable ties around the wire cores from each panel.
- For piled ground beams, the top of each pile should be trimmed so that it extends slightly above the proposed underside of the ground beam. Each pile should penetrate the Corgrid panel to allow for a keying depth into the ground beam based upon the project specific design.
- When using flat Corgrid panels to form a U-shaped profile, they can be manually manipulated on site by bending them around a straight edge e.g. a length of timber to form the 90-degree bends required.

### Connecting Corgrid Panels:

- **Step One:** Place one U-shaped panel inside another, with a minimum 150mm overlap.
- **Step Two:** Use steel tying wire or cable ties to secure the two panels together on both vertical sides of the U-shaped profile. This can be done by pushing the tie through the polythene sheet that encapsulates the steel wire core and tightening around two adjacent vertical wires.

## Inter-connecting beams:

- **Step One:** Cut the vertical panels and manipulate them by 90-degrees to allow them to open towards the perpendicular connecting beam.
- **Step Two:** Position perpendicular panels with vertical sides on the outside of the opened connecting panels, with a minimum 150mm overlap.
- **Step Three:** Use steel tying wire or cable ties to secure the two panels together on both vertical sides of the U-shaped profile. This can be done by pushing the tie through the polythene sheet that encapsulates the steel wire core and tightening around two adjacent vertical wires.

## Corner Detail:

- **Step One:** Position the pre-formed external corner unit within the excavation prior to connection of the perpendicular panels.
- **Step Two:** Place perpendicular panels with vertical sides on the inside of the pre-formed external corner unit, with a minimum 150mm overlap.
- **Step Three:** Use steel tying wire or cable ties to secure the panels and pre-formed corner unit together. This can be done by pushing the tie through the polythene sheet that encapsulates the steel wire core and tightening around two adjacent vertical wires.

## Concrete Placement:

- Prior to placement of concrete, any voids between the excavation and the external, vertical sides of the Corgrid panels should be backfilled with loose, granular material.
- Reinforcement spacers can be positioned directly upon / against the Corgrid panels.
- The number, type and frequency of the reinforcement spacers should be selected to maintain adequate concrete cover between the reinforcement and the Corgrid panels. Further guidance on the use of reinforcement spacers can be found in the relevant Cordek data sheets and in BS 7973-1 (2001).
- Reinforcement or other construction materials should not be stockpiled on top of the Corgrid panels.

DISCLAIMER: Information contained within this 'Installation Guide' is for guidance only, and it is intended for experienced construction industry workers. It contains summaries of aspects of the subject matter and does not provide comprehensive statements of construction industry practice. As conditions of usage and installation are beyond our control we do not warrant performance obtained. Please contact us if you have any doubt as to the suitability of application. The information provided within this document is based on data and knowledge correct at the time of printing.