



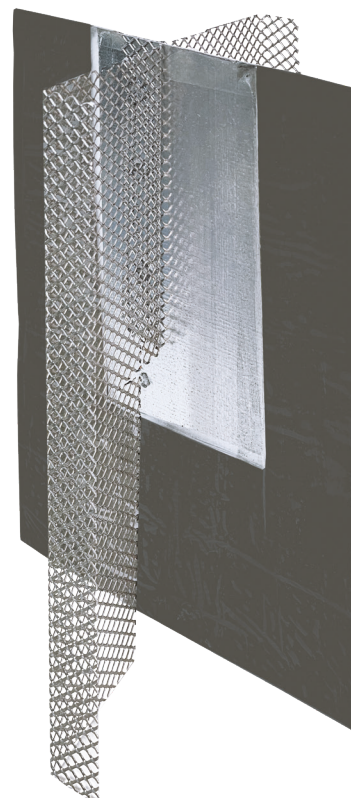
### Permanent Formwork for Construction Joints

#### Description

- WaterBar Rigid CJ is a permanent formwork element, with a solid metal cross member incorporated into it, designed for construction joints within concrete structures.
- These elements can be installed in foundation slabs and walls made of reinforced concrete.
- WaterBar Rigid CJ is not self-supporting in heights > 300 mm.
- In such circumstances they need to be secured to stay in place.
- Elements are supplied in standard lengths of 2 m. The width of the metal sheet cross member is 200 mm with a thickness of 1.20 mm.

#### Coating options

- There are two coating options for the metal cross member element of the WaterBar Rigid CJ:
  - Bituminous layer (WaterBar Rigid CJ – B): A modified bitumen is applied on the surface of the metal sheet cross member. The bituminous layer is protected by a foil, which must be removed before being covered in concrete.
  - Bentonite layer (WaterBar Rigid CJ – C): A natural sodium bentonite is applied on the surface of the metal sheet cross member. The bentonite layer is protected by a foil which dissolves in the alkali environment of the concrete mix. (Note: This foil is not removed. It stays on the metal element during placement of the concrete.) The bentonite coating on the metal cross member should always be placed facing towards the flow of the incoming water.





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## WaterBar Rigid CJ

### TECHNICAL DATA SHEET

### Storage

- All products should be stored, in their original sealed packaging, in a dry environment and away from direct heat. Keep covered and away from possible damage or premature contact with water.
- Shelf life is 12 months from date of manufacture.

### Installation

#### Slabs

- Ensure the continuous spacers (ideally made of concrete) are placed below the lower reinforced steel mat to stop concrete migrating beyond the joint line. If these are not available, please use block spacers (again ideally concrete) and a wooden batten between to stop the concrete migrating beyond the joint line.
- Place the WaterBar Rigid CJ on the lower reinforced steel mat, with the bitumen or bentonite on the bottom side of the horizontal plane.
- Securely fix the wire vertical element to the upper and lower reinforced steel mats using tie / binding wire or other appropriate methods.
- Slide the next WaterBar Rigid CJ to interlock with the first and press the bitumen or bentonite on to the upper horizontal steel face to create a bond.
- Continue until the edge of the pre-determined pour.
- If the vertical wire element is greater than 300 mm then mechanical fixing (or possibly mechanical support) maybe required to withhold the weight of the fresh concrete.
- Place a wooden batten directly on top of the upper layer of steel reinforcement mat in line with WaterBar Rigid CJ vertical wire, to withhold the concrete above the steel to again stop the concrete migrating beyond the joint line.
- Pour concrete.

#### Walls

- Place the WaterBar Rigid CJ between the 2 mats of reinforcement with the bitumen or bentonite facing the positive side of the water pressure.
- Place wooden battens either side of the WaterBar Rigid CJ and in line the vertical wire, directly on the steel reinforcement mat.
- Securely fix the wire vertical element to the rebar using tie / binding wire or other appropriate method.
- Slide the next WaterBar Rigid CJ to interlock with the first and press the bitumen or bentonite on to the vertical steel face to create a bond.
- Continue until the end of the pre-determined pour.
- If the vertical wire element is greater than 300 mm then mechanical fixing (or possibly mechanical support) maybe required to withhold the weight of the fresh concrete.
- Pour concrete.





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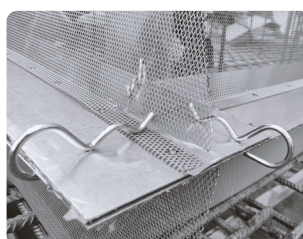
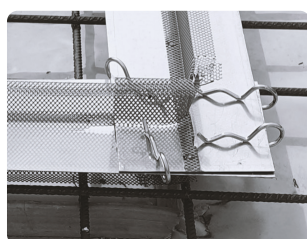
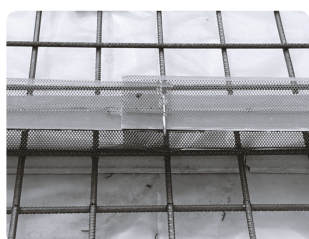
## WaterBar Rigid CJ

### TECHNICAL DATA SHEET

#### Note:

1. The WaterBar Rigid CJ must connect to any WaterBar Rigid KJ.
2. All waterproofing jointing elements (regardless of whether they are active, static or a combination) must connect to create a complete sealed system.

Please refer to your Manorteq representative for more information.



## Warranty

Manorteq Limited (Company No. 13817118) warrants to the purchaser that the products supplied by it shall be free from material defect. Should any of the products be proven defective, the liability to Manorteq Limited shall be limited to (at the choice of Manorteq Limited) either replacement of the proven defective products ex-factory, or refund of the NETT ex-factory purchase price at the date the proven defective products were supplied. Manorteq Limited will not be liable or responsible, to such an extent as permitted by law, for any consequential or direct damages, compensation, costs, expenses, losses or other liabilities that may occur as a result of the defective products. Manorteq Limited makes no warranty as to the merchantability or fitness for a particular purpose and the terms of this warranty are in lieu of all other warranties expressed or implied by law.

Please note: This Technical Data Sheet is for general guidance only. It does not constitute as a detailed guide for a specific application. Due to the unique circumstances of every site, each installation must be assessed on a project-by-project basis as there may be many variables to consider. Independent professional advice should be sought on each installation. The information contained within this Technical Data Sheet is to the best of Manorteq Limited's knowledge and belief, accurate and reliable of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness.

