

DINCEL PRODUCT INFORMATION

Dintel is a permanent polymer formwork to hold wet concrete until the concrete hardens. DCS (Dintel Construction System Pty Ltd) manufactures and sells Dintel formwork.

The following items are important to understand and accept, if you the customer decide to purchase and use the Dintel Wall as an end product.

1. DINCEL PRODUCT SALE AND ACCEPTANCE BY THE CUSTOMER

The product is sold as is. All sales are final subject to the Dintel Terms and Conditions of Sale. [**\(download\) Terms and Conditions of Sale.**](#)

2. DINCEL WALL INSTALLATION GUIDE FOR CUSTOMERS

DCS does not offer installation services hence do not assume installation related responsibilities. The installation of Dintel incorporates: Dintel Forms' installation, ordering and placing the concrete infill, including steel reinforcements as required by Dintel's customers' own building professionals.

The customer needs an aesthetically pleasing end result which is in compliance with the Building Code of Australia and is cost effective. **In the Dintel Construction Manual, under Installation and Concreting, there are critical items such as:**

- (i) Installer's Dintel Product Acceptance Criteria – refer Item No: (I)
- (ii) How to avoid bulging during concreting – refer Item No: 6.
- (iii) Concrete specification, particularly the water/cement ratio – refer Item No: 13.
- (iv) Concrete placement – refer Item No: 9.
- (v) Upon concreting, the top of Dintel Walls must be protected against moisture/water entry permanently – refer Item No: 7.
- (vi) Items No: (ii) to (v) above should be read in conjunction with [**\(download\) FINISHES.**](#)

3. DINCEL WALL WATERPROOFING

The DCS formwork test panel was installed, concrete filled and tested under 6m of water head pressure by the CSIRO which confirmed that the product is waterproof. Refer [\(download\) WATERPROOF WALLS](#) for test certificates. The waterproofing quality of the Dincel product can only be compromised if a damaged product is installed or the product is damaged during the installation process. The document [\(download\) DINCEL WATERPROOFING WARRANTY](#) explains what could possibly go wrong in a construction site and how to avoid problems.

DCS cannot provide any waterproofing warranty for the installed wall because DCS does not get involved with engineering design-detailing, installation – concreting/steel placement.

Apart from the wall itself, the floor/footing junction of Dincel Wall is also required to be made waterproof (if required) by the builder/building professionals. DCS displays example details in the Dincel Construction Manual. The use and adaptation of these details are the customers' (and their building professionals) responsibility which must be determined on the subject construction site specific basis.

Waterproofing at a Basement Wall

The document [\(download\) BASEMENT CONSTRUCTION](#) (or the Dincel Construction Manual) shows example details.

Waterproofing at a Water Tank / Lift Pit

The document [\(download\) WATER OR LIQUID STORAGE TANKS](#) (or the Dincel Construction Manual) shows example details. The waterproofing at the floor-wall junction must be provided by the membrane systems. If the builder/installer cannot rely on the workmanship of the installation team, then the builder may consider extending the membrane to the entire internal face of the water tank/lift pit wall. This way, there is no reliance on the waterproofing of Dincel panels which is therefore functioning as a cost and time effective formwork only. It should be remembered that the alternative is in-situ concrete walls which require a waterproof membrane irrespective.

The other consideration is that in-situ walls' crack width must be limited to 0.1mm in width which requires significantly more steel bars than the Dincel Wall which comes with an inbuilt crack control mechanism which eliminates excessive use of steel bars as certified by the University of New South Wales. Therefore, there is no possibility for in-situ concrete walls that will match the speed and cost of Dincel Wall.

4. BUILDING FAÇADE WALLS RECEIVING RENDER/PAINTE FINISH FOR AESTHETIC PURPOSES.

DCS is not a paint/render manufacturer or applicator. There are many applications where Dincel can be used with or without paint/render finishes. If the reader intends to use finishes on Dincel Wall, please read the following [\(download\) FINISHES](#).

5. DCS STATEMENT

Dincel is a transparent company who stand by their product. We will at all times be supportive and informative to our customers and address all queries/issues to ensure that our very high rate of satisfaction by our customers is maintained. We will always endeavour to provide answers and solutions to our customers.