CANZAC® GROUP

Improving the performance of concrete worldwide©



FORMWORK SYSTEMS

DUALCAST CONSTRUCTION JOINT

INSTALLATION INSTRUCTIONS

DualCast is a leave-in-place uPVC screed rail for construction joints where joint armouring is not required. Select the rail build-up to suit the slab depth within the 85–225 mm system range.

1 Select the rail and prepare the base

Confirm the slab depth and finished level from the drawings. Choose the rail, top strip and any extender to suit. Prepare a firm, even base with no large gaps under the rail foot.

2 Set out and join the lengths

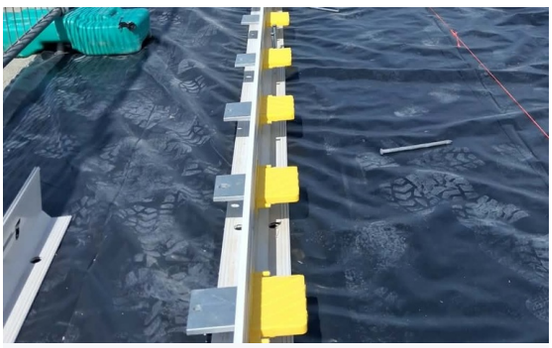
Set out the joint line, cut the rails to length and connect the ends with the supplied black joiners. For a continuous run, cut the first extender or top strip in half and fit it at one end. Clip full lengths into place so they span the rail joins and keep the rails aligned.

3 Set the rail to height and secure it

Pinning is preferred for a full-depth slab joint. Level the rail on 150 × 100 × 5 mm packing shims. Drive the 200 mm DualCast fixing pins straight through the foot into the ground. Typically use three shims and six pins per 2.4 m. Alternatively, bed the rail on concrete dabs the day before the pour. Set it to finished level and allow the dabs to harden. Check line, level and stability before pouring.

4 Fit the specified dowels

CANZAC can slot rails for plate dowels or drill them for round dowels to suit the slab height and required centres. Fit the dowels and sleeves as specified on your construction drawings.



DUALCAST ON SITE

Rail and plate-dowel assembly set out before the pour.

STEP 2 / STAGGER THE JOINS

Extender or top strip

Half starter	Full length	Trim to fit

Rail lengths

Rail 1	Rail 2

Full length spans the rail join

ORDERING PRE-SLOTTED OR PRE-DRILLED RAILS?

Give CANZAC the slab depth, dowel type and size, dowel height and centre spacing required.

CANZAC® Under Slab - In Slab - On Slab® | LESA SYSTEMS | MONSTA-SLAB | converge | ROMBUS INDUSTRIES | CANZAC® LTD Concrete Lifting Systems®



FORMWORK SYSTEMS

DUALCAST CONSTRUCTION JOINT

INSTALLATION INSTRUCTIONS

5 **Check the joint before pouring**

Check the rail is straight, secure and supported along its base. Confirm the top strip is aligned with the finished surface level and the dowels and sleeves match the project detail.

6 **Place, consolidate and screed**

Consolidate concrete along the rail and around the dowels and sleeves without shifting the assembly. Screed flush with the top strip and clean off slurry during finishing. DualCast suits twin-beam, roller and vibrating screeds.

7 **Leave the rail in place and finish the joint**

The rail body stays in the slab. Leave the top strip in place or remove it later, once the concrete has hardened enough to protect the edges. If removed, clean the rebate and fill it with a UV-stable joint sealant such as Duroseal 50FC, following the sealant application instructions.



PLATE DOWELS / SLOTTED RAIL



ROUND DOWELS / DRILLED RAIL

For installation support, please call CANZAC.