CANZAC® GROUP

Improving the performance of concrete worldwide©



ARMOUR JOINTS

ZIG ZAG® CURVE & STRAIGHT JOINT

INSTALLATION INSTRUCTIONS

The CANZAC ZIG ZAG® is an armoured construction joint engineered to protect slab edges and give hard-wheeled traffic a smoother crossing on industrial concrete floors and pavements. Follow the instructions for the freestanding or nail-on system supplied for your project.



INSTALLATION OPTIONS

FREESTANDING

Set out and fix the joint using its unique feet. The ZIG ZAG joint can be used for simultaneous or staged pours.
See pages 2-3.

NAIL-ON

Fix the armour to timber boxing for a staged or stop pour. See page 4.

PRODUCT IDENTIFICATION

CODE	CONFIGURATION	LENGTH / UNIT
15 8201.6	Freestanding joint	2.385 m
15 8463	Nail-on joint	2.385 m
15 821	Freestanding universal intersection (3 & 4 way)	Each

ARMOUR JOINT ACCESSORIES

14109	Armour Joint 300mm Long FLAT Fixing Peg
68088	Armour Joint Fixing Bolt + Shim

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FREESTANDING / SET OUT AND ASSEMBLE

Set out the joint locations as shown on the approved construction drawings.



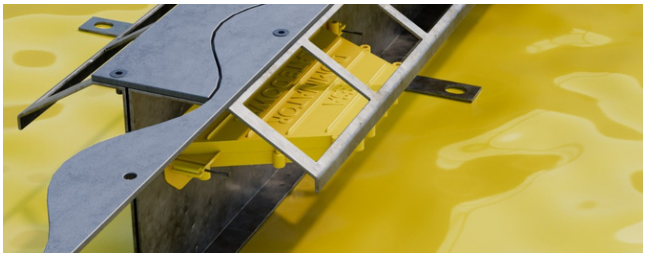
Step 1. Check the base and set out

Check the sub-base against the slab drawings. A joint height 5 mm below nominal slab depth is typical. Check the base tolerances and supplied height. Set a stringline or laser on the joint line.



Step 2. Lay out the joint

Lay out the joint lengths along the line shown on the approved joint layout. Mark intersections, stop ends and isolation points.



Step 3. Join lengths and trim the end

Use the specified CANZAC fasteners. Never replace nylon fasteners with steel. Call CANZAC for replacements if any are lost or broken. Cut the end length to suit, allowing for any specified isolation gap.



Step 4. Set level and plumb

Use a laser or dumpy level to set the first length at both ends and the middle. Set the top steel plate to FFL and check it is plumb.

PRE-POUR CHECK

Check the joint line, level, connections between joint lengths and end isolation. The joint should sit flush against the expansion foam around the column isolator without compressing it. Make sure the joint is securely bolted or pinned down so it does not shift during concrete placement.

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FREESTANDING SYSTEM

Choose the fixing method to suit the base. Check line and level before placing concrete.

Step 5. Fixing directly to the prepared base

Sit the joint on the prepared base and secure both ends of each foot with CANZAC Armour Joint Fixing Pegs. Position the pegs between the centre and outer end of each slot. If a peg penetrates the damp-proof membrane (DPM), seal over the peg and foot with STEGO tape.

Step 6. Fixing to a site concrete strip

Use a site concrete strip 400 mm wide by 100 mm deep. The joint is supplied to sit 5 mm below finished floor level (FFL). Place a 5 mm packing shim under each foot where required to bring the top plate to FFL. Check line and level, then secure both ends of each foot to the strip with CANZAC masonry bolts.



Zig Zag foot and fixing slot on site.

BOTH ENDS CAN BE BOLTED

Each foot is welded to only one half of the joint. The other half can move as the joint opens, even with both ends of the foot bolted down.

Both foot bolts can stay in place for stop pours and MonoPour.

Step 7. Place, consolidate and finish flush

Place the concrete to the top of the steel. Consolidate the concrete thoroughly along both sides of the joint. Finish flush with the joint edges and clean any slurry off the top plates.



FINISH FLUSH WITH THE STEEL

Place and finish the concrete flush with the top plate of the joint. Do not finish above or below the top plate.

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NAIL-ON / TIMBER FORMWORK

Step N1. Set and fix the boxing

Set straight, stable boxing in place. Fix Side 1 of the armour joint to the timber through the intended fixing points. Set the steel top plate to FFL. Brace the boxing and confirm which face receives the first pour.

Step N2. Install the dowel sleeves

Fix the specified sleeves to the first-pour face of the boxing at mid-depth of the slab, using the centres shown on the drawings. Keep them square, level, tight to the boxing, and clear of debris and reinforcement.

Step N3. Pour the first bay

Consolidate the concrete along the joint and around the sleeves. Keep the vibrator clear of the sleeves. Finish flush with the top plate and remove any slurry. Once the concrete can support the edge, release the fasteners and strip the timber boxing.

Step N4. Prepare and pour the next bay

Insert the specified dowels into the sleeves. Secure the second side of the armour joint with the supplied top bolts. Place and finish the second pour.

IMPORTANT: Remove the temporary top bolts 4 hours after the second pour. The bolts must be removed the same day.



Finished Zig Zag joint shown. Refer to the project detail for nail-on fixings.

BEFORE POURING THE ADJOINING BAY

Check the plate dowels are seated and free to move in their sleeves. Never force a dowel into a damaged or misaligned sleeve.

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INTERSECTIONS

Ensure you use the supplied intersections. Do not cut and butt joints.



Installed Zig Zag intersection.

SET OUT THE INTERSECTIONS

Use the specified universal intersection at three-way or four-way junctions.

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