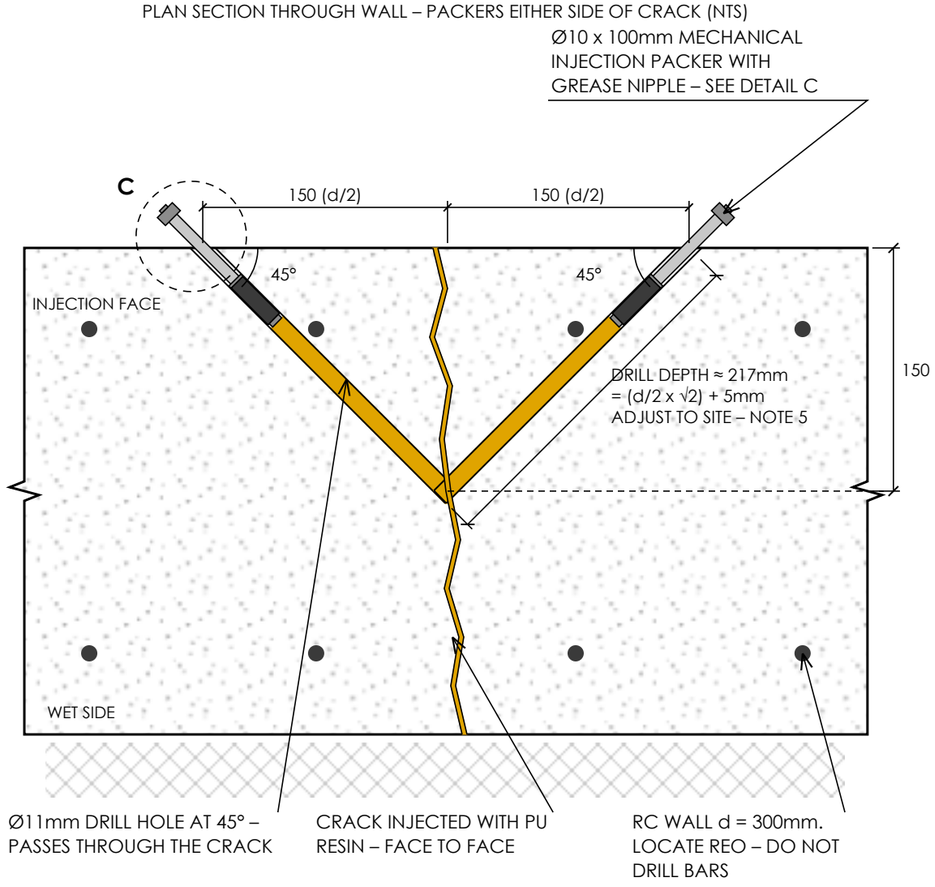
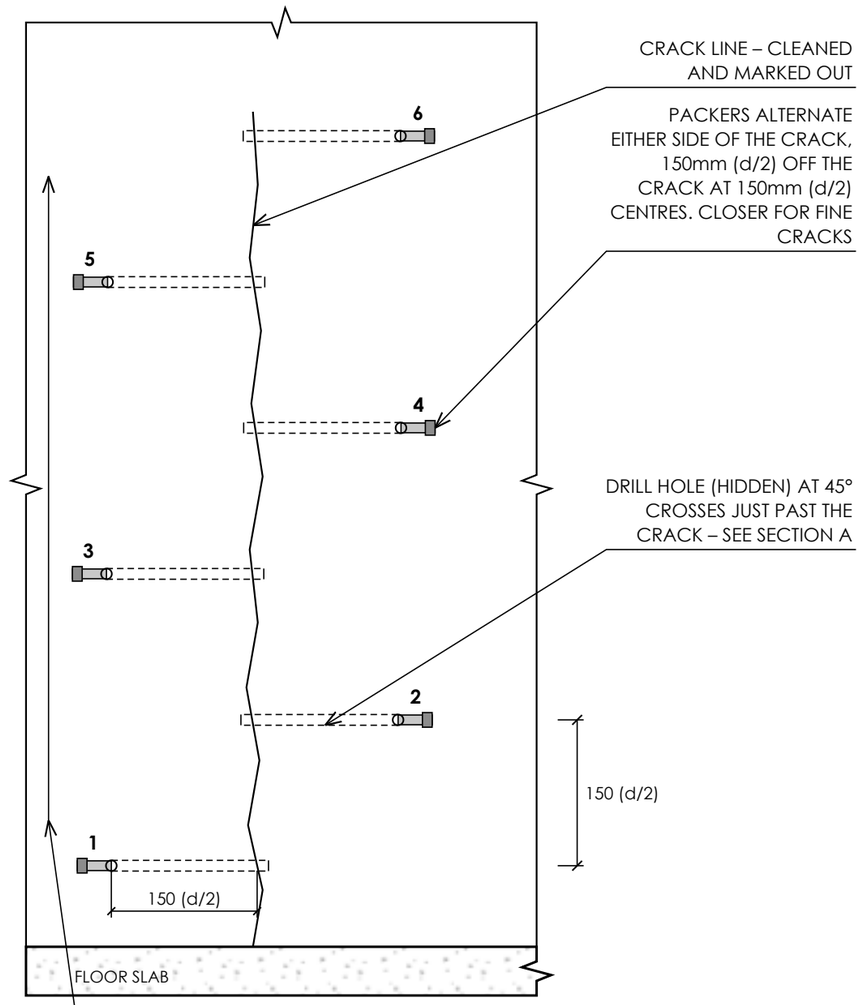
SECTION A

PLAN SECTION THROUGH WALL – PACKERS EITHER SIDE OF CRACK (NTS)



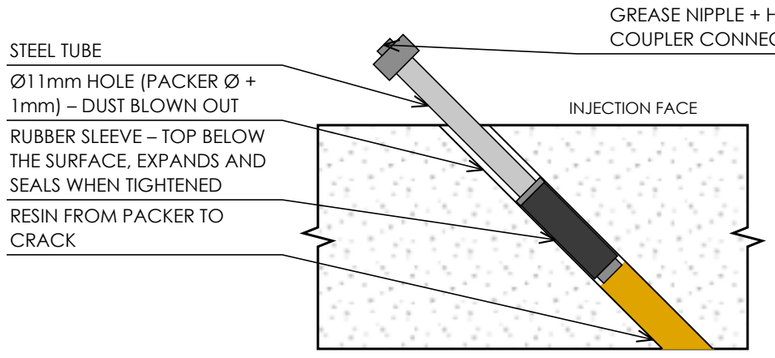
ELEVATION B

WALL FACE – PACKER LAYOUT AND INJECTION SEQUENCE (NTS)



DETAIL C

Ø10 x 100mm MECHANICAL PACKER INSTALLED (NTS)



CONCRETE
PU INJECTION RESIN
RUBBER SLEEVE
PACKER – STEEL
DRILL HOLE (HIDDEN)
GROUND / WET SIDE

NOTES

1. READ WITH THE PROJECT WPS, THE INJECTION RESIN AND PACKER TDSs AND SDSs. THE STRUCTURAL SIGNIFICANCE OF ANY CRACK IS FOR THE PROJECT STRUCTURAL ENGINEER. d = WALL THICKNESS (300mm SHOWN).

STAGE 1 – PREPARE

2. CLEAN THE WALL FACE ALONG THE CRACK. REMOVE LAITANCE, EFFLORESCENCE AND LOOSE MATERIAL SO THE CRACK LINE IS CLEARLY VISIBLE. MARK OUT THE PACKER POSITIONS.
3. LOCATE THE REINFORCEMENT (COVERMETER). DO NOT DRILL THROUGH BARS.

STAGE 2 – DRILL

4. DRILL Ø11mm HOLES (PACKER Ø + 1mm) AT 45° TO THE FACE, STARTING 150mm (d/2) FROM THE CRACK, SO EACH HOLE CROSSES THE CRACK AT 150mm (d/2) DEPTH.
5. DRILL DEPTH = (d/2 x √2) + 5mm, SO THE HOLE CROSSES JUST PAST THE CRACK (≈ 217mm FOR d = 300mm). CAUTION: THIS IS A GUIDE ONLY – ADJUST TO SITE CONDITIONS (ACTUAL WALL THICKNESS, CRACK ANGLE AND LOCATION). A SLIGHT OVERLAP PAST THE CRACK IS ENOUGH.
6. ALTERNATE HOLES EITHER SIDE OF THE CRACK AT 150mm (d/2) CENTRES. REDUCE THE SPACING FOR FINE CRACKS SO RESIN REACHES THE NEXT PACKER.
7. BLOW OUT THE DRILL DUST WITH OIL-FREE COMPRESSED AIR AND FLUSH WITH CLEAN WATER. DUST LEFT IN THE HOLE BLOCKS THE CRACK.

STAGE 3 – INSTALL PACKERS

8. INSERT THE Ø10 x 100mm MECHANICAL PACKER SO THE TOP OF THE RUBBER SLEEVE IS BELOW THE CONCRETE SURFACE. TAP IN IF TIGHT.
9. TIGHTEN WITH A SPANNER UNTIL FIRM. DO NOT OVER-TIGHTEN – IT CAN SPALL THE CONCRETE.
10. FIT THE GREASE NIPPLE TO PACKER 1 ONLY. LEAVE THE OTHERS OPEN TO VENT WATER AND AIR.

STAGE 4 – INJECT

11. INJECT FORSPEC PU INJECTION RESIN AT PACKER 1 (LOWEST) AT LOW PRESSURE. HIGH PRESSURE CAN EXTEND THE CRACK.
12. WHEN RESIN SHOWS AT THE NEXT PACKER OR ALONG THE CRACK, FIT ITS NIPPLE, MOVE TO IT AND CONTINUE UPWARDS. AT REFUSAL HOLD PRESSURE FOR APPROX. 1 MINUTE.
13. RE-INJECT WITHIN THE RESIN CURE TIME WHERE SEEPAGE REMAINS.

STAGE 5 – MAKE GOOD

14. AFTER CURE REMOVE THE PACKERS, FILL THE HOLES FLUSH WITH FORSPEC REPAIR MORTAR AND CLEAN THE CRACK FACE.
15. HOLD POINT: INSPECT FOR SEEPAGE UNDER WET CONDITIONS. RECORD PACKER LOCATIONS AND RESIN USED.
16. NTS – PACKER AND HOLE SIZES EXAGGERATED FOR CLARITY.
17. FORSPEC MAY REQUIRE AN ALTERNATE SYSTEM BASED ON DESIGN CONDITIONS.

FORSPEC®
PROTECTIVE COATINGS

CONCRETE CRACK INJECTION – PACKER INSTALLATION
Ø10 x 100mm MECHANICAL PACKERS – 300mm RC WALL

FORSPEC STANDARD DETAIL - SUPERSEDES SK-STD-INJ-01 REV A

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SCALE	DRAWING No	REFERENCE	REVISION
NTS	SK-STD-INJ-01	—	B
DATE	DESIGNED BY	DRAWN	CHECKED
11/11/2026	BP	BP	—