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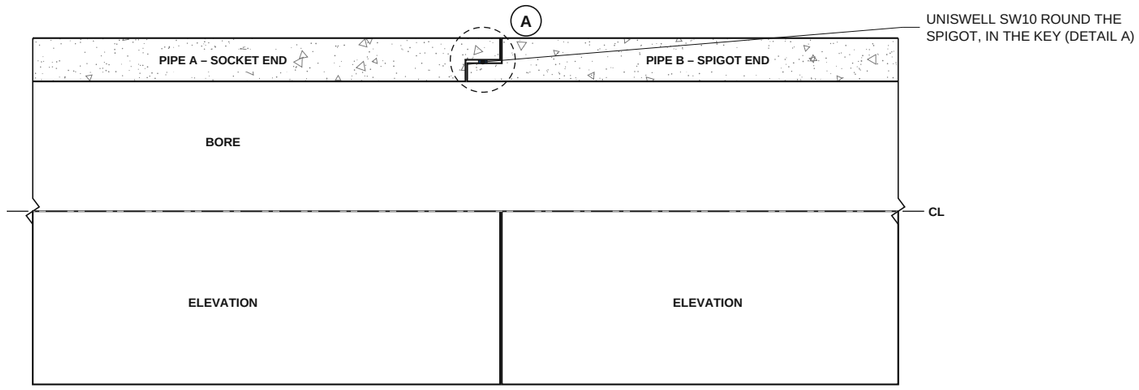
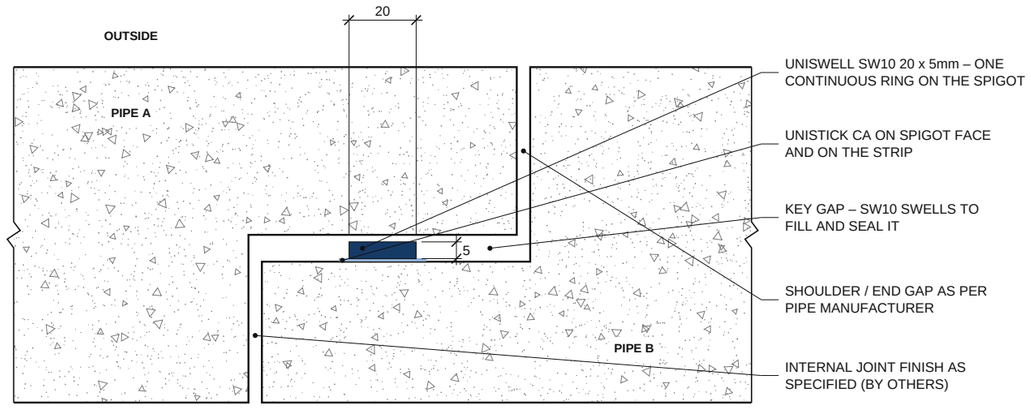


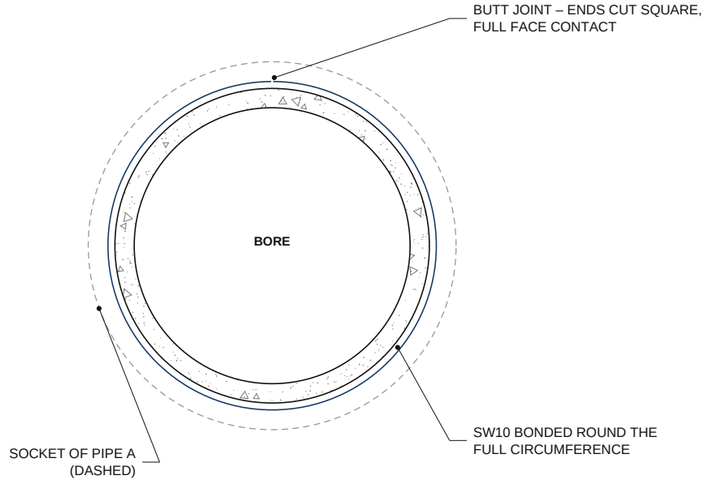
1 PRECAST PIPE JOINT

HALF SECTION / HALF ELEVATION – NOT TO SCALE



A KEY JOINT

ENLARGED – NOT TO SCALE



2 SECTION AT SPIGOT

NOT TO SCALE

JOINTING SEQUENCE

1. Clean the spigot and socket key faces – dry, free of dust, oil, grease and release agent.
2. Brush UNISTICK CA round the spigot along the strip line and a thin coat on the SW10 strip.
3. Wait 5 – 20 min until the solvent has evaporated (touch dry).
4. Press SW10 firmly round the spigot in one length; cut the ends square and butt them tight.
5. Lower pipe B, align it and push it fully home into the socket of pipe A without rolling or tearing the strip. Check alignment and the end gap.
6. Joint the pipes soon after fitting the strip. If SW10 has pre-swollen from rain or groundwater, dry it out or replace it before jointing.

UNISWELL SW10 (REFER TO TDS)

Material	Chloroprene rubber + hydrophilic groups, red
Size	20 x 5mm, 20m roll
Expansion volume	> 300% (ASTM D471)
Hydrostatic head	70m
Hardness / elongation	45 Shore A / 850%
Service temperature	-30 to 50°C
Adhesive	UNISTICK CA, approx. 20 – 30m per litre

LEGEND

- Precast concrete pipe (by others)
- UNISWELL SW10
- UNISTICK CA contact adhesive

GENERAL NOTES (FOR GUIDANCE ONLY)

1. For non-movement pipe joints where the strip is fully contained in the key. Not for joints that open or rotate in service.
2. CHECK BEFORE USE: the SW10 TDS calls for min. 50mm cover and sections not less than 150mm wide. Thin-walled pipes and short tongues may crack when the strip swells – pipe wall thickness, key profile and strip position to be confirmed by the pipe manufacturer / engineer.
3. Key gap, end gap, laying tolerance and internal joint finish as per pipe manufacturer.
4. Strip position shown on the spigot outer face, mid-length of the key. Keep it clear of the end and the shoulder so it is fully enclosed when the joint is closed.
5. Pipe bedding, haunching and backfill as specified (by others).

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This drawing is a generic product illustration. It is NOT an engineering design and has not been prepared, checked or endorsed by a professional engineer. Unity Reliance (M) Sdn Bhd is a product supplier, not a design consultant. All sizes, bedding thickness, edge distances, reinforcement, dowels and installation details shall be designed, verified and approved by the project's qualified engineer. Unity Reliance (M) Sdn Bhd accepts no responsibility for structural design, site conditions, workmanship, or any loss or damage arising from the use of this drawing. Product supply is governed by the relevant TDS and terms of sale.

REVISIONS

REV	DATE	DESCRIPTION
0	29/10/26	FIRST ISSUE
A	13/11/26	SW10 COLOUR CORRECTED TO RED

PRODUCT
UNISWELL SW10
UNISTICK CA CONTACT ADHESIVE

DRAWING TITLE
UNISWELL SW10 – PRECAST CONCRETE PIPE KEY JOINT

DRAWING NO.
UR-SW-05

REV
A

SCALE	SIZE	DATE	DRAWN
NTS	A3	13/11/26	UR

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