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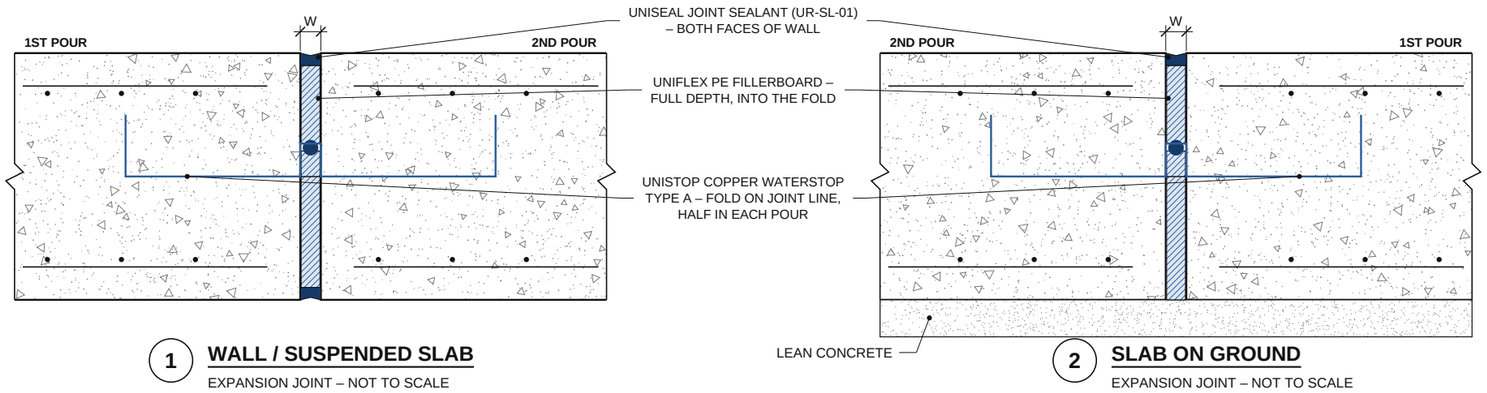
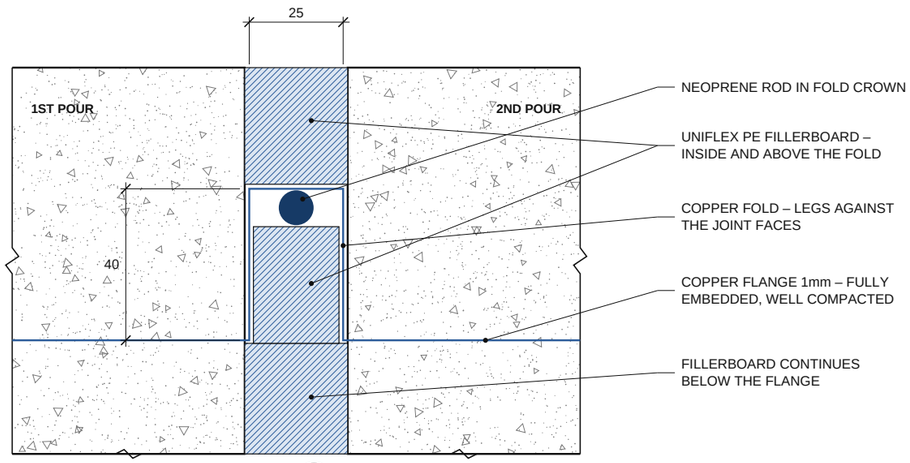
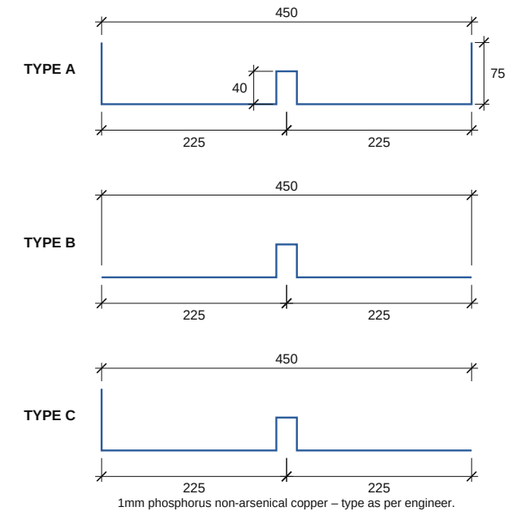


1 WALL / SUSPENDED SLAB
EXPANSION JOINT – NOT TO SCALE

2 SLAB ON GROUND
EXPANSION JOINT – NOT TO SCALE

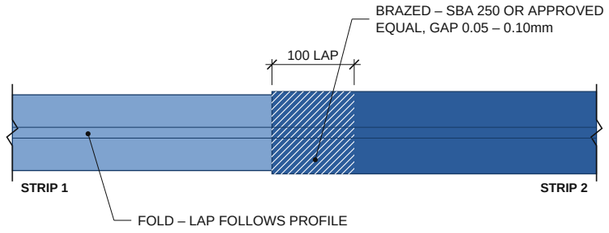


3 CENTRE FOLD
ENLARGED – NOT TO SCALE



1mm phosphorus non-arsenical copper – type as per engineer.

4 PROFILE TYPES
REFER TO TDS – NOT TO SCALE



5 SITE OVERLAP JOINT
PLAN – STRAIGHT RUNS ONLY

UNISTOP COPPER WATERSTOP (REFER TO TDS)

PROPERTY	VALUE
Material	Phosphorus non-arsenical copper
Thickness	1mm
Standard	AS 1566 / BS EN 1172
Copper (Cu)	99.9% (JIS H3100)
Tensile strength	270 N/mm²
Yield strength	210 N/mm²
Hardness	83 HV
Elongation (A50mm)	34%
Lengths	2m / 4m (custom on request)
Profiles	Type A, B, C – 450mm wide

GENERAL NOTES (FOR GUIDANCE ONLY)

1. Fix the waterstop securely to the reinforcement / formwork so it cannot move or tilt during the pour. Fold centred on the joint line.
2. Compact concrete fully around both flanges and end upturns – no voids or honeycomb.
3. Expansion joints: UNIFLEX PE fillerboard full depth of the joint, including inside the fold, with a neoprene rod at the fold crown. Seal the joint faces with UNISEAL (UR-SL-01).
4. Intersections are factory made by Unity Reliance. Straight runs are jointed on site by the contractor / installer.
5. Site joint: lap 100mm, clamp the lap so the braze gap is 0.05 – 0.10mm, braze with SBA 250 (or approved equal) and check the joint is fully sealed. Clean with wire brush and acetone first; remove oxidation after brazing.
6. Brazing / welding by trained operators with PPE, ventilation, fire extinguisher and screens (method statement).
7. Joint width W, member thickness, reinforcement and profile type as per engineer.

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REVISIONS

REV	DATE	DESCRIPTION
0	29/10/26	FIRST ISSUE

PRODUCT
UNISTOP COPPER WATERSTOP
UNIFLEX PE FILLERBOARD / UNISEAL

DRAWING TITLE
UNISTOP COPPER WATERSTOP – EXPANSION JOINT DETAILS

DRAWING NO.
UR-ST-06

REV
0

SCALE	SIZE	DATE	DRAWN
NTS	A3	29/10/26	UR

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