

PRO-CAST

Solid Foundations,
Strong Futures.

PRECAST CONCRETE SOLUTIONS

U-DRAINS

MS
SIRIM



INTRODUCTION

U-Drains are available in both standard sizes (for nominal widths between 600mm and 1800mm) and super sizes (for nominal widths between 2100mm and 3600mm) in lengths of 1000mm.

U-Drains are available both with and without Dry Weather Flow (DWF) sections.

U-Drains are designed for easy handling and laying, thus allowing for fast construction of waterways/open flow chanels by using high quality factory cast units with a minimum of wet concrete works.

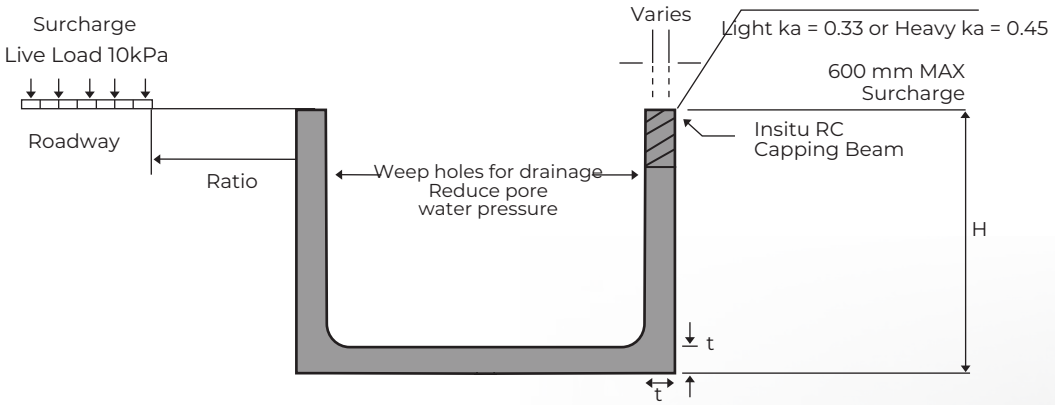
DESIGN CONSIDERATIONS

U-Drains are designed to the requirements of BS 8110:1997 with the folowing concrete cover to reinforcements:

- Standard Size U-Drains = 25mm cover
- Super-Size U-Drains = 30mm cover

Concrete characteristics strength at 28 days, fcu = 30 MPa - 40 MPa

For other loading conditions or U-Drains sizes not shown in the tables here, please contact us for a special design, 50mm diamater weep holes are provide for drainage of the retained soil which, when combined with the butt jointed units, prevent the buildup of hydrostatic pressure. As such, the design does not take into consideration of hydrostatic pressure.



DIMENSION OF STANDARD SIZE U-DRAINS WITH DRY WEATHER FLOW

STANDARD LENGTHS : 1000 MM

NOMINAL SIZE UD | STANDARD SIZE

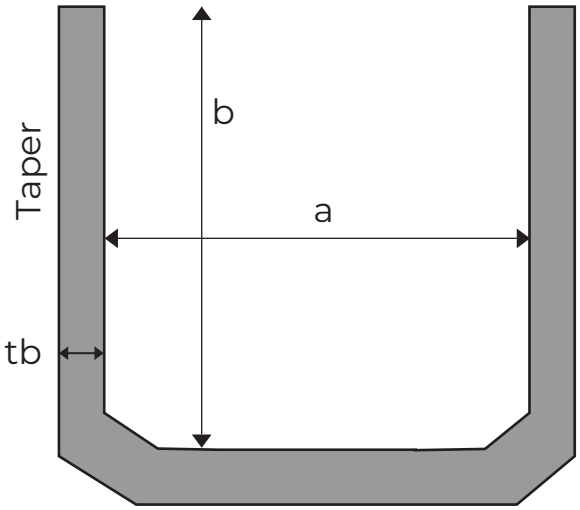
a	b	tb	e	d
300	300	60	50	200
450	300	60	50	200
450	450	60	50	200
600	300	65	65	375
600	450	65	65	375
600	600	65	65	375
750	450	65	65	375
750	600	65	65	375
750	750	65	65	375
900	450	75	75	450
900	600	75	75	450
900	750	75	75	450
900	900	75	75	450
1200	600	80	175	900
1200	750	80	175	900
1200	900	80	175	900
1200	1050	80	175	900
1200	1200	80	175	900
1500	750	100	225	1075
1500	900	100	225	1075
1500	1050	100	225	1075
1500	1200	100	225	1075
1500	1350	100	225	1075
1500	1500	100	225	1075
1800	900	115	225	1075
1800	1050	115	225	1075
1800	1200	115	225	1075
1800	1350	115	225	1075
1800	1500	115	225	1075
1800	1650	115	225	1075
1800	1800	115	225	1075

NOMINAL SIZE UD | SUPERSIZE

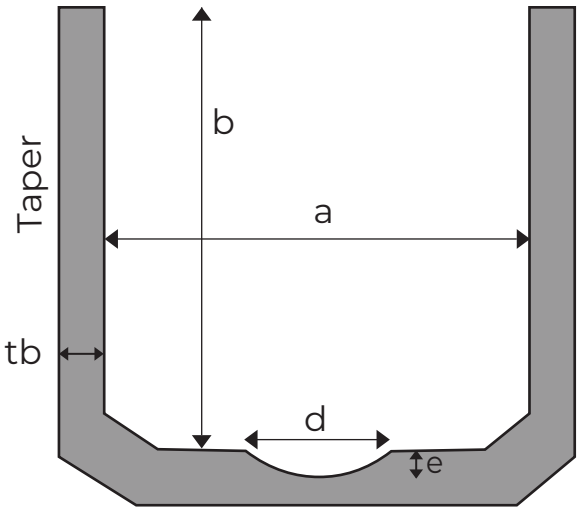
a	b	tb	e	d
2100	1200	150	225	1075
2100	1500	150	225	1075
2100	1800	150	225	1075
2100	2100	150	225	1075
2400	1200	150	225	1075
2400	1500	150	225	1075
2400	1800	150	225	1075
2400	2100	150	225	1075
2400	2400	150	225	1075
2700	1500	180	225	1075
2700	1800	180	225	1075
2700	2100	180	225	1075
2700	2400	180	225	1075
2700	2700	180	225	1075
3000	1500	180	225	1075
3000	1800	180	225	1075
3000	2100	180	225	1075
3000	2400	180	225	1075
3000	2700	180	225	1075
3000	3000	180	225	1075
3300	1500	200	225	1075
3300	1800	200	225	1075
3300	2100	200	225	1075
3300	2400	200	225	1075
3300	2700	200	225	1075
3300	3000	200	225	1075
3300	3300	200	225	1075
3600	1800	200	225	1075
3600	2100	200	225	1075
3600	2400	200	225	1075
3600	2700	200	225	1075
3600	3000	200	225	1075
3600	3300	200	225	1075
3600	3600	200	225	1075

DETAIL

U-DRAINS WITH DRY WEATHER FLOW



LARGE SIZE U-DRAINS
WITHOUT DRY WEATHER FLOW



LARGE SIZE U-DRAINS
WITHOUT DRY WEATHER FLOW



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