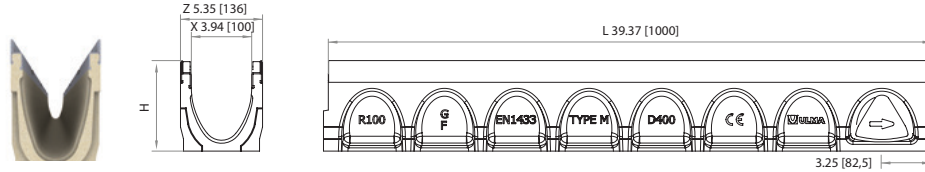


MULTIV+100

LOAD CLASS
UP TO E600 *
EN-1433 STANDARD

ULMA Linear Trench Drain, type MULTIV+® R100; External width 5.35 inches [136 mm], Internal width 3.94 inches [100 mm]; With overall heights between 3.94 inches and 9.84 inches for 0,5% presloped channels and between 3.15 and 11.81 for constant depth trench drains.; sections 39.37 inches [1 LM] in length; optimized V-shape with self-cleaning effect; especially designed for trench drain runs with no longitudinal slope; galvanized steel or ductile iron edges for lateral protection; Rapidlock® boltless system.

OPTIMIZED
V-SHAPE



Also available with stainless steel edge rails.

TRENCH DRAINS



19.69 in trench drains

Trench Drain Code		L (in/mm)	H (in/mm)		Width (in/mm)		Ø Outlet* (in/mm)		Hydraul. Section (in ² /cm ²)
Galvanized edge	Ductile iron edge		Initial	Final	Z	X	Vert.	Hor.	
R100GH8**	-	39.37 [1000]	3.15 [80]	3.15 [80]	5.35 [136]	3.94 [100]	4 [110]	-	6.2 [40]
R100G00R	-	39.37 [1000]	3.94 [100]	3.94 [100]	5.35 [136]	3.94 [100]	4 [110]	-	8.68 [56]
R100G01	-	39.37 [1000]	3.94 [100]	4.13 [105]	5.35 [136]	3.94 [100]	4 [110]	-	9.44 [60,9]
R100G02	-	39.37 [1000]	4.13 [105]	4.33 [110]	5.35 [136]	3.94 [100]	4 [110]	-	9.97 [64,3]
R100G03	-	39.37 [1000]	4.33 [110]	4.53 [115]	5.35 [136]	3.94 [100]	4 [110]	-	10.49 [67,7]
R100G04	-	39.37 [1000]	4.53 [115]	4.72 [120]	5.35 [136]	3.94 [100]	4 [110]	-	11.02 [71,1]
R100G05	-	39.37 [1000]	4.72 [120]	4.92 [125]	5.35 [136]	3.94 [100]	4 [110]	-	11.55 [74,5]
R100G06	-	39.37 [1000]	4.92 [125]	5.12 [130]	5.35 [136]	3.94 [100]	4 [110]	-	12.07 [77,9]
R100G07	-	39.37 [1000]	5.12 [130]	5.31 [135]	5.35 [136]	3.94 [100]	4 [110]	-	12.6 [81,3]
R100G08	-	39.37 [1000]	5.31 [135]	5.51 [140]	5.35 [136]	3.94 [100]	4 [110]	-	13.13 [84,7]
R100G09	-	39.37 [1000]	5.51 [140]	5.71 [145]	5.35 [136]	3.94 [100]	4 [110]	-	13.66 [88,1]
R100G10	-	39.37 [1000]	5.71 [145]	5.91 [150]	5.35 [136]	3.94 [100]	4 [110]	-	14.18 [91,5]
R100G10R	R100MFG10R	39.37 [1000]	5.91 [150]	5.91 [150]	5.35 [136]	3.94 [100]	4 [110]	-	14.18 [91,5]
R100G11	R100MFG11	39.37 [1000]	5.91 [150]	6.10 [155]	5.35 [136]	3.94 [100]	4 [110]	-	14.96 [96,5]
R100G12	R100MFG12	39.37 [1000]	6.10 [155]	6.30 [160]	5.35 [136]	3.94 [100]	4 [110]	-	15.59 [100,6]
R100G13	R100MFG13	39.37 [1000]	6.30 [160]	6.49 [165]	5.35 [136]	3.94 [100]	4 [110]	-	16.21 [104,6]
R100G14	R100MFG14	39.37 [1000]	6.49 [165]	6.69 [170]	5.35 [136]	3.94 [100]	4 [110]	-	16.85 [108,7]
R100G15	R100MFG15	39.37 [1000]	6.69 [170]	6.89 [175]	5.35 [136]	3.94 [100]	4 [110]	-	17.47 [112,7]
R100G16	R100MFG16	39.37 [1000]	6.89 [175]	7.09 [180]	5.35 [136]	3.94 [100]	4 [110]	-	18.11 [116,8]
R100G17	R100MFG17	39.37 [1000]	7.09 [180]	7.28 [185]	5.35 [136]	3.94 [100]	4 [110]	-	18.72 [120,8]
R100G18	R100MFG18	39.37 [1000]	7.28 [185]	7.48 [190]	5.35 [136]	3.94 [100]	4 [110]	-	19.69 [124,9]
R100G19	R100MFG19	39.37 [1000]	7.48 [190]	7.68 [195]	5.35 [136]	3.94 [100]	4 [110]	-	19.98 [128,9]
R100G20	R100MFG20	39.37 [1000]	7.68 [195]	7.87 [200]	5.35 [136]	3.94 [100]	4 [110]	-	20.62 [133]
R100G20R	R100MFG20R	39.37 [1000]	7.87 [200]	7.87 [200]	5.35 [136]	3.94 [100]	4 [110]	-	20.62 [133]
R100G21	R100MFG21	39.37 [1000]	7.87 [200]	8.07 [205]	5.35 [136]	3.94 [100]	4 [110]	-	21.28 [137,3]
R100G22	R100MFG22	39.37 [1000]	8.07 [205]	8.27 [210]	5.35 [136]	3.94 [100]	4 [110]	-	21.95 [141,6]
R100G23	R100MFG23	39.37 [1000]	8.27 [210]	8.46 [215]	5.35 [136]	3.94 [100]	4 [110]	-	22.61 [145,9]
R100G24	R100MFG24	39.37 [1000]	8.46 [215]	8.66 [220]	5.35 [136]	3.94 [100]	4 [110]	-	23.28 [150,2]
R100G25	R100MFG25	39.37 [1000]	8.66 [220]	8.86 [225]	5.35 [136]	3.94 [100]	4 [110]	-	23.95 [154,5]
R100G26	R100MFG26	39.37 [1000]	8.86 [225]	9.06 [230]	5.35 [136]	3.94 [100]	4 [110]	-	24.61 [158,8]
R100G27	R100MFG27	39.37 [1000]	9.06 [230]	9.25 [235]	5.35 [136]	3.94 [100]	4 [110]	-	25.28 [163,1]
R100G28	R100MFG28	39.37 [1000]	9.25 [235]	9.45 [240]	5.35 [136]	3.94 [100]	4 [110]	-	25.95 [167,4]
R100G29	R100MFG29	39.37 [1000]	9.45 [240]	9.65 [245]	5.35 [136]	3.94 [100]	4 [110]	-	26.61 [171,7]
R100G30	R100MFG30	39.37 [1000]	9.65 [245]	9.84 [250]	5.35 [136]	3.94 [100]	4 [110]	-	27.28 [176]
R100G30R	R100MFG30R	39.37 [1000]	9.84 [250]	9.84 [250]	5.35 [136]	3.94 [100]	4 [110]	-	27.28 [176]
R100G40R	R100MFG40R	39.37 [1000]	11.81 [300]	11.81 [300]	5.35 [136]	3.94 [100]	4 [110]	-	34.1 [220]
19.69 IN TRENCH DRAINS									
R100G10RM	R100MFG10RM	19.69 [500]	5.91 [150]	5.91 [150]	5.35 [136]	3.94 [100]	3 1/2 [90]	3 [75]	14.18 [91,5]
R100G20RM	R100MFG20RM	19.69 [500]	7.87 [200]	7.87 [200]	5.35 [136]	3.94 [100]	3 1/2 [90]	4 [110]	20.62 [133]

*Vert. outlets on order.
**U shaped section.

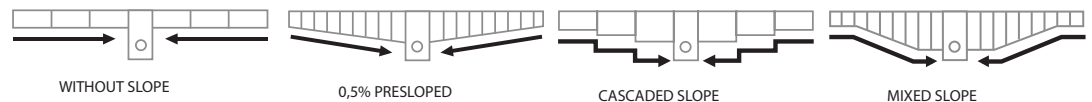
LOCKING SYSTEM



FAST, BOLTLESS SAFETY LOCKING 8 fastening points per trench drain.

rapidlock®

SLOPE DESIGNS



*For cross-drainage in heavy traffic areas, we recommend our KOMPAQDRAIN® system.

MATERIAL PROPERTIES

Channel units and construction units

- Polymer concrete: based on polyester resin, with natural minerals
- Compressive resistance: 90-130 N/mm²
- Flexural strength: 18-25 MPa
- Modulus of elasticity: 25000 MPa
- Density: 2,3 kg/dm³
- Linear expansion coefficient: $1 \times 10^{-5} 1/C$
- Unalterable in freeze/thaw cycles
- Water absorption level: 0 mm
- Water absorption coefficient: 0-0,3

Edge protection

- Ductile iron
- Galvanized steel
- Stainless steel

Channel covers

- Ductile iron
- Galvanized steel
- Stainless steel
- Plastic

CHANNEL HYDRAULIC CAPACITY (l/s)

Length (m)	MULTI V+ 100					
	R100.H8	R100.00R	R100.10R	R100.20R	R100.30R	R100.40R
5	1,36	1,63	3,62	6,53	10,09	14,25
10	1,17	1,52	3,32	6,00	9,28	13,03
15	1,03	1,42	3,14	5,67	8,75	12,28
20	0,93	1,34	2,98	5,39	8,32	11,67
25	0,85	1,27	2,84	5,15	7,96	11,18
30	0,79	1,11	2,72	4,94	7,65	10,75
40	0,70	1,05	2,49	4,60	7,13	10,03
50	0,64	1,00	2,35	4,33	6,71	9,45
60	0,59	0,95	2,22	4,09	6,36	8,96
70	0,54	0,90	2,11	3,88	6,06	8,54
80	0,51	0,85	2,01	3,72	5,79	8,18
90	0,48	0,82	1,93	3,56	5,56	7,85
100	0,46	0,79	1,85	3,43	5,36	7,57