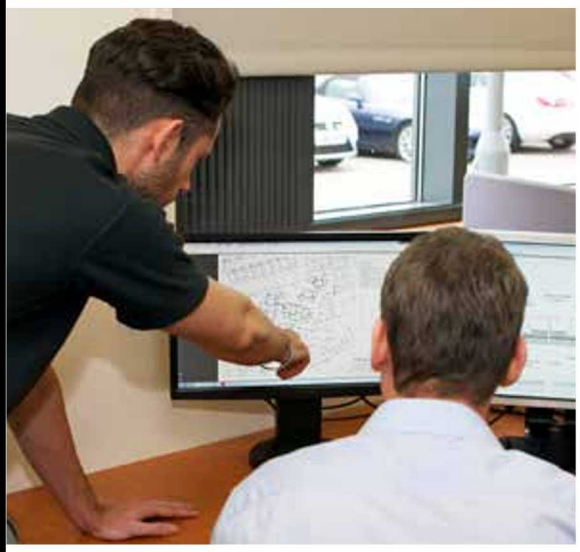
Marshalls
Creating Better Spaces

MARSHALLS MICRODRAINAGE CONDUIT FILES



The conduit files attached with this guide are based on Marshalls range of Combined Kerb & Drainage (CKD) systems and Linear Drainage (LD) systems.

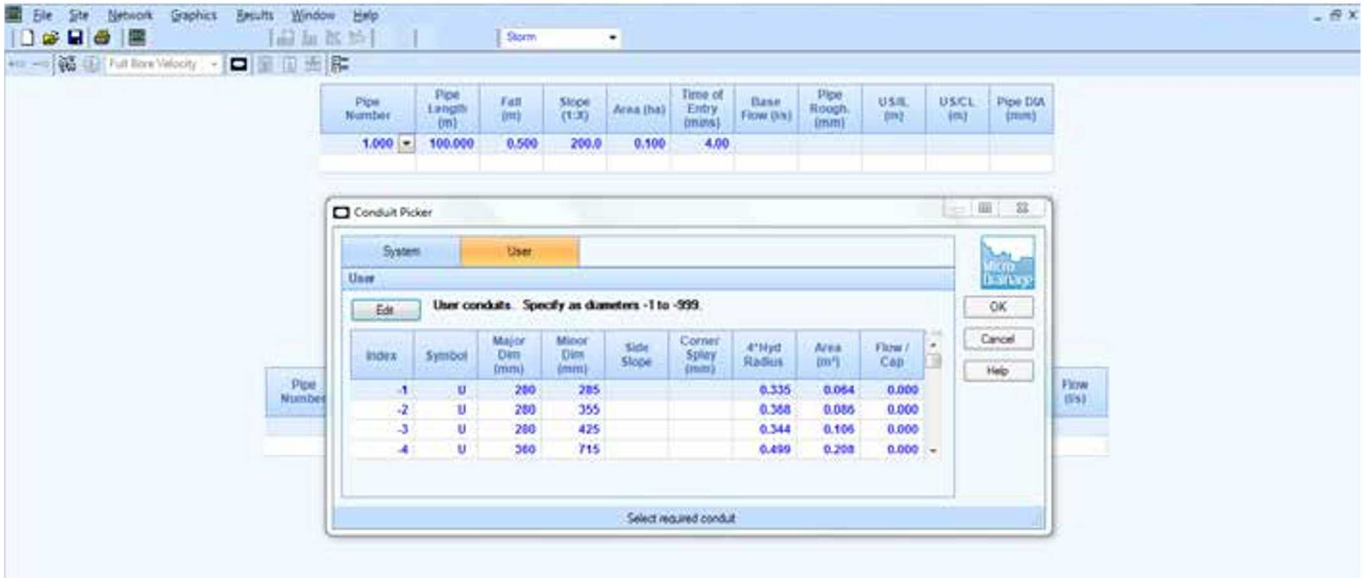
Designing CKD & LD within Microdrainage allows you to quickly size the required system using modified rational method. The benefit of using Microdrainage to design these systems is greater for the high capacity units, especially when an element of attenuation is required. For smaller systems acting as a collection system only, it may be adequate to design using the simple area run-off method.

CKD & LD systems intercept run-off along their entire length but Microdrainage will only allow the user to add catchment area at the upstream manhole. To ensure this manhole isn't overwhelmed, Marshalls would recommend splitting the run length into shorter sections to show a more even distribution of the entire catchment area. This approach also allows the user to transition between differing depths of channel to provide the most economical solution.

Conduit files can be used wherever standard pipe design is possible. These conduit files can be imported by pressing the conduits button when in the Pipe DIA (mm) cell. You can then browse for the file by selecting User created files then edit as shown below.

The files can then be imported by pressing and browsing for the file Marshalls.secx. The required conduit unit can then either be selected within the conduit designer tab or by simply inputting the reference as per the table shown on the following page, remembering to include the dash before the number.

For more information on Marshalls conduit files please call the Linear Drainage Design Team on 0345 30 20 708 or alternatively speak with your regional Drainage Engineer.



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REFERENCE	PRODUCT	CHANNEL	TOP	INVERT DEPTH (mm)
-1	Beany	205	HB & Bus Stop	285
-2	Beany	295	HB & Bus Stop	355
-3	Beany	365	HB & Bus Stop	425
-4	Beany	630	HB & Bus Stop	705
-5	Beany	205	Splay	335
-6	Beany	295	Splay	405
-7	Beany	365	Splay	475
-8	Beany	630	Splay	755
-9	Beany	205	Cover Plates or Max E Channel (Concrete)	280
-10	Beany	295	Cover Plates or Max E Channel (Concrete)	350
-11	Beany	365	Cover Plates or Max E Channel (Concrete)	420
-12	Beany	630	Cover Plates or Max E Channel (Concrete)	700
-13	Max E Channel	205	Cast Iron	280
-14	Max E Channel	295	Cast Iron	350
-15	Max E Channel	365	Cast Iron	420
-16	Max E Channel	630	Cast Iron	700
-17	Mini Beany	210	All Kerb Tops/Traffic Drain/Cover Plates	*Varies
-18	Mini Beany	260	All Kerb Tops/Traffic Drain/Cover Plates	*Varies
-19	Mini Beany	310	All Kerb Tops/Traffic Drain/Cover Plates	*Varies
-20	Mini Beany	360	All Kerb Tops/Traffic Drain/Cover Plates	*Varies
-21	Mono Beany	321	HB	171
-22	Mono Beany	502	HB	352
-23	Mono Beany	321	Splay	221
-24	Mono Beany	502	Splay	402
-25	Mono Beany	321	Centres	HB 171 / SP 221
-26	Mono Beany	502	Centres	HB 352 / SP 402
-27	Birco Lite	0/0	Grating	120
-28	Birco Lite	5/0	Grating	145
-29	Birco Lite	10/0	Grating	170
-30	Birco Lite	15/0	Grating	195
-31	Birco Lite	20/0	Grating	220
-32	Birco 100	0/0	Grating	130
-33	Birco 100	5/0	Grating	180
-34	Birco 100	10/0	Grating	230
-35	Birco 100	15/0	Grating	280
-36	Birco 100	20/0	Grating	330
-37	Birco 150	0/0	Grating	180
-38	Birco 150	5/0	Grating	230
-39	Birco 150	10/0	Grating	280
-40	Birco 150	15/0	Grating	330
-41	Birco 150	20/0	Grating	380
-42	Birco 200	0/0	Grating	240
-43	Birco 200	5/0	Grating	265
-44	Birco 200	10/0	Grating	290
-45	Birco 200	15/0	Grating	315
-46	Birco 200	20/0 (IBF 20)	Grating	340
-47	Drexus XL	325	Slot	519
-48	Drexus XL	425	Slot	662
-49	Drexus XL	525	Slot	752
-50	Drexus XL	675	Slot	892
-51	Drexus XL	825	Slot	1050
-52	Drexus 100	0/0	Grating / Pave / Slot	*Varies
-53	Drexus 100	5/0	Grating / Pave / Slot	*Varies
-54	Drexus 100	10/0	Grating / Pave / Slot	*Varies
-55	Drexus 100	15/0	Grating / Pave / Slot	*Varies
-56	Drexus 100	20/0	Grating / Pave / Slot	*Varies

*Depth to invert varies for Mini Beany & Drexus 100 depending on profile / top unit
Note - Beany ranges, all HB profiles are based on 125mm upstand, Splay profiles assume 75mm upstand.