



Decathlon

Slot Drainage System

- Highest flow capacity system on the market.
- Proven and tested over 30 years.
- Reduced post-installation maintenance.
- Extensive applications.
- Robust system.
- Complies with BS EN 1433:2002.
- Sufficient flow velocities can be achieved at low gradient to promote self cleansing.
- Straightforward to install.
- 5 different channels.
- Range of precast concrete top units and lids.
- High attenuation capacity.
- Simple detailing.
- Channel and kerb applications.
- Cheaper installation costs over other systems in the market.

The Decathlon Glass Reinforced Concrete (GRC) channel system has been used in many applications throughout the UK and internationally for over 30 years.

From busy service yards and rail ports with severe dynamic transport loading to motorways and commercial outlets, the system has proven itself many times over.

The in-situ lid becomes monolithic with any concrete slab on completion and the Heelguard top units give a stunning architectural finish.

The use of Decathlon has been shown to be highly cost-effective by reducing run sizes and number of runs due to its exceptionally high flow capacity.

Five different Decathlon channels are available ranging from the Decathlon 150 to the Decathlon 600.

A range of precast concrete top units, GRC lids and attractive Heelguard top units are available for each channel system.

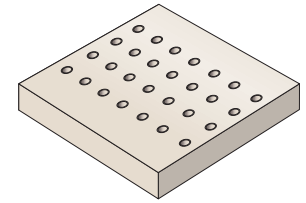
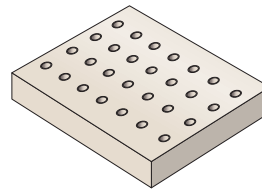
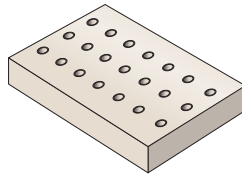
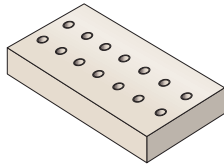
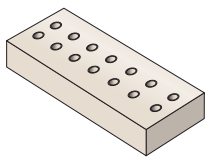
Decathlon has been successfully installed at 360° radii and general installation is straightforward. Detailing is simple and inexpensive as the channels can be easily cut on-site to suit requirements such as for inlet pipes, e.g. rainwater down pipes.

The GRC channels have been developed in association with the University of Sheffield over many years and offer unique flow characteristics.

Decathlon

TOP COMPONENTS

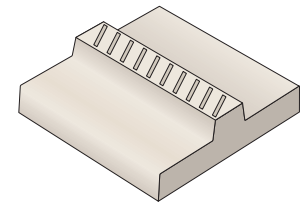
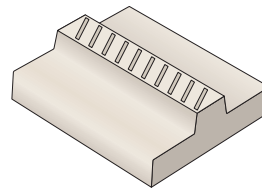
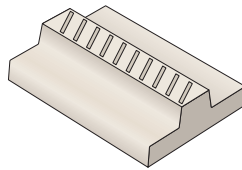
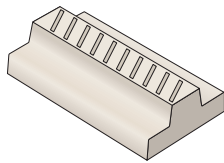
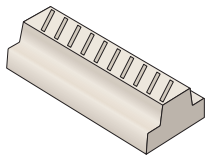
PERFORATED TOP UNITS



- For use in paved areas.
- All 1000mm long.
- To suit all 5 channel widths.

- D400 loading to BS EN 1433:2002.
- Inlet slots allow water into channel.

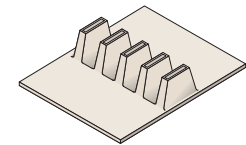
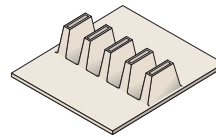
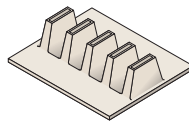
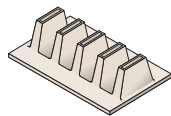
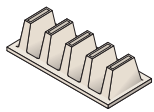
HEELGUARD TOP UNITS



- For use in paved areas to complement paving materials.
- Combination of pre-cast concrete manufacture with slotted polypropylene surface grating.
- Only the secure polypropylene slotted surface is visible on completion.
- 6mm slot widths.

- All 1000mm long.
- To suit all 5 channel widths.
- C250 loading to BS EN 1433:2002.
- Inlet slots allow water into channel.

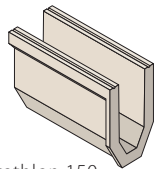
IN-SITU LIDS



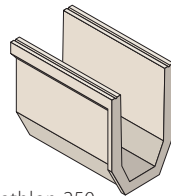
- For use in in-situ concrete or paved areas.
- GRC former with full height slots to allow water into channel.
- Steel reinforcement cage supplied with lids.
- Lids serve a former for in-situ concrete top on site.
- Unique solution which eliminates the risk of lid movement.

- All 500mm long.
- To suit all 5 channel widths.
- D400 loading to BS EN 1433:2002.
- Extra loading to suit site requirements can be manufactured on request.

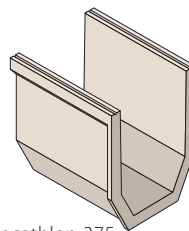
BASE COMPONENTS



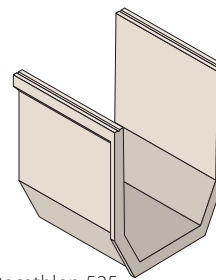
Decathlon 150
■ Base channel
2000mm long



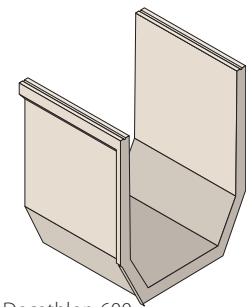
Decathlon 250
■ Base channel
2000mm long



Decathlon 375
■ Base channel
1500mm long



Decathlon 525
■ Base channel
1200mm long



Decathlon 600
■ Base channel
1000mm long

FLOW CAPACITY (litres/sec)

More comprehensive hydraulic properties are given in the Drainage Design Guide

Gradient Length (m)	Marshalls Decathlon 150				Marshalls Decathlon 250				Marshalls Decathlon 375				Marshalls Decathlon 525				Marshalls Decathlon 600			
	Zero	1 in 1000	1 in 500	1 in 100	Zero	1 in 1000	1 in 500	1 in 100	Zero	1 in 1000	1 in 500	1 in 100	Zero	1 in 1000	1 in 500	1 in 100	Zero	1 in 1000	1 in 500	1 in 100
50	28	34	37	55	73	85	94	136	157	183	201	288	337	391	426	605	459	531	578	817
150	24	32	38	62	65	82	96	152	143	177	203	315	314	381	431	652	431	520	584	873
250	20	30	39	70	57	79	97	168	129	172	206	343	291	372	436	698	404	509	589	928
350	17	29	40	78	49	76	99	184	115	166	209	371	268	363	440	744	376	497	595	983
450					41	72	101	200	101	161	212	399	245	354	445	790	349	486	600	1038
550									87	155	215	427	222	345	449	834	321	475	606	1093
650									73	150	218	455	199	335	454	882	294	464	611	1148
750													176	326	459	928	266	453	617	1203
850													153	317	463	974	239	442	622	1258
950																	211	431	628	1313

Note: 1. Flow figures, l/s, are derived from spatially varied flow work carried out by HR Wallingford.
2. In-situ lids shown for illustrative purposes.

Component Codes

STOCK MADE TO ORDER				
	Unit Weight (kg)	Pack Size	Pack Weight (kg)	Item Code
Lids				
Decathlon Kerb Lid 150	81	12	972	DR5314100
Decathlon Kerb Lid 250	114	12	1368	DR5314200
Decathlon Kerb Lid 375	152	8	1216	DR5314300
Decathlon Kerb Lid 525	195	6	1170	DR5314400
Decathlon Kerb Lid 600	306	4	1224	DR5314500
Decathlon Perforated Lid 150	103	15	1545	DR5312100
Decathlon Perforated Lid 250	171	10	1710	DR5312200
Decathlon Perforated Lid 375	226	1	226	DR5312300
Decathlon Perforated Lid 525	260	5	1300	DR5312400
Decathlon Perforated Lid 600	280	5	1400	DR5312500
Decathlon Heelguard Lid 150	110	15	1650	DR5310100
Decathlon Heelguard Lid 250	135	10	1350	DR5310200
Decathlon Heelguard Lid 375	176	10	1760	DR5310300
Decathlon Heelguard Lid 525	322	8	2576	DR5310400
Decathlon Heelguard Lid 600	374	8	2992	DR5310500
Decathlon In-Situ Lid 150+Cage	11	20	220	DR5305500
Decathlon In-Situ Lid 250+Cage	14	15	210	DR5305600
Decathlon In-Situ Lid 375+Cage	18	16	288	DR5305700
Decathlon In-Situ Lid 525+Cage	23	20	460	DR5305800
Decathlon In-Situ Lid 600+Cage	27	20	540	DR5305900

STOCK MADE TO ORDER				
	Unit Weight (kg)	Pack Size	Pack Weight (kg)	Item Code
Channel Units				
Decathlon 150 Channel (2.0m)	65	12	780	DR5300500
Decathlon 250 Channel (2.0m)	81	6	486	DR5300600
Decathlon 375 Channel (1.5m)	89	4	356	DR5300700
Decathlon 525 Channel (1.2m)	100	2	200	DR5300800
Decathlon 600 Channel (1.0m)	120	2	240	DR5300900
Stop Ends				
Decathlon Stop End 150mm	3	1	3	DR5356500
Decathlon Stop End 250mm	6	1	6	DR5356600
Decathlon Stop End 375mm	11.5	1	11.5	DR5356700
Decathlon Stop End 525mm	19.5	1	19.5	DR5356800
Decathlon Stop End 600mm	25.5	1	25.5	DR5356900
Ancillaries				
Decathlon Lge Manhole Cover&Frame	20	1	20	DR5355200
Decathlon Sml Manhole Cover&Frame	20	1	20	DR5355300
Decathlon Large Silt Box	20	1	20	DR5355250
Decathlon Small Silt Box	20	1	20	DR5355350
Decathlon Bedding Mortar	25	40	1000	DR5355000

Items with reference numbers indicated in bold black are available ex-stock.
Items with reference numbers indicated in light black are manufactured to order.
Contact our sales office to discuss your requirements.