

## StormKeeper SK290

The StormKeeper family of products are the highest quality and structurally sound stormwater chambers available on the market and meet the full requirements of ASTM F2418. The StormKeeper family of chambers are designed utilizing the most sophisticated and comprehensive techniques to meet the stringent AASHTO LRFD and ASTM requirements. Intended for use under traffic and non traffic areas, StormKeeper provides a truly cost-effective and structurally superior system to provide underground stormwater storage saving valuable land and protecting the environment.



### StormKeeper SK290

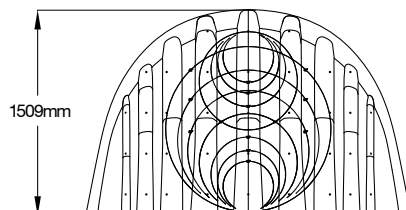
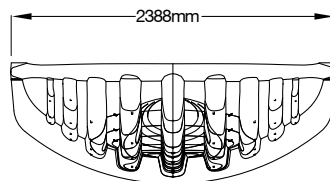
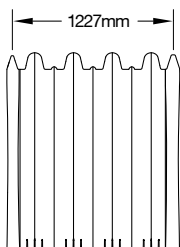
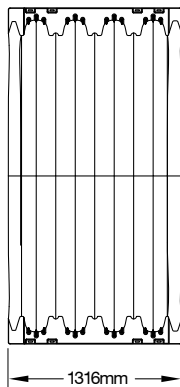
Nominal Dimensions

Size (L x W x H)	1316mm x 2553mm x 1511mm
Chamber Storage	3.11m <sup>3</sup>
Min. Installed Storage	4.65m <sup>3</sup>
Weight	56.7kg

### StormKeeper SK290 End Caps

Nominal Dimensions

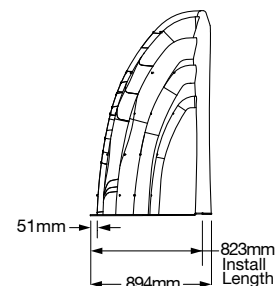
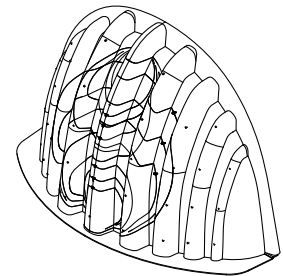
Size (L x W x H)	894mm x 2388mm x 1509mm
End Cap Storage	1.12m <sup>3</sup>
Min. Installed Storage	3.24m <sup>3</sup>
Weight	37.2kg



### Shipping

Nominal Dimensions

- 10 chambers per pallet
- 10 end caps per pallet
- 11 pallets per truck



# StormKeeper SK290

## Volume of Excavation Required Per Chamber/End Cap

	Stone Bedding Depth		
	230mm	300mm	450mm
StormKeeper SK290	7.99m <sup>3</sup>	8.23m <sup>3</sup>	8.74m <sup>3</sup>
StormKeeper SK290 End Cap	7.32m <sup>3</sup>	7.53m <sup>3</sup>	8.00m <sup>3</sup>

Assumes 230mm of separation between chamber rows, 300mm of perimeter stone in front of end caps and 600mm of cover. Should depth of cover exceed 600mm, the volume of excavation will increase accordingly.

## Storage Volume Per Chamber/End Cap

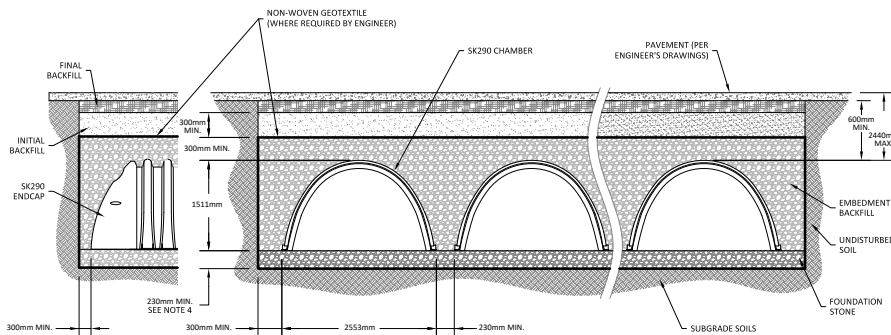
	Chamber Volume Only	Chamber and Stone Volume Bedding Depth		
		230mm	300mm	450mm
StormKeeper SK290	3.11m <sup>3</sup>	4.65m <sup>3</sup>	4.75m <sup>3</sup>	4.95m <sup>3</sup>
StormKeeper SK290 End Cap	1.12m <sup>3</sup>	3.22m <sup>3</sup>	3.31m <sup>3</sup>	3.50m <sup>3</sup>

Assumes 300mm stone above chambers, 230mm of stone between chambers and 40% stone porosity. End cap volume assumes 300mm of stone perimeter.

## Amount of Stone Per Chamber/End Cap

	Stone Bedding Depth		
	230mm	300mm	450mm
StormKeeper SK290	3.9m <sup>3</sup>	4.1m <sup>3</sup>	4.6m <sup>3</sup>
StormKeeper SK290 End Cap	5.3m <sup>3</sup>	5.5m <sup>3</sup>	5.9m <sup>3</sup>

Assumes 300mm of stone above, 230mm row spacing, and 300mm of perimeter stone in front of end caps.



### MANUFACTURER'S WARRANTY

Lane ensures, certifies and documents that SK290 StormKeeper Stormwater Chambers shipped to the job site meet the above claims and standards, and warranties the product is free of any material or workmanship defects.

## Stage vs. Storage for StormKeeper SK290

Depth (mm)	Chamber Volume (m <sup>3</sup> )	Installed Volume (m <sup>3</sup> )	Depth (mm)	Chamber Volume (m <sup>3</sup> )	Installed Volume (m <sup>3</sup> )
25	0.000	0.035	1067	2.145	2.743
51	0.000	0.069	1092	2.202	2.812
76	0.000	0.104	1118	2.258	2.880
102	0.000	0.139	1143	2.313	2.948
127	0.000	0.173	1168	2.368	3.015
152	0.000	0.208	1194	2.421	3.082
178	0.000	0.243	1219	2.473	3.148
203	0.000	0.277	1245	2.525	3.214
229	0.000	0.312	1270	2.575	3.278
254	0.086	0.398	1295	2.624	3.343
279	0.156	0.475	1321	2.672	3.406
305	0.225	0.551	1346	2.718	3.468
330	0.294	0.627	1372	2.763	3.530
356	0.363	0.703	1397	2.806	3.590
381	0.431	0.779	1422	2.848	3.650
406	0.499	0.854	1448	2.887	3.708
432	0.567	0.929	1473	2.925	3.765
457	0.634	1.004	1499	2.960	3.821
483	0.701	1.079	1524	2.992	3.875
508	0.768	1.154	1549	3.022	3.928
533	0.834	1.229	1575	3.047	3.978
559	0.900	1.303	1600	3.068	4.025
584	0.966	1.377	1626	3.081	4.067
610	1.032	1.451	1651	3.091	4.108
635	1.097	1.525	1676	3.098	4.147
660	1.162	1.598	1702	3.104	4.185
686	1.226	1.672	1727	3.106	4.221
711	1.290	1.745	1753	3.106	4.255
737	1.354	1.818	1778	3.106	4.290
762	1.417	1.890	1803	3.106	4.325
787	1.480	1.963	1829	3.106	4.359
813	1.543	2.035	1854	3.106	4.394
838	1.605	2.107	1880	3.106	4.429
864	1.667	2.179	1905	3.106	4.463
889	1.729	2.251	1930	3.106	4.498
914	1.790	2.322	1956	3.106	4.533
940	1.851	2.393	1981	3.106	4.567
965	1.911	2.464	2007	3.106	4.602
991	1.970	2.534	2032	3.106	4.637
1016	2.029	2.604	2057	3.106	4.671
1041	2.087	2.674			

Assumes a void of 40% in the stone. Based on 300mm of stone above and 230mm of stone below the chambers.

