

Aeration Surface area, volume and organic matter impact

Sq Meters 9,290

Spacing MM	Holes per sq. M	Single tine sq. MM	% Surface area impact	depth CM	Volume extracted or disrupted cu. CMs/M	Kilograms Dry Sand per 93M2 to fill holes only or injected	% Organic matter reduction in hole depth profile *	Tonnes of dry sand to perfectly fill each hole for above sq M	Org. reduction after 4 Xs in short period of time *
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Core Aeration

6.4mm Tines

25.4 x 25.4	1550	3.167	4.91%	7.62	4831	542	6.31%	54.2	22.54%
25.4 x 50.8	775.01	3.167	2.45%	7.62	2416	271	3.18%	27.1	12.00%
50.8 x 50.8	387.5	3.167	1.23%	7.62	1208	136	1.59%	13.6	6.20%
76.2 x 50.8	258.34	3.167	0.82%	7.62	805	90	1.06%	9.0	
76.2 x 76.2	172.22	3.167	0.55%	7.62	537	60	0.71%	6.0	

9.5mm Tines

25.4 x 25.4	1550	7.126	11.04%	7.62	10871	1,220	13.94%	122.0	
25.4 x 50.8	775.01	7.126	5.52%	7.62	5435	610	7.08%	61.0	
50.8 x 50.8	387.5	7.126	2.76%	7.62	2718	305	3.57%	30.5	13.39%
76.2 x 50.8	258.34	7.126	1.84%	7.62	1812	203	2.39%	20.3	9.14%
76.2 x 76.2	172.22	7.126	1.23%	7.62	1208	136	1.59%	13.6	6.20%

12.7mm Tines

50.8 x 50.8	387.5	12.668	4.91%	7.62	4831	542	6.31%	54.2	22.54%
76.2 x 50.8	258.34	12.668	3.27%	7.62	3221	361	4.23%	36.1	15.66%
76.2 x 76.2	172.22	12.668	2.18%	7.62	2147	241	2.83%	24.1	10.74%
76.2 x 101.6	129.17	12.668	1.64%	7.62	1610	181	2.12%	18.1	

15.9mm Tines

50.8 x 50.8	387.5	19.793	7.67%	7.62	7549	847	9.78%	84.7	
76.2 x 50.8	258.34	19.793	5.11%	7.62	5033	565	6.57%	56.5	
76.2 x 76.2	172.22	19.793	3.41%	7.62	3355	376	4.40%	37.6	
76.2 x 101.6	129.17	19.793	2.56%	7.62	2516	282	3.31%	28.2	

DryJect Injection

New HD Manifold

8.33 mm Average Hole Diameter

38.1 x 25.4	1033.3	5.451	5.63%	7.62	5544	622	7.22%	62.2	24.23%
38.1 x 38.1	688.9	5.451	3.76%	7.62	3696	415	4.84%	41.5	17.17%
38.1 x 43.2	607.85	5.451	3.31%	7.62	3261	366	4.28%	36.6	15.38%
38.1 x 50.8	516.67	5.451	2.82%	7.62	2772	311	3.64%	31.1	13.29%

Original Manifold

10.16 mm Average Hole Diameter

76.2 x 50.8	258.34	8.107	2.09%	7.62	2061	231	2.71%	23.1	10.13%
76.2 x 76.2	172.22	8.107	1.40%	7.62	1374	154	1.81%	15.4	6.92%
76.2 x 101.6	129.17	8.107	1.05%	7.62	1031	116	1.36%	11.6	

Maximus Manifold

17.78 mm Average Hole Diameter

152.4 x 127	51.667	24.829	1.28%	24.13	3998	449	N/A	44.9	
152.4 x 152.4	43.056	24.829	1.07%	24.13	3332	374	N/A	37.4	

Drill & Fill

19.05mm Tines

190.5 x 190.5	27.556	28.502	0.79%	25.4	2577	289	N/A	28.9	
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25.4mm Tines

190.5 x 190.5	27.556	50.671	1.40%	25.4	4581	514	N/A	51.4	
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2mm Blades

25.4 mm	N/A	N/A	7.81%	2.54	2563	288	3.37%	28.8	
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3.57mm Blades

25.4 mm	N/A	N/A	14.06%	2.54	4614	518	6.03%	51.8	
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