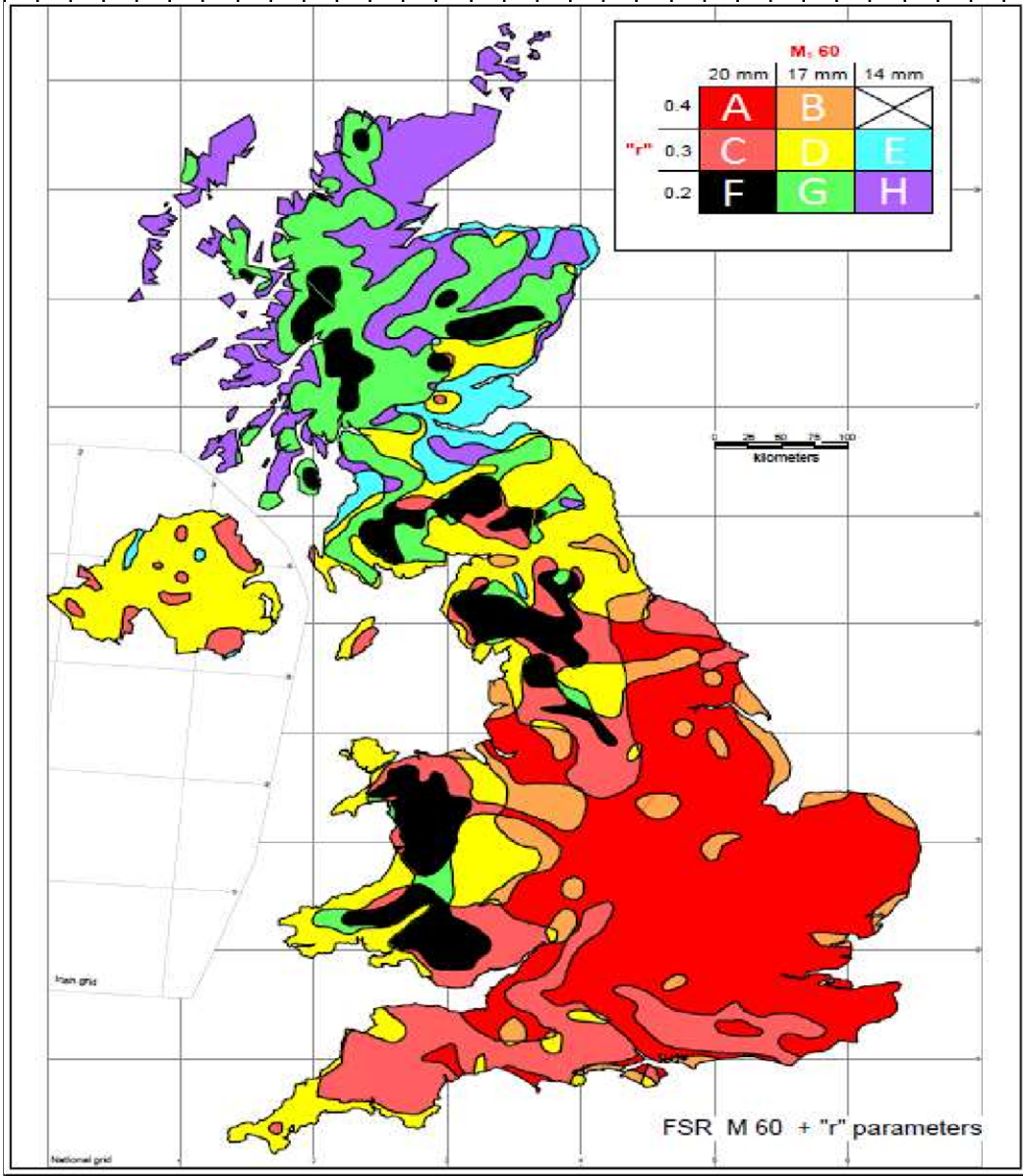


Project:	RMA Sandhurst - Sports Stand roof.	By:
Calculation:	Soakaway 3 Design	AC
Sheet Number:	1	Date:
		01.05.24
Approved:		

Catchment Details		
Catchment Area	148	m ²
Runoff Coefficient	0.9	years
Location Code	A	%
Return Period	50	
Climate Change Factor	35	

UK Rainfall Map



Project:		By:
Calculation:	RMA Sandhurst - Sports Stand roof Soak Away.	
		AC
Sheet Number:	2	Date: 01.05.24

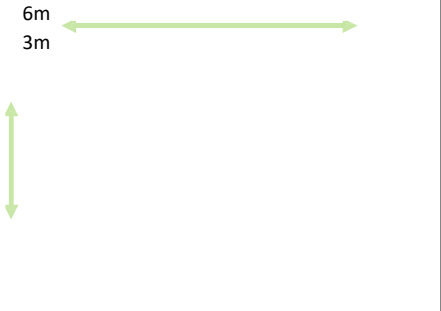
Ground Information

Infiltration Rate	0.0293	m/hr
Factor of Safety	1.5	

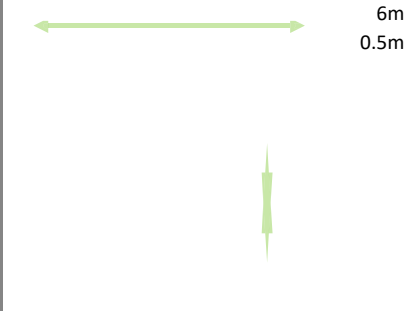
Soakaway Design

Soakaway Shape	Rectangular	Trench/Pit
Number of Soakaways	1	
Length	3	m
Width	6	m
Effective Depth	0.5	m
Void Percentage	96	%
Additional Outflow (If Any)	0	l/s
Base Infiltration Factor	0.5	

Soakaway Plan



Soakaway Cross Section



Results Table

Storm Duration (Mins)	Inflow (l)	Outflow (l)	Storage Required (m³)
5	2,143	22	2.12
10	3,168	44	3.12
15	3,817	66	3.75
30	4,990	132	4.86
45	5,705	198	5.51
60	6,222	264	5.96
120	7,516	527	6.99
240	8,847	1,055	7.79
480	10,070	2,110	7.96
600	10,789	2,637	8.15
1440	12,947	6,329	6.62

Acceptable

Storage Area Required 8.15 m³

Storage Area Provided 8.64 m³

Acceptable

Time for Emptying 50% 15.5 hours

Acceptable