TECHNIKER

PUBLIC HEALTH CALCULATION LOG SHEET

Project Name: **69 Highgate High Street, London**

Prepared by: **FG** **Date:** **27.04.16**

Rainfall intensity calculations

Based on Category 1 values from BS EN 12056 part 3

Basic Data

Nearest geographical town	London	
Building life span required	60	Years

Calculations data based on BS EN 12056 part 3 Category 1

Protection years (T) (1 x life span)	**60**	**Years**			
Fig. NB.6 value (return period in years)	**4.5**	**(based on 2min M5)**			
From Table NB.1, fraction for 2 min. storm = 1.00					
Therefore 2 min. M5 rainfall =	**4.5**	**x**	**1**	**=**	**4.5**
Factor from Fig. NB.7 using protection years		**60**	**(M5=2)**	**=**	**1.64**
Using return period year factor for 2 min M5 =		**1.64**	**x 4.5**	**7.38**	**7.38**

Calculated Flowrates

Rainfall intensity in mm/hour	**30**	**x**	**7.38**	**=**	**221**
Run off in litres per second	**0.062**	**per square metre**			

Safety factor category as defined by in BS EN 12056

Category 1 is used for eaves gutter and flat roofs

Category 2 is generally used for flat roofs with parapets walls and/or valleys(Probability factor 0.5)

Category 3 is used where a high safe factor is required (Probability factor 0.2)

Category 4 is used where a very high safe factor is required (Probability factor approaching 0.0)