BAUDER

70 Landseer Road,
Ipswich,
Suffolk,
IP3 0DH

T: +44 (0)1473 257671
F: +44 (0)1473 230761
W: www.bauder.co.uk
E: info@bauder.co.uk

Client:	Optimised Environments	**y/r:**	
Project:	First Street South	**o/r:**	B193311
Designer:		**Date:**	17/04/2020

Roof number:	**1**	**2**
BSEN12056-3:2000 Rainfall Catagory:	Cat 1	Cat 1
Rainfall Intensity (l/s.sq.m):	**0.018**	**0.018**
Catchment Area:	Block A-B Podium	Block D Podium
Roof length (m):	0.00	0.00
Roof width (m):	0.00	0.00
Effective area (sq.m):	**11820.0**	**8788.0**
Outlets:		
Outlet type:	HM. Compact 10	HM. Compact 100
Diameter (mm):	100	100
Rectangular (Side 1)(mm):		
Rectangular (Side 2)(mm):		
Weir Length (mm):		
Sump depth (mm):		
Head of water above outlet (mm):	35	35
Leafguard / strainer:	Integral	Integral
Results:		
Required flow rate (l/s):	212.8	158.2
Required outlet flow rate (l/s):	6.1	6.1
Achieved outlet flow rate (l/s):	6.2	6.2
Number of outlets:	**35**	**26**
Min downpipe size with taper:	100	100

Doc Ref: FSS-PRI-X-CA-001
Doc Title: Block A,B + D Podium - Bauder Rainwater Calculations
Purpose of Issue - Information
Rev: C01

Notes: All results to BSEN12056-3:2000 based on input data Please check that input data has been correctly interpreted
Results from CRM Flatflow flat roof drainage evaluator Copyright CRM Rainwater Drainage Consultancy Ltd © 2013
All results based on local roof water depth of 35mm + any sump depth. Ensure outlets are evenly distributed

This Software performs calculations in accordance with BSEN12056-3:2000 & data relating to specific building dimensions geographic location & flow rate performance of selected Bauder products. Whilst results contained herein are to the best of our knowledge true & accurate we exclude liability for errors omissions or otherwise. Details practices principles values & calculations should be verified for accuracy & suitability for the required purpose for use. Overflows should be provided on all roofs & a full capacity overflow should be provided when only 1 outlet is specified. Roofs with a pitch of 1:80 or less or with a substrate based extensive green roof covering have a minimal risk of generating deep water depth during rainfall events due to the extensive time period which elapses between the rain falling & it running to the low point. BSEN12056-3:2000 recommends the use of rainfall intensity evaluated using Category 1 as defined in annex NB of BSEN12056-3:2000. This relates to a storm return period of 1 year. Where substrate based green roof coverings are planned for future use and not installed immediately after waterproofing completion or are likely to be removed from the roof area the rainwater system should be checked for adequacy & adjusted drainage calculations must be undertaken allowing for correct rainfall intensity category.