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|                                            |                                                                               |              |              |              |              |            |  |  |  |
|--------------------------------------------|-------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|------------|--|--|--|
| <b>Client:</b>                             |                                                                               |              |              |              | <b>y/r:</b>  |            |  |  |  |
| <b>Project:</b>                            | First Street                                                                  |              |              |              | <b>o/r:</b>  | B193311    |  |  |  |
| <b>Designer:</b>                           | JS                                                                            |              |              |              | <b>Date:</b> | 02/08/2022 |  |  |  |
| <b>Roof number:</b>                        | <b>1</b>                                                                      | <b>2</b>     | <b>3</b>     | <b>4</b>     |              |            |  |  |  |
| <b>BSEN12056-3:2000 Rainfall Catagory:</b> | Cat 1                                                                         | Cat 1        | Cat 1        | Cat 1        |              |            |  |  |  |
| <b>Rainfall Intensity (l/s.sq.m):</b>      | <b>0.018</b>                                                                  | <b>0.018</b> | <b>0.018</b> | <b>0.018</b> |              |            |  |  |  |
| <b>Catchment Area:</b>                     | A1                                                                            | A2           | A3           | A4           |              |            |  |  |  |
| Roof length (m):                           | 0.00                                                                          | 0.00         | 0.00         | 0.00         |              |            |  |  |  |
| Roof width (m):                            | 0.00                                                                          | 0.00         | 0.00         | 0.00         |              |            |  |  |  |
| <b>Effective area (sq.m):</b>              | <b>328.0</b>                                                                  | <b>317.0</b> | <b>311.0</b> | <b>287.0</b> |              |            |  |  |  |
| <b>Outlets:</b>                            |                                                                               |              |              |              |              |            |  |  |  |
| Outlet type:                               | Hot Melt CompactHot Melt CompactHot Melt CompactHot Melt Compact Outlet DN100 |              |              |              |              |            |  |  |  |
| Diameter (mm):                             | 100                                                                           | 100          | 100          | 100          |              |            |  |  |  |
| Rectangular (Side 1)(mm):                  |                                                                               |              |              |              |              |            |  |  |  |
| Rectangular (Side 2)(mm):                  |                                                                               |              |              |              |              |            |  |  |  |
| Weir Length (mm):                          |                                                                               |              |              |              |              |            |  |  |  |
| Sump depth (mm):                           |                                                                               |              |              |              |              |            |  |  |  |
| Head of water above outlet (mm):           | 35                                                                            | 35           | 35           | 35           |              |            |  |  |  |
| Leafguard / strainer:                      | Integral                                                                      | Integral     | Integral     | Integral     |              |            |  |  |  |
| <b>Results:</b>                            |                                                                               |              |              |              |              |            |  |  |  |
| Required flow rate (l/s):                  | 5.9                                                                           | 5.7          | 5.6          | 5.2          |              |            |  |  |  |
| Required outlet flow rate (l/s):           | 5.9                                                                           | 5.7          | 5.6          | 5.2          |              |            |  |  |  |
| Achieved outlet flow rate (l/s):           | 6.2                                                                           | 6.2          | 6.2          | 6.2          |              |            |  |  |  |
| <b>Number of outlets:</b>                  | <b>1</b>                                                                      | <b>1</b>     | <b>1</b>     | <b>1</b>     |              |            |  |  |  |
| Min downpipe size with taper:              | 100                                                                           | 100          | 100          | 100          |              |            |  |  |  |

**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.

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|                                            |                                                                               |              |              |              |              |            |  |  |  |
|--------------------------------------------|-------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|------------|--|--|--|
| <b>Client:</b>                             |                                                                               |              |              |              | <b>y/r:</b>  |            |  |  |  |
| <b>Project:</b>                            | First Street                                                                  |              |              |              | <b>o/r:</b>  | B193311    |  |  |  |
| <b>Designer:</b>                           | JS                                                                            |              |              |              | <b>Date:</b> | 02/08/2022 |  |  |  |
| <b>Roof number:</b>                        | <b>5</b>                                                                      | <b>6</b>     | <b>7</b>     | <b>8</b>     |              |            |  |  |  |
| <b>BSEN12056-3:2000 Rainfall Catagory:</b> | Cat 1                                                                         | Cat 1        | Cat 1        | Cat 1        |              |            |  |  |  |
| <b>Rainfall Intensity (l/s.sq.m):</b>      | <b>0.018</b>                                                                  | <b>0.018</b> | <b>0.018</b> | <b>0.018</b> |              |            |  |  |  |
| <b>Catchment Area:</b>                     | B1                                                                            | B2           | B3           | B4           |              |            |  |  |  |
| Roof length (m):                           | 0.00                                                                          | 0.00         | 0.00         | 0.00         |              |            |  |  |  |
| Roof width (m):                            | 0.00                                                                          | 0.00         | 0.00         | 0.00         |              |            |  |  |  |
| <b>Effective area (sq.m):</b>              | <b>349.0</b>                                                                  | <b>320.0</b> | <b>33.0</b>  | <b>404.0</b> |              |            |  |  |  |
| <b>Outlets:</b>                            |                                                                               |              |              |              |              |            |  |  |  |
| Outlet type:                               | Hot Melt CompactHot Melt CompactHot Melt CompactHot Melt Compact Outlet DN100 |              |              |              |              |            |  |  |  |
| Diameter (mm):                             | 100                                                                           | 100          | 100          | 100          |              |            |  |  |  |
| Rectangular (Side 1)(mm):                  |                                                                               |              |              |              |              |            |  |  |  |
| Rectangular (Side 2)(mm):                  |                                                                               |              |              |              |              |            |  |  |  |
| Weir Length (mm):                          |                                                                               |              |              |              |              |            |  |  |  |
| Sump depth (mm):                           |                                                                               |              |              |              |              |            |  |  |  |
| Head of water above outlet (mm):           | 35                                                                            | 35           | 35           | 35           |              |            |  |  |  |
| Leafguard / strainer:                      | Integral                                                                      | Integral     | Integral     | Integral     |              |            |  |  |  |
| <b>Results:</b>                            |                                                                               |              |              |              |              |            |  |  |  |
| Required flow rate (l/s):                  | 6.3                                                                           | 5.8          | 0.6          | 7.3          |              |            |  |  |  |
| Required outlet flow rate (l/s):           | 3.1                                                                           | 5.8          | 0.6          | 3.6          |              |            |  |  |  |
| Achieved outlet flow rate (l/s):           | 6.2                                                                           | 6.2          | 6.2          | 6.2          |              |            |  |  |  |
| <b>Number of outlets:</b>                  | <b>2</b>                                                                      | <b>1</b>     | <b>1</b>     | <b>2</b>     |              |            |  |  |  |
| Min downpipe size with taper:              | 100                                                                           | 100          | 100          | 100          |              |            |  |  |  |

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|------------------|--------------|-------------------------|
| <b>Client:</b>   |              | <b>y/r:</b>             |
| <b>Project:</b>  | First Street | <b>o/r:</b> B193311     |
| <b>Designer:</b> | JS           | <b>Date:</b> 02/08/2022 |

|                                            |              |              |
|--------------------------------------------|--------------|--------------|
| <b>Roof number:</b>                        | <b>9</b>     | <b>10</b>    |
| <b>BSEN12056-3:2000 Rainfall Category:</b> | Cat 1        | Cat 1        |
| <b>Rainfall Intensity (l/s.sq.m):</b>      | <b>0.018</b> | <b>0.018</b> |

|                        |    |    |
|------------------------|----|----|
| <b>Catchment Area:</b> | B5 | D1 |
|------------------------|----|----|

|                  |      |      |
|------------------|------|------|
| Roof length (m): | 0.00 | 0.00 |
| Roof width (m):  | 0.00 | 0.00 |

|                               |              |              |
|-------------------------------|--------------|--------------|
| <b>Effective area (sq.m):</b> | <b>346.0</b> | <b>742.0</b> |
|-------------------------------|--------------|--------------|

#### Outlets:

|                                  |                  |                               |
|----------------------------------|------------------|-------------------------------|
| Outlet type:                     | Hot Melt Compact | Hot Melt Compact Outlet DN100 |
| 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):        | 6.2      | 13.4     |
| Required outlet flow rate (l/s): | 3.1      | 4.5      |
| Achieved outlet flow rate (l/s): | 6.2      | 6.2      |
| <b>Number of outlets:</b>        | <b>2</b> | <b>3</b> |
| Min downpipe size with taper:    | 100      | 100      |

### FSS-PRI-XX-CA-002 Block A,B & D High level Roofs - Bauder Rainwater Calculations - Issued for information

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