

Job Title:

Craddockstown

Calculation by:

LM

Checked by:

Job Number:

24D024

Date:

Mar-25

Soakaway Design: BRE Digest 365 1-100+30%

| Storm Frequency & Duration | Rainfall (mm) | I Inflow imper. area (m3) | O Outflow from soakaway during rainfall (m3) | Sreq Allowing for infiltration (m3) | Sufficient storage required | ts50 Time to empty half storage vol. (hours) | ts50 < 24 hours |
|----------------------------|---------------|---------------------------|----------------------------------------------|-------------------------------------|-----------------------------|----------------------------------------------|-----------------|
| M100-1                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| M100-2                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| 5 M100-5                   | 21.58         | 1.17                      | 0.08                                         | 1.1                                 | fail                        | 0.6                                          | pass            |
| 10 M100-10                 | 30.03         | 1.62                      | 0.15                                         | 1.5                                 | fail                        | 0.8                                          | pass            |
| 15 M100-15                 | 35.36         | 1.91                      | 0.23                                         | 1.7                                 | fail                        | 0.9                                          | pass            |
| 30 M100-30                 | 43.68         | 2.36                      | 0.46                                         | 1.9                                 | fail                        | 1.0                                          | pass            |
| 60 M100-60                 | 53.95         | 2.91                      | 0.92                                         | 2.0                                 | fail                        | 1.1                                          | pass            |
| 120 M100-120               | 66.69         | 3.60                      | 1.84                                         | 1.8                                 | fail                        | 1.0                                          | pass            |
| 240 M100 - 4hr             | 82.42         | 4.45                      | 3.67                                         | 0.8                                 | fail                        | 0.4                                          | pass            |
| 360 <u>M100-6 hr</u>       | <u>93.34</u>  | <u>5.04</u>               | <u>5.51</u>                                  | <u>-0.5</u>                         | <u>pass</u>                 | <u>-0.3</u>                                  | <u>pass</u>     |
| 720 M100-12 hr             | 115.44        | 6.23                      | 11.01                                        | -4.8                                | pass                        | -2.6                                         | pass            |
| 1440 M100-1day             | 142.74        | 7.71                      | 22.02                                        | -14.3                               | pass                        | -7.8                                         | pass            |

|                   |    |     |
|-------------------|----|-----|
| Run-off           | 0  | l/s |
| Imp. Area (TOTAL) | 54 | m^2 |
| House A           | 54 | m^2 |

Soakaway Details

|            |              |                                       |
|------------|--------------|---------------------------------------|
| width      | 1.2          |                                       |
| depth      | 0.6          |                                       |
| length     | 1.75         |                                       |
| as50       | 1.77         | volume 1.26                           |
| filtration | 1.44E-04 m/s | actual vol 0.504 (GRANULAR 40% voids) |

|      |       |        |
|------|-------|--------|
|      | 100   | 30     |
| 5    | 16.6  | 21.58  |
| 10   | 23.1  | 30.03  |
| 15   | 27.2  | 35.36  |
| 30   | 33.6  | 43.68  |
| 60   | 41.5  | 53.95  |
| 120  | 51.3  | 66.69  |
| 240  | 63.4  | 82.42  |
| 360  | 71.8  | 93.34  |
| 720  | 88.8  | 115.44 |
| 1440 | 109.8 | 142.74 |

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| Storm Frequency & Duration | Rainfall (mm) | I Inflow imper. area (m3) | O Outflow from soakaway during rainfall (m3) | Sreq Allowing for infiltration (m3) | Sufficient storage required | ts50 Time to empty half storage vol. (hours) | ts50 < 24 hours |
|----------------------------|---------------|---------------------------|----------------------------------------------|-------------------------------------|-----------------------------|----------------------------------------------|-----------------|
| M100-1                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| M100-2                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| 5 M100-5                   | 21.58         | 1.81                      | 0.15                                         | 1.7                                 | fail                        | 0.5                                          | pass            |
| 10 M100-10                 | 30.03         | 2.52                      | 0.29                                         | 2.2                                 | fail                        | 0.6                                          | pass            |
| 15 M100-15                 | 35.36         | 2.97                      | 0.44                                         | 2.5                                 | fail                        | 0.7                                          | pass            |
| 30 M100-30                 | 43.68         | 3.67                      | 0.87                                         | 2.8                                 | fail                        | 0.8                                          | pass            |
| 60 M100-60                 | 53.95         | 4.53                      | 1.74                                         | 2.8                                 | fail                        | 0.8                                          | pass            |
| 120 M100-120               | 66.69         | 5.60                      | 3.48                                         | 2.1                                 | fail                        | 0.6                                          | pass            |
| 240 M100 - 4hr             | 82.42         | 6.92                      | 6.97                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| 360 <u>M100-6 hr</u>       | <u>93.34</u>  | <u>7.84</u>               | <u>10.45</u>                                 | <u>-2.6</u>                         | <u>pass</u>                 | <u>-0.7</u>                                  | <u>pass</u>     |
| 720 M100-12 hr             | 115.44        | 9.70                      | 20.90                                        | -11.2                               | pass                        | -3.2                                         | pass            |
| 1440 M100-1day             | 142.74        | 11.99                     | 41.80                                        | -29.8                               | pass                        | -8.6                                         | pass            |

|                   |    |     |
|-------------------|----|-----|
| Run-off           | 0  | l/s |
| Imp. Area (TOTAL) | 84 | m^2 |
| House B           | 84 | m^2 |

Soakaway Details

|                      |              |
|----------------------|--------------|
| width                | 1            |
| depth                | 0.8          |
| length               | 3.2          |
| as50                 | 3.36         |
| filtration           | 1.44E-04 m/s |
| volume               | 2.56         |
| actual vol           | 1.024        |
| (GRANULAR 40% voids) |              |

|      |       |        |
|------|-------|--------|
|      | 100   | 30     |
| 5    | 16.6  | 21.58  |
| 10   | 23.1  | 30.03  |
| 15   | 27.2  | 35.36  |
| 30   | 33.6  | 43.68  |
| 60   | 41.5  | 53.95  |
| 120  | 51.3  | 66.69  |
| 240  | 63.4  | 82.42  |
| 360  | 71.8  | 93.34  |
| 720  | 88.8  | 115.44 |
| 1440 | 109.8 | 142.74 |

Job Title:

Craddockstown

Calculation by:

LM

Checked by:

Job Number:

24D024

Date:

Mar-25

Soakaway Design: BRE Digest 365 1-100+30%

| Storm Frequency & Duration | Rainfall (mm) | I Inflow imper. area (m3) | O Outflow from soakaway during rainfall (m3) | Sreq Allowing for infiltration (m3) | Sufficient storage required | ts50 Time to empty half storage vol. (hours) | ts50 < 24 hours |
|----------------------------|---------------|---------------------------|----------------------------------------------|-------------------------------------|-----------------------------|----------------------------------------------|-----------------|
| M100-1                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| M100-2                     | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| 5 M100-5                   | 21.58         | 2.74                      | 0.16                                         | 2.6                                 | fail                        | 0.7                                          | pass            |
| 10 M100-10                 | 30.03         | 3.81                      | 0.31                                         | 3.5                                 | fail                        | 0.9                                          | pass            |
| 15 M100-15                 | 35.36         | 4.49                      | 0.47                                         | 4.0                                 | fail                        | 1.1                                          | pass            |
| 30 M100-30                 | 43.68         | 5.55                      | 0.93                                         | 4.6                                 | fail                        | 1.2                                          | pass            |
| 60 M100-60                 | 53.95         | 6.85                      | 1.87                                         | 5.0                                 | fail                        | 1.3                                          | pass            |
| 120 M100-120               | 66.69         | 8.47                      | 3.73                                         | 4.7                                 | fail                        | 1.3                                          | pass            |
| 240 M100 - 4hr             | 82.42         | 10.47                     | 7.46                                         | 3.0                                 | fail                        | 0.8                                          | pass            |
| 360 <u>M100-6 hr</u>       | <u>93.34</u>  | <u>11.85</u>              | <u>11.20</u>                                 | <u>0.7</u>                          | <u>pass</u>                 | <u>0.2</u>                                   | <u>pass</u>     |
| 720 M100-12 hr             | 115.44        | 14.66                     | 22.39                                        | -7.7                                | pass                        | -2.1                                         | pass            |
| 1440 M100-1day             | 142.74        | 18.13                     | 44.79                                        | -26.7                               | pass                        | -7.1                                         | pass            |

|                   |     |     |
|-------------------|-----|-----|
| Run-off           | 0   | l/s |
| Imp. Area (TOTAL) | 127 | m^2 |
| House C           | 127 | m^2 |

Soakaway Details

|                      |              |
|----------------------|--------------|
| width                | 1            |
| depth                | 0.8          |
| length               | 3.5          |
| as50                 | 3.6          |
| filtration           | 1.44E-04 m/s |
| volume               | 2.8          |
| actual vol           | 1.12         |
| (GRANULAR 40% voids) |              |

|      |       |        |
|------|-------|--------|
|      | 100   | 30     |
| 5    | 16.6  | 21.58  |
| 10   | 23.1  | 30.03  |
| 15   | 27.2  | 35.36  |
| 30   | 33.6  | 43.68  |
| 60   | 41.5  | 53.95  |
| 120  | 51.3  | 66.69  |
| 240  | 63.4  | 82.42  |
| 360  | 71.8  | 93.34  |
| 720  | 88.8  | 115.44 |
| 1440 | 109.8 | 142.74 |

Job Title:

Craddockstown

Job Number:

24D024

Calculation by:

LM

Date:

Mar-25

Checked by:

Soakway Design: BRE Digest 365 1-100+30%

| Storm<br>Frequency<br>&<br>Duration | Rainfall<br><br>(mm) | I<br>Inflow imper.<br>area<br>(m3) | O<br>Outflow from<br>soakaway during<br>rainfall<br>(m3) | Sreq<br>Allowing for<br>infiltration<br>(m3) | Sufficient<br>storage<br>required | ts50<br>Time to<br>empty half<br>storage vol.<br>(hours) | ts50<br><<br>24 hours |
|-------------------------------------|----------------------|------------------------------------|----------------------------------------------------------|----------------------------------------------|-----------------------------------|----------------------------------------------------------|-----------------------|
| M100-1                              | 0.00                 | 0.00                               | 0.00                                                     | 0.0                                          | pass                              | 0.0                                                      | pass                  |
| M100-2                              | 0.00                 | 0.00                               | 0.00                                                     | 0.0                                          | pass                              | 0.0                                                      | pass                  |
| 5 M100-5                            | 21.58                | 30.43                              | 1.30                                                     | 29.1                                         | pass                              | 0.9                                                      | pass                  |
| 10 M100-10                          | 30.03                | 42.34                              | 2.59                                                     | 39.8                                         | pass                              | 1.3                                                      | pass                  |
| 15 M100-15                          | 35.36                | 49.86                              | 3.89                                                     | 46.0                                         | pass                              | 1.5                                                      | pass                  |
| 30 M100-30                          | 43.68                | 61.59                              | 7.78                                                     | 53.8                                         | pass                              | 1.7                                                      | pass                  |
| 60 M100-60                          | 53.95                | 76.07                              | 15.55                                                    | 60.5                                         | fail                              | 1.9                                                      | pass                  |
| 120 M100-120                        | 66.69                | 94.03                              | 31.10                                                    | 62.9                                         | fail                              | 2.0                                                      | pass                  |
| 240 M100 - 4hr                      | 82.42                | 116.21                             | 62.21                                                    | 54.0                                         | pass                              | 1.7                                                      | pass                  |
| 360 <b>M100-6 hr</b>                | <b>93.34</b>         | <b>131.61</b>                      | <b>93.31</b>                                             | <b>38.3</b>                                  | <b>pass</b>                       | <b>1.2</b>                                               | <b>pass</b>           |
| 720 M100-12 hr                      | 115.44               | 162.77                             | 186.62                                                   | -23.9                                        | pass                              | -0.8                                                     | pass                  |
| 1440 M100-1day                      | 142.74               | 201.26                             | 373.25                                                   | -172.0                                       | pass                              | -5.5                                                     | pass                  |

|                   |      |     |
|-------------------|------|-----|
| Run-off           | 0    | l/s |
| Imp. Area (TOTAL) | 1410 | m^2 |

Taking road way + nom. 50 % roof area  
Note rear saokaways designed for roof area so in excess provided

Soakaway Details

|            |              |                      |     |  |  |
|------------|--------------|----------------------|-----|--|--|
| width      | 10           |                      |     |  |  |
| depth      | 1.5          |                      |     |  |  |
| length     | 10           |                      |     |  |  |
| as50       | 30           | volume               | 150 |  |  |
|            |              | actual vol           | 60  |  |  |
| filtration | 1.44E-04 m/s | (GRANULAR 40% voids) |     |  |  |

Job Title: Craddockstown      Job Number: 24D024  
Calculation by: PN      Date: 24.09.24  
Checked by:

| Soakway Design: BRE Digest 365 1-100+30%<br>STONE STORAGE REQUIREMENT UNDER PERMEABLE PAVING |               |                           |                                              |                                     |                             |                                              |                 |
|----------------------------------------------------------------------------------------------|---------------|---------------------------|----------------------------------------------|-------------------------------------|-----------------------------|----------------------------------------------|-----------------|
| Storm Frequency & Duration                                                                   | Rainfall (mm) | I Inflow imper. area (m3) | O Outflow from soakaway during rainfall (m3) | Sreq Allowing for infiltration (m3) | Sufficient storage required | ts50 Time to empty half storage vol. (hours) | ts50 < 24 hours |
| M100-1                                                                                       | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| M100-2                                                                                       | 0.00          | 0.00                      | 0.00                                         | 0.0                                 | pass                        | 0.0                                          | pass            |
| 5 M100-5                                                                                     | 21.58         | 10.58                     | 1.47                                         | 9.1                                 | pass                        | 0.3                                          | pass            |
| 10 M100-10                                                                                   | 30.03         | 14.72                     | 2.94                                         | 11.8                                | pass                        | 0.3                                          | pass            |
| 15 M100-15                                                                                   | 35.36         | 17.34                     | 4.41                                         | 12.9                                | pass                        | 0.4                                          | pass            |
| 30 M100-30                                                                                   | 43.68         | 21.42                     | 8.83                                         | 12.6                                | pass                        | 0.4                                          | pass            |
| 60 M100-60                                                                                   | 53.95         | 26.45                     | 17.65                                        | 8.8                                 | pass                        | 0.2                                          | pass            |
| 120 M100-120                                                                                 | 66.69         | 32.70                     | 35.30                                        | -2.6                                | pass                        | -0.1                                         | pass            |
| 240 M100 - 4hr                                                                               | 82.42         | 40.41                     | 70.61                                        | -30.2                               | pass                        | -0.9                                         | pass            |
| 360 <b>M100-6 hr</b>                                                                         | <b>93.34</b>  | <b>45.76</b>              | <b>105.91</b>                                | <b>-60.1</b>                        | <b>pass</b>                 | <b>-1.7</b>                                  | <b>pass</b>     |
| 720 M100-12 hr                                                                               | 115.44        | 56.60                     | 211.82                                       | -155.2                              | pass                        | -4.4                                         | pass            |
| 1440 M100-1day                                                                               | 142.74        | 69.99                     | 423.64                                       | -353.7                              | pass                        | -10.0                                        | pass            |

| Run-off           | 0      | l/s |
|-------------------|--------|-----|
| Imp. Area (TOTAL) | 490.30 | m^2 |
| Parking Spaces    | 49.140 | m^2 |
|                   | 69.830 | m^2 |
|                   | 24.690 | m^3 |
|                   | 73.520 | m^4 |
|                   | 49.990 | m^5 |
|                   | 37.500 | m^6 |
|                   | 38.830 | m^7 |
|                   | 51.600 | m^8 |
|                   | 95.200 | m^9 |

| TOTAL Length  |
|---------------|
| 18.90         |
| 14.10         |
| 5.00          |
| 16.80         |
| 10.00         |
| 10.00         |
| 7.50          |
| 7.40          |
| 18.80         |
| <b>108.50</b> |

Soakaway Details

width 5  
depth 0.3  
length 108.5

as50 34.05      volume 162.75  
actual vol 65.1  
filtration 1.44E-04 m/s      (GRANULAR 40% voids)

|      |       |
|------|-------|
| 100  | 30    |
| 5    | 16.6  |
| 10   | 23.1  |
| 15   | 27.2  |
| 30   | 33.6  |
| 60   | 41.5  |
| 120  | 51.3  |
| 240  | 63.4  |
| 360  | 71.8  |
| 720  | 88.8  |
| 1440 | 109.8 |

**Checked by:**

LM

[illegible]

## **Appendix C – Surface Water Calculations (Attenuation, MET Eireann rainfall)**



Met Eireann  
Return Period Rainfall Depths for sliding Durations  
Irish Grid: Easting: 290223, Northing: 218004,

| DURATION | Interval |        | Years  |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|          | 6months, | 1year, | 2,     | 3,     | 4,     | 5,     | 10,    | 20,    | 30,    | 50,    | 75,    | 100,   | 150,   | 200,   | 250,   | 500,   |
| 5 mins   | 2.7,     | 3.9,   | 4.5,   | 5.5,   | 6.1,   | 6.7,   | 8.4,   | 10.4,  | 11.7,  | 13.6,  | 15.3,  | 16.6,  | 18.6,  | 20.2,  | 21.5,  | N/A ,  |
| 10 mins  | 3.7,     | 5.4,   | 6.3,   | 7.6,   | 8.6,   | 9.3,   | 11.7,  | 14.5,  | 16.3,  | 18.9,  | 21.3,  | 23.1,  | 25.9,  | 28.1,  | 30.0,  | N/A ,  |
| 15 mins  | 4.4,     | 6.3,   | 7.4,   | 9.0,   | 10.1,  | 10.9,  | 13.8,  | 17.0,  | 19.2,  | 22.2,  | 25.0,  | 27.2,  | 30.5,  | 33.1,  | 35.3,  | N/A ,  |
| 30 mins  | 5.8,     | 8.2,   | 9.6,   | 11.6,  | 12.9,  | 14.0,  | 17.4,  | 21.4,  | 24.0,  | 27.7,  | 31.0,  | 33.6,  | 37.5,  | 40.6,  | 43.2,  | N/A ,  |
| 1 hours  | 7.7,     | 10.8,  | 12.4,  | 14.9,  | 16.6,  | 17.9,  | 22.1,  | 26.9,  | 30.1,  | 34.5,  | 38.5,  | 41.5,  | 46.2,  | 49.9,  | 52.9,  | N/A ,  |
| 2 hours  | 10.1,    | 14.0,  | 16.1,  | 19.2,  | 21.2,  | 22.8,  | 28.0,  | 33.8,  | 37.6,  | 43.0,  | 47.7,  | 51.3,  | 56.9,  | 61.2,  | 64.8,  | N/A ,  |
| 3 hours  | 11.9,    | 16.4,  | 18.7,  | 22.2,  | 24.6,  | 26.4,  | 32.2,  | 38.7,  | 42.9,  | 48.9,  | 54.1,  | 58.1,  | 64.3,  | 69.0,  | 72.9,  | N/A ,  |
| 4 hours  | 13.4,    | 18.3,  | 20.9,  | 24.7,  | 27.2,  | 29.2,  | 35.5,  | 42.6,  | 47.1,  | 53.5,  | 59.1,  | 63.4,  | 70.0,  | 75.1,  | 79.3,  | N/A ,  |
| 6 hours  | 15.8,    | 21.4,  | 24.3,  | 28.6,  | 31.5,  | 33.7,  | 40.8,  | 48.7,  | 53.8,  | 60.9,  | 67.1,  | 71.8,  | 79.1,  | 84.7,  | 89.3,  | N/A ,  |
| 9 hours  | 18.6,    | 25.0,  | 28.3,  | 33.2,  | 36.4,  | 38.9,  | 46.9,  | 55.6,  | 61.3,  | 69.2,  | 76.1,  | 81.3,  | 89.3,  | 95.5,  | 100.5, | N/A ,  |
| 12 hours | 20.8,    | 27.9,  | 31.5,  | 36.8,  | 40.4,  | 43.1,  | 51.7,  | 61.2,  | 67.3,  | 75.8,  | 83.2,  | 88.8,  | 97.4,  | 104.0, | 109.3, | N/A ,  |
| 18 hours | 24.5,    | 32.5,  | 36.7,  | 42.7,  | 46.7,  | 49.7,  | 59.4,  | 70.0,  | 76.8,  | 86.2,  | 94.3,  | 100.5, | 110.0, | 117.2, | 123.1, | N/A ,  |
| 24 hours | 27.5,    | 36.3,  | 40.9,  | 47.4,  | 51.8,  | 55.1,  | 65.5,  | 77.0,  | 84.3,  | 94.4,  | 103.1, | 109.8, | 119.9, | 127.6, | 133.9, | 155.5, |
| 2 days   | 32.4,    | 41.9,  | 46.8,  | 53.7,  | 58.3,  | 61.8,  | 72.7,  | 84.4,  | 91.9,  | 102.1, | 110.9, | 117.5, | 127.6, | 135.2, | 141.4, | 162.5, |
| 3 days   | 36.6,    | 46.9,  | 52.1,  | 59.5,  | 64.3,  | 67.9,  | 79.4,  | 91.6,  | 99.4,  | 109.9, | 119.0, | 125.8, | 136.1, | 143.9, | 150.2, | 171.6, |
| 4 days   | 40.5,    | 51.4,  | 56.9,  | 64.7,  | 69.8,  | 73.6,  | 85.6,  | 98.4,  | 106.4, | 117.4, | 126.7, | 133.7, | 144.3, | 152.3, | 158.8, | 180.7, |
| 6 days   | 47.5,    | 59.6,  | 65.7,  | 74.3,  | 79.8,  | 84.0,  | 97.0,  | 110.8, | 119.4, | 131.0, | 141.0, | 148.4, | 159.6, | 168.0, | 174.8, | 197.8, |
| 8 days   | 53.8,    | 67.1,  | 73.7,  | 82.9,  | 88.9,  | 93.4,  | 107.3, | 122.0, | 131.2, | 143.5, | 154.0, | 161.9, | 173.6, | 182.4, | 189.6, | 213.6, |
| 10 days  | 59.8,    | 74.1,  | 81.1,  | 91.0,  | 97.4,  | 102.2, | 116.9, | 132.4, | 142.1, | 155.1, | 166.1, | 174.4, | 186.7, | 195.9, | 203.4, | 228.3, |
| 12 days  | 65.4,    | 80.6,  | 88.1,  | 98.7,  | 105.4, | 110.4, | 126.0, | 142.3, | 152.5, | 166.1, | 177.6, | 186.2, | 199.0, | 208.6, | 216.4, | 242.3, |
| 16 days  | 76.1,    | 93.1,  | 101.4, | 113.0, | 120.4, | 126.0, | 143.0, | 160.8, | 171.8, | 186.6, | 199.0, | 208.3, | 222.1, | 232.4, | 240.7, | 268.4, |
| 20 days  | 86.1,    | 104.8, | 113.8, | 126.5, | 134.5, | 140.5, | 159.0, | 178.1, | 189.9, | 205.7, | 219.0, | 228.9, | 243.6, | 254.5, | 263.4, | 292.7, |
| 25 days  | 98.2,    | 118.7, | 128.6, | 142.5, | 151.2, | 157.8, | 177.8, | 198.5, | 211.3, | 228.2, | 242.5, | 253.1, | 268.9, | 280.6, | 290.0, | 321.3, |

NOTES:

N/A Data not available

These values are derived from a Depth Duration Frequency (DDF) Model

For details refer to:

'Fitzgerald D. L. (2007), Estimates of Point Rainfall Frequencies, Technical Note No. 61, Met Eireann, Dublin',

Available for download at [www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies\\_TN61.pdf](http://www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies_TN61.pdf)