**Section 726.APPENDIX F Stack Plume Rise**

Estimated Plume Rise (in Meters)

Based on Stack Exit Flow Rate and Gas Temperature

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Exhaust Temperature (K°) | | | | | | | | | | |
| Flow  rate  (m3/sec) | <325 | 325-  349 | 350-399 | 400-449 | 450-499 | 500-599 | 600-699 | 700-799 | 800-999 | 1000-1499 | >1499 |
| <0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 - 0.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 1.0 - 1.9 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 |
| 2.0 - 2.9 | 0 | 0 | 1 | 3 | 4 | 4 | 6 | 6 | 7 | 8 | 9 |
| 3.0 - 3.9 | 0 | 1 | 2 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 |
| 4.0 - 4.9 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 13 | 14 | 15 | 17 |
| 5.0 - 7.4 | 2 | 3 | 5 | 8 | 10 | 12 | 14 | 16 | 17 | 19 | 21 |
| 7.5 - 9.9 | 3 | 5 | 8 | 12 | 15 | 17 | 20 | 22 | 22 | 23 | 24 |
| 10.0 - 12.4 | 4 | 6 | 10 | 15 | 19 | 21 | 23 | 24 | 25 | 26 | 27 |
| 12.5 - 14.9 | 4 | 7 | 12 | 18 | 22 | 23 | 25 | 26 | 27 | 28 | 29 |
| 15.0 - 19.9 | 5 | 8 | 13 | 20 | 23 | 24 | 26 | 27 | 28 | 29 | 31 |
| 20.0 - 24.9 | 6 | 10 | 17 | 23 | 25 | 27 | 29 | 30 | 31 | 32 | 34 |
| 25.0 - 29.9 | 7 | 12 | 20 | 25 | 27 | 29 | 31 | 32 | 33 | 35 | 36 |
| 30.0 - 34.9 | 8 | 14 | 22 | 26 | 29 | 31 | 33 | 35 | 36 | 37 | 39 |
| 35.0 - 39.9 | 9 | 16 | 23 | 28 | 30 | 32 | 35 | 36 | 37 | 39 | 41 |
| 40.0 - 49.9 | 10 | 17 | 24 | 29 | 32 | 34 | 36 | 38 | 39 | 41 | 42 |
| 50.0 - 59.9 | 12 | 21 | 26 | 31 | 34 | 36 | 39 | 41 | 42 | 44 | 46 |
| 60.0 - 69.9 | 14 | 22 | 27 | 33 | 36 | 39 | 42 | 43 | 45 | 47 | 49 |
| 70.0 - 79.9 | 16 | 23 | 29 | 35 | 38 | 41 | 44 | 46 | 47 | 49 | 51 |
| 80.0 - 89.9 | 17 | 25 | 30 | 36 | 40 | 42 | 46 | 48 | 49 | 51 | 54 |
| 90.0 - 99.9 | 19 | 26 | 31 | 38 | 42 | 44 | 48 | 50 | 51 | 53 | 56 |
| 100.0 - 119.9 | 21 | 26 | 32 | 39 | 43 | 46 | 49 | 52 | 53 | 55 | 58 |
| 120.0 - 139.9 | 22 | 28 | 35 | 42 | 46 | 49 | 52 | 55 | 56 | 59 | 61 |
| 140.0 - 159.9 | 23 | 30 | 36 | 44 | 48 | 51 | 55 | 58 | 59 | 62 | 65 |
| 160.0 - 179.9 | 25 | 31 | 38 | 46 | 50 | 54 | 58 | 60 | 62 | 65 | 67 |
| 180.0 - 199.9 | 26 | 32 | 40 | 48 | 52 | 56 | 60 | 63 | 65 | 67 | 70 |
| >199.9 | 26 | 33 | 41 | 49 | 54 | 58 | 62 | 65 | 67 | 69 | 73 |

(Source: Amended at 37 Ill. Reg. 3249, effective March 4, 2013)