**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION X Illinois Raised Filter Bed**

**Section 905.EXHIBIT A Sizing Requirements<br>Section 905.EXHIBIT B Batch Treatment Aeration Tank Design Requirements<br> Section 905.EXHIBIT C Filter Bed Cross Section (Side View)<br> Section 905.EXHIBIT D Filter Bed Cross Section (End View)<br> Section 905.EXHIBIT E Sizing Requirements Using Soils Investigation Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **RESIDENTIAL** | | **NON-RESIDENTIAL** | |
| U.S./GALS | BEDS 4 GAL/SQ FT Minimum SQ FT | SUGGESTED BED SIZE Minimum | BEDS  2.5 GALS/SQ FT Minimum SQ FT | SUGGESTED BED SIZE Minimum |
| 300 | 75 SQ/FT | 7'6" X 10'0" | 120 SQ/FT | 10'0" X 12'0" |
| 450 | 112.5 SQ/FT | 10'0" X 11'3" | 180 SQ/FT | 12'0" X 15'0" |
| 500 | 125 SQ/FT | 10'0" X 12'6" | 200 SQ/FT | 12'0" X 17'0" |
| 600 | 150 SQ/FT | 12'0" X 12'6" | 240 SQ/FT | 15'0" X 16'0" |
| 800 | 200 SQ/FT | 12'0" X 16'8" | 320 SQ/FT | 16'0" X 20'0" |
| 1,000 | 250 SQ/FT | 12'0" X 21'0" | 400 SQ/FT | 20'0" X 20'0" |
| 1,100 | 275 SQ/FT | 12'6" X 22'0" | 440 SQ/FT | 20'0" X 22'0" |
| 1,200 | 300 SQ/FT | 15'0" X 20'0" | 480 SQ/FT | 20'0" X 24'0" |
| 1,300 | 325 SQ/FT | 15'0" X 22'0" | 520 SQ/FT | 20'0" X 26'0" |
| 1,400 | 350 SQ/FT | 18'0" X 20'0" | 560 SQ/FT | 20'0" X 28'0" |
| 1,500 | 375 SQ/FT | 18'0" X 21'0" | 600 SQ/FT | 20'0" X 30'0" |
| 1,600 |  |  | 640 SQ/FT | 2 @ 16'0" X 20'0" |
| 1,700 |  |  | 680 SQ/FT | 2 @ 17'0" X 20'0" |
| 1,800 |  |  | 720 SQ/FT | 2 @ 18'0" X 20'0" |
| 2,000 |  |  | 800 SQ/FT | 2 @ 20'0" X 20'0" |
| 2,100 |  |  | 840 SQ/FT | 2 @ 20'0" X 21'0" |
| 2,200 |  |  | 880 SQ/FT | 2 @ 20'0" X 22'0" |
| 2,400 |  |  | 960 SQ/FT | 2 @ 20'0" X 24'0" |
| 2,500 |  |  | 1,000 SQ/FT | 2 @ 20'0" X 25'0" |
| 3,000 |  |  | 1,200 SQ/FT | 2 @ 24'0" X 25'0" |
| 12,000 |  |  | 4,800 SQ/FT | 8 @ 24'0" X 25'0" |

(Source: Old Illustration X repealed at 9 Ill. Reg. 20738, effective January 3, 1986; new Illustration X added at 27 Ill. Reg. 3074, effective February 10, 2003)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION X Illinois Raised Filter Bed**

**Section 905.EXHIBIT B Batch Treatment Aeration Tank Design Requirements**

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(Source: Added at 27 Ill. Reg. 3074, effective February 10, 2003)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION X Illinois Raised Filter Bed**

**Section 905.EXHIBIT C Filter Bed Cross Section (Side View)**



(Source: Added at 27 Ill. Reg. 3074, effective February 10, 2003)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION X Illinois Raised Filter Bed**

**Section 905.EXHIBIT D Filter Bed Cross Section (End View)**

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NOTE: CROWNING SHOWN FOR TORPEDO SAND APPLIES TO MANTLE AREA ONLY

(Source: Added at 27 Ill. Reg. 3074, effective February 10, 2003)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION X Illinois Raised Filter Bed**

**Section 905.EXHIBIT E Sizing Requirements Using Soils Investigation Information**

|  |  |
| --- | --- |
| **Design Group** | **Percolation Rate Equivalent** |
| **I** | **Unsuitable** |
| **II** | **10 minutes/inch** |
| **III** | **15 minutes/inch** |
| **IV** | **20 minutes/inch** |
| **V** | **23 minutes/inch** |
| **VI** | **25 minutes/inch** |
| **VII** | **30 minutes/inch** |
| **VIII** | **35 minutes/inch** |
| **IX** | **40 minutes/inch** |
| **X** | **50 minutes/inch** |
| **XI** | **70 minutes/inch** |
| **XII** | **90 minutes/inch** |

(Source: Added at 27 Ill. Reg. 3074, effective February 10, 2003)