

**ASHRAE Standard 62.1-2004-2010**  
By MFIA Inc.

**Ventilation Calculations for Cooling Design**

| System Zone Room     | Box Type      | Vpz<br>cfm | Vfan<br>cfm | Vdz<br>cfm | Vpz-min<br>cfm | Voz-clg<br>cfm | Zd    | Ep   | Er   | Fa   | Fb   | Fc   | Evz     |
|----------------------|---------------|------------|-------------|------------|----------------|----------------|-------|------|------|------|------|------|---------|
| <b>Alternative 1</b> |               |            |             |            |                |                |       |      |      |      |      |      |         |
| 321 Multi Purpose 1  | None          | 2,851      | 2,851       | 2,851      | 1,056          | 1,056          | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.370 * |
| RTU-1                |               | 2,851      | 2,851       | 2,851      | 1,056          | 1,056          |       |      |      |      |      |      | 0.370   |
| RTU-1                |               | 2,851      | 2,851       | 2,851      | 1,056          | 1,056          |       |      |      |      |      |      | 0.370   |
| 322 Multi Purpose 2  | None          | 2,064      | 2,064       | 2,064      | 891            | 891            | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.432 * |
| RTU-2                |               | 2,064      | 2,064       | 2,064      | 891            | 891            |       |      |      |      |      |      | 0.432   |
| RTU-2                |               | 2,064      | 2,064       | 2,064      | 891            | 891            |       |      |      |      |      |      | 0.432   |
| 323 Multi Purpose 3  | None          | 2,441      | 2,441       | 2,441      | 1,307          | 1,307          | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.536 * |
| RTU-3                |               | 2,441      | 2,441       | 2,441      | 1,307          | 1,307          |       |      |      |      |      |      | 0.536   |
| RTU-3                |               | 2,441      | 2,441       | 2,441      | 1,307          | 1,307          |       |      |      |      |      |      | 0.536   |
| 100 Lobby            | Single Fan CV | 2,103      | 2,103       | 2,103      | 210            | 85             | 0.403 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| FC-8-9               |               | 2,103      | 2,103       | 2,103      | 210            | 85             |       |      |      |      |      |      | 1.000   |
| 110 Waiting          | Single Fan CV | 136        | 136         | 136        | 20             | 20             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| CC-14                |               | 136        | 136         | 136        | 20             | 20             |       |      |      |      |      |      | 1.000   |
| 112 Consult          | Single Fan CV | 29         | 29          | 29         | 10             | 10             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 113 Consult          | Single Fan CV | 27         | 27          | 27         | 9              | 9              | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 116 Toilet           | Single Fan CV | 30         | 30          | 30         | 6              | 6              | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 115 Toilet           | Single Fan CV | 33         | 33          | 33         | 7              | 7              | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 114 Consult          | Single Fan CV | 39         | 39          | 39         | 13             | 13             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 117 Consult          | Single Fan CV | 37         | 37          | 37         | 12             | 12             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 118 Consult          | Single Fan CV | 38         | 38          | 38         | 13             | 13             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 119 Consult          | Single Fan CV | 38         | 38          | 38         | 13             | 13             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| 111 Clinic Corridor  | Single Fan CV | 126        | 126         | 126        | 24             | 24             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| FC-1                 |               | 396        | 396         | 396        | 107            | 107            |       |      |      |      |      |      | 1.000   |
| 120 Consult          | Single Fan CV | 898        | 898         | 898        | 90             | 31             | 0.340 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| CC-8                 |               | 898        | 898         | 898        | 90             | 31             |       |      |      |      |      |      | 1.000   |
| 140 Shell Office     | Single Fan CV | 4,543      | 4,543       | 4,543      | 603            | 603            | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| FC-SHELL             |               | 4,543      | 4,543       | 4,543      | 603            | 603            |       |      |      |      |      |      | 1.000   |
| S1 Stair             | Single Fan CV | 2,535      | 2,535       | 2,535      | 253            | 28             | 0.110 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000   |
| CC-17-18             |               | 2,535      | 2,535       | 2,535      | 253            | 28             |       |      |      |      |      |      | 1.000   |
| VRV-1                |               | 10,610     | 10,610      | 10,610     | 1,284          | 873            |       |      |      |      |      |      | 1.000   |
| Data Room            |               | 0          | 0           | 0          | 0              | 0              |       |      |      |      |      |      | 0.000   |
| Data Room            |               | 0          | 0           | 0          | 0              | 0              |       |      |      |      |      |      | 0.000   |
| Freeze Proof         |               | 0          | 0           | 0          | 0              | 0              |       |      |      |      |      |      | 0.000   |

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Dataset Name: 9097LEED.TRC  
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| System Zone Room     | Box Type      | Vpz<br>cfm | Vfan<br>cfm | Vdz<br>cfm | Vpz-min<br>cfm | Voz-clg<br>cfm | Zd    | Ep   | Er   | Fa   | Fb   | Fc   | Evz   |
|----------------------|---------------|------------|-------------|------------|----------------|----------------|-------|------|------|------|------|------|-------|
| <b>Alternative 1</b> |               |            |             |            |                |                |       |      |      |      |      |      |       |
| 309 Lobby            | Single Fan CV | 389        | 389         | 389        | 61             | 61             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-16                |               | 389        | 389         | 389        | 61             | 61             |       |      |      |      |      |      | 1.000 |
| 305 Consult          | Single Fan CV | 64         | 64          | 64         | 15             | 15             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 306 Consult          | Single Fan CV | 58         | 58          | 58         | 12             | 12             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 307 Consult          | Single Fan CV | 58         | 58          | 58         | 12             | 12             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 308 Consult          | Single Fan CV | 89         | 89          | 89         | 12             | 12             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 304 RESOURCE         | Single Fan CV | 216        | 216         | 216        | 28             | 28             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-2                 |               | 485        | 485         | 485        | 78             | 78             |       |      |      |      |      |      | 1.000 |
| 300 Corridor         | Single Fan CV | 461        | 461         | 461        | 63             | 63             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 301 Kitchen          | Single Fan CV | 336        | 336         | 336        | 112            | 112            | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 302 Restroom         | Single Fan CV | 93         | 93          | 93         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 303 Restroom         | Single Fan CV | 93         | 93          | 93         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-3                 |               | 984        | 984         | 984        | 213            | 213            |       |      |      |      |      |      | 1.000 |
| 214 Office           | Single Fan CV | 105        | 105         | 105        | 14             | 14             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 215 Office           | Single Fan CV | 107        | 107         | 107        | 15             | 15             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 216 Office           | Single Fan CV | 106        | 106         | 106        | 15             | 15             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 217 Office           | Single Fan CV | 106        | 106         | 106        | 15             | 15             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 218 Office           | Single Fan CV | 129        | 129         | 129        | 36             | 36             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-5                 |               | 551        | 551         | 551        | 95             | 95             |       |      |      |      |      |      | 1.000 |
| 230 Open Office      | Single Fan CV | 5,539      | 5,539       | 5,539      | 656            | 656            | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-1 TO CC-7         |               | 5,539      | 5,539       | 5,539      | 656            | 656            |       |      |      |      |      |      | 1.000 |
| 201 Conference       | Single Fan CV | 767        | 767         | 767        | 91             | 91             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-13                |               | 767        | 767         | 767        | 91             | 91             |       |      |      |      |      |      | 1.000 |
| 200 Corridor         | Single Fan CV | 393        | 393         | 393        | 80             | 80             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 219 Storage          | Single Fan CV | 12         | 12          | 12         | 2              | 2              | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 229 Copy             | Single Fan CV | 63         | 63          | 63         | 21             | 21             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 226-227 Office       | Single Fan CV | 50         | 50          | 50         | 17             | 17             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 231 WELLNESS         | Single Fan CV | 76         | 76          | 76         | 25             | 25             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-4                 |               | 594        | 594         | 594        | 146            | 146            |       |      |      |      |      |      | 1.000 |
| 212 Office           | Single Fan CV | 279        | 279         | 279        | 34             | 34             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-10                |               | 279        | 279         | 279        | 34             | 34             |       |      |      |      |      |      | 1.000 |
| 207 Office           | Single Fan CV | 77         | 77          | 77         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 208 Office           | Single Fan CV | 77         | 77          | 77         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |

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| System Zone Room     | Box Type      | Vpz<br>cfm | Vfan<br>cfm | Vdz<br>cfm | Vpz-min<br>cfm | Voz-clg<br>cfm | Zd    | Ep   | Er   | Fa   | Fb   | Fc   | Evz   |
|----------------------|---------------|------------|-------------|------------|----------------|----------------|-------|------|------|------|------|------|-------|
| <b>Alternative 1</b> |               |            |             |            |                |                |       |      |      |      |      |      |       |
| 209 Office           | Single Fan CV | 77         | 77          | 77         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 210 Office           | Single Fan CV | 77         | 77          | 77         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 211 Office           | Single Fan CV | 77         | 77          | 77         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-6                 |               | 385        | 385         | 385        | 95             | 95             |       |      |      |      |      |      | 1.000 |
| 213 Office           | Single Fan CV | 165        | 165         | 165        | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-9                 |               | 165        | 165         | 165        | 19             | 19             |       |      |      |      |      |      | 1.000 |
| 204 Restroom         | Single Fan CV | 96         | 96          | 96         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 205 Restroom         | Single Fan CV | 96         | 96          | 96         | 19             | 19             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| 206 Breakroom        | Single Fan CV | 300        | 300         | 300        | 99             | 99             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| FC-7                 |               | 492        | 492         | 492        | 137            | 137            |       |      |      |      |      |      | 1.000 |
| 203 Conference       | Single Fan CV | 336        | 336         | 336        | 95             | 95             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-11                |               | 336        | 336         | 336        | 95             | 95             |       |      |      |      |      |      | 1.000 |
| 202 Meeting          | Single Fan CV | 180        | 180         | 180        | 34             | 34             | 1,000 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.000 |
| CC-12                |               | 180        | 180         | 180        | 34             | 34             |       |      |      |      |      |      | 1.000 |
| VRV-2                |               | 11,148     | 11,148      | 11,148     | 1,751          | 1,751          |       |      |      |      |      |      | 1.000 |

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**PERMIT SET**

07.22.2016

| issue:     | date:    |
|------------|----------|
| 100% SD    | 10.15.15 |
| 50% DD     | 12.09.15 |
| 100% DD    | 02.05.16 |
| 50% CD     | 03.30.16 |
| 75% CD     | 04.27.16 |
| PERMIT SET | 07.22.16 |

| revision: | date:                       |
|-----------|-----------------------------|
| 1         | PERMIT REV (ADD 1) 01.24.17 |
| 2         | PERMIT REV 2 02.09.17       |
| 3         | PERMIT REV 3 03.08.17       |
| 4         | CONST SET REV 4 03.31.17    |

title: **MECHANICAL VENTILATION SCHEDULE**

sheet:

**M6.08**