**公共建筑换气次数**

**计算书**

|  |  |
| --- | --- |
| 工程名称 | 合肥某住区 |
| 工程地点 | 合肥· |
| 设计编号 |  |
| 建设单位 |  |
| 设计单位 |  |
| 设 计 人 |  |
| 校 对 人 |  |
| 审 核 人 |  |
| 设计日期 |  |



|  |  |
| --- | --- |
| 采用软件 | 绿建斯维尔建筑通风Vent202020 |
| 软件版本 | 20200606 |
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# 建筑概况

|  |  |
| --- | --- |
| 工程名称 | 合肥某住区 |
| 工程地点 | 合肥 |

# 计算依据

1. 《绿色建筑评价标准》GB/T50378—2019

2. 《绿色建筑评价技术细则》

3. 相关建筑图纸

# 参考标准

《绿色建筑评价标准》GB/T50378—2019 中5.2.10条款 对公共建筑的室内自然通风效果按以下规则评分：

根据在过渡季典型工况下主要功能房间平均自然通风换气次数不小于 2 次/h 的面积比例，按照下表的规则评分，最高得 8 分。

表1 公共建筑过渡季节典型工况下主要功能房间自然通风评分规则

|  |  |
| --- | --- |
| 面积比例 RR | 得分 |
| 70%≤RR＜80% | 5 |
| 80%≤RR＜90% | 6 |
| 90%≤RR＜100% | 7 |
| RR=100% | 8 |

# 计算方法

本项目采用多区域网络法对该建筑室内换气次数进行计算，多区域网络法即把室内各房间分为不同的通风换气区域，以门窗风压作为边界条件，不同区域之间通过联通的门窗作为连接，进行数据的传输，最终获得各个房间的换气次数。

房间换气次数的计算源于通风路径空气质量流量的计算，基于多区域网络法的空气质量流量计算如下式：

$$Q=C\_{d}A\sqrt{\frac{2∆P}{ρ}}$$

$ Q$——房间体积流量（$m^{3}$/s）

∆P——相邻房间之间门窗的风压差；

$C\_{d}$——流量系数，对于大的建筑洞口，取0.5，对于狭小的洞口取0.65，本项目计算取0.6；

*A*——洞口面积（$m^{2}$）

$ρ$——空气密度 （${kg}/{m^{3}}$）

通过上述方法获取一个房间的体积流量$Q$之后，即可进行房间换气次数的计算：

$$Acr=\frac{Q\*3600}{V}$$

$Q$——房间体积流量（$m^{3}$/s）

$Acr$——换气次数（次/h）；

$V$——房间体积（m3）；

# 换气次数计算表

表2 公共建筑过渡季节典型工况下换气次数统计表

|  |
| --- |
| 换气次数大于2次/h的面积比 |
| 换气次数大于2次/h的面积 | 30286.04 | ㎡ |
| 总面积 | 37007.06 | ㎡ |
| 面积比例RR | 81.84 | % |

| 分类 | 体积(m^3) | 面积(m^2) | 换气次数(次/h) |
| --- | --- | --- | --- |
|  建筑 |  |  |  |
|  第1层 |  |  |  |
|  1001[房间] | 6051.48 | 1008.58 | 34.13 |
|  1005[商场-一般商店] | 2532.68 | 422.11 | 10.18 |
|  1018[商场-一般商店] | 1075.02 | 179.17 | 18.74 |
|  1021[商场-一般商店] | 944.76 | 157.46 | 5.24 |
|  第2层 |  |  |  |
|  户:1-A | 1091.16 | 213.95 |  |
|  2014[商场-一般商店] | 1091.16 | 213.95 | 30.95 |
|  2007[商场-一般商店] | 1917.42 | 375.96 | 3.54 |
|  2008[房间] | 1783.47 | 349.70 | 0.00 |
|  2032[商场-一般商店] | 757.35 | 148.50 | 0.00 |
|  2050[商场-一般商店] | 678.12 | 132.96 | 0.00 |
|  2060[商场-一般商店] | 585.68 | 114.84 | 0.00 |
|  2075[商场-一般商店] | 454.50 | 89.12 | 34.27 |
|  2116[商场-一般商店] | 390.12 | 76.50 | 0.00 |
|  2153[商场-一般商店] | 242.00 | 47.45 | 0.00 |
|  2164[办公-其它] | 142.21 | 27.88 | 0.00 |
|  2185[办公-其它] | 97.76 | 19.17 | 0.00 |
|  第3层 |  |  |  |
|  3009[商场-一般商店] | 1326.63 | 294.81 | 0.00 |
|  3013[商场-一般商店] | 995.59 | 221.24 | 0.00 |
|  3019[商场-一般商店] | 799.26 | 177.61 | 0.00 |
|  3020[房间] | 747.06 | 166.01 | 15.68 |
|  3024[房间] | 696.86 | 154.86 | 16.52 |
|  3049[房间] | 634.62 | 141.03 | 0.00 |
|  3051[房间] | 565.26 | 125.61 | 21.62 |
|  3052[房间] | 560.64 | 124.59 | 17.53 |
|  3061[商场-一般商店] | 505.62 | 112.36 | 0.00 |
|  3183[办公-其它] | 91.15 | 20.25 | 0.00 |
|  3198[办公-其它] | 73.03 | 16.23 | 0.00 |
|  3202[办公-其它] | 58.13 | 12.92 | 0.00 |
|  第4层 |  |  |  |
|  户:1-B@4 | 665.98 | 147.99 |  |
|  4037@4[办公室] | 665.97 | 147.99 | 50.68 |
|  户:1-F@4 | 693.57 | 154.13 |  |
|  4025@4[办公室] | 693.30 | 154.07 | 31.17 |
|  4042@4[办公室] | 659.46 | 146.55 | 3.57 |
|  4069@4[办公室] | 484.40 | 107.64 | 25.84 |
|  4115@4[办公室] | 344.64 | 76.59 | 37.48 |
|  4126@4[办公室] | 309.38 | 68.75 | 17.04 |
|  4133@4[办公室] | 297.65 | 66.14 | 8.34 |
|  4150@4[办公室] | 244.47 | 54.33 | 8.18 |
|  4176@4[办公室] | 102.22 | 22.72 | 0.00 |
|  4191@4[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第5层 |  |  |  |
|  户:1-B@5 | 665.98 | 147.99 |  |
|  4037@5[办公室] | 665.97 | 147.99 | 55.48 |
|  户:1-F@5 | 693.57 | 154.13 |  |
|  4025@5[办公室] | 693.30 | 154.07 | 33.10 |
|  4042@5[办公室] | 659.46 | 146.55 | 5.45 |
|  4069@5[办公室] | 484.40 | 107.64 | 22.96 |
|  4115@5[办公室] | 344.64 | 76.59 | 39.93 |
|  4126@5[办公室] | 309.38 | 68.75 | 21.70 |
|  4133@5[办公室] | 297.65 | 66.14 | 8.42 |
|  4150@5[办公室] | 244.47 | 54.33 | 14.69 |
|  4176@5[办公室] | 102.22 | 22.72 | 0.00 |
|  4191@5[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第6层 |  |  |  |
|  户:1-B@6 | 665.98 | 147.99 |  |
|  4037@6[办公室] | 665.97 | 147.99 | 57.37 |
|  户:1-F@6 | 693.57 | 154.13 |  |
|  4025@6[办公室] | 693.30 | 154.07 | 33.50 |
|  4042@6[办公室] | 659.46 | 146.55 | 4.28 |
|  4069@6[办公室] | 484.40 | 107.64 | 25.44 |
|  4115@6[办公室] | 344.64 | 76.59 | 41.70 |
|  4126@6[办公室] | 309.38 | 68.75 | 22.60 |
|  4133@6[办公室] | 297.65 | 66.14 | 8.66 |
|  4150@6[办公室] | 244.47 | 54.33 | 12.62 |
|  4176@6[办公室] | 102.22 | 22.72 | 0.00 |
|  4191@6[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第7层 |  |  |  |
|  户:1-B@7 | 665.98 | 147.99 |  |
|  4037@7[办公室] | 665.97 | 147.99 | 54.10 |
|  户:1-F@7 | 693.57 | 154.13 |  |
|  4025@7[办公室] | 693.30 | 154.07 | 32.94 |
|  4042@7[办公室] | 659.46 | 146.55 | 5.48 |
|  4069@7[办公室] | 484.40 | 107.64 | 35.46 |
|  4115@7[办公室] | 344.64 | 76.59 | 43.66 |
|  4126@7[办公室] | 309.38 | 68.75 | 22.93 |
|  4133@7[办公室] | 297.65 | 66.14 | 8.94 |
|  4150@7[办公室] | 244.47 | 54.33 | 12.09 |
|  4176@7[办公室] | 102.22 | 22.72 | 0.00 |
|  4191@7[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第8层 |  |  |  |
|  户:1-B@8 | 665.98 | 147.99 |  |
|  4037@8[办公室] | 665.97 | 147.99 | 50.25 |
|  户:1-F@8 | 693.57 | 154.13 |  |
|  4025@8[办公室] | 693.30 | 154.07 | 33.98 |
|  4042@8[办公室] | 659.46 | 146.55 | 2.40 |
|  4069@8[办公室] | 484.40 | 107.64 | 46.38 |
|  4115@8[办公室] | 344.64 | 76.59 | 44.89 |
|  4126@8[办公室] | 309.38 | 68.75 | 24.03 |
|  4133@8[办公室] | 297.65 | 66.14 | 8.85 |
|  4150@8[办公室] | 244.47 | 54.33 | 11.92 |
|  4176@8[办公室] | 102.22 | 22.72 | 0.00 |
|  4191@8[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第9层 |  |  |  |
|  9027@9[办公室] | 693.30 | 154.07 | 34.93 |
|  9035@9[办公室] | 665.97 | 147.99 | 43.01 |
|  9043@9[办公室] | 659.46 | 146.55 | 17.41 |
|  9067@9[办公室] | 484.40 | 107.64 | 61.98 |
|  9112@9[办公室] | 345.18 | 76.71 | 46.39 |
|  9128@9[办公室] | 309.38 | 68.75 | 19.76 |
|  9135@9[办公室] | 297.65 | 66.14 | 9.01 |
|  9151@9[办公室] | 244.47 | 54.33 | 8.33 |
|  9178@9[办公室] | 102.22 | 22.72 | 0.00 |
|  9192@9[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第10层 |  |  |  |
|  9027@10[办公室] | 693.30 | 154.07 | 36.62 |
|  9035@10[办公室] | 665.97 | 147.99 | 40.06 |
|  9043@10[办公室] | 659.46 | 146.55 | 18.10 |
|  9067@10[办公室] | 484.40 | 107.64 | 62.68 |
|  9112@10[办公室] | 345.18 | 76.71 | 47.82 |
|  9128@10[办公室] | 309.38 | 68.75 | 17.04 |
|  9135@10[办公室] | 297.65 | 66.14 | 11.58 |
|  9151@10[办公室] | 244.47 | 54.33 | 12.75 |
|  9178@10[办公室] | 102.22 | 22.72 | 0.00 |
|  9192@10[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第11层 |  |  |  |
|  第12层 |  |  |  |
|  12026@12[办公室] | 693.30 | 154.07 | 0.00 |
|  12034@12[办公室] | 665.97 | 147.99 | 38.13 |
|  12044@12[办公室] | 659.46 | 146.55 | 14.36 |
|  12068@12[办公室] | 484.40 | 107.64 | 49.02 |
|  12111@12[办公室] | 345.18 | 76.71 | 0.00 |
|  12127@12[办公室] | 309.38 | 68.75 | 0.00 |
|  12134@12[办公室] | 297.65 | 66.14 | 7.67 |
|  12148@12[办公室] | 244.47 | 54.33 | 0.00 |
|  12175@12[办公室] | 102.22 | 22.72 | 0.00 |
|  12188@12[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第13层 |  |  |  |
|  12026@13[办公室] | 693.30 | 154.07 | 0.00 |
|  12034@13[办公室] | 665.97 | 147.99 | 36.40 |
|  12044@13[办公室] | 659.46 | 146.55 | 14.08 |
|  12068@13[办公室] | 484.40 | 107.64 | 46.46 |
|  12111@13[办公室] | 345.18 | 76.71 | 6.09 |
|  12127@13[办公室] | 309.38 | 68.75 | 0.00 |
|  12134@13[办公室] | 297.65 | 66.14 | 8.07 |
|  12148@13[办公室] | 244.47 | 54.33 | 0.00 |
|  12175@13[办公室] | 102.22 | 22.72 | 0.00 |
|  12188@13[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第14层 |  |  |  |
|  12026@14[办公室] | 693.30 | 154.07 | 0.00 |
|  12034@14[办公室] | 665.97 | 147.99 | 33.33 |
|  12044@14[办公室] | 659.46 | 146.55 | 12.60 |
|  12068@14[办公室] | 484.40 | 107.64 | 42.86 |
|  12111@14[办公室] | 345.18 | 76.71 | 6.04 |
|  12127@14[办公室] | 309.38 | 68.75 | 0.00 |
|  12134@14[办公室] | 297.65 | 66.14 | 8.37 |
|  12148@14[办公室] | 244.47 | 54.33 | 0.00 |
|  12175@14[办公室] | 102.22 | 22.72 | 0.00 |
|  12188@14[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第15层 |  |  |  |
|  12026@15[办公室] | 693.30 | 154.07 | 0.00 |
|  12034@15[办公室] | 665.97 | 147.99 | 28.67 |
|  12044@15[办公室] | 659.46 | 146.55 | 11.32 |
|  12068@15[办公室] | 484.40 | 107.64 | 39.95 |
|  12111@15[办公室] | 345.18 | 76.71 | 5.18 |
|  12127@15[办公室] | 309.38 | 68.75 | 0.00 |
|  12134@15[办公室] | 297.65 | 66.14 | 8.35 |
|  12148@15[办公室] | 244.47 | 54.33 | 0.00 |
|  12175@15[办公室] | 102.22 | 22.72 | 0.00 |
|  12188@15[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第16层 |  |  |  |
|  16028@16[办公室] | 693.30 | 154.07 | 0.00 |
|  16033@16[办公室] | 665.97 | 147.99 | 20.00 |
|  16041@16[办公室] | 659.46 | 146.55 | 10.07 |
|  16065@16[办公室] | 484.40 | 107.64 | 37.99 |
|  16113@16[办公室] | 345.18 | 76.71 | 5.94 |
|  16129@16[办公室] | 309.38 | 68.75 | 0.00 |
|  16132@16[办公室] | 297.65 | 66.14 | 9.27 |
|  16152@16[办公室] | 244.47 | 54.33 | 0.00 |
|  16177@16[办公室] | 102.22 | 22.72 | 0.00 |
|  16194@16[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第17层 |  |  |  |
|  16028@17[办公室] | 693.30 | 154.07 | 0.00 |
|  16033@17[办公室] | 665.97 | 147.99 | 3.05 |
|  16041@17[办公室] | 659.46 | 146.55 | 7.22 |
|  16065@17[办公室] | 484.40 | 107.64 | 31.80 |
|  16113@17[办公室] | 345.18 | 76.71 | 4.98 |
|  16129@17[办公室] | 309.38 | 68.75 | 0.00 |
|  16132@17[办公室] | 297.65 | 66.14 | 9.37 |
|  16152@17[办公室] | 244.47 | 54.33 | 0.00 |
|  16177@17[办公室] | 102.22 | 22.72 | 0.00 |
|  16194@17[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第18层 |  |  |  |
|  16028@18[办公室] | 693.30 | 154.07 | 0.00 |
|  16033@18[办公室] | 665.97 | 147.99 | 20.88 |
|  16041@18[办公室] | 659.46 | 146.55 | 3.95 |
|  16065@18[办公室] | 484.40 | 107.64 | 27.33 |
|  16113@18[办公室] | 345.18 | 76.71 | 0.13 |
|  16129@18[办公室] | 309.38 | 68.75 | 0.00 |
|  16132@18[办公室] | 297.65 | 66.14 | 8.30 |
|  16152@18[办公室] | 244.47 | 54.33 | 0.00 |
|  16177@18[办公室] | 102.22 | 22.72 | 0.00 |
|  16194@18[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第19层 |  |  |  |
|  16028@19[办公室] | 693.30 | 154.07 | 0.00 |
|  16033@19[办公室] | 665.97 | 147.99 | 29.52 |
|  16041@19[办公室] | 659.46 | 146.55 | 8.29 |
|  16065@19[办公室] | 484.40 | 107.64 | 28.20 |
|  16113@19[办公室] | 345.18 | 76.71 | 0.13 |
|  16129@19[办公室] | 309.38 | 68.75 | 0.00 |
|  16132@19[办公室] | 297.65 | 66.14 | 8.77 |
|  16152@19[办公室] | 244.47 | 54.33 | 0.00 |
|  16177@19[办公室] | 102.22 | 22.72 | 0.00 |
|  16194@19[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第20层 |  |  |  |
|  16028@20[办公室] | 693.30 | 154.07 | 0.00 |
|  16033@20[办公室] | 665.97 | 147.99 | 37.61 |
|  16041@20[办公室] | 659.46 | 146.55 | 10.79 |
|  16065@20[办公室] | 484.40 | 107.64 | 31.72 |
|  16113@20[办公室] | 345.18 | 76.71 | 0.13 |
|  16129@20[办公室] | 309.38 | 68.75 | 0.00 |
|  16132@20[办公室] | 297.65 | 66.14 | 9.81 |
|  16152@20[办公室] | 244.47 | 54.33 | 0.00 |
|  16177@20[办公室] | 102.22 | 22.72 | 0.00 |
|  16194@20[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第21层 |  |  |  |
|  第22层 |  |  |  |
|  22029@22[办公室] | 693.30 | 154.07 | 40.35 |
|  22036@22[办公室] | 665.97 | 147.99 | 61.18 |
|  22040@22[办公室] | 659.46 | 146.55 | 18.36 |
|  22066@22[办公室] | 484.40 | 107.64 | 31.50 |
|  22114@22[办公室] | 345.18 | 76.71 | 54.11 |
|  22130@22[办公室] | 309.38 | 68.75 | 18.52 |
|  22131@22[办公室] | 297.65 | 66.14 | 5.43 |
|  22149@22[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@22[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@22[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第23层 |  |  |  |
|  22029@23[办公室] | 693.30 | 154.07 | 38.97 |
|  22036@23[办公室] | 665.97 | 147.99 | 65.23 |
|  22040@23[办公室] | 659.46 | 146.55 | 20.13 |
|  22066@23[办公室] | 484.40 | 107.64 | 32.37 |
|  22114@23[办公室] | 345.18 | 76.71 | 54.54 |
|  22130@23[办公室] | 309.38 | 68.75 | 21.19 |
|  22131@23[办公室] | 297.65 | 66.14 | 7.70 |
|  22149@23[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@23[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@23[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第24层 |  |  |  |
|  22029@24[办公室] | 693.30 | 154.07 | 39.64 |
|  22036@24[办公室] | 665.97 | 147.99 | 69.01 |
|  22040@24[办公室] | 659.46 | 146.55 | 21.40 |
|  22066@24[办公室] | 484.40 | 107.64 | 33.66 |
|  22114@24[办公室] | 345.18 | 76.71 | 54.56 |
|  22130@24[办公室] | 309.38 | 68.75 | 18.93 |
|  22131@24[办公室] | 297.65 | 66.14 | 8.18 |
|  22149@24[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@24[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@24[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第25层 |  |  |  |
|  22029@25[办公室] | 693.30 | 154.07 | 40.70 |
|  22036@25[办公室] | 665.97 | 147.99 | 72.97 |
|  22040@25[办公室] | 659.46 | 146.55 | 22.60 |
|  22066@25[办公室] | 484.40 | 107.64 | 34.59 |
|  22114@25[办公室] | 345.18 | 76.71 | 55.29 |
|  22130@25[办公室] | 309.38 | 68.75 | 18.95 |
|  22131@25[办公室] | 297.65 | 66.14 | 9.77 |
|  22149@25[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@25[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@25[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第26层 |  |  |  |
|  22029@26[办公室] | 693.30 | 154.07 | 40.14 |
|  22036@26[办公室] | 665.97 | 147.99 | 75.27 |
|  22040@26[办公室] | 659.46 | 146.55 | 23.74 |
|  22066@26[办公室] | 484.40 | 107.64 | 33.56 |
|  22114@26[办公室] | 345.18 | 76.71 | 55.16 |
|  22130@26[办公室] | 309.38 | 68.75 | 19.00 |
|  22131@26[办公室] | 297.65 | 66.14 | 9.89 |
|  22149@26[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@26[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@26[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第27层 |  |  |  |
|  22029@27[办公室] | 693.30 | 154.07 | 38.49 |
|  22036@27[办公室] | 665.97 | 147.99 | 77.03 |
|  22040@27[办公室] | 659.46 | 146.55 | 24.86 |
|  22066@27[办公室] | 484.40 | 107.64 | 33.91 |
|  22114@27[办公室] | 345.18 | 76.71 | 55.93 |
|  22130@27[办公室] | 309.38 | 68.75 | 19.21 |
|  22131@27[办公室] | 297.65 | 66.14 | 8.07 |
|  22149@27[办公室] | 244.47 | 54.33 | 0.00 |
|  22179@27[办公室] | 102.22 | 22.72 | 0.00 |
|  22193@27[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第28层 |  |  |  |
|  28022@28[办公室] | 707.12 | 157.14 | 80.53 |
|  28030@28[办公室] | 669.66 | 148.81 | 96.55 |
|  28038@28[办公室] | 661.47 | 146.99 | 53.51 |
|  28109@28[办公室] | 346.85 | 77.08 | 134.50 |
|  28122@28[办公室] | 315.63 | 70.14 | 25.25 |
|  28137@28[办公室] | 297.65 | 66.14 | 105.70 |
|  28138@28[办公室] | 279.32 | 62.07 | 71.27 |
|  28147@28[办公室] | 244.49 | 54.33 | 41.27 |
|  28156@28[办公室] | 204.88 | 45.53 | 98.96 |
|  28169@28[办公室] | 105.68 | 23.49 | 200.55 |
|  28189@28[办公-其它] | 77.89 | 17.31 | 107.63 |
|  第29层 |  |  |  |
|  28022@29[办公室] | 707.12 | 157.14 | 84.20 |
|  28030@29[办公室] | 669.66 | 148.81 | 96.51 |
|  28038@29[办公室] | 661.47 | 146.99 | 53.93 |
|  28109@29[办公室] | 346.85 | 77.08 | 135.33 |
|  28122@29[办公室] | 315.63 | 70.14 | 25.54 |
|  28137@29[办公室] | 297.65 | 66.14 | 106.39 |
|  28138@29[办公室] | 279.32 | 62.07 | 71.59 |
|  28147@29[办公室] | 244.49 | 54.33 | 41.24 |
|  28156@29[办公室] | 204.88 | 45.53 | 99.12 |
|  28169@29[办公室] | 105.68 | 23.49 | 202.66 |
|  28189@29[办公-其它] | 77.89 | 17.31 | 109.34 |
|  第30层 |  |  |  |
|  28022@30[办公室] | 707.12 | 157.14 | 84.66 |
|  28030@30[办公室] | 669.66 | 148.81 | 95.68 |
|  28038@30[办公室] | 661.47 | 146.99 | 54.18 |
|  28109@30[办公室] | 346.85 | 77.08 | 136.39 |
|  28122@30[办公室] | 315.63 | 70.14 | 25.31 |
|  28137@30[办公室] | 297.65 | 66.14 | 107.36 |
|  28138@30[办公室] | 279.32 | 62.07 | 72.14 |
|  28147@30[办公室] | 244.49 | 54.33 | 40.83 |
|  28156@30[办公室] | 204.88 | 45.53 | 99.55 |
|  28169@30[办公室] | 105.68 | 23.49 | 205.55 |
|  28189@30[办公-其它] | 77.89 | 17.31 | 114.52 |
|  第31层 |  |  |  |
|  第32层 |  |  |  |
|  32023@32[办公室] | 707.12 | 157.14 | 47.94 |
|  32031@32[办公室] | 669.66 | 148.81 | 86.85 |
|  32039@32[办公室] | 661.47 | 146.99 | 55.25 |
|  32110@32[办公室] | 346.85 | 77.08 | 92.76 |
|  32121@32[办公室] | 315.63 | 70.14 | 26.81 |
|  32136@32[办公室] | 297.65 | 66.14 | 107.37 |
|  32139@32[办公室] | 279.32 | 62.07 | 73.89 |
|  32146@32[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@32[办公室] | 204.88 | 45.53 | 103.14 |
|  32171@32[办公室] | 105.68 | 23.49 | 204.44 |
|  32190@32[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第33层 |  |  |  |
|  32023@33[办公室] | 707.12 | 157.14 | 47.85 |
|  32031@33[办公室] | 669.66 | 148.81 | 87.27 |
|  32039@33[办公室] | 661.47 | 146.99 | 55.32 |
|  32110@33[办公室] | 346.85 | 77.08 | 93.32 |
|  32121@33[办公室] | 315.63 | 70.14 | 25.06 |
|  32136@33[办公室] | 297.65 | 66.14 | 107.05 |
|  32139@33[办公室] | 279.32 | 62.07 | 74.87 |
|  32146@33[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@33[办公室] | 204.88 | 45.53 | 104.10 |
|  32171@33[办公室] | 105.68 | 23.49 | 206.18 |
|  32190@33[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第34层 |  |  |  |
|  32023@34[办公室] | 707.12 | 157.14 | 47.99 |
|  32031@34[办公室] | 669.66 | 148.81 | 86.31 |
|  32039@34[办公室] | 661.47 | 146.99 | 55.43 |
|  32110@34[办公室] | 346.85 | 77.08 | 93.82 |
|  32121@34[办公室] | 315.63 | 70.14 | 23.85 |
|  32136@34[办公室] | 297.65 | 66.14 | 107.43 |
|  32139@34[办公室] | 279.32 | 62.07 | 75.80 |
|  32146@34[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@34[办公室] | 204.88 | 45.53 | 105.09 |
|  32171@34[办公室] | 105.68 | 23.49 | 206.65 |
|  32190@34[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第35层 |  |  |  |
|  32023@35[办公室] | 707.12 | 157.14 | 49.93 |
|  32031@35[办公室] | 669.66 | 148.81 | 84.05 |
|  32039@35[办公室] | 661.47 | 146.99 | 55.72 |
|  32110@35[办公室] | 346.85 | 77.08 | 94.15 |
|  32121@35[办公室] | 315.63 | 70.14 | 24.09 |
|  32136@35[办公室] | 297.65 | 66.14 | 107.53 |
|  32139@35[办公室] | 279.32 | 62.07 | 77.22 |
|  32146@35[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@35[办公室] | 204.88 | 45.53 | 106.97 |
|  32171@35[办公室] | 105.68 | 23.49 | 206.35 |
|  32190@35[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第36层 |  |  |  |
|  32023@36[办公室] | 707.12 | 157.14 | 48.13 |
|  32031@36[办公室] | 669.66 | 148.81 | 81.58 |
|  32039@36[办公室] | 661.47 | 146.99 | 55.43 |
|  32110@36[办公室] | 346.85 | 77.08 | 94.78 |
|  32121@36[办公室] | 315.63 | 70.14 | 22.08 |
|  32136@36[办公室] | 297.65 | 66.14 | 108.06 |
|  32139@36[办公室] | 279.32 | 62.07 | 77.68 |
|  32146@36[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@36[办公室] | 204.88 | 45.53 | 106.89 |
|  32171@36[办公室] | 105.68 | 23.49 | 208.62 |
|  32190@36[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第37层 |  |  |  |
|  32023@37[办公室] | 707.12 | 157.14 | 50.62 |
|  32031@37[办公室] | 669.66 | 148.81 | 78.26 |
|  32039@37[办公室] | 661.47 | 146.99 | 55.78 |
|  32110@37[办公室] | 346.85 | 77.08 | 94.83 |
|  32121@37[办公室] | 315.63 | 70.14 | 22.58 |
|  32136@37[办公室] | 297.65 | 66.14 | 107.99 |
|  32139@37[办公室] | 279.32 | 62.07 | 79.38 |
|  32146@37[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@37[办公室] | 204.88 | 45.53 | 109.16 |
|  32171@37[办公室] | 105.68 | 23.49 | 209.48 |
|  32190@37[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第38层 |  |  |  |
|  32023@38[办公室] | 707.12 | 157.14 | 49.52 |
|  32031@38[办公室] | 669.66 | 148.81 | 75.55 |
|  32039@38[办公室] | 661.47 | 146.99 | 55.52 |
|  32110@38[办公室] | 346.85 | 77.08 | 95.19 |
|  32121@38[办公室] | 315.63 | 70.14 | 20.80 |
|  32136@38[办公室] | 297.65 | 66.14 | 108.03 |
|  32139@38[办公室] | 279.32 | 62.07 | 79.86 |
|  32146@38[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@38[办公室] | 204.88 | 45.53 | 109.67 |
|  32171@38[办公室] | 105.68 | 23.49 | 211.33 |
|  32190@38[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第39层 |  |  |  |
|  32023@39[办公室] | 707.12 | 157.14 | 49.96 |
|  32031@39[办公室] | 669.66 | 148.81 | 73.49 |
|  32039@39[办公室] | 661.47 | 146.99 | 55.56 |
|  32110@39[办公室] | 346.85 | 77.08 | 95.16 |
|  32121@39[办公室] | 315.63 | 70.14 | 19.22 |
|  32136@39[办公室] | 297.65 | 66.14 | 107.32 |
|  32139@39[办公室] | 279.32 | 62.07 | 80.60 |
|  32146@39[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@39[办公室] | 204.88 | 45.53 | 110.52 |
|  32171@39[办公室] | 105.68 | 23.49 | 211.80 |
|  32190@39[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第40层 |  |  |  |
|  32023@40[办公室] | 707.12 | 157.14 | 51.55 |
|  32031@40[办公室] | 669.66 | 148.81 | 73.01 |
|  32039@40[办公室] | 661.47 | 146.99 | 55.70 |
|  32110@40[办公室] | 346.85 | 77.08 | 94.84 |
|  32121@40[办公室] | 315.63 | 70.14 | 19.02 |
|  32136@40[办公室] | 297.65 | 66.14 | 106.19 |
|  32139@40[办公室] | 279.32 | 62.07 | 81.09 |
|  32146@40[办公室] | 244.49 | 54.33 | 0.00 |
|  32155@40[办公室] | 204.88 | 45.53 | 111.59 |
|  32171@40[办公室] | 105.68 | 23.49 | 210.59 |
|  32190@40[办公-其它] | 77.89 | 17.31 | 0.00 |
|  第41层 |  |  |  |
|  41011[会议室] | 1021.69 | 227.04 | 89.11 |
|  41015[会议室] | 844.00 | 187.55 | 41.06 |
|  41072[办公室] | 416.23 | 92.50 | 29.93 |
|  41118[办公室] | 315.63 | 70.14 | 67.64 |
|  41124[办公室] | 314.22 | 69.83 | 68.66 |
|  41140[办公室] | 262.44 | 58.32 | 23.35 |
|  41144[办公室] | 262.44 | 58.32 | 46.88 |
|  41173[办公室] | 105.68 | 23.49 | 255.77 |
|  41197[办公-其它] | 77.89 | 17.31 | 142.72 |
|  第42层 |  |  |  |
|  42010[房间] | 1021.69 | 227.04 | 103.50 |
|  42016[房间] | 844.00 | 187.55 | 40.98 |
|  42074[房间] | 416.23 | 92.50 | 18.83 |
|  42119[房间] | 315.63 | 70.14 | 67.84 |
|  42125[房间] | 314.22 | 69.83 | 58.24 |
|  42142[房间] | 262.44 | 58.32 | 23.64 |
|  42143[房间] | 262.44 | 58.32 | 46.07 |
|  42172[房间] | 105.68 | 23.49 | 240.39 |
|  42196[办公-其它] | 77.89 | 17.31 | 141.79 |
|  第43层 |  |  |  |
|  43012[房间] | 1021.69 | 227.04 | 37.85 |
|  43017[房间] | 844.00 | 187.55 | 7.66 |
|  43064[房间] | 500.41 | 111.20 | 77.05 |
|  43073[房间] | 416.23 | 92.50 | 42.60 |
|  43102[房间] | 349.09 | 77.57 | 0.00 |
|  43105[房间] | 349.09 | 77.57 | 0.00 |
|  43120[房间] | 315.63 | 70.14 | 37.76 |
|  43123[房间] | 314.22 | 69.83 | 29.53 |
|  43141[房间] | 262.44 | 58.32 | 33.94 |
|  43145[房间] | 262.44 | 58.32 | 33.29 |
|  43170[房间] | 105.68 | 23.49 | 143.11 |
|  43195[办公-其它] | 77.89 | 17.31 | 69.54 |
|  第44层 |  |  |  |
|  第45层 |  |  |  |
|  第46层 |  |  |  |
|  第47层 |  |  |  |

# 结论

该建筑主要功能房间换气次数大于2次**/**h的面积比例为81.84%，按照绿标5.2.10条款要求得6分。