**建筑换气次数**

**计算书**

|  |  |
| --- | --- |
| 工程名称 | 新建项目 |
| 工程地点 | 贵州-贵阳 |
| 设计编号 |  |
| 建设单位 |  |
| 设计单位 | 贵州民族大学 |
| 设 计 人 | 董亚楠 彭志英 杨萍 李雪 潘洪瀑 |
| 审 核 人 |  |
| 审 定 人 |  |
| 设计日期 | 2021年12月22日 |



|  |  |
| --- | --- |
| 采用软件 | 绿建斯维尔建筑通风Vent202020 |
| 软件版本 | 20200606 |
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| 正版授权码 | T18886136138 |

# 建筑概况

|  |  |
| --- | --- |
| 工程名称 |  |
| 工程地点 | 贵阳 |

# 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 | 5900.16 | ㎡ |
| 总面积 | 6128.85 | ㎡ |
| 面积比例RR | 96.27 | % |

| 分类 | 体积(m^3) | 面积(m^2) | 换气次数(次/h) |
| --- | --- | --- | --- |
|  建筑 |  |  |  |
|  第5层 |  |  |  |
|  户:1-C@5 | 1187.77 | 395.92 |  |
|  4001@5[卧室] | 45.04 | 15.01 | 73.46 |
|  4002@5[卧室] | 45.04 | 15.01 | 79.76 |
|  4003@5[卧室] | 55.80 | 18.60 | 49.21 |
|  4004@5[卧室] | 55.80 | 18.60 | 111.21 |
|  4005@5[餐厅] | 48.87 | 16.29 | 172.44 |
|  4007@5[餐厅] | 60.72 | 20.24 | 236.69 |
|  4009@5[卧室] | 37.42 | 12.47 | 109.28 |
|  4010@5[卧室] | 37.42 | 12.47 | 89.03 |
|  4011@5[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@5[卧室] | 32.67 | 10.89 | 175.09 |
|  4015@5[卧室] | 39.54 | 13.18 | 73.14 |
|  4016@5[卧室] | 39.54 | 13.18 | 148.17 |
|  4017@5[厨房] | 18.90 | 6.30 | 81.45 |
|  4018@5[厨房] | 18.90 | 6.30 | 62.70 |
|  4021@5[厨房] | 20.88 | 6.96 | 117.32 |
|  4022@5[过道] | 42.70 | 14.23 | 229.26 |
|  4024@5[厨房] | 20.88 | 6.96 | 155.04 |
|  50011@5[起居室] | 28.08 | 9.36 | 242.59 |
|  5001@5[起居室] | 54.00 | 18.00 | 86.28 |
|  5003@5[餐厅] | 31.00 | 10.33 | 228.13 |
|  5004@5[餐厅] | 27.60 | 9.20 | 445.52 |
|  5006@5[起居室] | 54.00 | 18.00 | 162.15 |
|  5007@5[起居室] | 28.08 | 9.36 | 327.89 |
|  第6层 |  |  |  |
|  户:1-C@6 | 1187.77 | 395.92 |  |
|  4001@6[卧室] | 45.04 | 15.01 | 81.25 |
|  4002@6[卧室] | 45.04 | 15.01 | 79.35 |
|  4003@6[卧室] | 55.80 | 18.60 | 61.74 |
|  4004@6[卧室] | 55.80 | 18.60 | 109.75 |
|  4005@6[餐厅] | 48.87 | 16.29 | 169.33 |
|  4007@6[餐厅] | 60.72 | 20.24 | 230.96 |
|  4009@6[卧室] | 37.42 | 12.47 | 105.56 |
|  4010@6[卧室] | 37.42 | 12.47 | 88.11 |
|  4011@6[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@6[卧室] | 32.67 | 10.89 | 174.92 |
|  4015@6[卧室] | 39.54 | 13.18 | 92.94 |
|  4016@6[卧室] | 39.54 | 13.18 | 146.93 |
|  4017@6[厨房] | 18.90 | 6.30 | 78.36 |
|  4018@6[厨房] | 18.90 | 6.30 | 61.93 |
|  4021@6[厨房] | 20.88 | 6.96 | 125.32 |
|  4022@6[过道] | 42.70 | 14.23 | 209.58 |
|  4024@6[厨房] | 20.88 | 6.96 | 152.26 |
|  50011@6[起居室] | 28.08 | 9.36 | 238.61 |
|  5001@6[起居室] | 54.00 | 18.00 | 46.23 |
|  5003@6[餐厅] | 31.00 | 10.33 | 225.05 |
|  5004@6[餐厅] | 27.60 | 9.20 | 441.25 |
|  5006@6[起居室] | 54.00 | 18.00 | 160.95 |
|  5007@6[起居室] | 28.08 | 9.36 | 305.02 |
|  第7层 |  |  |  |
|  户:1-C@7 | 1187.77 | 395.92 |  |
|  4001@7[卧室] | 45.04 | 15.01 | 82.53 |
|  4002@7[卧室] | 45.04 | 15.01 | 81.64 |
|  4003@7[卧室] | 55.80 | 18.60 | 69.20 |
|  4004@7[卧室] | 55.80 | 18.60 | 113.61 |
|  4005@7[餐厅] | 48.87 | 16.29 | 167.05 |
|  4007@7[餐厅] | 60.72 | 20.24 | 227.80 |
|  4009@7[卧室] | 37.42 | 12.47 | 103.82 |
|  4010@7[卧室] | 37.42 | 12.47 | 92.61 |
|  4011@7[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@7[卧室] | 32.67 | 10.89 | 181.84 |
|  4015@7[卧室] | 39.54 | 13.18 | 103.80 |
|  4016@7[卧室] | 39.54 | 13.18 | 155.09 |
|  4017@7[厨房] | 18.90 | 6.30 | 76.86 |
|  4018@7[厨房] | 18.90 | 6.30 | 65.65 |
|  4021@7[厨房] | 20.88 | 6.96 | 124.23 |
|  4022@7[过道] | 42.70 | 14.23 | 204.71 |
|  4024@7[厨房] | 20.88 | 6.96 | 153.30 |
|  50011@7[起居室] | 28.08 | 9.36 | 249.15 |
|  5001@7[起居室] | 54.00 | 18.00 | 26.43 |
|  5003@7[餐厅] | 31.00 | 10.33 | 232.48 |
|  5004@7[餐厅] | 27.60 | 9.20 | 466.32 |
|  5006@7[起居室] | 54.00 | 18.00 | 171.28 |
|  5007@7[起居室] | 28.08 | 9.36 | 296.69 |
|  第8层 |  |  |  |
|  户:1-C@8 | 1187.77 | 395.92 |  |
|  4001@8[卧室] | 45.04 | 15.01 | 89.29 |
|  4002@8[卧室] | 45.04 | 15.01 | 89.48 |
|  4003@8[卧室] | 55.80 | 18.60 | 77.04 |
|  4004@8[卧室] | 55.80 | 18.60 | 128.93 |
|  4005@8[餐厅] | 48.87 | 16.29 | 173.17 |
|  4007@8[餐厅] | 60.72 | 20.24 | 229.03 |
|  4009@8[卧室] | 37.42 | 12.47 | 109.14 |
|  4010@8[卧室] | 37.42 | 12.47 | 103.85 |
|  4011@8[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@8[卧室] | 32.67 | 10.89 | 184.91 |
|  4015@8[卧室] | 39.54 | 13.18 | 103.43 |
|  4016@8[卧室] | 39.54 | 13.18 | 169.91 |
|  4017@8[厨房] | 18.90 | 6.30 | 81.24 |
|  4018@8[厨房] | 18.90 | 6.30 | 74.45 |
|  4021@8[厨房] | 20.88 | 6.96 | 122.12 |
|  4022@8[过道] | 42.70 | 14.23 | 225.57 |
|  4024@8[厨房] | 20.88 | 6.96 | 165.44 |
|  50011@8[起居室] | 28.08 | 9.36 | 291.12 |
|  5001@8[起居室] | 54.00 | 18.00 | 21.23 |
|  5003@8[餐厅] | 31.00 | 10.33 | 268.32 |
|  5004@8[餐厅] | 27.60 | 9.20 | 517.77 |
|  5006@8[起居室] | 54.00 | 18.00 | 193.53 |
|  5007@8[起居室] | 28.08 | 9.36 | 303.58 |
|  第9层 |  |  |  |
|  户:1-C@9 | 1187.77 | 395.92 |  |
|  4001@9[卧室] | 45.04 | 15.01 | 95.13 |
|  4002@9[卧室] | 45.04 | 15.01 | 91.97 |
|  4003@9[卧室] | 55.80 | 18.60 | 77.90 |
|  4004@9[卧室] | 55.80 | 18.60 | 135.01 |
|  4005@9[餐厅] | 48.87 | 16.29 | 177.45 |
|  4007@9[餐厅] | 60.72 | 20.24 | 232.92 |
|  4009@9[卧室] | 37.42 | 12.47 | 110.57 |
|  4010@9[卧室] | 37.42 | 12.47 | 109.62 |
|  4011@9[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@9[卧室] | 32.67 | 10.89 | 197.93 |
|  4015@9[卧室] | 39.54 | 13.18 | 98.40 |
|  4016@9[卧室] | 39.54 | 13.18 | 183.07 |
|  4017@9[厨房] | 18.90 | 6.30 | 82.42 |
|  4018@9[厨房] | 18.90 | 6.30 | 79.26 |
|  4021@9[厨房] | 20.88 | 6.96 | 117.18 |
|  4022@9[过道] | 42.70 | 14.23 | 220.79 |
|  4024@9[厨房] | 20.88 | 6.96 | 177.75 |
|  50011@9[起居室] | 28.08 | 9.36 | 304.32 |
|  5001@9[起居室] | 54.00 | 18.00 | 31.71 |
|  5003@9[餐厅] | 31.00 | 10.33 | 276.93 |
|  5004@9[餐厅] | 27.60 | 9.20 | 562.80 |
|  5006@9[起居室] | 54.00 | 18.00 | 215.31 |
|  5007@9[起居室] | 28.08 | 9.36 | 303.57 |
|  第10层 |  |  |  |
|  户:1-C@10 | 1187.77 | 395.92 |  |
|  4001@10[卧室] | 45.04 | 15.01 | 99.58 |
|  4002@10[卧室] | 45.04 | 15.01 | 100.54 |
|  4003@10[卧室] | 55.80 | 18.60 | 77.24 |
|  4004@10[卧室] | 55.80 | 18.60 | 147.70 |
|  4005@10[餐厅] | 48.87 | 16.29 | 190.93 |
|  4007@10[餐厅] | 60.72 | 20.24 | 237.47 |
|  4009@10[卧室] | 37.42 | 12.47 | 116.21 |
|  4010@10[卧室] | 37.42 | 12.47 | 119.58 |
|  4011@10[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@10[卧室] | 32.67 | 10.89 | 204.97 |
|  4015@10[卧室] | 39.54 | 13.18 | 90.15 |
|  4016@10[卧室] | 39.54 | 13.18 | 189.46 |
|  4017@10[厨房] | 18.90 | 6.30 | 86.83 |
|  4018@10[厨房] | 18.90 | 6.30 | 87.26 |
|  4021@10[厨房] | 20.88 | 6.96 | 111.68 |
|  4022@10[过道] | 42.70 | 14.23 | 212.06 |
|  4024@10[厨房] | 20.88 | 6.96 | 208.26 |
|  50011@10[起居室] | 28.08 | 9.36 | 333.58 |
|  5001@10[起居室] | 54.00 | 18.00 | 47.30 |
|  5003@10[餐厅] | 31.00 | 10.33 | 303.87 |
|  5004@10[餐厅] | 27.60 | 9.20 | 602.10 |
|  5006@10[起居室] | 54.00 | 18.00 | 224.46 |
|  5007@10[起居室] | 28.08 | 9.36 | 327.40 |
|  第11层 |  |  |  |
|  户:1-C@11 | 1187.77 | 395.92 |  |
|  4001@11[卧室] | 45.04 | 15.01 | 106.07 |
|  4002@11[卧室] | 45.04 | 15.01 | 102.82 |
|  4003@11[卧室] | 55.80 | 18.60 | 73.75 |
|  4004@11[卧室] | 55.80 | 18.60 | 146.27 |
|  4005@11[餐厅] | 48.87 | 16.29 | 194.33 |
|  4007@11[餐厅] | 60.72 | 20.24 | 241.19 |
|  4009@11[卧室] | 37.42 | 12.47 | 117.91 |
|  4010@11[卧室] | 37.42 | 12.47 | 127.03 |
|  4011@11[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@11[卧室] | 32.67 | 10.89 | 204.62 |
|  4015@11[卧室] | 39.54 | 13.18 | 81.87 |
|  4016@11[卧室] | 39.54 | 13.18 | 198.84 |
|  4017@11[厨房] | 18.90 | 6.30 | 88.56 |
|  4018@11[厨房] | 18.90 | 6.30 | 93.35 |
|  4021@11[厨房] | 20.88 | 6.96 | 106.90 |
|  4022@11[过道] | 42.70 | 14.23 | 213.63 |
|  4024@11[厨房] | 20.88 | 6.96 | 221.98 |
|  50011@11[起居室] | 28.08 | 9.36 | 361.89 |
|  5001@11[起居室] | 54.00 | 18.00 | 64.51 |
|  5003@11[餐厅] | 31.00 | 10.33 | 323.82 |
|  5004@11[餐厅] | 27.60 | 9.20 | 637.58 |
|  5006@11[起居室] | 54.00 | 18.00 | 253.79 |
|  5007@11[起居室] | 28.08 | 9.36 | 325.18 |
|  第12层 |  |  |  |
|  户:1-C@12 | 1187.77 | 395.92 |  |
|  4001@12[卧室] | 45.04 | 15.01 | 110.88 |
|  4002@12[卧室] | 45.04 | 15.01 | 113.25 |
|  4003@12[卧室] | 55.80 | 18.60 | 67.74 |
|  4004@12[卧室] | 55.80 | 18.60 | 147.33 |
|  4005@12[餐厅] | 48.87 | 16.29 | 205.40 |
|  4007@12[餐厅] | 60.72 | 20.24 | 244.43 |
|  4009@12[卧室] | 37.42 | 12.47 | 124.19 |
|  4010@12[卧室] | 37.42 | 12.47 | 133.70 |
|  4011@12[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@12[卧室] | 32.67 | 10.89 | 205.23 |
|  4015@12[卧室] | 39.54 | 13.18 | 71.17 |
|  4016@12[卧室] | 39.54 | 13.18 | 199.71 |
|  4017@12[厨房] | 18.90 | 6.30 | 93.57 |
|  4018@12[厨房] | 18.90 | 6.30 | 98.10 |
|  4021@12[厨房] | 20.88 | 6.96 | 103.22 |
|  4022@12[过道] | 42.70 | 14.23 | 221.20 |
|  4024@12[厨房] | 20.88 | 6.96 | 225.35 |
|  50011@12[起居室] | 28.08 | 9.36 | 382.89 |
|  5001@12[起居室] | 54.00 | 18.00 | 84.69 |
|  5003@12[餐厅] | 31.00 | 10.33 | 349.94 |
|  5004@12[餐厅] | 27.60 | 9.20 | 642.45 |
|  5006@12[起居室] | 54.00 | 18.00 | 255.94 |
|  5007@12[起居室] | 28.08 | 9.36 | 345.10 |
|  第13层 |  |  |  |
|  户:1-C@13 | 1187.77 | 395.92 |  |
|  4001@13[卧室] | 45.04 | 15.01 | 113.63 |
|  4002@13[卧室] | 45.04 | 15.01 | 110.32 |
|  4003@13[卧室] | 55.80 | 18.60 | 64.23 |
|  4004@13[卧室] | 55.80 | 18.60 | 143.40 |
|  4005@13[餐厅] | 48.87 | 16.29 | 203.95 |
|  4007@13[餐厅] | 60.72 | 20.24 | 244.98 |
|  4009@13[卧室] | 37.42 | 12.47 | 126.52 |
|  4010@13[卧室] | 37.42 | 12.47 | 140.07 |
|  4011@13[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@13[卧室] | 32.67 | 10.89 | 198.12 |
|  4015@13[卧室] | 39.54 | 13.18 | 72.70 |
|  4016@13[卧室] | 39.54 | 13.18 | 206.35 |
|  4017@13[厨房] | 18.90 | 6.30 | 95.73 |
|  4018@13[厨房] | 18.90 | 6.30 | 103.78 |
|  4021@13[厨房] | 20.88 | 6.96 | 102.53 |
|  4022@13[过道] | 42.70 | 14.23 | 247.24 |
|  4024@13[厨房] | 20.88 | 6.96 | 205.72 |
|  50011@13[起居室] | 28.08 | 9.36 | 405.82 |
|  5001@13[起居室] | 54.00 | 18.00 | 91.81 |
|  5003@13[餐厅] | 31.00 | 10.33 | 358.76 |
|  5004@13[餐厅] | 27.60 | 9.20 | 644.00 |
|  5006@13[起居室] | 54.00 | 18.00 | 271.62 |
|  5007@13[起居室] | 28.08 | 9.36 | 341.27 |
|  第14层 |  |  |  |
|  户:1-C@14 | 1187.77 | 395.92 |  |
|  4001@14[卧室] | 45.04 | 15.01 | 117.43 |
|  4002@14[卧室] | 45.04 | 15.01 | 114.51 |
|  4003@14[卧室] | 55.80 | 18.60 | 61.37 |
|  4004@14[卧室] | 55.80 | 18.60 | 144.54 |
|  4005@14[餐厅] | 48.87 | 16.29 | 211.82 |
|  4007@14[餐厅] | 60.72 | 20.24 | 243.09 |
|  4009@14[卧室] | 37.42 | 12.47 | 131.07 |
|  4010@14[卧室] | 37.42 | 12.47 | 144.56 |
|  4011@14[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@14[卧室] | 32.67 | 10.89 | 200.70 |
|  4015@14[卧室] | 39.54 | 13.18 | 76.76 |
|  4016@14[卧室] | 39.54 | 13.18 | 201.33 |
|  4017@14[厨房] | 18.90 | 6.30 | 99.34 |
|  4018@14[厨房] | 18.90 | 6.30 | 106.91 |
|  4021@14[厨房] | 20.88 | 6.96 | 106.27 |
|  4022@14[过道] | 42.70 | 14.23 | 252.37 |
|  4024@14[厨房] | 20.88 | 6.96 | 232.66 |
|  50011@14[起居室] | 28.08 | 9.36 | 428.85 |
|  5001@14[起居室] | 54.00 | 18.00 | 88.54 |
|  5003@14[餐厅] | 31.00 | 10.33 | 380.30 |
|  5004@14[餐厅] | 27.60 | 9.20 | 652.44 |
|  5006@14[起居室] | 54.00 | 18.00 | 268.49 |
|  5007@14[起居室] | 28.08 | 9.36 | 354.94 |
|  第15层 |  |  |  |
|  户:1-C@15 | 1187.77 | 395.92 |  |
|  4001@15[卧室] | 45.04 | 15.01 | 117.50 |
|  4002@15[卧室] | 45.04 | 15.01 | 114.48 |
|  4003@15[卧室] | 55.80 | 18.60 | 55.86 |
|  4004@15[卧室] | 55.80 | 18.60 | 143.25 |
|  4005@15[餐厅] | 48.87 | 16.29 | 208.42 |
|  4007@15[餐厅] | 60.72 | 20.24 | 244.26 |
|  4009@15[卧室] | 37.42 | 12.47 | 129.13 |
|  4010@15[卧室] | 37.42 | 12.47 | 142.79 |
|  4011@15[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@15[卧室] | 32.67 | 10.89 | 197.75 |
|  4015@15[卧室] | 39.54 | 13.18 | 79.62 |
|  4016@15[卧室] | 39.54 | 13.18 | 203.18 |
|  4017@15[厨房] | 18.90 | 6.30 | 97.96 |
|  4018@15[厨房] | 18.90 | 6.30 | 105.98 |
|  4021@15[厨房] | 20.88 | 6.96 | 106.98 |
|  4022@15[过道] | 42.70 | 14.23 | 249.83 |
|  4024@15[厨房] | 20.88 | 6.96 | 205.30 |
|  50011@15[起居室] | 28.08 | 9.36 | 410.48 |
|  5001@15[起居室] | 54.00 | 18.00 | 99.92 |
|  5003@15[餐厅] | 31.00 | 10.33 | 365.76 |
|  5004@15[餐厅] | 27.60 | 9.20 | 634.98 |
|  5006@15[起居室] | 54.00 | 18.00 | 264.22 |
|  5007@15[起居室] | 28.08 | 9.36 | 346.32 |
|  第16层 |  |  |  |
|  户:1-C@16 | 1187.77 | 395.92 |  |
|  4001@16[卧室] | 45.04 | 15.01 | 110.10 |
|  4002@16[卧室] | 45.04 | 15.01 | 112.70 |
|  4003@16[卧室] | 55.80 | 18.60 | 56.13 |
|  4004@16[卧室] | 55.80 | 18.60 | 150.01 |
|  4005@16[餐厅] | 48.87 | 16.29 | 200.79 |
|  4007@16[餐厅] | 60.72 | 20.24 | 240.74 |
|  4009@16[卧室] | 37.42 | 12.47 | 124.72 |
|  4010@16[卧室] | 37.42 | 12.47 | 136.68 |
|  4011@16[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@16[卧室] | 32.67 | 10.89 | 205.16 |
|  4015@16[卧室] | 39.54 | 13.18 | 84.77 |
|  4016@16[卧室] | 39.54 | 13.18 | 200.39 |
|  4017@16[厨房] | 18.90 | 6.30 | 94.45 |
|  4018@16[厨房] | 18.90 | 6.30 | 100.82 |
|  4021@16[厨房] | 20.88 | 6.96 | 115.90 |
|  4022@16[过道] | 42.70 | 14.23 | 244.96 |
|  4024@16[厨房] | 20.88 | 6.96 | 204.31 |
|  50011@16[起居室] | 28.08 | 9.36 | 397.95 |
|  5001@16[起居室] | 54.00 | 18.00 | 85.83 |
|  5003@16[餐厅] | 31.00 | 10.33 | 359.19 |
|  5004@16[餐厅] | 27.60 | 9.20 | 627.39 |
|  5006@16[起居室] | 54.00 | 18.00 | 246.01 |
|  5007@16[起居室] | 28.08 | 9.36 | 339.03 |
|  第17层 |  |  |  |
|  户:1-C@17 | 1187.77 | 395.92 |  |
|  4001@17[卧室] | 45.04 | 15.01 | 112.36 |
|  4002@17[卧室] | 45.04 | 15.01 | 109.48 |
|  4003@17[卧室] | 55.80 | 18.60 | 57.17 |
|  4004@17[卧室] | 55.80 | 18.60 | 152.29 |
|  4005@17[餐厅] | 48.87 | 16.29 | 195.75 |
|  4007@17[餐厅] | 60.72 | 20.24 | 239.82 |
|  4009@17[卧室] | 37.42 | 12.47 | 122.09 |
|  4010@17[卧室] | 37.42 | 12.47 | 134.57 |
|  4011@17[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@17[卧室] | 32.67 | 10.89 | 207.37 |
|  4015@17[卧室] | 39.54 | 13.18 | 87.45 |
|  4016@17[卧室] | 39.54 | 13.18 | 198.12 |
|  4017@17[厨房] | 18.90 | 6.30 | 92.24 |
|  4018@17[厨房] | 18.90 | 6.30 | 99.36 |
|  4021@17[厨房] | 20.88 | 6.96 | 118.85 |
|  4022@17[过道] | 42.70 | 14.23 | 240.10 |
|  4024@17[厨房] | 20.88 | 6.96 | 203.12 |
|  50011@17[起居室] | 28.08 | 9.36 | 382.18 |
|  5001@17[起居室] | 54.00 | 18.00 | 79.37 |
|  5003@17[餐厅] | 31.00 | 10.33 | 342.77 |
|  5004@17[餐厅] | 27.60 | 9.20 | 620.77 |
|  5006@17[起居室] | 54.00 | 18.00 | 236.59 |
|  5007@17[起居室] | 28.08 | 9.36 | 323.14 |
|  第18层 |  |  |  |
|  户:1-C@18 | 1187.77 | 395.92 |  |
|  4001@18[卧室] | 45.04 | 15.01 | 106.75 |
|  4002@18[卧室] | 45.04 | 15.01 | 110.60 |
|  4003@18[卧室] | 55.80 | 18.60 | 130.74 |
|  4004@18[卧室] | 55.80 | 18.60 | 148.38 |
|  4005@18[餐厅] | 48.87 | 16.29 | 193.84 |
|  4007@18[餐厅] | 60.72 | 20.24 | 342.40 |
|  4009@18[卧室] | 37.42 | 12.47 | 121.03 |
|  4010@18[卧室] | 37.42 | 12.47 | 135.38 |
|  4011@18[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@18[卧室] | 32.67 | 10.89 | 208.14 |
|  4015@18[卧室] | 39.54 | 13.18 | 174.64 |
|  4016@18[卧室] | 39.54 | 13.18 | 191.89 |
|  4017@18[厨房] | 18.90 | 6.30 | 91.60 |
|  4018@18[厨房] | 18.90 | 6.30 | 99.88 |
|  4021@18[厨房] | 20.88 | 6.96 | 182.75 |
|  4022@18[过道] | 42.70 | 14.23 | 239.33 |
|  4024@18[厨房] | 20.88 | 6.96 | 237.26 |
|  50011@18[起居室] | 28.08 | 9.36 | 383.77 |
|  5001@18[起居室] | 54.00 | 18.00 | 195.98 |
|  5003@18[餐厅] | 31.00 | 10.33 | 344.88 |
|  5004@18[餐厅] | 27.60 | 9.20 | 636.25 |
|  5006@18[起居室] | 54.00 | 18.00 | 243.00 |
|  5007@18[起居室] | 28.08 | 9.36 | 327.41 |
|  第19层 |  |  |  |
|  户:1-C@19 | 1187.77 | 395.92 |  |
|  4001@19[卧室] | 45.04 | 15.01 | 109.11 |
|  4002@19[卧室] | 45.04 | 15.01 | 110.45 |
|  4003@19[卧室] | 55.80 | 18.60 | 89.52 |
|  4004@19[卧室] | 55.80 | 18.60 | 190.76 |
|  4005@19[餐厅] | 48.87 | 16.29 | 197.81 |
|  4007@19[餐厅] | 60.72 | 20.24 | 243.06 |
|  4009@19[卧室] | 37.42 | 12.47 | 119.85 |
|  4010@19[卧室] | 37.42 | 12.47 | 136.67 |
|  4011@19[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@19[卧室] | 32.67 | 10.89 | 269.56 |
|  4015@19[卧室] | 39.54 | 13.18 | 83.86 |
|  4016@19[卧室] | 39.54 | 13.18 | 85.61 |
|  4017@19[厨房] | 18.90 | 6.30 | 88.80 |
|  4018@19[厨房] | 18.90 | 6.30 | 99.92 |
|  4021@19[厨房] | 20.88 | 6.96 | 117.46 |
|  4022@19[过道] | 42.70 | 14.23 | 212.89 |
|  4024@19[厨房] | 20.88 | 6.96 | 192.61 |
|  50011@19[起居室] | 28.08 | 9.36 | 388.04 |
|  5001@19[起居室] | 54.00 | 18.00 | 65.59 |
|  5003@19[餐厅] | 31.00 | 10.33 | 346.96 |
|  5004@19[餐厅] | 27.60 | 9.20 | 323.89 |
|  5006@19[起居室] | 54.00 | 18.00 | 99.55 |
|  5007@19[起居室] | 28.08 | 9.36 | 328.96 |
|  第20层 |  |  |  |
|  户:1-C@20 | 1187.77 | 395.92 |  |
|  4001@20[卧室] | 45.04 | 15.01 | 108.39 |
|  4002@20[卧室] | 45.04 | 15.01 | 108.73 |
|  4003@20[卧室] | 55.80 | 18.60 | 137.69 |
|  4004@20[卧室] | 55.80 | 18.60 | 147.54 |
|  4005@20[餐厅] | 48.87 | 16.29 | 194.82 |
|  4007@20[餐厅] | 60.72 | 20.24 | 349.39 |
|  4009@20[卧室] | 37.42 | 12.47 | 122.77 |
|  4010@20[卧室] | 37.42 | 12.47 | 133.52 |
|  4011@20[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@20[卧室] | 32.67 | 10.89 | 208.52 |
|  4015@20[卧室] | 39.54 | 13.18 | 176.33 |
|  4016@20[卧室] | 39.54 | 13.18 | 190.26 |
|  4017@20[厨房] | 18.90 | 6.30 | 89.82 |
|  4018@20[厨房] | 18.90 | 6.30 | 96.81 |
|  4021@20[厨房] | 20.88 | 6.96 | 182.97 |
|  4022@20[过道] | 42.70 | 14.23 | 241.51 |
|  4024@20[厨房] | 20.88 | 6.96 | 253.88 |
|  50011@20[起居室] | 28.08 | 9.36 | 391.68 |
|  5001@20[起居室] | 54.00 | 18.00 | 199.99 |
|  5003@20[餐厅] | 31.00 | 10.33 | 351.56 |
|  5004@20[餐厅] | 27.60 | 9.20 | 655.33 |
|  5006@20[起居室] | 54.00 | 18.00 | 255.04 |
|  5007@20[起居室] | 28.08 | 9.36 | 328.80 |
|  第21层 |  |  |  |
|  户:1-C@21 | 1187.77 | 395.92 |  |
|  4001@21[卧室] | 45.04 | 15.01 | 111.44 |
|  4002@21[卧室] | 45.04 | 15.01 | 109.18 |
|  4003@21[卧室] | 55.80 | 18.60 | 67.35 |
|  4004@21[卧室] | 55.80 | 18.60 | 149.21 |
|  4005@21[餐厅] | 48.87 | 16.29 | 198.15 |
|  4007@21[餐厅] | 60.72 | 20.24 | 252.44 |
|  4009@21[卧室] | 37.42 | 12.47 | 124.57 |
|  4010@21[卧室] | 37.42 | 12.47 | 135.41 |
|  4011@21[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@21[卧室] | 32.67 | 10.89 | 210.22 |
|  4015@21[卧室] | 39.54 | 13.18 | 73.23 |
|  4016@21[卧室] | 39.54 | 13.18 | 198.46 |
|  4017@21[厨房] | 18.90 | 6.30 | 89.78 |
|  4018@21[厨房] | 18.90 | 6.30 | 95.43 |
|  4021@21[厨房] | 20.88 | 6.96 | 103.07 |
|  4022@21[过道] | 42.70 | 14.23 | 245.49 |
|  4024@21[厨房] | 20.88 | 6.96 | 229.42 |
|  50011@21[起居室] | 28.08 | 9.36 | 381.76 |
|  5001@21[起居室] | 54.00 | 18.00 | 100.98 |
|  5003@21[餐厅] | 31.00 | 10.33 | 340.95 |
|  5004@21[餐厅] | 27.60 | 9.20 | 641.10 |
|  5006@21[起居室] | 54.00 | 18.00 | 252.62 |
|  5007@21[起居室] | 28.08 | 9.36 | 332.11 |
|  第22层 |  |  |  |
|  户:1-C@22 | 1187.77 | 395.92 |  |
|  4001@22[卧室] | 45.04 | 15.01 | 117.80 |
|  4002@22[卧室] | 45.04 | 15.01 | 117.40 |
|  4003@22[卧室] | 55.80 | 18.60 | 60.43 |
|  4004@22[卧室] | 55.80 | 18.60 | 156.43 |
|  4005@22[餐厅] | 48.87 | 16.29 | 208.12 |
|  4007@22[餐厅] | 60.72 | 20.24 | 257.02 |
|  4009@22[卧室] | 37.42 | 12.47 | 126.44 |
|  4010@22[卧室] | 37.42 | 12.47 | 139.02 |
|  4011@22[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@22[卧室] | 32.67 | 10.89 | 219.50 |
|  4015@22[卧室] | 39.54 | 13.18 | 72.10 |
|  4016@22[卧室] | 39.54 | 13.18 | 190.37 |
|  4017@22[厨房] | 18.90 | 6.30 | 92.82 |
|  4018@22[厨房] | 18.90 | 6.30 | 96.22 |
|  4021@22[厨房] | 20.88 | 6.96 | 95.39 |
|  4022@22[过道] | 42.70 | 14.23 | 215.81 |
|  4024@22[厨房] | 20.88 | 6.96 | 285.80 |
|  50011@22[起居室] | 28.08 | 9.36 | 389.06 |
|  5001@22[起居室] | 54.00 | 18.00 | 129.69 |
|  5003@22[餐厅] | 31.00 | 10.33 | 355.15 |
|  5004@22[餐厅] | 27.60 | 9.20 | 695.64 |
|  5006@22[起居室] | 54.00 | 18.00 | 268.08 |
|  5007@22[起居室] | 28.08 | 9.36 | 341.74 |
|  第23层 |  |  |  |
|  户:1-C@23 | 1187.77 | 395.92 |  |
|  4001@23[卧室] | 45.04 | 15.01 | 114.05 |
|  4002@23[卧室] | 45.04 | 15.01 | 116.61 |
|  4003@23[卧室] | 55.80 | 18.60 | 51.06 |
|  4004@23[卧室] | 55.80 | 18.60 | 160.08 |
|  4005@23[餐厅] | 48.87 | 16.29 | 205.18 |
|  4007@23[餐厅] | 60.72 | 20.24 | 259.80 |
|  4009@23[卧室] | 37.42 | 12.47 | 126.44 |
|  4010@23[卧室] | 37.42 | 12.47 | 143.82 |
|  4011@23[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@23[卧室] | 32.67 | 10.89 | 218.56 |
|  4015@23[卧室] | 39.54 | 13.18 | 78.03 |
|  4016@23[卧室] | 39.54 | 13.18 | 213.63 |
|  4017@23[厨房] | 18.90 | 6.30 | 87.87 |
|  4018@23[厨房] | 18.90 | 6.30 | 100.03 |
|  4021@23[厨房] | 20.88 | 6.96 | 89.34 |
|  4022@23[过道] | 42.70 | 14.23 | 204.62 |
|  4024@23[厨房] | 20.88 | 6.96 | 270.23 |
|  50011@23[起居室] | 28.08 | 9.36 | 404.38 |
|  5001@23[起居室] | 54.00 | 18.00 | 150.78 |
|  5003@23[餐厅] | 31.00 | 10.33 | 362.09 |
|  5004@23[餐厅] | 27.60 | 9.20 | 702.09 |
|  5006@23[起居室] | 54.00 | 18.00 | 289.54 |
|  5007@23[起居室] | 28.08 | 9.36 | 342.64 |
|  第24层 |  |  |  |
|  户:1-C@24 | 1187.77 | 395.92 |  |
|  4001@24[卧室] | 45.04 | 15.01 | 101.21 |
|  4002@24[卧室] | 45.04 | 15.01 | 101.06 |
|  4003@24[卧室] | 55.80 | 18.60 | 48.99 |
|  4004@24[卧室] | 55.80 | 18.60 | 153.57 |
|  4005@24[餐厅] | 48.87 | 16.29 | 183.77 |
|  4007@24[餐厅] | 60.72 | 20.24 | 259.47 |
|  4009@24[卧室] | 37.42 | 12.47 | 100.60 |
|  4010@24[卧室] | 37.42 | 12.47 | 125.83 |
|  4011@24[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@24[卧室] | 32.67 | 10.89 | 212.37 |
|  4015@24[卧室] | 39.54 | 13.18 | 70.33 |
|  4016@24[卧室] | 39.54 | 13.18 | 187.47 |
|  4017@24[厨房] | 18.90 | 6.30 | 69.62 |
|  4018@24[厨房] | 18.90 | 6.30 | 87.42 |
|  4021@24[厨房] | 20.88 | 6.96 | 91.32 |
|  4022@24[过道] | 42.70 | 14.23 | 255.57 |
|  4024@24[厨房] | 20.88 | 6.96 | 262.54 |
|  50011@24[起居室] | 28.08 | 9.36 | 371.00 |
|  5001@24[起居室] | 54.00 | 18.00 | 159.19 |
|  5003@24[餐厅] | 31.00 | 10.33 | 330.97 |
|  5004@24[餐厅] | 27.60 | 9.20 | 709.32 |
|  5006@24[起居室] | 54.00 | 18.00 | 285.63 |
|  5007@24[起居室] | 28.08 | 9.36 | 291.55 |
|  第25层 |  |  |  |
|  户:1-C@25 | 1187.77 | 395.92 |  |
|  4001@25[卧室] | 45.04 | 15.01 | 42.96 |
|  4002@25[卧室] | 45.04 | 15.01 | 52.38 |
|  4003@25[卧室] | 55.80 | 18.60 | 48.41 |
|  4004@25[卧室] | 55.80 | 18.60 | 128.34 |
|  4005@25[餐厅] | 48.87 | 16.29 | 113.83 |
|  4007@25[餐厅] | 60.72 | 20.24 | 259.27 |
|  4009@25[卧室] | 37.42 | 12.47 | 83.05 |
|  4010@25[卧室] | 37.42 | 12.47 | 69.28 |
|  4011@25[卧室] | 32.67 | 10.89 | 0.00 |
|  4012@25[卧室] | 32.67 | 10.89 | 175.05 |
|  4015@25[卧室] | 39.54 | 13.18 | 66.31 |
|  4016@25[卧室] | 39.54 | 13.18 | 189.09 |
|  4017@25[厨房] | 18.90 | 6.30 | 38.86 |
|  4018@25[厨房] | 18.90 | 6.30 | 15.43 |
|  4021@25[厨房] | 20.88 | 6.96 | 91.85 |
|  4022@25[过道] | 42.70 | 14.23 | 275.25 |
|  4024@25[厨房] | 20.88 | 6.96 | 186.46 |
|  50011@25[起居室] | 28.08 | 9.36 | 225.58 |
|  5001@25[起居室] | 54.00 | 18.00 | 152.10 |
|  5003@25[餐厅] | 31.00 | 10.33 | 216.60 |
|  5004@25[餐厅] | 27.60 | 9.20 | 726.34 |
|  5006@25[起居室] | 54.00 | 18.00 | 221.57 |
|  5007@25[起居室] | 28.08 | 9.36 | 70.79 |
|  第26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96.27%，按照绿标5.2.10条款要求得7分。