**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 |
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| 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 |
| 研发单位 | 北京绿建软件股份有限公司 |
| 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：

——房间体积流量（/s）

∆P——相邻房间之间门窗的风压差；

——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（）

——空气密度 （）

通过上述方法获取一个房间的体积流量之后，即可进行房间换气次数的计算：

——房间体积流量（/s）

——换气次数（次/h）；

——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 | 3602.99 | ㎡ |
| 总面积 | 3602.99 | ㎡ |
| 面积比例RR | 100.00 | % |

| 分类 | 体积 (m^3) | 面积 (m^2) | 换气次数 (次/h) |
| --- | --- | --- | --- |
| 建筑 |  |  |  |
| 第5层 |  |  |  |
| 户:1-B@5 | 1031.17 | 343.72 |  |
| 5001@5[卧室] | 57.56 | 19.18 | 130.11 |
| 5002@5[卧室] | 59.70 | 19.90 | 43.08 |
| 5003@5[卧室] | 59.70 | 19.90 | 171.79 |
| 5005@5[卧室] | 36.72 | 12.24 | 60.93 |
| 5006@5[餐厅] | 45.63 | 15.21 | 63.22 |
| 5007@5[餐厅] | 50.31 | 16.77 | 154.18 |
| 5011@5[卧室] | 38.85 | 12.95 | 41.75 |
| 5013@5[厨房] | 25.92 | 8.64 | 11.76 |
| 5014@5[厨房] | 25.92 | 8.64 | 125.78 |
| 5022@5[卧室] | 42.18 | 14.06 | 11.69 |
| 5023@5[卧室] | 38.67 | 12.89 | 92.02 |
| 5026@5[卧室] | 38.67 | 12.89 | 87.30 |
| 5027@5[卧室] | 42.18 | 14.06 | 181.52 |
| 5030@5[起居室] | 39.96 | 13.32 | 2.44 |
| 5031@5[起居室] | 35.45 | 11.82 | 81.37 |
| 5032@5[起居室] | 35.45 | 11.82 | 218.81 |
| 5033@5[厨房] | 17.63 | 5.88 | 62.29 |
| 5036@5[餐厅] | 30.10 | 10.03 | 57.00 |
| 第6层 |  |  |  |
| 户:1-B@6 | 1031.17 | 343.72 |  |
| 5001@6[卧室] | 57.56 | 19.18 | 131.44 |
| 5002@6[卧室] | 59.70 | 19.90 | 34.58 |
| 5003@6[卧室] | 59.70 | 19.90 | 170.61 |
| 5005@6[卧室] | 36.72 | 12.24 | 41.25 |
| 5006@6[餐厅] | 45.63 | 15.21 | 38.05 |
| 5007@6[餐厅] | 50.31 | 16.77 | 150.02 |
| 5011@6[卧室] | 38.85 | 12.95 | 30.89 |
| 5013@6[厨房] | 25.92 | 8.64 | 17.09 |
| 5014@6[厨房] | 25.92 | 8.64 | 125.93 |
| 5022@6[卧室] | 42.18 | 14.06 | 35.85 |
| 5023@6[卧室] | 38.67 | 12.89 | 95.02 |
| 5026@6[卧室] | 38.67 | 12.89 | 88.54 |
| 5027@6[卧室] | 42.18 | 14.06 | 181.83 |
| 5030@6[起居室] | 39.96 | 13.32 | 36.64 |
| 5031@6[起居室] | 35.45 | 11.82 | 13.77 |
| 5032@6[起居室] | 35.45 | 11.82 | 209.92 |
| 5033@6[厨房] | 17.63 | 5.88 | 46.38 |
| 5036@6[餐厅] | 30.10 | 10.03 | 27.15 |
| 第7层 |  |  |  |
| 户:1-B@7 | 1031.17 | 343.72 |  |
| 5001@7[卧室] | 57.56 | 19.18 | 135.71 |
| 5002@7[卧室] | 59.70 | 19.90 | 35.47 |
| 5003@7[卧室] | 59.70 | 19.90 | 175.54 |
| 5005@7[卧室] | 36.72 | 12.24 | 41.72 |
| 5006@7[餐厅] | 45.63 | 15.21 | 30.01 |
| 5007@7[餐厅] | 50.31 | 16.77 | 162.16 |
| 5011@7[卧室] | 38.85 | 12.95 | 29.31 |
| 5013@7[厨房] | 25.92 | 8.64 | 21.85 |
| 5014@7[厨房] | 25.92 | 8.64 | 129.11 |
| 5022@7[卧室] | 42.18 | 14.06 | 42.39 |
| 5023@7[卧室] | 38.67 | 12.89 | 98.30 |
| 5026@7[卧室] | 38.67 | 12.89 | 81.01 |
| 5027@7[卧室] | 42.18 | 14.06 | 185.07 |
| 5030@7[起居室] | 39.96 | 13.32 | 113.77 |
| 5031@7[起居室] | 35.45 | 11.82 | 38.57 |
| 5032@7[起居室] | 35.45 | 11.82 | 230.13 |
| 5033@7[厨房] | 17.63 | 5.88 | 42.05 |
| 5036@7[餐厅] | 30.10 | 10.03 | 94.14 |
| 第8层 |  |  |  |
| 户:1-B@8 | 1031.17 | 343.72 |  |
| 5001@8[卧室] | 57.56 | 19.18 | 137.48 |
| 5002@8[卧室] | 59.70 | 19.90 | 38.74 |
| 5003@8[卧室] | 59.70 | 19.90 | 179.87 |
| 5005@8[卧室] | 36.72 | 12.24 | 73.02 |
| 5006@8[餐厅] | 45.63 | 15.21 | 45.12 |
| 5007@8[餐厅] | 50.31 | 16.77 | 173.85 |
| 5011@8[卧室] | 38.85 | 12.95 | 43.95 |
| 5013@8[厨房] | 25.92 | 8.64 | 14.79 |
| 5014@8[厨房] | 25.92 | 8.64 | 131.35 |
| 5022@8[卧室] | 42.18 | 14.06 | 35.13 |
| 5023@8[卧室] | 38.67 | 12.89 | 99.86 |
| 5026@8[卧室] | 38.67 | 12.89 | 78.22 |
| 5027@8[卧室] | 42.18 | 14.06 | 188.10 |
| 5030@8[起居室] | 39.96 | 13.32 | 139.81 |
| 5031@8[起居室] | 35.45 | 11.82 | 58.07 |
| 5032@8[起居室] | 35.45 | 11.82 | 246.71 |
| 5033@8[厨房] | 17.63 | 5.88 | 63.64 |
| 5036@8[餐厅] | 30.10 | 10.03 | 133.73 |
| 第9层 |  |  |  |
| 户:1-B@9 | 1031.17 | 343.72 |  |
| 5001@9[卧室] | 57.56 | 19.18 | 138.83 |
| 5002@9[卧室] | 59.70 | 19.90 | 30.46 |
| 5003@9[卧室] | 59.70 | 19.90 | 181.00 |
| 5005@9[卧室] | 36.72 | 12.24 | 77.92 |
| 5006@9[餐厅] | 45.63 | 15.21 | 73.21 |
| 5007@9[餐厅] | 50.31 | 16.77 | 178.01 |
| 5011@9[卧室] | 38.85 | 12.95 | 48.32 |
| 5013@9[厨房] | 25.92 | 8.64 | 13.90 |
| 5014@9[厨房] | 25.92 | 8.64 | 132.27 |
| 5022@9[卧室] | 42.18 | 14.06 | 15.61 |
| 5023@9[卧室] | 38.67 | 12.89 | 100.17 |
| 5026@9[卧室] | 38.67 | 12.89 | 79.20 |
| 5027@9[卧室] | 42.18 | 14.06 | 189.66 |
| 5030@9[起居室] | 39.96 | 13.32 | 148.89 |
| 5031@9[起居室] | 35.45 | 11.82 | 66.08 |
| 5032@9[起居室] | 35.45 | 11.82 | 252.63 |
| 5033@9[厨房] | 17.63 | 5.88 | 69.97 |
| 5036@9[餐厅] | 30.10 | 10.03 | 146.47 |
| 第10层 |  |  |  |
| 户:1-B@10 | 1031.17 | 343.72 |  |
| 5001@10[卧室] | 57.56 | 19.18 | 137.66 |
| 5002@10[卧室] | 59.70 | 19.90 | 29.42 |
| 5003@10[卧室] | 59.70 | 19.90 | 181.77 |
| 5005@10[卧室] | 36.72 | 12.24 | 80.56 |
| 5006@10[餐厅] | 45.63 | 15.21 | 76.94 |
| 5007@10[餐厅] | 50.31 | 16.77 | 178.90 |
| 5011@10[卧室] | 38.85 | 12.95 | 47.78 |
| 5013@10[厨房] | 25.92 | 8.64 | 6.57 |
| 5014@10[厨房] | 25.92 | 8.64 | 132.55 |
| 5022@10[卧室] | 42.18 | 14.06 | 15.19 |
| 5023@10[卧室] | 38.67 | 12.89 | 100.55 |
| 5026@10[卧室] | 38.67 | 12.89 | 79.80 |
| 5027@10[卧室] | 42.18 | 14.06 | 189.86 |
| 5030@10[起居室] | 39.96 | 13.32 | 150.76 |
| 5031@10[起居室] | 35.45 | 11.82 | 68.13 |
| 5032@10[起居室] | 35.45 | 11.82 | 253.88 |
| 5033@10[厨房] | 17.63 | 5.88 | 69.22 |
| 5036@10[餐厅] | 30.10 | 10.03 | 145.09 |
| 第11层 |  |  |  |
| 户:1-B@11 | 1031.17 | 343.72 |  |
| 5001@11[卧室] | 57.56 | 19.18 | 137.36 |
| 5002@11[卧室] | 59.70 | 19.90 | 25.60 |
| 5003@11[卧室] | 59.70 | 19.90 | 181.25 |
| 5005@11[卧室] | 36.72 | 12.24 | 79.20 |
| 5006@11[餐厅] | 45.63 | 15.21 | 77.44 |
| 5007@11[餐厅] | 50.31 | 16.77 | 177.01 |
| 5011@11[卧室] | 38.85 | 12.95 | 46.77 |
| 5013@11[厨房] | 25.92 | 8.64 | 10.74 |
| 5014@11[厨房] | 25.92 | 8.64 | 132.43 |
| 5022@11[卧室] | 42.18 | 14.06 | 14.37 |
| 5023@11[卧室] | 38.67 | 12.89 | 100.68 |
| 5026@11[卧室] | 38.67 | 12.89 | 80.76 |
| 5027@11[卧室] | 42.18 | 14.06 | 190.19 |
| 5030@11[起居室] | 39.96 | 13.32 | 150.13 |
| 5031@11[起居室] | 35.45 | 11.82 | 71.86 |
| 5032@11[起居室] | 35.45 | 11.82 | 251.20 |
| 5033@11[厨房] | 17.63 | 5.88 | 68.03 |
| 5036@11[餐厅] | 30.10 | 10.03 | 142.86 |
| 第12层 |  |  |  |
| 户:1-B@12 | 1031.17 | 343.72 |  |
| 5001@12[卧室] | 57.56 | 19.18 | 137.07 |
| 5002@12[卧室] | 59.70 | 19.90 | 30.43 |
| 5003@12[卧室] | 59.70 | 19.90 | 180.77 |
| 5005@12[卧室] | 36.72 | 12.24 | 78.37 |
| 5006@12[餐厅] | 45.63 | 15.21 | 92.58 |
| 5007@12[餐厅] | 50.31 | 16.77 | 175.92 |
| 5011@12[卧室] | 38.85 | 12.95 | 44.93 |
| 5013@12[厨房] | 25.92 | 8.64 | 18.91 |
| 5014@12[厨房] | 25.92 | 8.64 | 132.25 |
| 5022@12[卧室] | 42.18 | 14.06 | 6.74 |
| 5023@12[卧室] | 38.67 | 12.89 | 100.45 |
| 5026@12[卧室] | 38.67 | 12.89 | 80.85 |
| 5027@12[卧室] | 42.18 | 14.06 | 189.43 |
| 5030@12[起居室] | 39.96 | 13.32 | 143.76 |
| 5031@12[起居室] | 35.45 | 11.82 | 84.16 |
| 5032@12[起居室] | 35.45 | 11.82 | 249.66 |
| 5033@12[厨房] | 17.63 | 5.88 | 65.11 |
| 5036@12[餐厅] | 30.10 | 10.03 | 136.57 |
| 第13层 |  |  |  |
| 户:1-B@13 | 1031.17 | 343.72 |  |
| 5001@13[卧室] | 57.56 | 19.18 | 137.07 |
| 5002@13[卧室] | 59.70 | 19.90 | 35.30 |
| 5003@13[卧室] | 59.70 | 19.90 | 181.61 |
| 5005@13[卧室] | 36.72 | 12.24 | 76.25 |
| 5006@13[餐厅] | 45.63 | 15.21 | 106.48 |
| 5007@13[餐厅] | 50.31 | 16.77 | 173.83 |
| 5011@13[卧室] | 38.85 | 12.95 | 44.69 |
| 5013@13[厨房] | 25.92 | 8.64 | 23.86 |
| 5014@13[厨房] | 25.92 | 8.64 | 133.07 |
| 5022@13[卧室] | 42.18 | 14.06 | 25.87 |
| 5023@13[卧室] | 38.67 | 12.89 | 100.15 |
| 5026@13[卧室] | 38.67 | 12.89 | 85.31 |
| 5027@13[卧室] | 42.18 | 14.06 | 192.76 |
| 5030@13[起居室] | 39.96 | 13.32 | 144.87 |
| 5031@13[起居室] | 35.45 | 11.82 | 93.36 |
| 5032@13[起居室] | 35.45 | 11.82 | 246.69 |
| 5033@13[厨房] | 17.63 | 5.88 | 65.07 |
| 5036@13[餐厅] | 30.10 | 10.03 | 135.08 |
| 第14层 |  |  |  |
| 户:1-B@14 | 1031.17 | 343.72 |  |
| 5001@14[卧室] | 57.56 | 19.18 | 137.74 |
| 5002@14[卧室] | 59.70 | 19.90 | 41.62 |
| 5003@14[卧室] | 59.70 | 19.90 | 182.87 |
| 5005@14[卧室] | 36.72 | 12.24 | 73.86 |
| 5006@14[餐厅] | 45.63 | 15.21 | 120.60 |
| 5007@14[餐厅] | 50.31 | 16.77 | 175.09 |
| 5011@14[卧室] | 38.85 | 12.95 | 44.81 |
| 5013@14[厨房] | 25.92 | 8.64 | 29.38 |
| 5014@14[厨房] | 25.92 | 8.64 | 133.71 |
| 5022@14[卧室] | 42.18 | 14.06 | 44.91 |
| 5023@14[卧室] | 38.67 | 12.89 | 99.76 |
| 5026@14[卧室] | 38.67 | 12.89 | 87.87 |
| 5027@14[卧室] | 42.18 | 14.06 | 192.14 |
| 5030@14[起居室] | 39.96 | 13.32 | 143.93 |
| 5031@14[起居室] | 35.45 | 11.82 | 107.84 |
| 5032@14[起居室] | 35.45 | 11.82 | 248.47 |
| 5033@14[厨房] | 17.63 | 5.88 | 64.70 |
| 5036@14[餐厅] | 30.10 | 10.03 | 133.15 |
| 第15层 |  |  |  |
| 户:1-B@15 | 1031.17 | 343.72 |  |
| 5001@15[卧室] | 57.56 | 19.18 | 139.02 |
| 5002@15[卧室] | 59.70 | 19.90 | 43.07 |
| 5003@15[卧室] | 59.70 | 19.90 | 183.32 |
| 5005@15[卧室] | 36.72 | 12.24 | 73.87 |
| 5006@15[餐厅] | 45.63 | 15.21 | 135.75 |
| 5007@15[餐厅] | 50.31 | 16.77 | 177.99 |
| 5011@15[卧室] | 38.85 | 12.95 | 47.18 |
| 5013@15[厨房] | 25.92 | 8.64 | 37.13 |
| 5014@15[厨房] | 25.92 | 8.64 | 134.07 |
| 5022@15[卧室] | 42.18 | 14.06 | 53.76 |
| 5023@15[卧室] | 38.67 | 12.89 | 99.88 |
| 5026@15[卧室] | 38.67 | 12.89 | 83.78 |
| 5027@15[卧室] | 42.18 | 14.06 | 192.67 |
| 5030@15[起居室] | 39.96 | 13.32 | 147.54 |
| 5031@15[起居室] | 35.45 | 11.82 | 128.40 |
| 5032@15[起居室] | 35.45 | 11.82 | 252.59 |
| 5033@15[厨房] | 17.63 | 5.88 | 68.19 |
| 5036@15[餐厅] | 30.10 | 10.03 | 137.67 |
| 第16层 |  |  |  |
| 户:1-B@16 | 1031.17 | 343.72 |  |
| 5001@16[卧室] | 57.56 | 19.18 | 142.99 |
| 5002@16[卧室] | 59.70 | 19.90 | 39.94 |
| 5003@16[卧室] | 59.70 | 19.90 | 185.51 |
| 5005@16[卧室] | 36.72 | 12.24 | 83.74 |
| 5006@16[餐厅] | 45.63 | 15.21 | 145.50 |
| 5007@16[餐厅] | 50.31 | 16.77 | 187.04 |
| 5011@16[卧室] | 38.85 | 12.95 | 54.78 |
| 5013@16[厨房] | 25.92 | 8.64 | 43.42 |
| 5014@16[厨房] | 25.92 | 8.64 | 135.41 |
| 5022@16[卧室] | 42.18 | 14.06 | 63.23 |
| 5023@16[卧室] | 38.67 | 12.89 | 100.07 |
| 5026@16[卧室] | 38.67 | 12.89 | 79.39 |
| 5027@16[卧室] | 42.18 | 14.06 | 193.53 |
| 5030@16[起居室] | 39.96 | 13.32 | 150.89 |
| 5031@16[起居室] | 35.45 | 11.82 | 151.96 |
| 5032@16[起居室] | 35.45 | 11.82 | 265.43 |
| 5033@16[厨房] | 17.63 | 5.88 | 80.53 |
| 5036@16[餐厅] | 30.10 | 10.03 | 156.88 |
| 第17层 |  |  |  |
| 户:1-B@17 | 1031.17 | 343.72 |  |
| 5001@17[卧室] | 57.56 | 19.18 | 144.30 |
| 5002@17[卧室] | 59.70 | 19.90 | 44.23 |
| 5003@17[卧室] | 59.70 | 19.90 | 187.43 |
| 5005@17[卧室] | 36.72 | 12.24 | 91.41 |
| 5006@17[餐厅] | 45.63 | 15.21 | 156.83 |
| 5007@17[餐厅] | 50.31 | 16.77 | 196.90 |
| 5011@17[卧室] | 38.85 | 12.95 | 64.03 |
| 5013@17[厨房] | 25.92 | 8.64 | 49.24 |
| 5014@17[厨房] | 25.92 | 8.64 | 136.54 |
| 5022@17[卧室] | 42.18 | 14.06 | 61.43 |
| 5023@17[卧室] | 38.67 | 12.89 | 99.71 |
| 5026@17[卧室] | 38.67 | 12.89 | 76.93 |
| 5027@17[卧室] | 42.18 | 14.06 | 193.49 |
| 5030@17[起居室] | 39.96 | 13.32 | 173.42 |
| 5031@17[起居室] | 35.45 | 11.82 | 161.62 |
| 5032@17[起居室] | 35.45 | 11.82 | 279.43 |
| 5033@17[厨房] | 17.63 | 5.88 | 94.13 |
| 5036@17[餐厅] | 30.10 | 10.03 | 177.81 |
| 第18层 |  |  |  |
| 户:1-B@18 | 1031.17 | 343.72 |  |
| 5001@18[卧室] | 57.56 | 19.18 | 156.04 |
| 5002@18[卧室] | 59.70 | 19.90 | 84.27 |
| 5003@18[卧室] | 59.70 | 19.90 | 185.50 |
| 5005@18[卧室] | 36.72 | 12.24 | 145.66 |
| 5006@18[餐厅] | 45.63 | 15.21 | 250.70 |
| 5007@18[餐厅] | 50.31 | 16.77 | 210.20 |
| 5011@18[卧室] | 38.85 | 12.95 | 43.38 |
| 5013@18[厨房] | 25.92 | 8.64 | 45.94 |
| 5014@18[厨房] | 25.92 | 8.64 | 133.07 |
| 5022@18[卧室] | 42.18 | 14.06 | 63.89 |
| 5023@18[卧室] | 38.67 | 12.89 | 89.37 |
| 5026@18[卧室] | 38.67 | 12.89 | 73.83 |
| 5027@18[卧室] | 42.18 | 14.06 | 190.40 |
| 5030@18[起居室] | 39.96 | 13.32 | 300.06 |
| 5031@18[起居室] | 35.45 | 11.82 | 322.68 |
| 5032@18[起居室] | 35.45 | 11.82 | 298.31 |
| 5033@18[厨房] | 17.63 | 5.88 | 66.01 |
| 5036@18[餐厅] | 30.10 | 10.03 | 113.55 |
| 第19层 |  |  |  |
| 户:1-B@19 | 1031.17 | 343.72 |  |
| 5001@19[卧室] | 57.56 | 19.18 | 147.86 |
| 5002@19[卧室] | 59.70 | 19.90 | 59.01 |
| 5003@19[卧室] | 59.70 | 19.90 | 191.24 |
| 5005@19[卧室] | 36.72 | 12.24 | 74.99 |
| 5006@19[餐厅] | 45.63 | 15.21 | 167.18 |
| 5007@19[餐厅] | 50.31 | 16.77 | 216.56 |
| 5011@19[卧室] | 38.85 | 12.95 | 95.07 |
| 5013@19[厨房] | 25.92 | 8.64 | 46.51 |
| 5014@19[厨房] | 25.92 | 8.64 | 135.13 |
| 5022@19[卧室] | 42.18 | 14.06 | 49.79 |
| 5023@19[卧室] | 38.67 | 12.89 | 94.88 |
| 5026@19[卧室] | 38.67 | 12.89 | 58.19 |
| 5027@19[卧室] | 42.18 | 14.06 | 186.71 |
| 5030@19[起居室] | 39.96 | 13.32 | 224.01 |
| 5031@19[起居室] | 35.45 | 11.82 | 207.39 |
| 5032@19[起居室] | 35.45 | 11.82 | 307.32 |
| 5033@19[厨房] | 17.63 | 5.88 | 101.98 |
| 5036@19[餐厅] | 30.10 | 10.03 | 197.75 |
| 第20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100.00%，按照绿标5.2.10条款要求得8分。