**绿色建筑降碳措施报告书**

公共建筑

|  |  |
| --- | --- |
| 工程名称 | 浙江美丽乡村学院 |
| 工程地点 | 浙江-衢州 |
| 设计编号 | 001 |
| 建设单位 |  |
| 设计单位 |  |
| 设 计 人 |  |
| 审 核 人 |  |
| 审 定 人 |  |
| 设计日期 | 2024年12月20日 |



|  |  |
| --- | --- |
| 采用软件 | 建筑碳排放CEEB2024 |
| 软件版本 | 20240430(SP1) |
| 研发单位 | 北京绿建软件股份有限公司 |
| 正版授权码 | T19557011517 |

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# 建筑概况

|  |  |  |
| --- | --- | --- |
| 工程名称 | 浙江美丽乡村学院 | |
| 工程地点 | 浙江-衢州 | |
| 地理位置 | 北纬：29.00° | 东经：118.90° |
| 建筑寿命(年) | 50 | |
| 建筑面积(m2) | 地上1480 地下0 | |
| 建筑层数 | 地上3 地下0 | |
| 建筑高度（m） | 地上14.2 地下0.0 | |
| 建筑体积(m3) | 6549.05 | |
| 建筑外表面积(m2) | 2027.20 | |
| 北向角度 | 90 | |
| 结构类型 | 砖混结构 | |
| 外墙太阳辐射吸收系数 | 0.75 | |
| 屋顶太阳辐射吸收系数 | 0.75 | |
| 控温期 | 供冷期:6.14-8.31,供暖期:12.30-2.28 | |

# 标准依据

1. 《绿色建筑评价标准》GB/T50378-2019

2. 《建筑碳排放计算标准》GB/T 51366-2019

3. 《建筑节能与可再生能源利用通用规范》GB55015-2021

4. 《民用建筑绿色性能计算标准》JGJ/T 449-2018

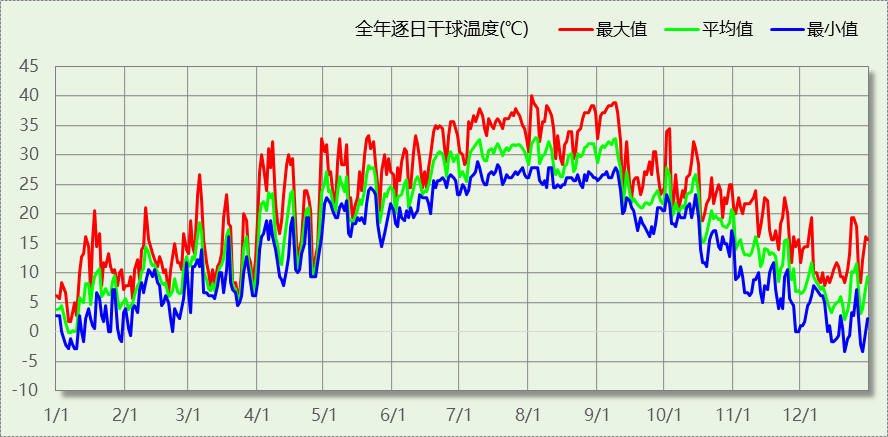
5. 《公共建筑节能设计标准》GB50189-2015

# 软件介绍

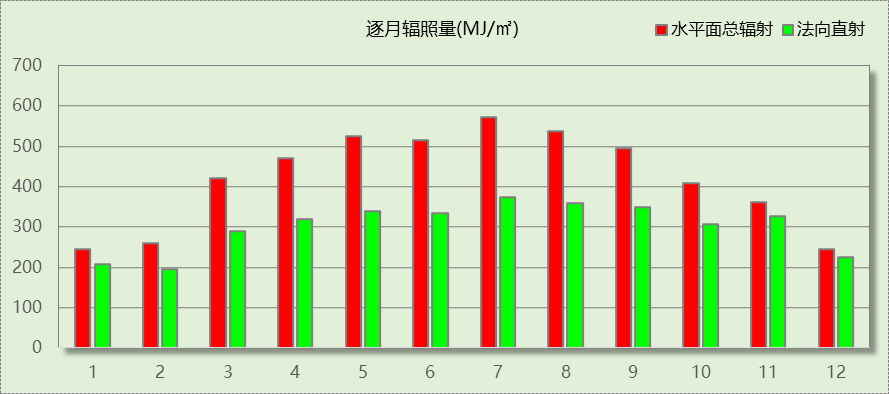
本报告内容由建筑碳排放CEEB2024计算并输出，建筑碳排放CEEB以CAD为平台，与建筑节能模型无缝对接，支持《绿色建筑评价标准》GB/T50378-2019第9.2.7条设计建筑采取相应措施后减碳量的对比计算（其中参照建筑参数满足国家和行业节能标准规定值）。

# 气象数据

## 逐日干球温度表



## 逐月辐照量表



## 峰值工况

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 气象数据 | 时刻 | 干球温度(℃) | 湿球温度(℃) | 含湿量(g/kg) | 焓值(kj/kg) |
| 最热 | 08月01日14时 | 40.0 | 26.7 | 17.1 | 84.2 |
| 最冷 | 12月20日05时 | -3.3 | -4.4 | 2.2 | 2.1 |

# 围护结构

## 工程材料

### 普通材料

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称 | 导热系数λ | 蓄热系数S | 密度ρ | 比热容Cp | 蒸汽渗透 系数u | 数据来源 |
| W/(m.K) | W/(㎡.K) | kg/m3 | J/(kg.K) | g/(m.h.kPa) |
| 水泥砂浆 | 0.930 | 11.370 | 1800.0 | 1050.0 | 0.0210 | 民用建筑热工设计规范 GB50176-2016 |
| 石灰砂浆 | 0.810 | 10.070 | 1600.0 | 1050.0 | 0.0443 | 民用建筑热工设计规范 GB50176-2016 |
| 钢筋混凝土 | 1.740 | 17.200 | 2500.0 | 920.0 | 0.0158 | 民用建筑热工设计规范 GB50176-2016 |
| 烧结普通砖砌块 | 0.810 | 10.630 | 1800.0 | 1060.0 | 0.0000 | 浙江居住建筑节能设计标准 DB33/1015-2021 |
| 防水卷材(沥青油毡、油毡纸) | 0.170 | 3.302 | 600.0 | 1470.0 | 0.0014 | 安徽公共建筑节能设计标准 DB34 T753-2007 |
| 纸面石膏板 | 0.330 | 5.280 | 1050.0 | 1100.0 | 0.0000 | 浙江省居住建筑楼板构造(2018浙J76) |
| 钢丝网架聚苯板 | 0.039 | 0.313 | 25.0 | 1380.0 | 0.0162 | 内蒙古公共建筑节能标准 DBJ03-27-2017 |
| 天然花岗岩板材 | 3.490 | 25.569 | 2800.0 | 920.0 | 0.0113 | 民用建筑热工设计规范 GB50176-2016 |
| 聚合物水泥砂浆 | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0100 | DB23-T120-2001 |
| 挤塑聚苯板（XPS）(屋面楼板) | 0.030 | 0.320 | 35.0 | 1340.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 挤塑聚苯板（XPS）(墙体) | 0.030 | 0.340 | 35.0 | 1510.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 水泥砂浆挂瓦 | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0080 |  |
| 沥青混凝土 | 1.050 | 16.390 | 2100.0 | 1680.0 | 0.0075 | 安徽省居住建筑节能设计标准 DB34/1466-2019 |
| 铝塑复合板 | 0.450 | 6.886 | 1380.0 | 1050.0 | 0.0000 | 四川省居住建筑节能设计标准 GB51/5027-2019 |

### 其他材料

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 材料名称 | 厚度 | 热阻R | 太阳辐射吸收系数 | 备注 |
| mm | (㎡K)/W |
| 胶黏剂 | － | － | － |  |
| 涂料饰面(忽略保温性能) | 0.0 | 0.000 | － |  |

## 围护结构作法简要说明

**1. 屋顶：**坡屋顶 (K=0.205,D=4.450)：（由上到下）

水泥砂浆挂瓦 20mm＋水泥砂浆 20mm＋钢丝网架聚苯板 50mm＋防水卷材(沥青油毡、油毡纸) 2mm＋沥青混凝土 20mm＋挤塑聚苯板（XPS）(屋面楼板) 130mm＋防水卷材(沥青油毡、油毡纸) 20mm＋钢筋混凝土 120mm＋石灰砂浆 20mm

**2. 外墙：**砌体墙 (K=0.362,D=3.559)：（由外到内）

水泥砂浆 20mm＋挤塑聚苯板（XPS）(墙体) 80mm＋水泥砂浆 20mm＋钢筋混凝土 200mm＋石灰砂浆 15mm

**3. 外窗：**铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) (K=2.000)：

传热系数2.000W/㎡.K，窗太阳得热系数0.370

**4. 幕墙：**铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) (K=2.000)：

传热系数2.000W/㎡.K，窗太阳得热系数0.370

**5. 天窗：**65系列平开隔热铝合金窗(5+12Ar+5Low\_E)(高透光) (K=2.100)：

传热系数2.100W/㎡.K，窗太阳得热系数0.390

# 围护结构概况

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | 设计建筑 | | | 参照建筑 | | |
| 天窗屋顶比 | | | 0.07 | | | 0.07 | | |
| 屋顶传热系数K  和热惰性指标 D | | | K=0.21  D=4.45 | | | K=0.50  D=－－ | | |
| 外墙传热系数K  和热惰性指标 D | | | K=0.40  D=3.56 | | | K=0.80  D=－－ | | |
| 挑空楼板传热系数K  和热惰性指标 D | | | K=－  D=－ | | | K=－  D=－ | | |
| 天窗传热系数K  和太阳得热系数 SHGC | | | K=2.10  SHGC=0.11 | | | K=2.60  SHGC=0.30 | | |
| 外窗（包括透明幕墙） | 朝向 | 立面 | 窗墙比 | 传热  系数 | 太阳得热系数 | 窗墙比 | 传热  系数 | 太阳得热系数 |
| 南向 | 南-默认立面 | 0.24 | 2.00 | 0.23 | 0.24 | 3.00 | 0.44 |
| 北向 | 北-默认立面 | 0.29 | 2.00 | 0.31 | 0.29 | 3.00 | 0.48 |
| 东向 | 东-默认立面 | 0.27 | 2.00 | 0.26 | 0.27 | 3.00 | 0.44 |
| 西向 | 西-默认立面 | 0.07 | 2.00 | 0.21 | 0.07 | 3.50 | －－ |
| 室内参数和气象条件设置 | | | 按《公共建筑节能设计标准》附录B设置 | | | | | |

备注：

1. 传热系数的单位W/(m2.k)，其他参数无量纲.

2. 屋顶和外墙的传热系数K和热情性指标D指平均值.

3. 设计建筑：“—”代表本工程无对应项.

4. 参照建筑：“— —”代表参照建筑不要求，取值同设计建筑.

# 设计建筑

## 房间类型

### 房间参数表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 空调 温度℃ | 供暖 温度℃ | 新风量 | 渗透风 换气次数 | 人员密度 | 照明功率 密度 | 电器设备 功率 |
| 卫生间 | 28 | 16 | 0(m3/h.人) | 0(次/h) | 0(人) | 2(W/㎡) | 5(W/㎡) |
| 多媒体教室 | 26 | 18 | 20(m3/h.人) | 0(次/h) | 4(㎡/人) | 2(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 6(㎡/人) | 0(W/㎡) | 5(W/㎡) |
| 普通教室 | 26 | 18 | 24(m3/h.人) | 0(次/h) | 1.39(㎡/人) | 0(W/㎡) | 5(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 5(W/㎡) |
| 空房间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(W/㎡) |
| 舞蹈教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 4(㎡/人) | 2(W/㎡) | 5(W/㎡) |
| 设备间 | － | － | 0(次/h) | 0(次/h) | 0(人) | 0(W/㎡) | 15(W/㎡) |
| 走廊 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 5(W/㎡) | 5(W/㎡) |

### 作息时间表

详见附录

## 采暖空调

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类别 | 负荷 (kWh/a) | 系统综合 性能系数 | 耗电 (kWh/a) | 碳排放因子 (kgCO2/kWh) | 碳排放量 (tCO2/a) |
| 供冷 | 49159 | 3.5 | 14045 | 0.5703 | 8.010 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类别 | 负荷 (kWh/a) | 系统综合 性能系数 | 耗电 (kWh/a) | 碳排放因子 (kgCO2/kWh) | 碳排放量 (tCO2/a) |
| 供暖 | 15238 | 2.6 | 5861 | 0.5703 | 3.342 |

## 照明

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 单位面积电耗 (kWh/㎡.a) | 房间个数 | 房间合计面积 (㎡) | 合计电耗 (kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 卫生间 | 4.14 | 6 | 43 | 178 | 0.5703 | 0.102 |
| 多媒体教室 | 4.14 | 1 | 130 | 536 | 0.306 |
| 普通办公室 | 0.00 | 2 | 62 | 0 | 0.000 |
| 普通教室 | 0.00 | 4 | 563 | 0 | 0.000 |
| 楼梯间 | 0.00 | 6 | 136 | 0 | 0.000 |
| 空房间 | 0.00 | 1 | 25 | 0 | 0.000 |
| 舞蹈教室 | 4.14 | 1 | 74 | 307 | 0.175 |
| 设备间 | 0.00 | 1 | 128 | 0 | 0.000 |
| 走廊 | 10.35 | 4 | 264 | 2731 | 1.557 |
| 总计 | | | | | | 2.140 |

## 生活热水

### 热水需求

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 分区 | 用水定额 (L/人·d) | 热水温差(℃) | 用水人数 | 年使用天数 | 所需热量 (kWh/a) |
| 办公 | 10 | 45 | 4 | 365 | 751 |
| 总计 | | | | | 751 |

### 太阳能集热

|  |  |  |  |
| --- | --- | --- | --- |
| 年集热量(MJ) | 年均集热效率 | 热量损失率 | 太阳能提供热量(kWh/a) |
| 20376.7 | 0.4 | 0.25 | 1698.06 |

### 热水设备

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 能源 | 效率 | 耗电量(kWh/a) |
| 电加热 | 1 | 0 | 电 | 0.9 | 0 |
| 备注 | 热水设备承担的供热量=(总需求热量－太阳能供热量)×设备供热比例。 耗电量=供热量÷效率。 | | | | |

## 光伏发电

|  |  |  |  |
| --- | --- | --- | --- |
| 月 | 发电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 可减少碳排放量(tCO2/a) |
| 1 | 5070 | 0.5703 | 2.89142 |
| 2 | 5090 | 2.90283 |
| 3 | 7310 | 4.16889 |
| 4 | 8460 | 4.82474 |
| 5 | 9410 | 5.36652 |
| 6 | 8840 | 5.04145 |
| 7 | 11100 | 6.33033 |
| 8 | 9990 | 5.6973 |
| 9 | 9280 | 5.29238 |
| 10 | 7190 | 4.10046 |
| 11 | 6030 | 3.43891 |
| 12 | 4360 | 2.48651 |
| 总计 | | | 52.542 |

# 参照建筑

## 房间类型

### 房间参数表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 空调 温度℃ | 供暖 温度℃ | 新风量 | 渗透风 换气次数 | 人员密度 | 照明功率 密度 | 电器设备 功率 |
| 卫生间 | 28 | 16 | 0(m3/h.人) | 0(次/h) | 0(人) | 6(W/㎡) | 5(W/㎡) |
| 多媒体教室 | 26 | 18 | 20(m3/h.人) | 0(次/h) | 4(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 6(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 普通教室 | 26 | 18 | 24(m3/h.人) | 0(次/h) | 1.39(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 5(W/㎡) | 5(W/㎡) |
| 空房间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(W/㎡) |
| 舞蹈教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 4(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 设备间 | － | － | 0(次/h) | 0(次/h) | 0(人) | 6(W/㎡) | 15(W/㎡) |
| 走廊 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 5(W/㎡) | 5(W/㎡) |

### 作息时间表

同设计建筑

## 采暖空调

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类别 | 负荷 (kWh/a) | 系统综合 性能系数 | 耗电 (kWh/a) | 碳排放因子 (kgCO2/kWh) | 碳排放量 (tCO2/a) |
| 供冷 | 54264 | 2.5 | 21706 | 0.5703 | 12.379 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类别 | 燃料 | 负荷 (kWh/a) | 系统综合 效率 | 碳排放因子 (kgCO2/TJ) | 碳排放量 (tCO2/a) |
| 供暖 | 燃气 | 16728 | 0.85 | 55.54 | 3.935 |

## 照明

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 单位面积电耗 (kWh/㎡.a) | 房间个数 | 房间合计面积 (㎡) | 合计电耗 (kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 卫生间 | 12.42 | 6 | 43 | 535 | 0.5703 | 0.305 |
| 多媒体教室 | 18.63 | 1 | 130 | 2412 | 1.376 |
| 普通办公室 | 18.63 | 2 | 62 | 1145 | 0.653 |
| 普通教室 | 18.63 | 4 | 563 | 10491 | 5.983 |
| 楼梯间 | 10.35 | 6 | 136 | 1409 | 0.804 |
| 空房间 | 0.00 | 1 | 25 | 0 | 0.000 |
| 舞蹈教室 | 18.63 | 1 | 74 | 1384 | 0.789 |
| 设备间 | 31.54 | 1 | 128 | 4042 | 2.305 |
| 走廊 | 10.35 | 4 | 264 | 2731 | 1.557 |
| 总计 | | | | | | 13.773 |

## 生活热水

### 热水需求

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 分区 | 用水定额 (L/人·d) | 热水温差(℃) | 用水人数 | 年使用天数 | 所需热量 (kWh/a) |
| 办公 | 10 | 45 | 4 | 365 | 751 |
| 总计 | | | | | 751 |

### 热水设备

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 能源 | 效率 | 耗气量(m3/a) |
| 锅炉 | 1 | 751 | 天然气 | 0.9 | 84.559 |
| 备注 | 热水设备承担的供热量=(总需求热量－太阳能供热量)×设备供热比例。 锅炉实际供热量=供热量÷效率；耗气量=实际供热量÷天然气热值(9.87)。 | | | | |

|  |  |  |
| --- | --- | --- |
| 生活热水热量合计(kWh/a) | 碳排放因子(tCO2/TJ) | 碳排放量(tCO2/a) |
| 835 | 55.54 | 0.167 |

# 计算结果

## 建材生产运输碳排放

### 建材生产阶段

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料 | 单位 | 用量 | 拆除后回收比例 | 寿命(年) | 碳排放因子 (kgCO2e/单位) | 碳排放量 (tCO2e) |
| 混凝土 | m3 | 923.74 | 0 | 全生命周期 | 340 | 314.072 |
| 钢筋 | t | 102.14 | 0 | 全生命周期 | 2340 | 239.008 |
| 型钢 | t | 19.24 | 0 | 全生命周期 | 2365 | 45.503 |
| 水泥 | t | 56.25 | 0 | 全生命周期 | 735 | 41.344 |
| 预拌砂浆 | t | 309.39 | 0 | 全生命周期 | 370 | 114.474 |
| 砂 | m3 | 78.46 | 0 | 全生命周期 | 3 | 0.235 |
| 钢丝网架聚苯板 | m3 | 30.48 | 0 | 全生命周期 | 534 | 16.276 |
| 挤塑聚苯板（XPS）(屋面楼板) | m3 | 79.24 | 0 | 25 | 534 | 84.628 |
| 挤塑聚苯板（XPS）(墙体) | m3 | 82.38 | 0 | 25 | 534 | 87.982 |
| 砌块 | m3 | 119.91 | 0 | 全生命周期 | 349 | 41.849 |
| 砖 | m3 | 108.07 | 0 | 全生命周期 | 336 | 36.312 |
| 铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) | m2 | 499.97 | 0 | 全生命周期 | 129.5 | 64.746 |
| 65系列平开隔热铝合金窗(5+12Ar+5Low\_E)(高透光) | m2 | 45.96 | 0 | 全生命周期 | 129.5 | 5.952 |
| 多功能户门(具有保温、隔声、防盗作用) | m2 | 15.75 | 0 | 全生命周期 | 48.3 | 0.761 |
| 内门 | m2 | 70.20 | 0 | 全生命周期 | 48.3 | 3.391 |
| 陶瓷 | m2 | 1767.54 | 0 | 全生命周期 | 19.5 | 34.467 |
| 涂料 | t | 13.32 | 0 | 全生命周期 | 6550 | 87.246 |
| 电缆 | kg | 122.87 | 0 | 全生命周期 | 94.1 | 11.562 |
| 管材 | kg | 1776.42 | 0 | 全生命周期 | 3.6 | 6.395 |
| 合计 | | | | | | 1236.203 |

### 建材运输阶段

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 材料 | 重量(t) | 运输距离 (km) | 寿命(年) | 碳排放因子 (kgCO2e/t·km) | 碳排放量 (tCO2e) |
| 混凝土 | 2180.02 | 40 | 全生命周期 | 0.01 | 0.872 |
| 钢筋 | 102.14 | 40 | 全生命周期 | 0.01 | 0.041 |
| 型钢 | 19.24 | 40 | 全生命周期 | 0.115 | 0.089 |
| 水泥 | 56.25 | 40 | 全生命周期 | 0.115 | 0.259 |
| 预拌砂浆 | 309.39 | 40 | 全生命周期 | 0.115 | 1.423 |
| 砂 | 125.53 | 40 | 全生命周期 | 0.115 | 0.577 |
| 钢丝网架聚苯板 | 0.76 | 40 | 全生命周期 | 0.115 | 0.003 |
| 挤塑聚苯板（XPS）(屋面楼板) | 2.77 | 40 | 25 | 0.115 | 0.025 |
| 挤塑聚苯板（XPS）(墙体) | 2.88 | 40 | 25 | 0.115 | 0.026 |
| 砌块 | 119.91 | 40 | 全生命周期 | 0.115 | 0.552 |
| 砖 | 156.69 | 0 | 全生命周期 | 0.115 | 0.000 |
| 铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) | 10.00 | 20 | 全生命周期 | 0.01 | 0.002 |
| 65系列平开隔热铝合金窗(5+12Ar+5Low\_E)(高透光) | 0.92 | 40 | 全生命周期 | 0.01 | 0.000 |
| 多功能户门(具有保温、隔声、防盗作用) | 0.47 | 40 | 全生命周期 | 0.01 | 0.000 |
| 内门 | 2.11 | 40 | 全生命周期 | 0.115 | 0.010 |
| 陶瓷 | 53.03 | 0 | 全生命周期 | 0.115 | 0.000 |
| 涂料 | 13.32 | 40 | 全生命周期 | 0.115 | 0.061 |
| 电缆 | 0.12 | 40 | 全生命周期 | 0.115 | 0.001 |
| 管材 | 1.78 | 80 | 全生命周期 | 0.115 | 0.016 |
| 总计 | | | | | 3.957 |

## 建筑建造拆除碳排放

### 建筑建造

根据广东省《建筑碳排放计算导则（试行）》，采用经验公式法进行估算，公式如下：

Y = X + 1.99

其中X 为地上层数，Y 为单位面积的碳排放量，单位为：kgCO2/㎡,

则建造阶段碳排放估算值 Cjz=Y×A, 其中A——建筑总面积，㎡。

|  |  |  |  |
| --- | --- | --- | --- |
| 建筑面积(㎡) | 地上层数 | 单位面积碳排放量(kgCO2/㎡) | 建造碳排放量(tCO2) |
| 1480.35 | 3 | 4.99 | 7.387 |

### 建筑拆除

根据广东省《建筑碳排放计算导则（试行）》，建议粗略估算拆除阶段的碳排放，计算方法与建造阶段公式一致即可，公式如下：

Y = X + 1.99

其中X 为地上层数，Y 为单位面积的碳排放量，单位为：kgCO2/㎡,

则拆除阶段碳排放估算值 Ccc=Y×A, 其中A——建筑总面积，㎡。

|  |  |  |  |
| --- | --- | --- | --- |
| 建筑面积(㎡) | 地上层数 | 单位面积碳排放量(kgCO2/㎡) | 拆除碳排放量(tCO2) |
| 1480.35 | 3 | 4.99 | 7.387 |

## 碳汇

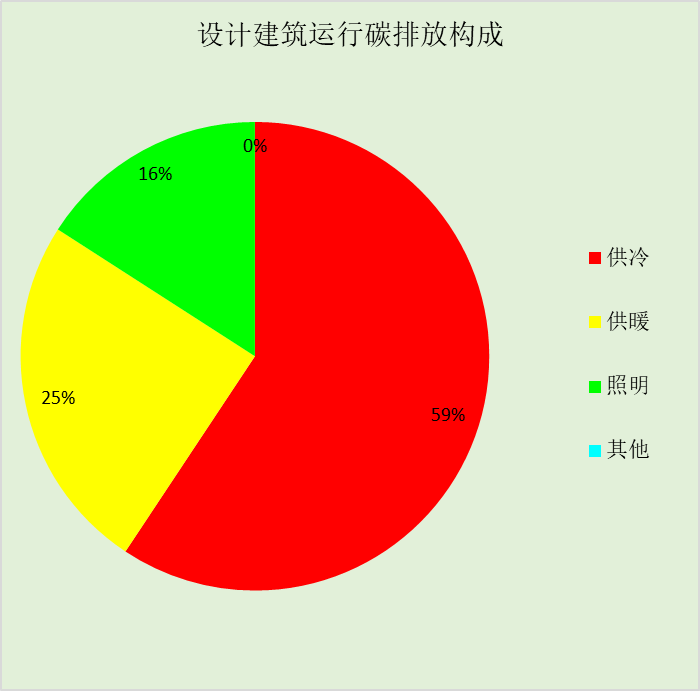
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 绿植 | 生长期 修正因子 | CO2固定量 (kg/㎡·a) | 面积(㎡) | 年数 | 碳固定量 (tCO2) |
| 休闲绿地 | 1 | 2.9628 | 315.05 | 50 | 46.672 |
| 道路绿地 | 1 | 3.4127 | 54.36 | 9.276 |
| 单位附属绿地 | 1 | 0.6125 | 468.69 | 14.354 |
| 合计 | | | | | 70.302 |

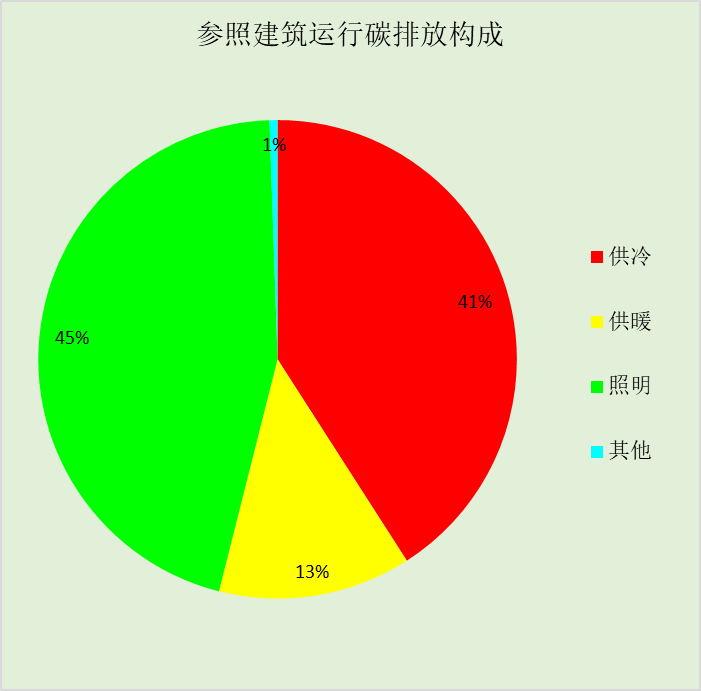
## 建筑运行碳排放

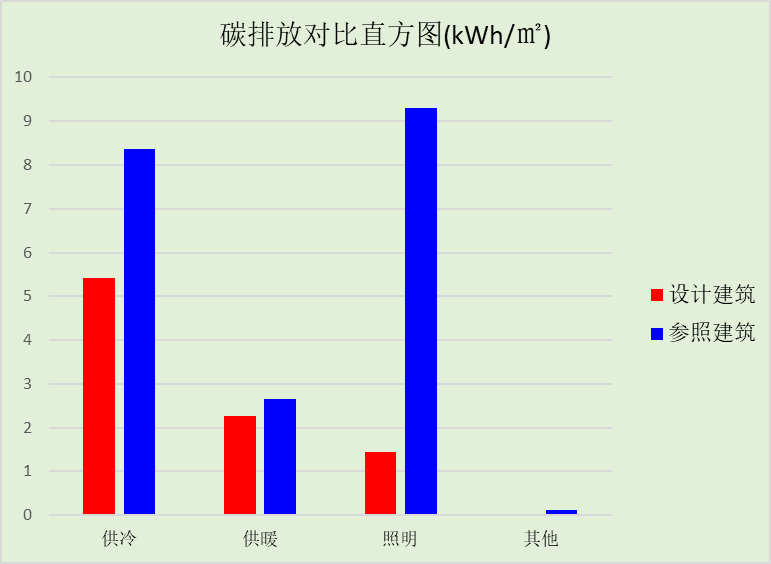
|  |  |  |  |
| --- | --- | --- | --- |
| 电力 | 类别 | 设计建筑碳排放量kgCO2/(㎡·a) | 参照建筑碳排放量kgCO2/(㎡·a) |
| 供冷(Ec) | | 5.41 | 8.36 |
| 供暖(Eh) | | 2.26 | 0.00 |
| 照明 | | 1.45 | 9.30 |
| 其他(Eo) | 电梯 | 0.00 | 0.00 |
| 生活热水 | 0.00(扣减了太阳能) | 0.00 |
| 合计 | 0.00 | 0.00 |
| 化石燃料 | 所属类别 | 设计建筑碳排放量kgCO2/(㎡·a) | 参照建筑碳排放量kgCO2/(㎡·a) |
|  | 供暖系统 | 0.00 | 2.66  燃料：燃气 |
| 无 | 生活热水(扣减了太阳能) | 0.00 | 0.11(燃料：燃气) |
| 可再生 | 类别 | 设计建筑碳减排量kgCO2/(㎡·a) | 参照建筑碳减排量kgCO2/(㎡·a) |
| 可再生能源(Er) | 光伏(Ep) | 35.49 | - |
| 风力(Ew) | 0.00 | - |
| 碳汇固碳量kgCO2/(㎡·a) | | 0.95 | - |
| 碳排放合计 | | 0.00 | 20.44 |
| 相对参照建筑降碳比例(%) | | 100.00 | |
| 相对参照建筑碳排放强度降低值 kgCO2/(m2·a) | | 20.44 | |

# 结论

本项目通过提升建筑围护结构性能、设备合理选型与运行策略优化、可再生能源利用及增加生态碳汇等措施，实现了建筑碳排放强度降低的效果。根据《绿色建筑评价标准》（GB/T50378-2019）9.2.7条，可得\_\_\_分。







# 附录

暑假:7.15~8.25; 寒假：1.15~3.1

## 工作日/节假日人员逐时在室率(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 空房间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 工作日/节假日照明开关时间表(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 空房间 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 90 | 100 | 100 | 100 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 工作日/节假日设备逐时使用率(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 空房间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假