**建筑碳排放报告书**

公共建筑

|  |  |
| --- | --- |
| 工程名称 | 智联活动中心 |
| 工程地点 | 四川-广安 |
| 设计编号 |  |
| 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19日 |



|  |  |
| --- | --- |
| 采用软件 | 建筑碳排放CEEB2024 |
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# 建筑概况

|  |  |
| --- | --- |
| 工程名称 | 智联活动中心 |
| 工程地点 | 四川-广安 |
| 地理位置 | 北纬：30.46° | 东经：106.63° |
| 建筑寿命(年) | 50 |
| 建筑面积(m2) | 地上7427 地下0 |
| 建筑层数 | 地上5 地下0 |
| 建筑高度（m） | 地上24.0 地下0.0 |
| 建筑体积(m3) | 35651.83 |
| 建筑外表面积(m2) | 9523.80 |
| 北向角度 | 99.6 |
| 结构类型 |  |
| 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:11.30-2.28 |

#  标准依据

1. 《建筑节能与可再生能源利用通用规范》GB 55015-2021

2. 《建筑碳排放计算标准》GB/T 51366-2019

3. 《绿色建筑评价标准》GB/T50378-2019

4. 《民用建筑绿色性能计算标准》JGJ/T 449-2018

# 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，可与建筑节能模型无缝对接，以国家标准《建筑碳排放计算标准》为主要依据，完整支持建筑全生命周期的碳排放计算，包括建材生产运输、建造拆除、建筑运行和碳汇的计算，以及详细的结果数据分析。

# 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 | 07月20日15时 | 36.7 | 27.2 | 19.9 | 87.9 |
| 最冷 | 01月05日05时 | 0.6 | 0.6 | 4.1 | 10.8 |

# 建筑大样



西南轴侧图



东南轴侧图



西北轴侧图



东北轴侧图

# 围护结构

## 工程材料

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 聚苯乙烯泡沫塑料（灰板） | 0.033 | 0.280 | 20.0 | 1380.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 混合砂浆 | 0.870 | 10.750 | 1700.0 | 1074.4 | 0.0230 | 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 |
| 挤塑聚苯板(ρ=25-32) | 0.030 | 0.320 | 28.5 | 1647.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 加气混凝土、泡沫混凝土(ρ=700) | 0.180 | 3.100 | 700.0 | 1050.0 | 0.0998 | 民用建筑热工设计规范 GB50176-2016 |
| 混凝土多孔砖(190六孔砖） | 0.750 | 7.490 | 1450.0 | 709.4 | 0.0010 | 民用建筑热工设计规范 GB50176-2016 |
| 岩棉板(ρ=60-160) | 0.041 | 0.615 | 110.0 | 1220.0 | 0.4880 | 民用建筑热工设计规范 GB50176-2016 |
| c20细石混凝土(ρ=2300) | 1.510 | 15.243 | 2300.0 | 920.0 | 0.0173 | 民用建筑热工设计规范 GB50176-2016 |
| 轻骨料混凝土(找坡层) | 0.300 | 5.000 | 1050.0 | 1091.3 | 0.0140 | 民用建筑热工设计规范 GB50176-2016 |

## 围护结构作法简要说明

**1. 屋顶：**屋顶构造一 (K=0.204,D=4.182)：（由上到下）

 水泥砂浆 20mm＋c20细石混凝土(ρ=2300) 40mm＋挤塑聚苯板(ρ=25-32) 150mm＋轻骨料混凝土(找坡层) 30mm＋钢筋混凝土 120mm＋混合砂浆 20mm

**2. 外墙：**填充墙构造一 (K=0.378,D=4.986)：（由外到内）

 水泥砂浆 20mm＋岩棉板(ρ=60-160) 70mm＋加气混凝土、泡沫混凝土(ρ=700) 200mm＋混合砂浆 20mm

**3. 挑空楼板：**挑空楼板构造一 (K=0.246,D=3.011)：（由上到下）

 水泥砂浆 20mm＋挤塑聚苯板(ρ=25-32) 125mm＋钢筋混凝土 120mm＋混合砂浆 20mm

**4. 幕墙：**100系列内平开隔热铝合金窗(5+12Ar+5+V+5Low-E) (K=0.900)：

 传热系数0.900W/㎡.K，窗太阳得热系数0.370

**5. 外窗：**80系列内平开隔热铝合金窗(5+12Ar+5Low-E+12Ar+5Low-E) (K=1.200)：

 传热系数1.200W/㎡.K，窗太阳得热系数0.275

# 围护结构概况

|  |  |
| --- | --- |
|  | 设计建筑 |
| 体形系数S | 0.27 |
| 屋顶传热系数K和热惰性指标 D | 0.204.18 |
| 外墙传热系数K和热惰性指标 D | 0.424.99 |
| 挑空(或架空)楼板传热系数K和热惰性指标 D | 0.253.01 |
| 天窗传热系数K和太阳得热系数 SHGC | －－ |
| 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 |
| 南向 | 南-默认立面 | 0.70 | 0.92 | 0.22 |
| 北向 | 北-默认立面 | 0.79 | 0.93 | 0.26 |
| 东向 | 东-默认立面 | 0.74 | 0.94 | 0.24 |
| 西向 | 西-默认立面 | 0.60 | 0.94 | 0.28 |

# 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 |
| 一般超市 | 26 | 18 | 16(m3/h.人) | 0(次/h) | 1.5(㎡/人) | 10(W/㎡) | 13(W/㎡) |
| 休息室 | 26 | 18 | 24(m3/h.人) | 0(次/h) | 1.39(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 会议室 | 26 | 18 | 14(m3/h.人) | 4(次/h) | 2.5(㎡/人) | 6(W/㎡) | 4(W/㎡) |
| 健身房 | 24 | 19 | 30(m3/h.人) | 4(次/h) | 4(㎡/人) | 6(W/㎡) | 5(W/㎡) |
| 办公-普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 8(W/㎡) | 15(W/㎡) |
| 卫生间 | 28 | 18 | 20(m3/h.人) | 4(次/h) | 20(㎡/人) | 3(W/㎡) | 2(W/㎡) |
| 大厅 | 26 | 18 | 20(m3/h.人) | 4(次/h) | 30(㎡/人) | 4(W/㎡) | 5(W/㎡) |
| 密集办公室 | 26 | 20 | 30(m3/h.人) | 4(次/h) | 8(㎡/人) | 6(W/㎡) | 4(W/㎡) |
| 展示区 | 26 | 20 | 30(m3/h.人) | 4(次/h) | 2.5(㎡/人) | 5(W/㎡) | 0(W/㎡) |
| 报告厅 | 26 | 18 | 14(m3/h.人) | 4(次/h) | 2.5(㎡/人) | 10(W/㎡) | 5(W/㎡) |
| 文印间 | 27 | 18 | 0(m3/h.人) | 4(次/h) | 20(㎡/人) | 5(W/㎡) | 6(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 4(次/h) | 8(㎡/人) | 6(W/㎡) | 4(W/㎡) |
| 更衣室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 9(W/㎡) | 15(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 3(次/h) | 0(人) | 3.5(W/㎡) | 5(W/㎡) |
| 浴室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 9(W/㎡) | 15(W/㎡) |
| 电子信息机房 | 23 | 23 | 0(m3/h.人) | 4(次/h) | 20(㎡/人) | 5(W/㎡) | 7(W/㎡) |
| 空房间 | － | － | 0(m3/h.人) | 3(次/h) | 0(人) | 0(W/㎡) | 0(W/㎡) |
| 绘图室 | 26 | 20 | 30(m3/h.人) | 4(次/h) | 20(㎡/人) | 5(W/㎡) | 4(W/㎡) |
| 视屏工作室 | 26 | 18 | 30(m3/h.人) | 4(次/h) | 8(㎡/人) | 5(W/㎡) | 5(W/㎡) |
| 设备间 | － | － | 0(次/h) | 0(次/h) | 0(人) | 6(W/㎡) | 15(W/㎡) |
| 设备间 | － | － | 0(次/h) | 3(次/h) | 0(人) | 3(W/㎡) | 5(W/㎡) |
| 走廊 | 26 | 16 | 20(m3/h.人) | 4(次/h) | 50(㎡/人) | 4(W/㎡) | 0(W/㎡) |
| 高档办公室 | 26 | 20 | 30(m3/h.人) | 4(次/h) | 8(㎡/人) | 6(W/㎡) | 4(W/㎡) |

## 作息时间表

详见附录

# 暖通空调系统

## 系统类型

### 系统分区

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 系统类型 | 制冷SEER | 制热HSPF | 面积(㎡) | 包含的房间 |
| 默认 | 双管制风机盘管 | － | － | 6180.77 | 所有房间 |

### 热回收参数

|  |  |  |  |
| --- | --- | --- | --- |
| 系统编号 | 热回收 | 供冷 | 供暖 |
| 回收效率 | 启动温(焓)差 | 回收效率 | 启动温(焓)差 |
| 默认 | 全热回收 | 0.50 | 5℃ | 0.55 | 5(℃) |

## 制冷系统

### 默认冷源

#### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认 |

#### 冷水机组

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | 类型 | 额定耗电量(kW) | 额定制冷量(kW) | 额定性能系数(COP) | 台数 |
| 机组1 | 地源/水源热泵 | 100 | 500 | 5.00 | 5 |
| 机组1 | 空气源热泵 | 100 | 500 | 5.00 | 5 |

#### 水泵系统

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 类型 | 调节 | 流量(m3/h) | 扬程(m) | 设计工作效率(%) | 输入功率(kW) | 冷却塔耗电比(kWh/m3) | 台数 |
| 冷却水泵 | 变频 | 320 | 25 | 80 | 31.3 | 0.03 | 5 |
| 冷冻水泵 | 单速 | 320 | 30 | 80 | 37.6 | － | 5 |
| 冷冻水泵 | 变频 | 320 | 25 | 80 | 31.3 | － | 1 |
| 冷冻水泵 | 单速 | 320 | 30 | 80 | 37.6 | － | 1 |

#### 运行工况

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 负载率(%) | 机组制冷量(kW) | 机组功率(kW) | 性能系数(COP) | 冷却水泵功率(kW) | 冷冻水泵功率(kW) | 冷却塔功率(kW) |
| 20 | 1000 | 25 | 40.00 | 31.3 | 37.6 | 10 |
| 40 | 2000 | 48 | 41.67 | 31.3 | 37.6 | 10 |
| 60 | 3000 | 68 | 44.12 | 31.3 | 37.6 | 10 |
| 80 | 4000 | 80 | 50.00 | 31.3 | 37.6 | 10 |
| 100 | 5000 | 100 | 50.00 | 31.3 | 37.6 | 10 |

#### 制冷能耗

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 负荷区间(%) | 区间负荷(kWh) | 运行时长(h) | 制冷机组(kWh) | 平均性能系数(COP) | 冷却水泵(kWh) | 冷冻水泵(kWh) | 冷却塔(kWh) |
| 0~20 | 90797 | 185 | 2270 | 40.00 | 5791 | 6956 | 1850 |
| 20~40 | 595248 | 417 | 14598 | 40.78 | 13052 | 15679 | 4170 |
| 40~60 | 10260 | 5 | 245 | 41.79 | 157 | 188 | 50 |
| 60~80 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 80~100 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| >100 | 0 | 0 | 0 | － | 0 | 0 | 0 |
| 合计 | 696305 | 607 | 17113 |  | 18999 | 22823 | 6070 |

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 制冷机组 | 17113 | 0.5257 | 8.996 |
| 冷却水泵 | 18999 | 9.988 |
| 冷却塔 | 6070 | 3.191 |
| 冷冻水泵 | 22823 | 11.998 |
| 合计 | 34.173 |

## 供暖系统

### 默认热源

#### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认 |

#### 热泵系统

##### 热泵机组

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | 类型 | 额定耗电量(kW) | 额定制热量(kW) | 额定性能系数 COP | 台数 |
| 热泵机组 | 空气源热泵 | 125 | 500 | 4.00 | 5 |
| 热泵机组 | 地源热泵 | 125 | 500 | 4.00 | 5 |

##### 热水循环泵

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类型 | 流量(m3/h) | 扬程(m) | 设计工作效率(%) | 输入功率(kW) | 台数 |
| 变频 | 320 | 30 | 80 | 37.6 | 5 |
| 变频 | 320 | 30 | 80 | 37.6 | 1 |

##### 运行工况

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 负载率(%) | 机组制热量(kW) | 机组功率(kW) | 性能系数(COP) | 供暖水泵功率(kW) | 热源侧水泵功率(kW) |
| 20 | 1000 | 25 | 40.00 | 37.6 | 8 |
| 40 | 2000 | 50 | 40.00 | 37.6 | 8 |
| 60 | 3000 | 75 | 40.00 | 37.6 | 8 |
| 80 | 4000 | 100 | 40.00 | 37.6 | 8 |
| 100 | 5000 | 125 | 40.00 | 37.6 | 8 |

##### 制热能耗

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 负荷区间(%) | 区间负荷(kWh) | 运行时长(h) | 平均性能系数(COP) | 热泵机组(kWh) | 供暖水泵(kWh) | 热源侧水泵(kWh) |
| 0~20 | 290825 | 732 | 40.00 | 7271 | 34404 | 5856 |
| 20~40 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 40~60 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 60~80 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 80~100 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| >100 | 0 | 0 | － | 0 | 0 | 0 |
| 合计 | 290825 | 732 |  | 7271 | 34404 | 5856 |

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 热泵机组 | 7271 | 0.5257 | 3.822 |
| 供暖水泵 | 34404 | 18.086 |
| 热源侧水泵 | 5856 | 3.079 |
| 合计 | 24.987 |

## 空调风机

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 独立新排风 | 7549 | 0.5257 | 3.968 |
| 风机盘管 | 536 | 0.282 |
| 全空气机组 | 0 | 0.0000 |
| 合计 | 4.250 |

# 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) |
| 一般超市 | 40.15 | 1 | 118 | 4745 | 0.5257 | 2.494 |
| 休息室 | 18.90 | 2 | 113 | 2143 | 1.127 |
| 会议室 | 10.08 | 2 | 79 | 798 | 0.420 |
| 健身房 | 10.08 | 5 | 1101 | 11095 | 5.833 |
| 卫生间 | 5.04 | 33 | 545 | 2748 | 1.445 |
| 大厅 | 6.72 | 3 | 1519 | 10206 | 5.365 |
| 密集办公室 | 10.08 | 15 | 748 | 7539 | 3.963 |
| 展示区 | 8.40 | 1 | 170 | 1427 | 0.750 |
| 报告厅 | 16.80 | 1 | 170 | 2855 | 1.501 |
| 文印间 | 8.40 | 1 | 50 | 423 | 0.223 |
| 普通办公室 | 13.44 | 2 | 76 | 1026 | 0.539 |
| 更衣室 | 15.12 | 2 | 47 | 708 | 0.372 |
| 楼梯间 | 9.63 | 13 | 413 | 3978 | 2.091 |
| 浴室 | 15.12 | 2 | 40 | 608 | 0.320 |
| 电子信息机房 | 8.40 | 2 | 119 | 998 | 0.525 |
| 空房间 | 0.00 | 1 | 337 | 0 | 0.000 |
| 绘图室 | 11.81 | 2 | 106 | 1254 | 0.659 |
| 视屏工作室 | 8.40 | 2 | 119 | 998 | 0.525 |
| 设备间 | 52.56 | 5 | 13 | 662 | 0.348 |
| 走廊 | 9.45 | 3 | 1008 | 9524 | 5.007 |
| 高档办公室 | 10.08 | 15 | 403 | 4064 | 2.136 |
| 总计 | 35.642 |

# 排风机

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 额定功率(kW) | 台数 | 使用系数 | 运行时间(h/天) | 年运行天数 | 全年电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 5 | 10 | 0.8 | 5 | 365 | 73000 | 0.5257 | 38.376 |
| 总计 | 38.376 |

注：此类风机指非空调区域排风机

# 电梯

## 直梯

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | 特定能量消耗(mWh/kgm) | 额定载重量(kg) | 速度(m/s) | 待机功率(W) | 运行时长(h/天) | 年运行天数 | 数量 | 全年电耗(kWh) |
| 直梯1 | 1.26 | 1350 | 1.75 | 200 | 1.5 | 365 | 1 | 7510 |
| 总计 | 7510 |

## 电梯碳排放

|  |  |  |  |
| --- | --- | --- | --- |
| 电梯 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 直梯1 | 7510 | 0.5257 | 3.948 |
| 合计 | 3.948 |

# 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 | 13640 | 0.5257 | 7.17055 |
| 2 | 12990 | 6.82884 |
| 3 | 25470 | 13.3896 |
| 4 | 29980 | 15.7605 |
| 5 | 33340 | 17.5268 |
| 6 | 33380 | 17.5479 |
| 7 | 34520 | 18.1472 |
| 8 | 35610 | 18.7202 |
| 9 | 19660 | 10.3353 |
| 10 | 20040 | 10.535 |
| 11 | 13350 | 7.01809 |
| 12 | 11810 | 6.20852 |
| 总计 | 149.188 |

# 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 | 4315.36 | 1 | 全生命周期 | 340 | 733.611 |
| 钢筋 | t | 512.50 | 1 | 全生命周期 | 2340 | 599.625 |
| 型钢 | t | 81.70 | 1 | 全生命周期 | 2365 | 96.610 |
| 水泥 | t | 245.11 | 0.6 | 全生命周期 | 735 | 126.109 |
| 预拌砂浆 | t | 1173.54 | 0.6 | 全生命周期 | 370 | 303.947 |
| 砂 | m3 | 571.91 | 0.6 | 全生命周期 | 3 | 1.201 |
| 挤塑聚苯板(ρ=25-32) | m3 | 470.72 | 0.8 | 全生命周期 | 534 | 150.819 |
| 岩棉板(ρ=60-160) | m3 | 159.80 | 0.6 | 全生命周期 | 534 | 59.733 |
| 砌块 | m3 | 638.76 | 0.7 | 全生命周期 | 349 | 144.903 |
| 砖 | m3 | 557.06 | 0.6 | 全生命周期 | 336 | 131.021 |
| 100系列内平开隔热铝合金窗(5+12Ar+5+V+5Low-E) | m2 | 4066.22 | 0.7 | 全生命周期 | 129.5 | 342.274 |
| 80系列内平开隔热铝合金窗(5+12Ar+5Low-E+12Ar+5Low-E) | m2 | 508.02 | 0.7 | 全生命周期 | 129.5 | 42.763 |
| 80系列铝合金平开窗：5单银Low-E+12（16）Ar+5+12（16）Ar+5单银Low-E | m2 | 111.36 | 0.7 | 全生命周期 | 129.5 | 9.374 |
| 金属三防门(硅酸铝板保温-普通型) | m2 | 65.52 | 0.6 | 全生命周期 | 48.3 | 2.215 |
| 内门 | m2 | 250.11 | 0.7 | 全生命周期 | 48.3 | 7.852 |
| 陶瓷 | m2 | 7598.30 | 0.2 | 全生命周期 | 19.5 | 133.350 |
| 涂料 | t | 96.56 | 0 | 全生命周期 | 6550 | 632.468 |
| 电缆 | kg | 1277.52 | 1 | 全生命周期 | 94.1 | 60.107 |
| 管材 | kg | 11141.20 | 1 | 全生命周期 | 3.6 | 20.054 |
| 合计 | 3598.036 |

### 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 | 10184.20 | 15 | 全生命周期 | 0.104 | 15.887 |
| 钢筋 | 512.50 | 20 | 全生命周期 | 0.104 | 1.066 |
| 型钢 | 81.70 | 20 | 全生命周期 | 0.104 | 0.170 |
| 水泥 | 245.11 | 20 | 全生命周期 | 0.104 | 0.510 |
| 预拌砂浆 | 1173.54 | 15 | 全生命周期 | 0.104 | 1.831 |
| 砂 | 915.06 | 15 | 全生命周期 | 0.104 | 1.427 |
| 挤塑聚苯板(ρ=25-32) | 13.42 | 15 | 全生命周期 | 0.104 | 0.021 |
| 岩棉板(ρ=60-160) | 17.58 | 15 | 全生命周期 | 0.104 | 0.027 |
| 砌块 | 638.76 | 15 | 全生命周期 | 0.104 | 0.996 |
| 砖 | 807.74 | 15 | 全生命周期 | 0.104 | 1.260 |
| 100系列内平开隔热铝合金窗(5+12Ar+5+V+5Low-E) | 81.32 | 15 | 全生命周期 | 0.104 | 0.127 |
| 80系列内平开隔热铝合金窗(5+12Ar+5Low-E+12Ar+5Low-E) | 10.16 | 15 | 全生命周期 | 0.104 | 0.016 |
| 80系列铝合金平开窗：5单银Low-E+12（16）Ar+5+12（16）Ar+5单银Low-E | 2.23 | 15 | 全生命周期 | 0.104 | 0.003 |
| 金属三防门(硅酸铝板保温-普通型) | 1.97 | 15 | 全生命周期 | 0.104 | 0.003 |
| 内门 | 7.50 | 15 | 全生命周期 | 0.104 | 0.012 |
| 陶瓷 | 227.95 | 15 | 全生命周期 | 0.104 | 0.356 |
| 涂料 | 96.56 | 15 | 全生命周期 | 0.104 | 0.151 |
| 电缆 | 1.28 | 15 | 全生命周期 | 0.104 | 0.002 |
| 管材 | 11.14 | 15 | 全生命周期 | 0.104 | 0.017 |
| 总计 | 23.882 |

## 建筑建造拆除碳排放

### 建筑建造

|  |  |  |  |
| --- | --- | --- | --- |
| 阶段 | 物化阶段（建材生产运输、建筑建造） | 建造占物化阶段比例 | 碳排放量(tCO2) |
| 建造阶段 | 3812.545 | 0.05 | 190.627 |
| 施工临时设施 | 碳排放占施工机械碳排放的比例：0 | 0.000 |
|  | 190.627 |

### 建筑拆除

|  |  |  |  |
| --- | --- | --- | --- |
| 阶段 | 物化阶段（建材生产运输、建筑建造） | 拆除排放占物化阶段比例 | 碳排放量(tCO2) |
| 拆除阶段 | 3812.545 | 0.5 | 1906.272 |

## 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) |
| 大小乔木、灌木、花草密植混种区（乔木平均种植间距<3.0m，土壤深度>1.0m） | 1 | 27.5 | 6000 | 50 | 8250.000 |
| 大小乔木密植混种区（平均种植间距<3.0m，土壤深度>0.9m） | 1 | 22.5 | 2000 | 2250.000 |
| 落叶大乔木（土壤深度>1.0m） | 1 | 20.2 | 500 | 505.000 |
| 阔叶大乔木 | 1 | 22.5 | 500 | 562.500 |
| 密植灌木丛（高约0.45m，土壤深度>0.5m） | 1 | 5.13 | 400 | 102.600 |
| 多年生蔓藤（以立体攀附面积计算，土壤深度>0.5m） | 1 | 2.58 | 20 | 2.580 |
| 高草花花圃或高茎野草地（高约1.0m，土壤深度>0.3m） | 1 | 1.15 | 20 | 1.150 |
| 一年生蔓藤、低草花花圃或低茎野草地（高约0.25m，土壤深度>0.3m） | 1 | 0.34 | 100 | 1.700 |
| 草花花圃、自然野草、草坪、水生植物 | 1 | 0.5 | 500 | 12.500 |
| 合计 | 11688.030 |

## 建筑运行碳排放

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 电力 | 类别 | 耗电 (kWh/㎡) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2) |
| 供冷(Ec) | 中央冷源 | 115.20 | 0.5257 | 1708.665 |
|  | 冷却水泵 | 127.90 |  |  |
|  | 冷冻水泵 | 153.64 |  |  |
|  | 冷却塔 | 40.86 |  |  |
|  | 多联机/单元式空调 | 0.00 |  |  |
|  | 供冷合计 | 437.60 |  |  |
| 供暖(Eh) | 中央热源 | 48.94 | 0.5257 | 1249.341 |
|  | 供暖水泵 | 231.60 |  |  |
|  | 热源侧水泵 | 39.42 |  |  |
|  | 多联机/单元式热泵 | 0.00 |  |  |
|  | 供暖合计 | 319.96 |  |  |
| 空调风机(Ef) | 新排风 | 50.82 | 0.5257 | 212.489 |
|  | 风机盘管 | 3.61 |  |  |
|  | 全空气系统 | 0.00 |  |  |
|  | 风机合计 | 54.42 |  |  |
| 照明 | 456.41 | 0.5257 | 1782.095 |
| 其他(Eo) | 电梯 | 50.55 | 0.5257 | 2116.198 |
|  | 排风机 | 491.42 |  |  |
|  | 生活热水(扣减了太阳能) | 0.00 |  |  |
|  | 其他设备 | 0.00 |  |  |
|  | 合计 | 541.97 |  |  |
| 其他 | 所属类别 | 消耗量(kg) | 碳排放量(tCO2) |
| 制冷剂 | 供冷 | 0 | 0.000 |
| 可再生 | 类别 | 供电(kWh/㎡) | 碳排放因子(kgCO2/kWh) | 碳减排量(tCO2) |
| 可再生能源(Er) | 光伏(Ep) | 1910.41 | 0.5257 | 7459.421 |
|  | 风力(Ew) | 0.00 |  | 0.000 |
| 建筑运行碳排放合计 | -390.630 |

## 全生命周期

### 单位面积指标

|  |  |  |
| --- | --- | --- |
| 类别 | 年碳排放量(kgCO2/㎡·a) | 碳排放量(kgCO2/㎡) |
| 建筑材料生产 | 9.69 | 484.42 |
| 建筑材料运输 | 0.06 | 3.22 |
| 建筑建造 | 0.51 | 25.67 |
| 建筑拆除 | 5.13 | 256.65 |
| 建筑运行 | -1.05 | -52.59 |
| 碳汇 | -31.47 | -1573.62 |
| 合计 | 0.00 | 0.00 |

### 总碳排放量

|  |  |  |
| --- | --- | --- |
| 类别 | 年碳排放量(tCO2/a) | 碳排放量(tCO2) |
| 建筑材料生产 | 71.961 | 3598.036 |
| 建筑材料运输 | 0.478 | 23.882 |
| 建筑建造 | 3.813 | 190.627 |
| 建筑拆除 | 38.125 | 1906.273 |
| 建筑运行 | -7.813 | -390.630 |
| 碳汇 | -233.761 | -11688.030 |
| 合计 | 0.000 | 0.000 |





# 附录

## 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 |
| 一般超市 | 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 | 20 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 休息室 | 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 |
| 会议室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 健身房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 办公-普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 大厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 密集办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 展示区 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 报告厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 文印间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 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 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 更衣室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 楼梯间 | 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 |
| 浴室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 电子信息机房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 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 |
| 绘图室 | 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 |
| 视屏工作室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 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 |
| 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 |
| 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 |
| 高档办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：上行：工作日；下行：节假日

## 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 |
| 一般超市 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 90 | 100 | 100 | 100 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 90 | 100 | 100 | 100 | 10 | 10 | 10 |
| 休息室 | 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 |
| 会议室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 健身房 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 办公-普通办公室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 卫生间 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 大厅 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 密集办公室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 展示区 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 报告厅 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 文印间 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 普通办公室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 更衣室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 楼梯间 | 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 |
| 浴室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 电子信息机房 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 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 |
| 绘图室 | 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 |
| 视屏工作室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 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 |
| 高档办公室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 10 | 10 | 10 | 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 |

注：上行：工作日；下行：节假日

## 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 |
| 一般超市 | 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 | 30 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 休息室 | 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 |
| 会议室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 健身房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 办公-普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 大厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 密集办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 展示区 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 报告厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 文印间 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 更衣室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 楼梯间 | 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 |
| 浴室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 电子信息机房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 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 |
| 绘图室 | 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 |
| 视屏工作室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 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 |
| 高档办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |

注：上行：工作日；下行：节假日

## 工作日/节假日空调系统运行时间表(1:开,0:关)

采暖期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

供冷期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：上行：工作日；下行：节假日

## 工作日/节假日新风运行时间表(%)

采暖期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

供冷期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

注：上行：工作日；下行：节假日