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| **一、建筑工程项目概况** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 建设单位 | | | 江永县公路建设养护中心 | | | | | | 设计单位 | | | | 永州市永南建筑设计院有限公司 | | | | | | | | | | | | 审查单位 | | | | | | | | |  | | | | | | |
| 项目名称 | | | 江永县G538线塔山服务区建设项目-综合服务楼工程 | | | | | | | | | | | | | | | | | | | | | | 单位子项名称 | | | | | | | | |  | | | | | | |
| 建筑类型 | | | 甲类公共建筑 | | | | | | | | | | | | | 层数 | | | | 地上 | | | | | 3 | | | | 局部 | | | | |  | | | | | | |
| 地下 | | | | | － | | | | 局部 | | | | |  | | | | | | |
| 总建筑面积（m2） | | | 1143.04 | | | | 特殊区域面积（含地下室等） | | | |  | | | | | | | | | 单位子项建筑面积（m2） | | | | | | | | | | | | | |  | | | | | | |
| **二、围护结构技术措施基本情况** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **执行现行公共建筑节能设计标准及相关规定等情况** | **外围护结构** | | **项 目** | | | | | | | | | | | | | | **限值（标准指标）** | | | | | | | | | **实际结果（计算值）** | | | | | | | | | | | | | | |
| 传热系数  K值  W/（㎡.K） | | | 屋 面 | | | | | | | | | | | ≤0.40 | | | | | | | | | 0.40（D=5.43） | | | | | | | | | | | | | | |
| 外墙（包括非透明幕墙）平均 | | | | | | | | | | | ≤0.60（D≤2.5）  ≤0.80（D＞2.5） | | | | | | | | | 0.80（D=4.43） | | | | | | | | | | | | | | |
| 底面接触室外空气的架空或外挑楼板 | | | | | | | | | | | ≤0.7 | | | | | | | | | － | | | | | | | | | | | | | | |
| 热 阻  （㎡.k）/W | | | 地 面 | | | | | | | | | | | — | | | | | | | | | — | | | | | | | | | | | | | | |
| 地下室外墙（与土壤接触的墙） | | | | | | | | | | | — | | | | | | | | | — | | | | | | | | | | | | | | |
| 屋顶透明  部分 | | | 传热系数（K值） | | | | | | | | | | | ≤2.2 | | | | | | | | | － | | | | | | | | | | | | | | |
| 太阳得热系数（SHGC） | | | | | | | | | | | ≤0.30 | | | | | | | | | － | | | | | | | | | | | | | | |
| 面积（%） | | | | | | | | | | | ≤20% | | | | | | | | | － | | | | | | | | | | | | | | |
| 其余部位  说明 | | | 气密性能 | | | | 外窗分级 | | | | | | | 10层及以上7级  10层以下6级 | | | | | | | | | 7级（10层以下6级） | | | | | | | | | | | | | | |
| 透明幕墙分级 | | | | | | | 3级 | | | | | | | | | 3级 | | | | | | | | | | | | | | |
| 外 门 | | | | | | | | | | | 门斗 🞎 旋转 🞎 中空🞎 其它 🗹 | | | | | | | | | | | | | | | | | | | | | | | |
| 外墙、屋面热桥部位技术措施 | | | | | | | | | | | 外墙 ：有🗹 无 🞎 | | | | | | | | | | | | | | | | | | 屋面： 有 🗹 无 🞎 | | | | | |
| 中庭夏季通风、排风 | | | | | | | | | | | 机械 🞎 自然 🞎 | | | | | | | | | | | | | | | | | | | | | | | |
| 透明幕墙通风形式 | | | | | | | | | | | 可开启部分 ：有 🞎 无 🞎 | | | | | | | | | | | 通风换气装置： 有🞎 无 🞎 | | | | | | | | | | | | |
| **外窗（包括透明幕墙）** | | **朝向** | | | **实际窗墙面积比**  **（计算值）** | | | | **实际传热系数**  **（计算值）** | | | | | | | **遮阳系数**  **（加权平均值）** | | | | **可见光透射比**  **（计算值）** | | | | | | | **可开启面积≥30%（计算值）** | | | | | | | | **遮阳形式** | | | | |
| 东 | | | 0.08 | | | | 2.01 | | | | | | | 0.32 | | | | 0.61 | | | | | | | 3.72 | | | | | | | | 内🞎 外🞎 固定🞎 活动🞎 | | | | |
| 南 | | | 0.39 | | | | 2.01 | | | | | | | 0.32 | | | | 0.61 | | | | | | | 39.65 | | | | | | | | 内🞎 外🞎 固定🞎 活动🞎 | | | | |
| 西 | | | 0.04 | | | | 2.01 | | | | | | | 0.32 | | | | 0.61 | | | | | | | 2.02 | | | | | | | | 内🞎 外🞎 固定🞎 活动🞎 | | | | |
| 北 | | | 0.37 | | | | 2.01 | | | | | | | 0.32 | | | | 0.61 | | | | | | | 37.53 | | | | | | | | 内🞎 外🞎 固定🞎 活动🞎 | | | | |
| **围护结构热工性能**  **权衡判断** | | | | | | | | | **参照建筑物的采暖和空气调节能耗（kwh/m2）** | | | | | | | | | | | | | | | | | | | | | | | | | | 28.46 | | | | |
| **设计建筑物的采暖和空气调节能耗（kwh/m2）** | | | | | | | | | | | | | | | | | | | | | | | | | | 26.80 | | | | |
| **主要节能措施** | **外 墙** | | | | 保温型式 | | | | | 外保温🞎🞎 内保温 🗹🞎 自保温 🞎🞎 其它 🞎 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外墙饰面 | | | | | 涂料 🗹🞎 面砖🞎🞎  保温装饰一体板🞎🞎 | | | | | | | | | 保温材料种类及厚度（mm） | | | | | | | | | | | 膨胀玻化微珠保温复合板、60.0 | | | | | | | | | | |
| **屋 面** | | | | 屋顶类型 | | | | | 平屋顶🞎🗹 坡屋顶🞎🞎 | | | | | | | | | 保温材料种类及厚度（mm） | | | | | | | | | | | 热固复合聚苯板 G 型 05 级、90 | | | | | | | | | | |
| **外 窗** | | | | 窗框型材 | | | | | PVC塑料普通🞎 PVC塑料低辐射🞎 金属材料🞎 断热金属材料🗹 金属材料低辐射🞎 其它 🞎 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 窗玻璃材料 | | | | | 空🞎 Low-E🗹 | | | | | 窗玻璃厚度(mm) | | | | | | | | 5mm🞎 6mm🗹 | | | | | | | | 中空空气层（mm） | | | | | | 6A 🞎9A 🞎 12A🗹 15A 🞎 ＞20A 🞎 | | | |
| **架空或外挑楼板** | | | | 保温材料种类 | | | | | | | | | |  | | | | | | | | | | | | | | | | 选用厚度(mm) | | | | | |  | | | |
| **结论**（是否符合标准） | **屋面** | | | **外墙** | **架空**  **或外挑楼板** | | **地面** | **地下室**  **外墙** | | | | **屋顶透明部分** | | | | | | | | | | **外窗** | | | | | | | | | | | | | | | | | **气密性能** | |
| **传热**  **系数** | | **遮阳**  **系数** | | | | **面积**  **百分比** | | | | **窗墙比** | | **传热系数** | | | **太阳得热**  **系数** | | | | | **可见光**  **透射** | | | | **可开启**  **面积** | | | **外窗** | **透明**  **幕墙** |
| 是🗹  否🞎 | | | 是🗹  否🞎 | 是🗹  否🞎 | | 是🞎  否🞎 | 是🞎  否🞎 | | | | 是🞎  否🞎 | | 是🞎  否🞎 | | | | 是🞎  否🞎 | | | | 是🗹  否🞎 | | 是🗹  否🞎 | | | 是🗹  否🞎 | | | | | 是🗹  否🞎 | | | | 是🗹  否🞎 | | | 是🗹  否🞎 | 是🗹  否🞎 |
| **围护结构热工性能权衡判断** | | | | | | | | | | | | | | | | | | | | | 是 🞎 否 🞎 满足规定性指标无需权衡🗹 | | | | | | | | | | | | | | | | | | |
| **专业** | | **节能设计结论** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **设计人** | | | | | **日期** | | |
| 建筑 | | 节能设计达到《建筑节能与可再生能源利用通用规范》（GB 55015-2021）的节能要求。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | 2025.01 | | |
| **审查意见** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **审查人** | | | | | **日期** | | |
| 该项目节能设计满足《建筑节能与可再生能源利用通用规范》（GB 55015-2021）规定，合格。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | |  | | |

**湖南省甲类公共建筑节能设计审查表**