

Building Energy Performance Characteristics

Project:

Project Location:

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	ASHRAE/IESNA Standard 90.1-2004 Requirement	Connecticut Building Code Section 101.6 Compliance Requirement	Submitted for Permit Approval Design Values
Section 5			
Building Envelope (Climate Zone 5A)			
Space-Conditioning Category			
Roofs: Minimum Thermal Emittance			
Roofs: Assembly Maximum U-Value			
Roofs: Minimum Insulation R-Value			
Walls, Above-Grade: Assembly Maximum U-Value			
Walls, Above-Grade: Minimum Insulation R-Value			
Walls, Below-Grade: Assembly Maximum C-Value			
Floors: Assembly Maximum U-Value			
Floors: Minimum Insulation R-Value			
Slab-On-Grade Floors: Assembly Maximum F-Value			
Slab-On-Grade Floors: Min. Insulation R-Value			
Opaque Doors: Assembly Maximum U-Value			
Vertical Glazing: Percent of Wall			
Fixed Vertical Glazing: Assembly Maximum U-Value			
Fixed Vertical Glazing: Assembly Maximum SHGC			
Operable Vertical Glazing: Assembly Maximum U-Value			
Operable Vertical Glazing: Assembly Maximum SHGC			
Skylight: Percent of Roof			
Skylight: Assembly Maximum U-Value			
Skylight: Assembly Maximum SHGC			
Building Envelope Sealing			
Building Envelope Sealing: Joints Around Fenestration & Doors			
Building Envelope Sealing: Between Walls & Foundation			
Building Envelope Sealing: Utility Service Penetrations			
Building Envelope Sealing: Where Used as Plenum or Duct			
Building Envelope Sealing: At Penetrations of Vapor Retarders			
Building Envelope Sealing: At All Other Openings			
Fenestration: Maximum Air Leakage Requirement			
Door: Maximum Air Leakage Requirement			
Loading Dock Weatherseal Requirement			
Vestibule Requirement			
Eve Vent Baffle Requirement			
Building Envelope Performance Factor (Envelope Trade-Off Option)			
Section 6			
Heating, Ventilating and Air Conditioning			
Outdoor Air Quantity			
HVAC System Economizer Cycle Requirement			
Air Condition and Condensing Units: Minimum Efficiency			
Electrically Operated Heat Pumps: Minimum Efficiency			
Water Chilling Packages: Minimum Efficiency			
PTAC & PTHP: Minimum Efficiency			
Furnaces & Unit Heaters: Minimum Efficiency			
Boilers: Minimum Efficiency			
Heat Rejection Equipment: Performance Required			
Heating Duct Insulation: Minimum Insulation R-Value			
Cooling Duct Insulation: Minimum Insulation R-Value			
Return Duct Insulation: Minimum Insulation R-Value			
Supply Duct Insulation: Minimum Insulation R-Value			
Heating System Pipe Insulation: Minimum Insulation Thickness			

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Domestic & Service Hot Water Systems: Minimum Insulation Thickness			
Cooling Systems: Minimum Insulation Thickness			
Thermostatic Control Requirement for Each Zone			
Automatic Off-Hour Thermostatic Control			
Automatic Thermostatic Setback Control			
Optimum Start Temperature Control			
Temperature Zone Isolation Control			
Motorized Dampers on Stair and Shaft Vents			
Automatic Dampers on Outdoor Air Supply & Exhaust Equipment			
Automatic Dampers on Outdoor Air Supply & Exhaust Systems			
Outdoor Air Supply & Exhaust Air Damper: Maximum Leakage Rate Requirement			
Automatic Ventilation Fan Control on Motors Greater Than 3/4 hp			
Heat Pump Auxiliary Heat Control			
Simultaneous Heating & Cooling Prevention Requirement			
Simultaneous Humidification and Dehumidification Prevention			
Thermostatic Setpoint Overlap Restriction			
Automatic Freeze Prevention Control			
Automatic Outdoor Air Ventilation Control for High-Occupancy Areas			
Duct Sealing			
Cooling System Economizers & Controls			
Automatic Valves on Hydronic (Water Loop) Heat Pump System's Central Devices			
Fan System Power to Supply Fan Air Volume Ratio			
Hydronic Variable Flow System			
Chiller Isolation Valve			
Boiler Isolation Valve			
Water Temperature Reset Controls on Constant Volume Systems			
Two Position Valve on Each Hydronic (Water Loop) Heat Pump			
Fan Speed Control on Heat Rejection Equipment			
Exhaust Air Energy Recovery			
Heat Recovery for Service Water Heating			
Kitchen Exhaust Hoods with Makeup Air			
Fume Hood with Volume Control or Make Air Temperature Control			
Cooling System Hot Gas Bypass Limitation: Maximum Percentage of Total Capacity			
Radiant heating System Requirement			
As-Built Record Drawing Submittal Requirement			
Operation Manuals Requirement			
Maintenance Manuals Requirement			
Air System Balancing Requirement			
Hydronic System Balancing Requirement			
HVAC Control Commissioning Requirement			
HVAC System Commissioning Requirement			
Section 7			
Service Water Heating			
Electric Water Heater Required Performance			
Gas Storage Water Heater Required Performance			
Gas Instantaneous Water Heater Required Performance			
Oil Storage Water Heater Required Performance			
Oil Instantaneous Water Heater Required Performance			

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Gas Hot Water Supply Boiler Required Performance			
Oil Hot Water Supply Boiler Required Performance			
Gas & Oil Pool Heater Required Performance			
Heat Pump Pool Heater Required Performance			
Unfired Storage Tank Required Performance			
Domestic & Service Hot Water Systems: Minimum Insulation Thickness			
Service Water Storage Temperature Control			
Service Water Temperature Maintenance System Automatic Time Switch			
Public Restroom Service Water Outlet Temperature Control			
Service Water Heater Storage Circulating Pump Automatic Time Limit Switch			
Pool Heater Accessible On-Off Switch			
Pool Cover for Heated Pools			
Swimming Pool Heater and Pump Time Switch			
Service Water Heater Inlet & Outlet Heat Traps			
Space & Water Heating Boiler System Requirement			
Section 8			
Power			
Feeder Voltage Drop Requirement			
Branch Circuit Voltage Drop Requirement			
As-Built Record Drawing Submittal Requirement			
Operation Manuals Submission Requirement			
Maintenance Manuals Submission Requirement			
Intended Operation Narrative Submission Requirement			

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	ASHRAE/IESNA Standard 90.1-2004 Requirement	Connecticut Building Code Section 101.6 Compliance Requirement	Submitted for Permit Approval Design Values
Section 9			
Lighting			
Interior Lighting System Calculation Method			
Gross Lighted Floor Area			
Interior Lighting Power Allowance			
Equivalent Interior Lighting Power Density			
Automatic Interior Lighting Shutoff Control			
Interior Space Lighting Control			
Automatic Interior Space Shutoff Control in Required Spaces			
Automatic Exterior Lighting Control			
Display/Accent Lighting Control Device			
Case Lighting Control Device			
Hotel & Motel Guest Room Lighting Control Device			
Task Lighting Control Device			
Nonvisual Lighting Control Device			
Demonstration Lighting Control Device			
Luminaire Tandem Wiring			
Exit Sign: Maximum Wattage per Face			
Exterior Luminaire Minimum Lamp Efficacy Requirement			
Total Exterior Lighting Power Allowance			
Tradable Surface Exterior Lighting Power Allowance			
Non-Tradable Surface Exterior Lighting Power Allowance			
Section 10			
Other Equipment			
Minimum Motor Efficiency Requirement			