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Component/System	Requirement	Code Section	Describe Proposed Design <small>(Indicate performance values, exceptions applied, notes to reviewer, etc.)</small>	Indicate Plan Sheet	Complies	N/A
ENVELOPE REQUIREMENTS						
Certification	Responsible design professional certification on plans	C103.1*			<input type="checkbox"/>	<input type="checkbox"/>
Construction documents	Include: <ul style="list-style-type: none"> ▪ Insulation R-values ▪ Fenestration U-factors and solar heat gain coefficients (SHGCs) 	C103.2			<input type="checkbox"/>	<input type="checkbox"/>
Roof – insulation above deck	R-25 or U-0.039 (group R) R-20 or U-0.048 (others)	C402.1, C402.2			<input type="checkbox"/>	<input type="checkbox"/>
Roof – metal building	R-19 + R-11 (with thermal block and liner system)	C402.1, C402.2			<input type="checkbox"/>	<input type="checkbox"/>
Roof – attic or other	R-38	C402.1, C402.2			<input type="checkbox"/>	<input type="checkbox"/>
Wall – mass	R-5.7 or U-0.151	C402.1, C402.2			<input type="checkbox"/>	<input type="checkbox"/>
Wall – metal building	R-13 + R6.5 or U-0.079	C402.1, C402.2			<input type="checkbox"/>	<input type="checkbox"/>
Wall – metal frame	R-13 + R-5 or U-0.077 (R-5 not required with reflectance ≥ 0.64 or shading $PF \geq 0.3$)*	C402.1, C402.2*			<input type="checkbox"/>	<input type="checkbox"/>
Wall – wood frame and other	R-13 + R3.8 or R-20 or U-0.064 (R-3.8 not required with reflectance ≥ 0.64 or shading $PF \geq 0.3$)*	C402.1, C402.2*			<input type="checkbox"/>	<input type="checkbox"/>

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Door - swinging	U-0.61	C402.1			<input type="checkbox"/>	<input type="checkbox"/>
Door – non-swinging	R-4.75	C402.1			<input type="checkbox"/>	<input type="checkbox"/>
Low-slope roof membrane	Aged reflectance ≥ 0.55 + aged emittance ≥ 0.75, or aged reflectance ≥ 0.64 (exceptions available)	C402.3			<input type="checkbox"/>	<input type="checkbox"/>
Windows – maximum area	$\leq 30\%$ of gross wall area ($\leq 40\%$ when meeting daylighting requirements)	C402.4.1			<input type="checkbox"/>	<input type="checkbox"/>
Windows – solar heat gain coefficient (SHGC)	≤ 0.25 if projection factor < 0.2 . ≤ 0.30 if projection factor $0.2-0.5$. ≤ 0.40 if projection factor ≥ 0.5 .	C402.4.3			<input type="checkbox"/>	<input type="checkbox"/>
Windows – U-factor	≤ 0.50 fixed fenestration ≤ 0.65 operable fenestration ≤ 1.10 entrance doors	C402.4.3			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – minimum area	Skylights and daylight responsive controls required for certain spaces $\geq 2,500$ ft ² with ceiling height ≥ 15 ft.	C402.4.2			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – maximum area	$\leq 3\%$ of gross roof area ($\leq 5\%$ when meeting daylighting requirements)	C402.4.1.2			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – solar heat gain coefficient (SHGC)	≤ 0.35 (≤ 0.60 with daylighting control)	C402.4.3			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – U-factor	≤ 0.75 (≤ 0.90 with daylighting control)	C402.4.3			<input type="checkbox"/>	<input type="checkbox"/>
Air leakage	<ul style="list-style-type: none"> ▪ Continuous air barrier ▪ Fenestration air leakage ▪ Openings to shafts, chutes, stairways and elevator lobbies ▪ Air intakes, exhaust openings, stairways, and shafts. ▪ Loading-dock weatherseals ▪ Recessed lighting 	C402.5			<input type="checkbox"/>	<input type="checkbox"/>

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MECHANICAL SYSTEM REQUIREMENTS						
Certification	Responsible design professional certification on plans	C103.1*			<input type="checkbox"/>	<input type="checkbox"/>
Information on construction documents	Include: <ul style="list-style-type: none"> ▪ System design criteria ▪ Equipment type, capacity and efficiency ▪ System controls ▪ Fan motor hp and controls ▪ Duct sealing ▪ Duct and pipe insulation and location 	C103.2			<input type="checkbox"/>	<input type="checkbox"/>
Mechanical system commissioning	For buildings with ≥ 480 kBtu/hr cooling capacity: <ul style="list-style-type: none"> ▪ Include construction document notes indicating commissioning requirements ▪ Provide evidence of commissioning prior to final inspection. 	C408.2			<input type="checkbox"/>	<input type="checkbox"/>
HVAC equipment performance	Tables C403.2.3(1) - C403.2.3(9)	C403.2.3			<input type="checkbox"/>	<input type="checkbox"/>

Component/System	Requirement	Code Section	Describe Proposed Design (Indicate performance values, exceptions applied, notes to reviewer, etc.)	Indicate Plan Sheet	Complies	N/A
HVAC system controls	<ul style="list-style-type: none"> ▪ Thermostatic controls ▪ Off-hour controls ▪ Door switches for guest-rooms* ▪ Shutoff dampers ▪ Zone isolation 	C403.2.4			<input type="checkbox"/>	<input type="checkbox"/>
Ventilation	<ul style="list-style-type: none"> ▪ Outdoor air ventilation per IMC ▪ Demand controlled ventilation ▪ Parking garage ventilation control ▪ Energy recovery ▪ Kitchen exhaust systems 	C403.2.6			<input type="checkbox"/>	<input type="checkbox"/>
Duct and plenum insulation	<ul style="list-style-type: none"> ≥ R-6 in unconditioned space ≥ R-8 outdoors 	C403.2.9			<input type="checkbox"/>	<input type="checkbox"/>
Duct and plenum sealing	Sealed per IMC	C403.2.9			<input type="checkbox"/>	<input type="checkbox"/>
Piping insulation	Minimum thickness per table C403.2.10	C403.2.10			<input type="checkbox"/>	<input type="checkbox"/>
HVAC fans	When fan motors' total hp ≥ 5hp <ul style="list-style-type: none"> ▪ Allowable fan horsepower ▪ Motor nameplate horsepower ▪ Fan efficiency 	C403.2.12			<input type="checkbox"/>	<input type="checkbox"/>
Refrigeration systems	<ul style="list-style-type: none"> ▪ Refrigeration equipment performance ▪ Walk-in coolers, walk-in freezers, refrigerated warehouse coolers and freezers ▪ Refrigerated display cases ▪ Condenser requirements ▪ Compressor requirements 	C403.2.14, C403.2.15, C403.2.16, C403.5			<input type="checkbox"/>	<input type="checkbox"/>
Multiple-zone system fan control	<ul style="list-style-type: none"> ▪ Two-stage or variable airflow control ▪ Static pressure sensor location ▪ Static pressure reset control 	C403.4.1			<input type="checkbox"/>	<input type="checkbox"/>
Hydronic system controls	<ul style="list-style-type: none"> ▪ Part-load controls for systems ≥500kBtu/hr ▪ Pump isolation with multiple chillers or boilers 	C403.4.2			<input type="checkbox"/>	<input type="checkbox"/>

Component/System	Requirement	Code Section	Describe Proposed Design (Indicate performance values, exceptions applied, notes to reviewer, etc.)	Indicate Plan Sheet	Complies	N/A
Heat rejection equipment fan speed control	<ul style="list-style-type: none"> ▪ Speed control for cooling tower fans ≥ 7.5 hp ▪ Multiple-cell cooling tower fan control ▪ Limitation on centrifugal fan open-circuit cooling towers ▪ Tower flow turndown 	C403.4.3			<input type="checkbox"/>	<input type="checkbox"/>
Multiple-zone systems	<ul style="list-style-type: none"> ▪ Variable air flow ▪ ECM motors for 1/12 hp - 1 hp ▪ Supply air temperature reset control ▪ Ventilation optimization control 	C403.4.4			<input type="checkbox"/>	<input type="checkbox"/>
Heat recovery for service water heating	Condenser heat recovery for systems operating 24 hr/day with water-cooled cooling capacity $\geq 6,000$ kBtu/hr and service water heating load $\geq 1,000$ kBtu/hr	C403.4.5			<input type="checkbox"/>	<input type="checkbox"/>
Hot gas bypass	Not allowed except under specific conditions	C403.4.6			<input type="checkbox"/>	<input type="checkbox"/>

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SERVICE WATER HEATING REQUIREMENTS						
Certification	Responsible design professional certification on plans	C103.1*			<input type="checkbox"/>	<input type="checkbox"/>
Information on construction documents	Include <ul style="list-style-type: none"> Water heating equipment type, size and efficiency System controls Pipe insulation and location 	C103.2			<input type="checkbox"/>	<input type="checkbox"/>
System commissioning	For buildings with $\geq 600\text{kBtu/hr}$ combined space heating and service water heating capacity: <ul style="list-style-type: none"> Include construction document notes indicating commissioning requirements Provide evidence of commissioning prior to final inspection. 	C408.2			<input type="checkbox"/>	<input type="checkbox"/>
Service water-heating equipment efficiency	Efficiency per Table C404.2	C404.2			<input type="checkbox"/>	<input type="checkbox"/>
Heat traps	For non-circulating systems provide equipment with integral heat traps or provide heat traps on supply and discharge piping.	C404.3			<input type="checkbox"/>	<input type="checkbox"/>

Component/System	Requirement	Code Section	Describe Proposed Design (Indicate performance values, exceptions applied, notes to reviewer, etc.)	Indicate Location on Plans	Complies	N/A
Pipe insulation	Insulation thickness per Table C403.2.10: <ul style="list-style-type: none"> ▪ 1" for pipes <1½" diameter ▪ 1½" for pipes ≥1½" diameter Circulating systems: all supply pipe. Non-circulating storage systems: first 8 ft from tank (or from tank to heat trap) on inlet and outlet.	C404.4			<input type="checkbox"/>	<input type="checkbox"/>
Maximum supply pipe length/volume	Table C404.5.1 lists maximum hot water supply pipe length or volume, which varies with pipe diameter.	C404.5			<input type="checkbox"/>	<input type="checkbox"/>
Circulation system controls	Automatic controls to start pump based on demand and to automatically shut off pump based on temperature and on lack of demand	C404.6.1			<input type="checkbox"/>	<input type="checkbox"/>
Pool and spas	Readily accessible on/off switch No continuous pilot light Time switch for heater and pumps Pool covers required, except with >70% site-recovered heat	C404.9			<input type="checkbox"/>	<input type="checkbox"/>

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LIGHTING AND ELECTRICAL REQUIREMENTS						
Certification	Responsible design professional certification on plans	C103.1*			<input type="checkbox"/>	<input type="checkbox"/>
Information on construction documents	Include <ul style="list-style-type: none"> ▪ Lighting fixture schedule with input power ▪ Lighting control narrative ▪ Location of daylight zones on floor plans 	C103.2			<input type="checkbox"/>	<input type="checkbox"/>
Lighting system functional testing	Prior to final inspection the registered design professional provides evidence of testing. <ul style="list-style-type: none"> ▪ Occupant sensor controls ▪ Time-switch controls ▪ Daylight responsive controls Construction documents specify that certification documents be provided to the owner within 90 days of certificate of occupancy.	C408.3			<input type="checkbox"/>	<input type="checkbox"/>
Dwelling unit lighting	Lighting equipment ≥75% high efficacy lamps	R404.1			<input type="checkbox"/>	<input type="checkbox"/>

Component/System	Requirement	Code Section	Describe Proposed Design (Indicate performance values, exceptions applied, notes to reviewer, etc.)	Indicate Location on Plans	Complies	N/A
Controls - occupant sensor	Required in many specific spaces. Manual-on type required in most cases.	C405.2.1			<input type="checkbox"/>	<input type="checkbox"/>
Controls - time-switch	Required where occupant sensors are not used. Specific spaces allowed to use light-reduction controls as an alternative.	C405.2.2			<input type="checkbox"/>	<input type="checkbox"/>
Controls - daylight-responsive	Required in spaces with $\geq 150W$ of lighting within daylight zones. Some exceptions, such as patient care areas and dwelling units. Definitions provided for sidelight and toplight daylight zones.	C405.2.3			<input type="checkbox"/>	<input type="checkbox"/>
Controls – display & accent lighting	Display lighting, accent lighting and display-case lighting controlled separately from general lighting.	C405.2.4			<input type="checkbox"/>	<input type="checkbox"/>
Controls – guest rooms	Hotel, motel, and timeshare sleeping units and guest suites have master control to automatically switch off luminaires and switched receptacles within 20 minutes after all occupants leave the room	C405.2.4*			<input type="checkbox"/>	<input type="checkbox"/>
Exit signs	≤ 5 watts per face	C405.3			<input type="checkbox"/>	<input type="checkbox"/>
Total connected interior lighting power	Includes input power for all proposed luminaires. Some exceptions apply. Special cases: <ul style="list-style-type: none"> ▪ Screw-in luminaires. Rated luminaire power (not the lamp power) ▪ Low-voltage lighting. Power rating of the transformer (not the lamp power) ▪ Line-voltage track lighting. Input power for the proposed luminaire power (but not less than 30 W/linear foot) or the power of the circuit breaker or other current-limiting device. 	C405.4.1			<input type="checkbox"/>	<input type="checkbox"/>

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Interior lighting power allowance	Total connected power shall be no greater than allowance. Two calculation methods for allowance: <ul style="list-style-type: none"> ▪ Building area method ▪ Space-by-space method (includes extra allowance for retail and decorative lighting) 	C405.4.2			<input type="checkbox"/>	<input type="checkbox"/>
Exterior lighting controls	Photo cell and time-based control required. <ul style="list-style-type: none"> ▪ For façade and landscape lighting, automatic on/off off-hour required. ▪ Otherwise, automatic reduction ≥30% required during off-hours. ▪ Some exceptions apply. 	C405.2.5			<input type="checkbox"/>	<input type="checkbox"/>
Exterior building lighting power	Maximum allowed power listed in Table C405.5.2(2) includes: <ul style="list-style-type: none"> ▪ Base allowance ▪ Tradeable allowance ▪ Non-tradeable allowance Allowances vary by lighting zone per Table C405.5.2(1)	C405.5			<input type="checkbox"/>	<input type="checkbox"/>
Electricity meters	Each dwelling unit in R-2 building has a separate electric meter.	C405.6			<input type="checkbox"/>	<input type="checkbox"/>
Electrical transformers	Electric transformers meet efficiency requirements of Table C405.7. Some exceptions apply.	C405.7			<input type="checkbox"/>	<input type="checkbox"/>
Electrical motors	Electric motors meet the efficiency requirements of Tables C405.8(1)-(4)	C405.8			<input type="checkbox"/>	<input type="checkbox"/>
Vertical and horizontal transportation systems	<ul style="list-style-type: none"> ▪ Elevator cab lighting ≥35 lumens/watt. ▪ Elevator cab fan ≤0.33 W/cfm. ▪ Escalator and moving walkway automatic speed control. ▪ Escalator regenerative drive. 	C405.9			<input type="checkbox"/>	<input type="checkbox"/>

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Electrical sub-metering	In new buildings with tenants, metering shall be collected for the entire building and individually for each tenant occupying $\geq 1,000$ ft ² (total enclosed and unenclosed). Tenants shall have access to data collected for their space.	C405.10*			<input type="checkbox"/>	<input type="checkbox"/>

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ADDITIONAL EFFICIENCY PACKAGE OPTIONS						
Requirements	Project must meet at least one of the following requirements.	C406.1			<input type="checkbox"/>	<input type="checkbox"/>
More efficient HVAC equipment	<ul style="list-style-type: none"> ▪ 10% better than minimum efficiency 	C406.2			<input type="checkbox"/>	<input type="checkbox"/>
Reduced lighting power density	<ul style="list-style-type: none"> ▪ 10% lower allowed lighting power 	C406.3			<input type="checkbox"/>	<input type="checkbox"/>
Enhanced digital lighting controls	<ul style="list-style-type: none"> ▪ Continuous dimming and digitally-addressable luminaires 	C406.4			<input type="checkbox"/>	<input type="checkbox"/>
On-site renewable energy	<ul style="list-style-type: none"> ▪ ≥ 0.5 W/ft², or $\geq 3\%$ of mechanical, water heating and lighting energy. 	C406.5			<input type="checkbox"/>	<input type="checkbox"/>
Dedicated outdoor air system	<ul style="list-style-type: none"> ▪ For multiple-zone systems, include independent system with total heat recovery to condition ventilation air. 	C406.6			<input type="checkbox"/>	<input type="checkbox"/>
Reduced energy in service water heating system	<ul style="list-style-type: none"> ▪ For specific building types, $\geq 60\%$ solar or waste heat recovery for water heating. 	C406.7			<input type="checkbox"/>	<input type="checkbox"/>



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ADDITIONS						
General	Requirements for new construction apply to additions. Unaltered portions of the existing building are not required to comply.	C502.1			<input type="checkbox"/>	<input type="checkbox"/>
Windows – maximum area	<ul style="list-style-type: none"> Total building window area including addition ≤ 30% of gross wall area Or, window area in addition alone ≤ 30% of gross added wall area (≤ 40% when meeting daylighting requirements) 	C502.2.1			<input type="checkbox"/>	<input type="checkbox"/>
Window – U-factor and SHGC	Same as new construction. See envelope checklist	C502.2.1			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – maximum area	<ul style="list-style-type: none"> Total building skylight area including addition ≤ 3% of gross roof area Or, skylight area in addition alone ≤ 3% of gross roof area (≤ 5% when meeting daylighting requirements) 	C502.2.2			<input type="checkbox"/>	<input type="checkbox"/>
Skylight – U-factor and SHGC	Same as new construction. See envelope checklist	C502.2.2			<input type="checkbox"/>	<input type="checkbox"/>

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Mechanical systems	Requirements for new systems and equipment serving additions are the same as for new construction. See the mechanical checklist.	C502.2.3			<input type="checkbox"/>	<input type="checkbox"/>
Service water heating	Requirements for new equipment, controls and piping serving additions are the same as for new construction. See the service water heating checklist.	C502.2.4			<input type="checkbox"/>	<input type="checkbox"/>
Pools and spas	Requirements for new pools and in-ground spas are the same as for new construction. See the service water heating checklist.	C502.2.5			<input type="checkbox"/>	<input type="checkbox"/>
Interior lighting	Requirements for lighting systems in additions are the same as for new construction. See the lighting checklist. Interior lighting power options: <ul style="list-style-type: none"> ▪ Addition alone complies ▪ Addition + existing building complies 	C502.2.6 C502.2.6.1			<input type="checkbox"/>	<input type="checkbox"/>
Exterior lighting	Requirements for exterior lighting systems for additions are the same as for new construction. See the lighting checklist. Exterior lighting power options: <ul style="list-style-type: none"> ▪ Addition alone complies ▪ Addition + existing building complies 	C502.2.6 C502.2.6.1			<input type="checkbox"/>	<input type="checkbox"/>



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ALTERATIONS						
General	New-construction requirements apply to altered portions of the building. Unaltered portions are not required to comply.	C503.1			<input type="checkbox"/>	<input type="checkbox"/>
Change in space conditioning	Full compliance is required for previously unconditioned spaces that are altered to become conditioned	C503.2			<input type="checkbox"/>	<input type="checkbox"/>
Roof	No requirement: <ul style="list-style-type: none"> ▪ Roof recover ▪ Ceiling/roof cavity not exposed New-construction requirements: <ul style="list-style-type: none"> ▪ New roof ▪ Roof replacement where insulation is above deck ▪ Alteration where ceiling/roof cavity is exposed (exception if cavity is filled with insulation) 	C503.1 C503.3.1			<input type="checkbox"/>	<input type="checkbox"/>
Wall	No requirement: <ul style="list-style-type: none"> ▪ Wall cavity is not exposed New-construction requirements: <ul style="list-style-type: none"> ▪ Wall cavity is exposed (exception if cavity is filled with insulation) 	C503.1			<input type="checkbox"/>	<input type="checkbox"/>

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Windows – maximum area	<ul style="list-style-type: none"> ▪ Total building window area after added windows ≤ 30% of gross wall area ▪ Or, window area in space with added windows alone ≤ 30% of gross wall area (≤ 40% when meeting daylighting requirements) 	C503.3.2			<input type="checkbox"/>	<input type="checkbox"/>
Window – U-factor and SHGC	Same as new construction. See envelope checklist	C503.3.2			<input type="checkbox"/>	<input type="checkbox"/>
Skylights – maximum area	<ul style="list-style-type: none"> ▪ Total building skylight area after added skylights ≤ 3% of gross roof area ▪ Or, skylight area in space with added skylight(s) alone ≤ 3% of gross roof area (≤ 5% when meeting daylighting requirements) 	C503.3.3			<input type="checkbox"/>	<input type="checkbox"/>
Skylight – U-factor and SHGC	Same as new construction. See envelope checklist	C503.3.3			<input type="checkbox"/>	<input type="checkbox"/>
Mechanical systems	New heating, cooling and duct systems are required to meet new construction requirements.	C503.4			<input type="checkbox"/>	<input type="checkbox"/>
Service water heating systems	New water heating systems are required to meet new construction requirements.	C503.5			<input type="checkbox"/>	<input type="checkbox"/>
Lighting systems	<p>New lighting systems that are part of an alteration are required to meet new construction requirements.</p> <ul style="list-style-type: none"> ▪ Exception if less than 10% of luminaires in a space are replaced and installed lighting power does not increase 				<input type="checkbox"/>	<input type="checkbox"/>