

2020 NOTES FOR ENERGY CODE COMPLIANCE - COMMERCIAL BUILDINGS

BUILDING ENVELOPE REQUIREMENTS AS PER SECTION ECC C402

C402.4.1 MAXIMUM AREA OF VERTICAL FENESTRATION
THE VERTICAL FENESTRATION AREA (NOT INCLUDING OPAQUE DOORS AND OPAQUE SPANDREL PANELS) SHALL NOT BE GREATER THAN 30 PERCENT OF THE GROSS ABOVE-GRADE WALL AREA. THE SKYLIGHT AREA SHALL NOT BE GREATER THAN 3 PERCENT OF THE GROSS ROOF AREA.

C402.5 AIR LEAKAGE—THERMAL ENVELOPE
THE THERMAL ENVELOPE OF BUILDINGS SHALL COMPLY WITH SECTIONS C402.5.1 THROUGH C402.5.8, OR THE BUILDING THERMAL ENVELOPE SHALL BE TESTED IN ACCORDANCE WITH ASTM E 779 AT A PRESSURE DIFFERENTIAL OF 0.3 INCH WATER GAUGE (75 PA) OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL, AND DEEMED TO COMPLY WITH THE PROVISIONS OF THIS SECTION WHEN THE TESTED AIR LEAKAGE RATE OF THE BUILDING THERMAL ENVELOPE IS NOT GREATER THAN 0.40 CFM/F150 (L/S-M2) WHERE COMPLIANCE IS BASED ON SUCH TESTING. THE BUILDING SHALL ALSO COMPLY WITH SECTIONS C402.5.3, C402.5.6 AND C402.5.7.

C402.5.1 AIR BARRIERS
A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE. THE AIR BARRIERS SHALL BE PERMITTED TO BE LOCATED ON THE INSIDE OR OUTSIDE OF THE BUILDING ENVELOPE, LOCATED WITHIN THE ASSEMBLIES COMPOSING THE ENVELOPE, OR ANY COMBINATION THEREOF. THE AIR BARRIER SHALL COMPLY WITH SECTIONS C402.5.1.1 AND C402.5.1.2.
EXCEPTION: AIR BARRIERS ARE NOT REQUIRED IN BUILDINGS LOCATED IN CLIMATE ZONES.

C402.5.1.1 AIR BARRIER CONSTRUCTION
THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:
1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
2. AIR BARRIERS, JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. THE JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.
3. PENETRATIONS OF THE AIR BARRIER SHALL BE CALKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEALS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SHALL BE APPROPRIATE TO THE CONSTRUCTION MATERIALS BEING SEALED AND SHALL BE SECURELY INSTALLED AND THE PENETRATION SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CALKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILING.
4. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH SECTION C402.5.8. OTHER SIMILAR OBJECTS ARE INSTALLED THAT PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.

C402.5.1.2 AIR BARRIER COMPLIANCE OPTIONS
A CONTINUOUS AIR BARRIER FOR THE OPAQUE BUILDING ENVELOPE SHALL COMPLY WITH SECTION C402.5.1.2.1 OR C402.5.1.2.2.

C402.5.1.2.1 MATERIALS
MATERIALS WITH AN AIR PERMEABILITY NOT GREATER THAN 0.004 CFM/F120 (0.02 L/S-M2) UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCH WATER GAUGE (75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E 2178 SHALL COMPLY WITH THIS SECTION. MATERIALS IN ITEMS 1 THROUGH 16 SHALL BE DEEMED TO COMPLY WITH THIS SECTION, PROVIDED JOINTS ARE SEALED AND MATERIALS ARE INSTALLED AS AIR BARRIERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- PLYWOOD WITH A THICKNESS OF NOT LESS THAN 3/8 INCH (10 MM),
- ORIENTED STRAND BOARD HAVING A THICKNESS OF NOT LESS THAN 3/8 INCH (10 MM),
- EXTRUDED POLYSTYRENE INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2 INCH (12.7 MM),
- FOLK-BACK POLYISOCYANURATE INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2 INCH (12.7 MM),
- CLOSE-CELL SPRAY FOAM A MINIMUM DENSITY OF 1.5 PCF (2.4 KG/M3) HAVING A THICKNESS OF NOT LESS THAN 1 1/2 INCHES (38 MM),
- OPEN-CELL SPRAY FOAM WITH A DENSITY BETWEEN 0.4 AND 1.5 PCF (0.6 AND 2.4 KG/M3) AND HAVING A THICKNESS OF NOT LESS THAN 4.5 INCHES (113 MM),
- EXTERIOR OR INTERIOR GYPSUM BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2 INCH (12.7 MM),
- CEMENT BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2 INCH (12.7 MM),
- BUILT-UP ROOFING MEMBRANE,
- MOISTURE RESISTANT ROOF MEMBRANE,
- FULLY ADHERED SINGLE-PLY ROOF MEMBRANE,
- A PORTLAND CEMENT/SAND PARGE, OR GYPSUM PLASTER HAVING A THICKNESS OF NOT LESS THAN 5/8 INCH (15.9 MM),
- CAST-IN-PLACE AND PRECAST CONCRETE,
- FULLY GROUTED CONCRETE BLOCK MASONRY,
- SHEET STEEL OR ALUMINUM,
- SOLID OR HOLLOW MASONRY CONSTRUCTED OF CLAY OR SHALE MASONRY UNITS.

C402.5.1.2.2 ASSEMBLIES
ASSEMBLIES OF MATERIALS AND COMPONENTS WITH AN AVERAGE AIR LEAKAGE NOT GREATER THAN 0.04 CFM/F120 (0.2 L/S-M2) UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCH OF WATER GAUGE (75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E 2397, ASTM E 1077 OR ASTM E 283 SHALL COMPLY WITH THIS SECTION. ASSEMBLIES LISTED IN ITEMS 1 THROUGH 3 SHALL BE DEEMED TO COMPLY, PROVIDED JOINTS ARE SEALED AND THE REQUIREMENTS OF SECTION C402.5.1.1 ARE MET.

- CONCRETE MASONRY WALLS COATED WITH EITHER ONE APPLICATION OF BLOCK FILLER OR TWO APPLICATIONS OF A PAINT OR SEALER COATING.
- MASONRY WALLS CONSTRUCTED OF CLAY OR SHALE MASONRY UNITS WITH A NOMINAL WIDTH OF 4 INCHES (102 MM) OR MORE.
- A PORTLAND CEMENT/SAND PARGE, STUCCO OR PLASTER NOT LESS THAN 1/2 INCH (12.7 MM) IN THICKNESS.

C402.5.2 AIR LEAKAGE OF FENESTRATION
THE AIR LEAKAGE OF FENESTRATION ASSEMBLIES SHALL MEET THE PROVISIONS OF TABLE C402.5.2. TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REFERENCE TEST STANDARD IN TABLE C402.5.2 BY AN ACCREDITED, INDEPENDENT TESTING LABORATORY AND LABELED BY THE MANUFACTURER.

EXCEPTIONS:
1. FIELD-FABRICATED FENESTRATION ASSEMBLIES THAT ARE SEALED IN ACCORDANCE WITH SECTION C402.5.1.
2. FENESTRATION IN BUILDINGS THAT COMPLY WITH THE TESTING ALTERNATIVE OF SECTION C402.5.9 ARE NOT REQUIRED TO MEET THE AIR LEAKAGE REQUIREMENTS IN TABLE C402.5.2.

C402.5.3 AIR INTAKES, EXHAUST OPENINGS, STAIRWAYS AND SHAFTS
STAIRWAY ENCLOSURE, ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE PROVIDED WITH DAMPERS IN ACCORDANCE WITH SECTION C403.2.4.3.

C402.5.7 VESTIBULES
BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES. VESTIBULES SHALL BE DESIGNED SO THAT IN PASSING THROUGH THE VESTIBULE IT IS NOT NECESSARY FOR THE INTERIOR AND EXTERIOR DOORS TO OPEN AT THE SAME TIME. THE INSTALLATION OF ONE OR MORE REVOLVING DOORS IN THE BUILDING ENTRANCE SHALL NOT ELIMINATE THE REQUIREMENT THAT A VESTIBULE BE PROVIDED ON ANY DOORS ADJACENT TO REVOLVING DOORS.

EXCEPTIONS:
VESTIBULES ARE NOT REQUIRED FOR THE FOLLOWING:
1. BUILDINGS IN CLIMATE ZONES 1 AND 2.
2. DOORS NOT INTENDED TO BE USED BY THE PUBLIC, SUCH AS DOORS TO MECHANICAL OR ELECTRICAL EQUIPMENT ROOMS, OR INTENDED SOLELY FOR EMPLOYEE USE.
3. DOORS OPENING DIRECTLY FROM A SLEEPING UNIT OR DWELLING UNIT.
4. DOORS THAT OPEN DIRECTLY FROM A SPACE LESS THAN 3,000 SQUARE FEET (278.7 M2) IN AREA, IN BUILDINGS LESS THAN 75 FEET (22.86 M) IN HEIGHT, AND DOORS THAT OPEN DIRECTLY FROM A SPACE LESS THAN 1,000 SQUARE FEET (92.9 M2) IN AREA, IN BUILDINGS 75 FEET (22.86 M) AND GREATER IN HEIGHT.
5. REVOLVING DOORS.
6. DOORS USED PRIMARILY TO FACILITATE VEHICULAR MOVEMENT OR MATERIAL HANDLING AND ADJACENT PERSONNEL DOORS.
7. DOORS THAT HAVE AN AIR CURTAIN WITH A VELOCITY OF NOT LESS THAN 450 FEET PER SECOND (138 M/S) AT THE FLOOR THAT HAVE BEEN TESTED IN ACCORDANCE WITH ANSI/ASHRAE 220 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUAL OR AUTOMATIC CONTROLS SHALL BE PROVIDED THAT WILL OPERATE THE AIR CURTAIN WITH THE OPENING AND CLOSING OF THE DOOR, AIR CURTAINS AND THEIR CONTROLS SHALL COMPLY WITH SECTION C403.2.3.

C402.5.8 RECESSED LIGHTING
RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE ALL OF THE FOLLOWING:
1. IC-RATED.
2. LABELED AS HAVING AN AIR LEAKAGE RATE OF NOT MORE 2.0 CFM (0.84 L/S) WHEN TESTED IN ACCORDANCE WITH ASTM E 283 AT A 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL.
3. SEALED WITH A GASKET OR CALK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

ELECTRICAL POWER AND LIGHTING SYSTEMS REQUIREMENTS AS PER SECTION ECC C405

C405.1 GENERAL
THIS SECTION COVERS LIGHTING SYSTEM CONTROLS, THE MAXIMUM LIGHTING POWER FOR INTERIOR AND EXTERIOR APPLICATIONS AND ELECTRICAL ENERGY CONSUMPTION.

EXCEPTION:
OVERHEAD LIGHTING UNITS WITHIN COMMERCIAL BUILDINGS SHALL NOT BE REQUIRED TO COMPLY WITH SECTIONS C405.2 THROUGH C405.6, PROVIDED THAT THEY COMPLY WITH SECTION 9404.1.
WALK-IN COOLERS, WALK-IN FREEZERS, REFRIGERATED WAREHOUSE COOLERS AND REFRIGERATED WAREHOUSE FREEZERS SHALL COMPLY WITH SECTION C403.2.15 OR C403.2.16.

C405.2 LIGHTING CONTROLS
LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS SPECIFIED IN SECTIONS C405.2.1, C405.2.2, C405.2.3, C405.2.4 AND C405.2.5. LIGHTING CONTROLS SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C406.3.

EXCEPTIONS:
LIGHTING CONTROLS ARE NOT REQUIRED FOR THE FOLLOWING:
1. AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT ARE REQUIRED TO BE CONTINUOUSLY LIGHTED.
2. INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS.
3. EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.

C405.2.1 OCCUPANT SENSOR CONTROLS
OCCUPANT SENSOR CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTS IN THE FOLLOWING SPACE TYPES:
1. CLASSROOMS/LECTURE/TRAINING ROOMS.
2. CONFERENCE/MEETING/SMALL TYPE ROOMS.
3. COPY/PRINT ROOMS.
4. LOUNGES.
5. EMPLOYEE LUNCH AND BREAK ROOMS.
6. PRIVATE OFFICES.
7. RESTROOMS.
8. STORAGE ROOMS.
9. JANITORIAL CLOSETS.
10. LOCKER ROOMS.
11. OTHER SPACES 300 SQUARE FEET (28 M2) OR LESS THAT ARE ENCLOSED BY FLOOR-TO-CEILING HEIGHT PARTITIONS.
12. WAREHOUSES.
13. OPEN PLAN OFFICES.

C405.2.1.1 OCCUPANT SENSOR CONTROL FUNCTION
OCCUPANT SENSOR CONTROLS IN SPACES OTHER THAN WAREHOUSES SPECIFIED IN SECTION C405.2.1 SHALL COMPLY WITH THE FOLLOWING:
1. AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
2. BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER.

EXCEPTIONS:
1. FULL AUTOMATIC-ON CONTROLS SHALL BE PERMITTED TO CONTROL LIGHTING IN OPEN PLAN OFFICES, PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL-ON OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.
2. MANUAL ON CONTROLS SHALL BE REQUIRED FOR CLASSROOMS (NOT INCLUDING SHORT CLASSROOMS, LABORATORY CLASSROOMS, AND PRESCHOOL CLASSROOMS), CONFERENCE/MEETING ROOMS, EMPLOYEE LUNCH AND BREAK ROOMS, AND OFFICES SMALLER THAN 200 SQUARE FEET (18.6 M2) IN AREA, SUCH SENSORS AND CONTROLS SHALL NOT HAVE AN OVERRIDE SWITCH THAT CONVERTS FROM MANUAL-ON TO AUTOMATIC-ON FUNCTIONALITY, AND MAY HAVE A GRACE PERIOD OF UP TO 30 SECONDS TO TURN ON THE LIGHTING AUTOMATICALLY AFTER THE SENSOR HAS TURNED OFF THE LIGHTING IF OCCUPANCY IS DETECTED.
3. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF.

C405.2.1.2 OCCUPANT SENSOR CONTROL FUNCTION IN WAREHOUSES
IN WAREHOUSES, THE LIGHTING IN AISLEWAYS AND OPEN AREAS SHALL BE CONTROLLED THROUGH OCCUPANT SENSORS THAT AUTOMATICALLY REDUCE LIGHTING POWER BY NOT LESS THAN 50 PERCENT WHEN THE AREAS ARE UNOCCUPIED. THE OCCUPANT SENSORS SHALL CONTROL LIGHTING IN EACH AISLEWAY INDEPENDENTLY AND SHALL NOT CONTROL LIGHTING BEYOND THE AISLEWAY BEING CONTROLLED BY THE SENSOR.

C405.2.2 TIME-SWITCH CONTROLS
EACH AREA OF THE BUILDING THAT IS NOT PROVIDED WITH OCCUPANT SENSOR CONTROLS COMPLYING WITH SECTION C405.2.1.1 SHALL BE PROVIDED WITH TIME SWITCH CONTROLS COMPLYING WITH SECTION C405.2.2.1.
EXCEPTION:
WHERE A MANUAL CONTROL PROVIDES LIGHT REDUCTION IN ACCORDANCE WITH SECTION C405.2.2.2, AUTOMATIC CONTROLS SHALL NOT BE REQUIRED FOR THE FOLLOWING:
1. SLEEPING UNITS.
2. SPACES WHERE PATIENT CARE IS DIRECTLY PROVIDED.
3. SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
4. LIGHTING INTENDED FOR CONTINUOUS OPERATION.
5. SHOP AND LABORATORY CLASSROOMS.

C405.2.2.1 TIME-SWITCH CONTROL FUNCTION
EACH SPACE PROVIDED WITH TIME-SWITCH CONTROLS SHALL ALSO BE PROVIDED WITH A MANUAL CONTROL FOR LIGHT REDUCTION IN ACCORDANCE WITH SECTION C405.2.2.2. TIME-SWITCH CONTROLS SHALL INCLUDE AN OVERRIDE SWITCHING DEVICE THAT COMPLES WITH THE FOLLOWING:
1. HAVE A MINIMUM 7-DAY CLOCK.
2. BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
3. INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR AT LEAST 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.
4. HAVE PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR AT LEAST 10 HOURS, IF POWER IS INTERRUPTED.
5. INCLUDE AN OVERRIDE SWITCH THAT COMPLES WITH THE FOLLOWING:
5.1. THE OVERRIDE SWITCH SHALL BE A MANUAL CONTROL.
5.2. THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS.
5.3. ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR AN AREA NOT LARGER THAN 5,000 SQUARE FEET (465 M2).

EXCEPTIONS:
1. WITHIN WALLS, ARCADES, AUDITORIUMS, SINGLE-TENANT RETAIL SPACES, INDUSTRIAL FACILITIES AND ARENAS:
1.1. THE TIME LIMIT SHALL BE PERMITTED TO BE GREATER THAN 2 HOURS, PROVIDED THAT THE OVERRIDE SWITCH IS A CAPTIVE KEY DEVICE.
1.2. THE AREA CONTROLLED BY THE OVERRIDE SWITCH IS PERMITTED TO BE GREATER THAN 5,000 SQUARE FEET (465 M2), BUT SHALL NOT BE GREATER THAN 20,000 SQUARE FEET (1860 M2).
2. WHERE PROVIDED WITH MANUAL CONTROL, THE FOLLOWING AREAS ARE NOT REQUIRED TO HAVE LIGHT REDUCTION CONTROL:
2.1. SPACES THAT HAVE ONLY ONE LUMINAIRE WITH A RATED POWER OF LESS THAN 100 WATTS.
2.2. SPACES THAT USE LESS THAN 0.5 WATTS PER SQUARE FOOT (6.5 W/M2).
2.3. CORRIDORS, EQUIPMENT ROOMS, PUBLIC LOBBIES, ELECTRICAL OR MECHANICAL ROOMS.

C405.2.2.2 LIGHT-REDUCTION CONTROLS
SPACES REQUIRED TO HAVE LIGHT-REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING OR ANOTHER APPROVED METHOD:
1. CONTROLLING ALL LAMPS OR LUMINAIRES.
2. DUAL SWITCHING OR ALTERNATE ROWS OF LUMINAIRES ALTERNATE LUMINAIRES OR ALTERNATE LAMPS.
3. SWITCHING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS.
4. SWITCHING EACH LUMINAIRE OR EACH LAMP.

EXCEPTION:
LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C405.2.3.

C405.2.2.3 MANUAL CONTROLS
MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:
1. SHALL BE READILY ACCESSIBLE TO OCCUPANTS.
2. SHALL BE LOCATED WHERE THE CONTROLLED LIGHTS ARE VISIBLE, OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHTS AND INDICATE THEIR STATUS.

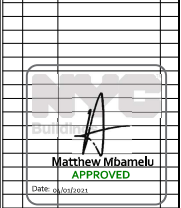
C405.2.4 SPECIFIC APPLICATION CONTROLS
SPECIFIC APPLICATION CONTROLS SHALL BE PROVIDED FOR THE FOLLOWING:
1. DISPLAY AND ADJACENT LIGHT SHALL BE CONTROLLED BY A DEDICATED CONTROL THAT IS INDEPENDENT OF THE CONTROLS FOR OTHER LIGHTING WITHIN THE ROOM OR SPACE.
2. LIGHTING IN CASES USED FOR DISPLAY CASE PURPOSES SHALL BE CONTROLLED BY A DEDICATED CONTROL THAT IS INDEPENDENT OF THE CONTROLS FOR OTHER LIGHTING WITHIN THE ROOM OR SPACE.
3. HOTEL AND MOTEL SLEEPING UNITS AND GUEST SUITES SHALL HAVE A MASTER CONTROL DEVICE THAT IS CAPABLE OF AUTOMATICALLY SWITCHING OFF ALL INSTALLED LUMINAIRES AND SWITCHED RECEPTACLES WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE ROOM.

EXCEPTION:
LIGHTING AND SWITCHED RECEPTACLES CONTROLLED BY CAPTIVE KEY SYSTEMS.
4. SUPPLEMENTAL TASK LIGHTING, INCLUDING PERMANENTLY INSTALLED UNDER-SHELF OR UNDER-CABINET LIGHTING, SHALL HAVE A CONTROL DEVICE INTEGRAL TO THE LUMINAIRE OR BE CONTROLLED BY A WALL-MOUNTED CONTROL DEVICE PROVIDED THAT THE CONTROL DEVICE IS READILY ACCESSIBLE.
5. LIGHTING FOR NON-VISUAL APPLICATIONS, SUCH AS PLANT GROWTH AND FOOD WARMING, SHALL BE CONTROLLED BY A DEDICATED CONTROL THAT IS INDEPENDENT OF THE CONTROLS FOR OTHER LIGHTING WITHIN THE ROOM OR SPACE.
6. LIGHTING EQUIPMENT THAT IS FOR SALE OR FOR DEMONSTRATIONS IN LIGHTING EDUCATION SHALL BE CONTROLLED BY A DEDICATED CONTROL THAT IS INDEPENDENT OF THE CONTROLS FOR OTHER LIGHTING WITHIN THE ROOM OR SPACE.

C405.3 EXIT SIGNS
INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT BE MORE THAN 5 WATTS PER SIDE.



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