ADDENDA

ANSI/ASHRAE/IES Addendum bw to
ANSI/ASHRAE/IES Standard 90.1-2013

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on June 25, 2016; by the ASHRAE Board of Directors on June 29, 2016; by the IES Board of Directors on June 27, 2016; and by the American National Standards Institute on July 26, 2016.

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FOREWORD

Since Addendum bm, which sets a fixed baseline for Appendix G, was introduced several years ago, other changes to Appendix G have occurred in parallel, some in conflict with the Addendum bm approach. One such conflict occurs in establishing a baseline for lighting controls (and thus credit for lighting controls). Addendum bw provides a baseline for lighting controls consistent with Addendum bm. Credit for automatic occupant control of lighting that is not required in the Appendix G baseline is now established with the occupancy control reduction factors listed in Table G3.7. The reduction factors were developed by the SSPC 90.1 Lighting Subcommittee based on a review of all known sources of occupancy sensor savings data, including metered data from multiple case studies as well as collections of data based on combinations of metered data and consensus.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum bw to 90.1-2013

Modify Table G3.1 as follows (I-P and SI):

6. Lighting

Lighting power in the proposed design shall be determined as follows:

a. Where a complete lighting system exists, the actual lighting power for each thermal block shall be used in the model.

b. Where a lighting system has been designed and submitted with design documents, lighting power shall be determined in accordance with Sections 9.1.3 and 9.1.4.

c. Where lighting neither exists nor is submitted with design documents, lighting shall comply with but not exceed the requirements of Chapter 9. Lighting power shall be determined in accordance with the Building Area Method for the appropriate building type.

d. Lighting system power shall include all lighting system components shown or provided for on the plans (including lamps and ballasts and task and furniture-mounted fixtures).

Exception: For multifamily dwelling units, hotel/motel guest rooms, and other spaces in which lighting systems are connected via receptacles and are not shown or provided for on building plans, assume identical lighting power for the proposed and baseline building designs in the simulations.

e. Lighting power for parking garages and building facades shall be modeled.

f. For lighting controls, at a minimum, the proposed building design shall contain the mandatory automatic lighting controls specified in Section 9.4.1 (e.g., automatic daylight responsive controls, occupancy sensors, programmable controls, etc.). These controls shall be modeled in accordance with (g) and (h).

~~The lighting schedules in the proposed building design shall reflect the mandatory automatic lighting control requirements in Section 9.4.1 (e.g., programmable controls or occupancy sensors).~~

~~**Exception:**~~

g. Automatic daylighting responsive controls ~~required by Section 9.4.1~~ shall be modeled directly in the proposed building design or through schedule adjustments determined by a separate daylighting analysis approved by the rating authority. Modeling and schedule adjustments shall separately account for primary

~~a.~~ Interior lighting power in the baseline building design shall be determined using the values in Table G3.7 ~~and the methodology described in Section 9.6.1 and 9.6.2.~~ Lighting shall be modeled having the automatic shutoff controls in buildings >5,000 ft2 and occupancy sensors in employee lunch and break rooms, conference/meeting rooms, and classrooms (not including shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms). These controls shall be reflected in the baseline building design lighting schedules. No additional automatic lighting controls (e.g., automatic controls for daylight utilization and occupancy sensors in space types not listed above) shall be modeled in the *baseline building design* ~~Additional interior lighting power for nonmandatory controls allowed under Section 9.6.2(c) shall not be included in the baseline building design.~~

Exterior lighting in areas identified as Tradable Surfaces in Table G.3.6 shall be modeled with the baseline lighting power shown in Table G.3.6. Other exterior lighting shall be modeled the same in the baseline building as in the proposed design.

~~b. Mandatory automatic lighting controls required by Section 9.4.1 shall be modeled the same as the proposed building design~~.

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sidelighted areas, secondary sidelighted areas, and toplighted areas

~~g.~~ h. Other ~~A~~automatic lighting controls included in the proposed building design ~~but not required by Section 9.4.1~~ ~~may~~ shall be modeled directly in the building simulation ~~or~~ by reducing the lighting schedule each hour by the occupancy sensor reduction factors in Table G3.7 for the applicable space type. This reduction shall be taken only for lighting controlled by the occupancy sensors. Credit for other programmable lighting control in buildings less than 5,000 ft^2 (465 m^2) can be taken by reducing the lighting schedule each hour by 10%.~~be modeled in the building simulation through schedule adjustments determined by a separate analysis approved by the authority having jurisdiction. As an alternative to modeling such lighting controls, the proposed building design lighting power may be reduced by the sum of all additional allowances per Section 9.6.2(c) and Table 9.6.2, which are calculated individually as the lighting power under control multiplied by *cf*, where *cf* is the appropriate control factor given in Table 9.6.2 corresponding to the space type and the lighting controls designed to be used.~~

~~h Credit may be taken for programmable timing controls or occupancy sensors.~~

~~Exception: No credit is allowed for occupancy sensors in employee lunch and break rooms, conference/meeting rooms, and classrooms (not including shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms.)~~

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Modify Table G3.7 as follows (I-P and SI):

TABLE G3.7 Performance Rating Method Lighting Power Densities and Occupancy Sensor Reductions Using the Space-by-Space Method

Common Space Types [a]~~1~~	**LPD (W/ft²)**	**Occupancy Sensor Reduction [b]~~(2)~~**
Audience Seating Area		
... in an auditorium	0.90	10%
... in a convention center	0.70	10%
… in an Exercise Center	0.30	10%
… in a gymnasium	0.40	10%
... in a motion picture theater	1.20	10%
... in a penitentiary	0.70	10%
... in a performing arts theater	2.60	10%
... in a religious building	1.70	10%
... in a sports arena	0.40	10%
… in a transportation facility	0.50	10%
… all other audience seating area	0.90	10%
Atrium		
… that is <= 40' in height	0.0375 per foot in total height	10%
… that is > 40' in height	0.50 + 0.025per foot in total height	10%
Banking Activity Area	1.50	10%
Breakroom (See Lounge/Breakroom)		
Classroom/Lecture Hall/Training Room		
… in a penitentiary	1.30	None
…preschool through 12th grade, laboratory, and shop classrooms	1.40	30%
… otherwise	1.40	None
Conference/Meeting/Multipurpose Room	1.30	None
Confinement Cells	0.90	10%
Copy/Print Room	0.90	10%
Corridor		
… in a facility for the visually impaired (and used primarily by residents)	1.15	25%
… in a hospital	1.00	25%
… in a manufacturing facility	0.50	25%
… otherwise	0.50	25%
Courtroom	1.90	10%
Computer Room	2.14	35%
Dining Area		
… in a penitentiary	1.30	35%
… in a facility for the visually impaired (and used primarily by residents)	3.32	35%
… in Bar/Lounge or Leisure Dining	1.40	35%
… in Cafeteria or Fast Food Dining	0.90	35%
… in Family Dining	2.10	35%
… all other dining room	0.90	35%
Electrical/Mechanical Room	1.50	30%
Emergency Vehicle Garage	0.80	10%
Food Preparation Area	1.20	30%
Guest Room	1.14	45%
Judges Chambers	1.30	30%
Laboratory		
… in or as a classroom	1.40	None
… all other laboratories	1.40	10%
Laundry/Washing Area	0.60	10%
Common Space Types [a]~~1~~	**LPD (W/ft²)**	**Occupancy Sensor Reduction [b]**
Loading Dock, Interior	0.59	10%
Lobby		
… in an Assisted Living Facility (and used primarily by residents)	2.26	25%
… for an elevator	2.26	25%
… in a hotel	0.80	25%
… in a motion picture theater	1.10	25%
… in a performing arts theater	1.10	25%
…all other lobbies	1.30	25%
Locker Room	0.60	25%
Lounge/Breakroom		
… in a healthcare facility	0.80	None
… all other lounge/breakroom	1.20	None
Office		
… enclosed	1.10	30%
… open plan	1.10	15% ~~(3)~~ [c]
Parking Area, Interior	0.20	15%
Pharmacy Area	1.20	10%
Restroom		
… in an Assisted Living Facility (and used primarily by residents)	1.52	45%
… all other restrooms	0.90	45%
Sales Area	1.70	15%
Seating Area, General	0.68	10%
Stairwell	0.60	75%
Storage Room		
… in a hospital	0.90	45%
… that is >= 50 ft²	0.80	45%
… that is < 50 ft²	0.80	45%
Vehicular Maintenance Area	0.70	10%
Workshop	1.90	10%
Building Type Specific Space Types ~~1~~[a]	**LPD (W/ft²)**	**Occupancy Sensor Reduction [b]**
Assisted Living Facility		
… in a chapel (used primarily by residents)	2.77	10%
… in a recreation room (used primarily by residents)	3.02	10%
Automotive (See Vehicular Maintenance Area above)		10%
Convention Center – Exhibit Space	1.30	35%

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Dormitory - Living Quarters	1.11	10%
Fire Station - Sleeping Quarters	0.30	10%
Gymnasium/Fitness Center		
… in an Exercise Area	0.90	35%
… in a Playing Area	1.40	35%

Building Type Specific Space Types a~~1~~	**LPD (W/ft²)**	**Occupancy Sensor Reduction b**
Healthcare Facility		
… in an Imaging Room	2.70	10%
… in an Exam/Treatment Room	1.50	10%
~~… in an Imaging Room~~	~~0.40~~	~~22%~~
….in a Medical Supply Room	1.40	45%
… in a Nursery	0.60	10%
… in a Nurse's Station	1.00	10%
… in an Operating Room	2.20	10%
… in a Patient Room	0.70	10%
… in a Physical Therapy Room	0.90	10%
… in a Recovery Room	0.80	10%
Library		
… in a Reading Area	1.20	15%
… in the Stacks	1.70	15%
Manufacturing Facility		
… in a detailed manufacturing area	2.10	10%
… in an Equipment Room	1.20	10%
… in an Extra High Bay Area(> 50' floor-to-ceiling height)	1.32	10%
… in a High Bay Area (25-50' floor-to-ceiling height)	1.70	10%
… in a Low Bay Area (< 25' floor-to-ceiling height)	1.20	10%

Building Type Specific Space Types a~~1~~	**LPD (W/ft²)**	**Occupancy Sensor Reduction b**
Museum		
… in a General Exhibition Area	1.00	10%
… in a Restoration Room	1.70	10%
Post Office - Sorting Area	1.20	10%
Religious Buildings		
… in a Fellowship Hall	0.90	10%
… in a Worship/Pulpit/Choir Area	2.40	10%
Retail Facilities		
… in a Dressing/Fitting Room	0.89	10%
… in a Mall Concourse	1.70	10%
Sports Arena - Playing Area		
… for a Class I facility	4.61	10%
… for a Class II facility	3.01	10%
… for a Class III facility	2.26	10%
… for a Class IV facility	1.50	10%
Transportation Facility		
… in a baggage/carousel Area	1.00	10%
… in an Airport Concourse	0.60	10%
… at a Terminal Ticket Counter	1.50	10%
Warehouse - Storage Area		
…for medium to bulky, palletized items	0.90	45%
… for smaller, hand-carried items	1.40	45%

~~1~~a - In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply.
~~1~~b – For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.
c – For occupancy sensors controlling individual workstation lighting, occupancy sensor reduction factor shall be 30%.

TABLE G3.7 Performance Rating Method Lighting Power Densities and Occupancy Sensor Reductions Using the Space-by-Space Method

Common Space Types a~~1~~	**LPD (W/m^2)**	**Occupancy Sensor Reduction b**	**Building Type Specific Space Types a~~1~~**	**LPD (W/m^2)**	**Occupancy Sensor Reduction b**
Audience Seating Area			**Assisted Living Facility**		
... in an auditorium	9.69	10%	… in a chapel (used primarily by residents)	29.82	10%
... in a convention center	7.53	10%	… in a recreation room (used primarily by residents)	32.51	10%
… in an Exercise Center	3.23	10%	**Automotive (See Vehicular Maintenance Area above)**		10%
… in a gymnasium	4.31	10%			
... in a motion picture theater	12.92	10%	**Convention Center - Exhibit Space**	13.99	35%
... in a penitentiary	7.53	10%	**Dormitory - Living Quarters**	11.95	10%
... in a performing arts theater	27.99	10%	**Fire Station - Sleeping Quarters**	3.23	10%
... in a religious building	18.30	10%	**Gymnasium/Fitness Center**		
... in a sports arena	4.31	10%	*… in an Exercise Area*	9.69	35%
… in a transportation facility	5.38	10%	*… in a Playing Area*	15.07	35%
… all other audience seating area	9.69	10%	**Healthcare Facility**		
Atrium			*… in an Emergency Room*	29.06	10%
… that is <=12m in height	0.404 per meter in total height	10%	*… in an Exam/Treatment Room*	16.15	10%
… that is > 12m in height	5.382 +0.269 per meter in total height	10%	~~*… in an Imaging Room*~~	~~4.31~~	
Banking Activity Area	16.15	10%	*….in a Medical Supply Room*	15.07	45%
Breakroom (See Lounge/Breakroom)			*… in a Nursery*	6.46	10%
Classroom/Lecture Hall/Training Room			*… in a Nurse's Station*	10.76	10%
… in a penitentiary	13.99	None	*… in an Operating Room*	23.68	10%
…preschool through 12th grade, laboratory, and shop classrooms	15	30%			
… all other classroom/lecture hall/training	15.07	None	*… in a Patient Room*	7.53	10%
Conference/Meeting/Multipurpose Room	13.99	None	*… in a Physical Therapy Room*	9.69	10%
Confinement Cells	9.69	10%	*… in a Recovery Room*	8.61	10%
Copy/Print Room	9.69	10%	**Library**		
Corridor	-				

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… in an Assisted Living Facility (and used primarily by residents)	12.38	25%	*… in a Reading Area*	12.92	15%
… in a hospital	10.76	25%	*… in the Stacks*	18.30	15%
… in a manufacturing facility	5.38	25%			
… all other corridor	5.38	25%			
Courtroom	20.45	10%	**Manufacturing Facility**		
Computer Room	23.03	35%			
Dining Area			*… in a detailed manufacturing area*	22.60	10%
… in a penitentiary	13.99	35%	*… in an Equipment Room*	12.92	10%
… in an Assisted Living Facility (and used primarily by residents)	35.74	35%	*… in an Extra High Bay Area (> 50' floor-to-ceiling height)*	14.21	10%
… in Bar/Lounge or Leisure Dining	15.07	35%	*… in a High Bay Area (25-50' floor-to-ceiling height)*	18.30	10%
… in Cafeteria or Fast Food Dining	9.69	35%	*… in a Low Bay Area (< 25' floor-to-ceiling height)*	12.92	10%
… in Family Dining	22.60	35%			
… all other dining room	9.69	35%			
Electrical/Mechanical Room	16.15	30%	**Museum**		
Emergency Vehicle Garage	8.61	10%	*… in a General Exhibition Area*	10.76	10%
Food Preparation Area	12.92	30%	*… in a Restoration Room*	18.30	10%
Guest Room	11.84	45%	**Post Office - Sorting Area**	12.92	10%
Judges Chambers	13.99	30%	**Religious Buildings**		
			… in a Fellowship Hall	9.69	10%
Laboratory			*… in a Worship/Pulpit/Choir Area*	25.83	10%
… in or as a classroom	15.07	None	**Retail Facilities**		
… all other laboratories	15.07	10%	*… in a Dressing/Fitting Room*	9.58	10%
Laundry/Washing Area	6.46	10%	*… in a Mall Concourse*	18.30	10%
Loading Dock, Interior	6.35	10%	**Sports Arena - Playing Area**		
Lobby			*… for a Class I facility*	49.62	10%
… in an Assisted Living Facility (and used primarily by residents)	24.33	25%	*… for a Class II facility*	32.40	10%
… for an elevator	8.61	25%	*… for a Class III facility*	24.33	10%
… in a hotel	11.84	25%	*… for a Class IV facility*	16.15	10%

… in a motion picture theater	11.84	25%			
… in a performing arts theater	35.52	25%			
… all other lobbies	13.99	25%	**Transportation Facility**		
Locker Room	6.46	25%	*… in a baggage/carousel Area*	10.76	10%
Lounge/Breakroom			*… in an Airport Concourse*	6.46	10%
… in a healthcare facility	8.61	None	*… at a Terminal Ticket Counter*	16.15	10%
… all other lounge/breakroom	12.92	None	**Warehouse - Storage Area**		
Office			*…for medium to bulky, palletized items*	9.69	45%
… enclosed	11.84	30%	*… for smaller, hand-carried items*	15.07	45%
… open plan	11.84	15%[c]			
Parking Area, Interior	2.15	15%			
Pharmacy Area	12.92	10%			
Restroom					
… in an Assisted Living Facility (and used primarily by residents)	16.36	45%			
… all other restrooms	9.69	45%			
Sales Area	18.30	15%			
Seating Area, General	0.68	10%			
Stairwell	6.46	75%			
Storage Room					
… in a hospital	9.69	45%			
… that is >= 50 sqft	8.61	45%			
… that is < 50 sqft	8.61	45%			
Vehicular Maintenance Area	7.53	10%			
Workshop	20.45	10%			

a~~1~~ - In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply
b – For manual-on or partial-auto-on occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.
c – For occupancy sensors controlling individual workstation lighting, occupancy sensor reduction factor shall be 30%.

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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