

**CITY OF BALTIMORE
COUNCIL BILL 20-0630
(First Reader)**

Introduced by: The Council President

At the request of: The Administration (Department of Housing and Community Development)

Introduced and read first time: October 19, 2020

Assigned to: Judiciary Committee

REFERRED TO THE FOLLOWING AGENCIES: City Solicitor, Department of Housing and Community Development, Fire Department, Department of Public Works, Department of Transportation, Department of General Services, Department of Planning, Board of Municipal and Zoning Appeals

A BILL ENTITLED

1 AN ORDINANCE concerning

2 **Building, Fire, and Related Codes –**
3 **Adoption of International Green Construction Code (2018)**

4 FOR the purpose of amending the Building, Fire, and Related Code Article to repeal the
5 International Green Construction Code (2012 Edition) and substitute, subject to local
6 additions, deletions, amendments and modifications, the International Green Construction
7 Code (2018 Edition); and providing for the effective date, construction, and application of the
8 new Green Construction Code.

9 BY repealing and reordaining, with amendments
10 Article - Building, Fire, and Related Codes
11 Sections IBC §§ 101.4.9 and 202.2.37.4, and IPMC § 102.3(9)
12 Baltimore City Revised Code
13 (2020 Edition)

14 BY repealing, in its entirety
15 Article - Building, Fire, and Related Codes
16 Part XI. International Green Construction Code (2012 Edition)
17 Baltimore City Revised Code
18 (2020 Edition)

19 BY adopting, with local modifications
20 Article - Building, Fire, and Related Codes
21 Part XI. International Green Construction Code (2018 Edition)
22 Baltimore City Revised Code
23 (2020 Edition)

24 **SECTION 1. BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF BALTIMORE,** That the
25 Laws of Baltimore City read as follows:

EXPLANATION: CAPITALS indicate matter added to existing law.
[Brackets] indicate matter deleted from existing law.

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Baltimore City Revised Code

Article – Building, Fire, and Related Codes

Part II. International Building Code

Section 101 General

101.4 Referenced codes.

101.4.9 Green Construction. The International Green Construction Code Construction ([2012] 2018 Edition), as modified in Part XI of this Code, applies to construction requirements intended to reduce the negative impacts and increase the positive impacts of the built environment on the natural environment and building occupants.

Section 202 Definitions

202.2 Supplemental definitions.

202.2.37 International Codes.

202.2.37.4 Green Construction Code. “Green Construction Code”, “Baltimore City Green Construction Code”, “International Green Construction Code”, or “IgCC” means the International Green Construction Code ([2012] 2018 Edition), as supplemented, amended, or otherwise modified by Baltimore City.

Part VII. International Property Maintenance Code

Section 102 Applicability

102.3 Application of other codes. All repairs, additions, or alterations to a structure and all changes of occupancy must be done in accordance with this Code and with the following codes and standards, as modified by Baltimore City:

...

9. the International Green Construction Code ([2012] 2018 Edition),

....

SECTION 2. AND BE IT FURTHER ORDAINED, That the International Green Construction Code (2012 Edition), as codified in Part XI of the Building Fire, and Related Codes Article (2020) be and it is hereby repealed in its entirety.

SECTION 3. AND BE IT FURTHER ORDAINED, That the International Green Construction Code (2018 Edition) be and it is hereby adopted, subject to local additions, deletions, amendments, and modifications, as follows:

PART XI
INTERNATIONAL GREEN CONSTRUCTION CODE

§ 11-101. CITY ADOPTION.

(A) *IN GENERAL.*

THE INTERNATIONAL GREEN CONSTRUCTION CODE (2018 EDITION) IS ADOPTED AS PART OF THE BUILDING, FIRE, AND RELATED CODES OF BALTIMORE CITY, SUBJECT TO THE ADDITIONS, DELETIONS, AMENDMENTS, AND OTHER MODIFICATIONS CONTAINED IN THIS PART XI.

(B) *CODIFICATION.*

UNLESS OTHERWISE SPECIFIED, CHAPTER AND SECTION NUMBERS IN THIS PART XI REFER TO THE CHAPTER AND SECTION NUMBERS OF THE INTERNATIONAL GREEN CONSTRUCTION CODE.

§ 11-102. CITY MODIFICATIONS.

THE ADDITIONS, DELETIONS, AMENDMENTS, AND OTHER MODIFICATIONS ADOPTED BY THE CITY ARE AS FOLLOWS:

CHAPTER 1
SCOPE AND ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE. THE REGULATIONS CONTAINED IN THIS CODE CONSTITUTE AND ARE KNOWN AS THE “BALTIMORE GREEN CONSTRUCTION CODE”.

101.1.1 REFERENCES TO “THIS CODE”. ALL REFERENCES TO “THIS CODE” REFER TO THE BALTIMORE CITY GREEN CONSTRUCTION CODE.

101.2 PURPOSE. *{As in IGCC}*

101.3 SCOPE.

101.3.1 IN GENERAL. THIS CODE APPLIES TO THE DESIGN, CONSTRUCTION, ADDITION, ALTERATION, CHANGE OF OCCUPANCY, RELOCATION, REPLACEMENT, REPAIR, EQUIPMENT, BUILDING SITE, MAINTENANCE, REMOVAL, AND DEMOLITION OF EVERY STRUCTURE AND ANY APPURTENANCES CONNECTED OR ATTACHED TO A STRUCTURE AND TO THE SITE ON WHICH THE STRUCTURE IS LOCATED. OCCUPANCY CLASSIFICATIONS ARE DETERMINED IN ACCORDANCE WITH THE BALTIMORE CITY BUILDING CODE.

101.3.2 EXCEPTIONS. THIS CODE DOES NOT APPLY TO:

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PROJECT TYPES:

1. A 1- OR 2-FAMILY DWELLING, INCLUDING ACCESSORY STRUCTURES, REGULATED BY THE INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS (2018 EDITION).
2. A MULTIPLE-FAMILY DWELLING THAT IS NO MORE THAN 3 STORIES ABOVE GRADE PLANE IN HEIGHT AND CONTAINS NO MORE THAN 5 DWELLING UNITS.
3. A TEMPORARY STRUCTURE APPROVED UNDER BUILDING CODE § 3103 {"TEMPORARY STRUCTURES"}.
4. EQUIPMENT OR SYSTEMS THAT ARE USED PRIMARILY FOR INDUSTRIAL OR MANUFACTURING PURPOSES.

ALTERNATE COMPLIANCE PATHS:

5. A STRUCTURE THAT ACHIEVES, AS CERTIFIED BY THE GBCI, GREEN BUSINESS CERTIFICATION INCORPORATED, A SILVER-LEVEL OR BETTER RATING IN THE USGBC, U.S. GREEN BUILDING COUNCIL'S LEED (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN) RATING SYSTEM.
6. GROUP R-2 AND R-4 RESIDENTIAL BUILDINGS OR PORTIONS OF MIXED USE BUILDINGS 5 OR MORE STORIES ABOVE GRADE PLANE IN HEIGHT, INCLUDING THEIR ACCESSORY STRUCTURES AND THE SITE OR LOT ON WHICH THESE BUILDINGS ARE LOCATED, THAT, AS CERTIFIED BY A THIRD-PARTY APPROVED BY THE CODE OFFICIAL, COMPLY WITH THE REQUIREMENTS OF THE ICC 700 (NGBS, "NATIONAL GREEN BUILDING STANDARD") AT THE SILVER PERFORMANCE LEVEL OR EQUIVALENT.
7. A STRUCTURE THAT ACHIEVES, AS CERTIFIED BY ENTERPRISE COMMUNITY PARTNERS, GREEN COMMUNITIES CERTIFICATION.
8. A STRUCTURE THAT ACHIEVES, AS CERTIFIED BY THE GBI, GREEN BUILDING INITIATIVE, A RATING OF TWO GREEN GLOBES OR BETTER.

101.3.3 CIRCUMVENTIONS PROHIBITED. THE REQUIREMENTS OF THIS CODE MAY NOT BE USED TO CIRCUMVENT ANY APPLICABLE SAFETY, HEALTH, OR ENVIRONMENTAL REQUIREMENTS.

101.4 APPLICATION. {AS IN IGCC}

101.5 ADMINISTRATION. THIS CODE IS ADMINISTERED AND ENFORCED BY THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT AND ITS COMMISSIONER. ACCORDINGLY, IN THIS CODE:

1. "DEPARTMENT" MEANS THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT, AND

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- 1 2. “CODE OFFICIAL” MEANS THE BUILDING OFFICIAL, AS DEFINED IN § 202.2 OF THE
2 BALTIMORE CITY BUILDING CODE.

3 **SECTION 102 APPLICABILITY**

4 **102.1 CODE CONFLICTS. *{As IN IgCC}***

5 **102.2 OTHER LAWS. *{As IN IgCC}***

6 **102.3 APPLICATION OF REFERENCES. *{As IN IgCC}***

7 **102.4 REFERENCED CODES.** THE FOLLOWING CODES, AS MODIFIED BY BALTIMORE CITY,
8 ARE CONSIDERED PART OF THE REQUIREMENTS OF THIS CODE:

- 9 1. THE INTERNATIONAL BUILDING CODE (2018 EDITION),
10 2. THE NATIONAL ELECTRICAL CODE (2017 EDITION),
11 3. THE INTERNATIONAL FUEL GAS CODE (2018 EDITION),
12 4. THE INTERNATIONAL MECHANICAL CODE (2018 EDITION),
13 5. THE INTERNATIONAL PLUMBING CODE (2018 EDITION),
14 6. THE INTERNATIONAL PROPERTY MAINTENANCE CODE (2108 EDITION),
15 7. THE INTERNATIONAL FIRE CODE (2018 EDITION),
16 8. THE INTERNATIONAL ENERGY CONSERVATION CODE (2018 EDITION),
17 9. THE INTERNATIONAL RESIDENTIAL CODE (2018 EDITION),
18 10. THE INTERNATIONAL SWIMMING POOL AND SPA CODE (2018 EDITION); AND
19 11. THE ZONING CODE OF BALTIMORE CITY.

20 **102.4.1 CONFLICTING PROVISIONS. *{As IN IgCC}***

21 **102.4.2 APPLICATION OF REFERENCED STANDARDS. *{As IN IgCC}***

22 **102.5 PARTIAL INVALIDITY. *{As IN IgCC}***

23 **102.6 EXISTING STRUCTURES.** THE LEGAL OCCUPANCY OF ANY STRUCTURE EXISTING ON
24 THIS CODE’S EFFECTIVE DATE IS PERMITTED TO CONTINUE WITHOUT CHANGE, EXCEPT:

- 25 1. AS SPECIFICALLY COVERED IN THIS CODE, THE INTERNATIONAL BUILDING CODE, THE
26 INTERNATIONAL PROPERTY MAINTENANCE CODE, OR THE INTERNATIONAL FIRE
27 CODE, OR

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2. AS DEEMED NECESSARY BY THE CODE OFFICIAL FOR THE GENERAL SAFETY AND WELFARE OF THE STRUCTURE'S OCCUPANTS AND THE PUBLIC.

102.7 MIXED OCCUPANCY BUILDINGS. *{AS IN IgCC}*

SECTION 103 DUTIES AND POWERS OF CODE OFFICIAL

103.1 GENERAL. *{AS IN IgCC}*

103.2 APPLICATIONS AND PERMITS. *{AS IN IgCC}*

103.3 NOTICES AND ORDERS. *{AS IN IgCC}*

103.4 INSPECTIONS. *{AS IN IgCC}*

103.4.1 RIGHT OF ENTRY. THE CODE OFFICIAL MAY ENTER ANY STRUCTURE OR PREMISES AT REASONABLE TIMES TO INSPECT, SUBJECT TO CONSTITUTIONAL RESTRICTIONS ON UNREASONABLE SEARCHES AND SEIZURES. IF ENTRY IS REFUSED OR NOT OBTAINED, THE CODE OFFICIAL MAY PURSUE RECOURSE AS PROVIDED BY LAW, INCLUDING § 104 {"...POWERS OF BUILDING OFFICIAL"} OF THE BALTIMORE CITY BUILDING CODE.

103.5 EXEMPTIONS. THE CODE OFFICIAL MAY, IN UNUSUAL CIRCUMSTANCES AND ONLY ON GOOD CAUSE SHOWN, GRANT AN EXEMPTION FROM ANY REQUIREMENT OF THIS CODE BASED ON:

1. SUBSTANTIAL EVIDENCE OF A PRACTICAL INFEASIBILITY OR HARDSHIP IN MEETING A REQUIRED STANDARD,
2. A DETERMINATION THAT THE PUBLIC INTEREST WOULD NOT BE SERVED BY REQUIRING COMPLIANCE WITH THE REQUIREMENT, OR
3. OTHER COMPELLING CIRCUMSTANCES, AS DETERMINED BY THE CODE OFFICIAL.

103.5.1 BURDEN ON APPLICANT. THE APPLICANT HAS THE BURDEN TO ESTABLISH THE REQUISITE BASIS FOR AN EXEMPTION UNDER THIS SECTION.

103.5.2 CONSIDERATION OF OTHER STANDARDS. BEFORE THE CODE OFFICIAL GRANTS AN EXEMPTION UNDER THIS SECTION, THE CODE OFFICIAL MUST CONSIDER WHETHER ANOTHER STANDARD IS PRACTICABLE AND SHOULD BE REQUIRED IN PLACE OF THE EXEMPTED STANDARD.

SECTION 104 CONSTRUCTION DOCUMENTS *{AS IN IgCC}*

SECTION 105 APPROVAL *{AS IN IgCC}*

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SECTION 106 PERMITS

106.1 REQUIRED. *{AS IN IGCC}*

106.2 APPLICATION FOR PERMIT. THE REQUIREMENTS FOR OBTAINING A PERMIT ARE AS SET FORTH IN § 105.3 {"APPLICATION FOR PERMIT"} OF THE BALTIMORE CITY BUILDING CODE.

106.3 EXPIRATION OF PERMIT. UNLESS EXTENDED, A PERMIT EXPIRES AS SET FORTH IN § 105.5 {"EXPIRATION; EXTENSION"} OF THE BALTIMORE CITY BUILDING CODE.

106.4 EXTENSION. A PERMIT MAY BE EXTENDED AS PROVIDED IN § 105.5 {"EXPIRATION; EXTENSION"} OF THE BALTIMORE CITY BUILDING CODE.

106.5 SUSPENSION OR REVOCATION. THE CODE OFFICIAL MAY SUSPEND OR REVOKE A PERMIT AS PROVIDED IN § 105.6 {"SUSPENSION OR REVOCATION"} OF THE BALTIMORE CITY BUILDING CODE.

SECTION 107 FEES

107.1 FEE SCHEDULE. FEES ARE AS SET FORTH IN § 109 {"FEES"} OF THE BALTIMORE CITY BUILDING CODE.

SECTION 108 VIOLATIONS

108.1 UNLAWFUL ACTS. IT IS UNLAWFUL FOR ANY PERSON TO BE IN CONFLICT WITH OR IN VIOLATION OF ANY PROVISION OF THIS CODE OR OF ANY REGULATION, PERMIT, NOTICE, OR ORDER ISSUED UNDER THIS CODE.

108.2 VIOLATION PENALTIES. THE PENALTIES FOR A VIOLATION OF THIS CODE ARE AS PROVIDED IN § 114 {"VIOLATIONS"} OF THE BALTIMORE CITY BUILDING CODE FOR A VIOLATION THAT CODE.

108.3 STOP-WORK ORDERS. THE ISSUANCE AND ENFORCEMENT OF STOP-WORK ORDERS ARE AS PROVIDED IN § 115 {"STOP-WORK ORDER"} OF THE BALTIMORE CITY BUILDING CODE.

108.4 OCCUPANCY PERMIT. ISSUANCE OF AN OCCUPANCY PERMIT DOES NOT CONSTITUTE AN APPROVAL OF A VIOLATION OF THIS CODE OR ANY OTHER LAW. *{Note: THE "CERTIFICATE OF OCCUPANCY" TO WHICH THE IGCC REFERS IS KNOWN IN BALTIMORE CITY AS AN "OCCUPANCY PERMIT".}*

108.4.1 REVOCATION OF OCCUPANCY PERMIT. IN THE EVENT ANY BUILDING FAILS TO OBTAIN A TIMELY THIRD-PARTY CERTIFICATION AS REQUIRED UNDER THIS CODE, THE BUILDING OFFICIAL MAY REVOKE THE OCCUPANCY PERMIT UNTIL SUCH TIME AS THE THIRD-PARTY CERTIFICATION IS OBTAINED.

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SECTION 109 ADMINISTRATIVE AND JUDICIAL REVIEW

109.1 GENERAL. A DECISION OF THE CODE OFFICIAL IS SUBJECT TO ADMINISTRATIVE AND JUDICIAL REVIEW AS PROVIDED IN THE BALTIMORE CITY BUILDING CODE.

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CHAPTER 2
{RESERVED}

CHAPTER 3
DEFINITIONS; ABBREVIATIONS AND ACRONYMS

SECTION 301 GENERAL *{AS IN IGCC § 301.1 (“GENERAL”)}*

SECTION 302 DEFINITIONS

302.1 GENERAL. EXCEPT AS PROVIDED IN § 302.3, TERMS THAT ARE USED AND DEFINED IN THE INTERNATIONAL GREEN CONSTRUCTION CODE (2018 EDITION) HAVE THE MEANINGS GIVEN IN THE INTERNATIONAL GREEN CONSTRUCTION CODE (2018 EDITION).

302.2 TERMS DEFINED IN OTHER CODES. IF A TERM IS NOT DEFINED IN THE INTERNATIONAL GREEN CONSTRUCTION CODE (2018 EDITION) AND IS DEFINED IN ONE OR ANOTHER OF THE CODES LISTED IN § 102.4 {“REFERENCED CODES”} OF THIS CODE, THE TERM HAS THE MEANING GIVEN TO IT IN THAT CODE.

302.3 SUPPLEMENTAL DEFINITIONS. NOTWITHSTANDING ANY DIFFERENT DEFINITION IN THE INTERNATIONAL GREEN CONSTRUCTION CODE, THE FOLLOWING TERMS HAVE THE MEANINGS GIVEN IN THIS § 302.3.

302.3.1 CODE OFFICIAL. “CODE OFFICIAL” HAS THE MEANING STATED IN § 101.6 OF THIS CODE.

302.3.2 DWELLING UNIT. “DWELLING UNIT” HAS THE MEANING STATED IN § 202.2 OF THE BALTIMORE CITY BUILDING CODE.

302.3.3 FLOOD HAZARD AREA. “FLOOD HAZARD AREA” MEANS A REGULATED FLOOD HAZARD AREA ESTABLISHED UNDER AND REGULATED BY THE FLOOD PLAIN MANAGEMENT CODE.

302.3.4 FLOODPLAIN. “FLOODPLAIN” HAS THE MEANING STATED IN CITY CODE ARTICLE 7 {“NATURAL RESOURCES”}, § 1-2 {“DEFINITIONS – “ACCESSORY STRUCTURE” TO “FLOODPLAIN DISTRICT”}.

302.3.5 FLOODPLAIN MANAGEMENT CODE. “FLOODPLAIN MANAGEMENT CODE” MEANS THE BALTIMORE CITY FLOODPLAIN MANAGEMENT CODE, CITY CODE ARTICLE 7 {“NATURAL RESOURCES”}, DIVISION I {“FLOODPLAIN MANAGEMENT”}.

302.3.6 HABITABLE SPACE. “HABITABLE SPACE” MEANS SPACE IN A STRUCTURE FOR LIVING, SLEEPING, OR EATING. BATHROOMS, TOILET ROOMS, CLOSETS, HALLS, STORAGE OR UTILITY SPACES, AND SIMILAR AREAS ARE NOT CONSIDERED HABITABLE SPACES. KITCHENS WITH LESS THAN 56 SQ. FT. (5.2 SQ. M.) OF FLOOR AREA ARE NOT CONSIDERED HABITABLE SPACES.

302.3.7 HISTORIC BUILDING. “HISTORIC BUILDING” MEANS A BUILDING OR OTHER STRUCTURE THAT IS:

1. INDIVIDUALLY LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES,
2. INDIVIDUALLY LISTED ON THE CITY LANDMARK LIST,

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1 3. LOCATED WITHIN A NATIONAL REGISTER HISTORIC OR LANDMARK DISTRICT AND
2 CERTIFIED BY THE SECRETARY OF THE INTERIOR AS CONTRIBUTING TO THE
3 HISTORIC SIGNIFICANCE OF THAT DISTRICT, OR

4 4. LOCATED WITHIN A CITY HISTORICAL AND ARCHITECTURAL PRESERVATION
5 DISTRICT AND CERTIFIED BY THE COMMISSION FOR HISTORICAL AND
6 ARCHITECTURAL PRESERVATION AS CONTRIBUTING TO THE HISTORIC
7 SIGNIFICANCE OF THAT DISTRICT.

8 **302.3.8 MAY NOT, ETC.** “MAY NOT”, “MUST NOT”, AND “NO ... MAY” ARE EACH
9 MANDATORY NEGATIVE TERMS USED TO ESTABLISH A PROHIBITION.

10 **302.3.9 MULTIPLE-FAMILY DWELLING.** “MULTIPLE-FAMILY DWELLING” MEANS A
11 BUILDING OR A GROUP OF BUILDINGS ON THE SAME LOT THAT CONTAINS OR IS DESIGNED
12 OR INTENDED TO CONTAIN:

13 1. MORE THAN 2 DWELLING UNITS,

14 2. 2 DWELLING UNITS AND ANY OTHER RESIDENTIAL OR COMMERCIAL OCCUPANCY, OR

15 3. ANY COMBINATION OF 3 OR MORE ROOMING UNITS AND DWELLING UNITS.

16 **302.3.10 MUST/SHALL.** “MUST” AND “SHALL” ARE EACH MANDATORY TERMS USED TO
17 EXPRESS A REQUIREMENT OR TO IMPOSE A DUTY.

18 **302.3.11 OCCUPANCY.** “OCCUPANCY” HAS THE MEANING STATED IN § 202.2 OF THE
19 BALTIMORE CITY BUILDING CODE.

20 **302.3.12 PERSON.** “PERSON” HAS THE MEANING STATED IN § 202.2 OF THE BALTIMORE
21 CITY BUILDING CODE.

22 **302.3.13 PREMISES.** “PREMISES” HAS THE MEANING STATED IN § 202.2 OF THE
23 BALTIMORE CITY BUILDING CODE.

24 **302.3.14 STRUCTURE.** “STRUCTURE” HAS THE MEANING STATED IN § 202.2 OF THE
25 BALTIMORE CITY BUILDING CODE AND, UNLESS THE CONTEXT INDICATES OTHERWISE,
26 INCLUDES PREMISES AND LANDS.

27 **302.3.15 ZERO ENERGY.** “ZERO ENERGY” POWER CONSUMPTION (KWH) SHALL BE
28 DETERMINED BASED ON A METERED YEARLY BASIS AT THE BUILDING METER USING NET
29 METERING AND THE FULL YEARLY ENERGY USAGE SHALL BE OFFSET IN WHOLE BY
30 RENEWABLE TECHNOLOGIES, INCLUDING, BUT NOT LIMITED TO, SOLAR PHOTOVOLTAIC
31 (PV), SOLAR WATER HEATING, WIND GENERATED POWER, WATER GENERATED POWER
32 (HYDRO AND TIDAL), OR SIMILAR TECHNOLOGIES AS APPROVED BY THE CODE OFFICIAL.

33 TECHNOLOGIES THAT INCLUDE COMBUSTION, SUCH AS WASTE GASIFICATION, METHANE
34 CAPTURE, OR SIMILAR TECHNOLOGIES, ARE NOT CONSIDERED RENEWABLE TECHNOLOGIES
35 FOR THE PURPOSES OF CALCULATING BUILDING ZERO ENERGY GOALS.

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1 THE BUILDING PROJECT MAY NOT INCLUDE THE USE OF FOSSIL FUELS (NATURAL GAS,
2 COAL, PROPANE, DIESEL, GASOLINE, JET FUEL, ETC.) OR OTHER NON-RENEWABLE FUELS
3 FOR COMBUSTION FOR ANY BUILDING USE.

4 UTILITY SCALE STEAM PROVIDED FROM NON-RENEWABLE SOURCES SHALL BE
5 CONSIDERED A NON-RENEWABLE FOSSIL FUEL.

6 FOR THE PURPOSES OF THIS ZERO ENERGY CALCULATIONS, ON-SITE SOLAR AND
7 COMMUNITY SOLAR OF WHICH THE PROPERTY IS A MEMBER GENERATED WITHIN 15 MILES
8 OF THE SITE MAY BE CONSIDERED.

9 **SECTION 303 ABBREVIATIONS AND ACRONYMS *{As in IGCC § 301.3}***

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CHAPTER 4
{RESERVED}

CHAPTER 5
SITE SUSTAINABILITY

501.1 SCOPE. *{AS IN IGCC}*

501.2 COMPLIANCE. *{AS IN IGCC}*

501.3 MANDATORY PROVISIONS.

501.3.1 SITE SELECTION. *{AS IN IGCC}*

501.3.2 PREDESIGN SITE INVENTORY AND ASSESSMENT. *{AS IN IGCC}*

501.3.3 PLANTS.

501.3.3.1 INVASIVE PLANTS. *{AS IN IGCC}*

501.3.3.2 GREENFIELD SITES.

A. MORE THAN 20% EXISTING NATIVE OR ADAPTED PLANTS: *{AS IN IGCC}*

B. LESS THAN 20% EXISTING NATIVE OR ADAPTED PLANTS:

1. *{AS IN IGCC}*

**2. A MINIMUM OF 50% OF THE VEGETATED AREA MUST CONSIST OF
BIODIVERSE PLANTING OF NATIVE PLANTS AND/OR ADAPTED PLANTS OTHER
THAN TURFGRASS.**

EXCEPTION: *{AS IN IGCC}*

501.3.4 STORMWATER MANAGEMENT. *{AS IN IGCC}*

501.3.5 MITIGATION OF HEAT ISLAND EFFECT.

**501.3.5.1 SITE HARDSCAPE. AT LEAST 40% OF THE SITE HARDSCAPE THAT IS NOT
COVERED BY SOLAR ENERGY SYSTEMS MUST BE PROVIDED WITH ANY ONE OR
COMBINATION OF THE FOLLOWING:**

A. THROUGH F. *{AS IN IGCC}*

EXCEPTION: *{NOT ADOPTED}*

501.3.5.2 WALLS. *{NOT ADOPTED}*

501.3.5.3 ROOFS.

**501.3.5.3.1 IN GENERAL. THIS SECTION APPLIES TO THE BUILDING AND COVERED
PARKING ROOF SURFACES FOR BUILDING PROJECTS.**

501.3.5.3.2 REQUIRED COVERAGE. A MINIMUM OF 75% OF THE ROOF SURFACE MUST BE COVERED WITH PRODUCTS THAT:

- A. HAVE A MINIMUM THREE-YEAR-AGED SRI OF 64 IN ACCORDANCE WITH § 501.3.5.4 FOR ROOFS WITH A SLOPE OF LESS THAN OR EQUAL TO 2:12; AND
- B. HAVE A MINIMUM THREE-YEAR-AGED SRI OF 25 IN ACCORDANCE WITH § 501.3.5.4 FOR ROOFS WITH A SLOPE OF MORE THAN 2:12.

501.3.5.3.3 AREAS EXCLUDED FROM CALCULATION OF ROOF SURFACE AREA. THE AREA OCCUPIED BY ONE OR MORE OF THE FOLLOWING IS EXCLUDED FROM THE CALCULATION TO DETERMINE THE ROOF SURFACE AREA REQUIRED TO COMPLY WITH THIS SECTION:

- A. ROOF PENETRATIONS AND ASSOCIATED EQUIPMENT.
- B. ON-SITE RENEWABLE ENERGY SYSTEMS, INCLUDING PHOTOVOLTAICS, SOLAR THERMAL ENERGY COLLECTORS, AND REQUIRED ACCESS AROUND THE PANELS OR COLLECTORS.
- C. PORTIONS OF THE ROOF USED TO CAPTURE HEAT FOR BUILDING ENERGY TECHNOLOGIES.
- D. ROOF DECKS AND ROOFTOP WALKWAYS.
- E. VEGETATED TERRACE AND ROOFING SYSTEMS COMPLYING WITH § 501.3.5.5.

EXCEPTIONS: {As IN IgCC}

501.3.5.4 SOLAR REFLECTANCE INDEX (SRI). {As IN IgCC}

501.3.5.5 VEGETATED TERRACE AND ROOFING SYSTEMS. {As IN IgCC}

501.3.6 REDUCTION OF LIGHT POLLUTION. {As IN IgCC}

501.3.7 MITIGATION OF TRANSPORTATION IMPACTS.

501.3.7.1 PEDESTRIAN AND BICYCLE CONNECTIVITY. {As IN IgCC}

501.3.7.2 BICYCLE PARKING.

501.3.7.2.1 MINIMUM NUMBER OF SPACES. {As IN IgCC}

EXCEPTIONS:

1 AND 2. {As IN IgCC}

3. EDUCATION OCCUPANCY GRADES 3 AND BELOW.

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- 1 **501.3.7.2.2 LOCATION. *{AS IN IGCC}***
- 2 **501.3.7.2.3 HORIZONTAL PARKING RACKS.. *{AS IN IGCC}***
- 3 **501.3.7.2.4 ABILITY TO LOCK. *{AS IN IGCC}***
- 4 **501.3.7.2.5 SECURITY AND VISIBILITY. *{AS IN IGCC}***
- 5 **501.3.7.2.6 DOCUMENTATION. *{AS IN IGCC}***
- 6 **501.3.7.3 SITE VEHICLE PROVISIONS. *{AS IN IGCC}***
- 7 **501.3.8 BUILDING SITE WASTE MANAGEMENT PLAN. *{AS IN IGCC}***

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**CHAPTER 6
WATER USE EFFICIENCY**

601.1 SCOPE. *{AS IN IGCC}*

601.2 COMPLIANCE. *{AS IN IGCC}*

601.3 MANDATORY PROVISIONS.

601.3.1 SITE WATER USE REDUCTION.

601.3.1.1 LANDSCAPE DESIGN. A MINIMUM 50% OF THE AREA OF THE IMPROVED LANDSCAPE SHALL BE IN BIODIVERSE PLANNING OF NATIVE PLANTS AND RAINFALL-ET COMPATIBLE PLANTS.

EXCEPTIONS: *{AS IN IGCC}*

601.3.1.2 IRRIGATION. *{AS IN IGCC}*

601.3.1.2.1 THROUGH 601.3.1.2.3 *{AS IN IGCC}*

601.3.2 BUILDING WATER REUSE REDUCTION.

601.3.2.1 PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS MUST:

1. REDUCE AGGREGATE CALCULATED WATER CONSUMPTION BY 30%, AS DOCUMENTED IN THE BALTIMORE GREEN BUILDING STATEMENT OF COMPLIANCE; OR
2. PROVIDE FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) THAT COMPLY WITH THE FOLLOWING REQUIREMENTS, AS SHOWN IN TABLE 601.3.2.1:

A. THROUGH J. *{AS IN IGCC}*

601.3.2.2 APPLIANCES. *{AS IN IGCC}*

601.3.2.3 HVAC SYSTEMS AND EQUIPMENT. *{AS IN IGCC}*

601.3.2.4 ROOFS. *{AS IN IGCC}*

601.3.2.5 COMMERCIAL FOOD SERVICE OPERATIONS. *{AS IN IGCC}*

601.3.2.6 MEDICAL LABORATORY FACILITIES. *{AS IN IGCC}*

601.3.3 SPECIAL WATER FEATURES. *{AS IN IGCC}*

601.3.4 WATER CONSUMPTION MEASUREMENT. *{NOT ADOPTED}*

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- 1 **601.3.5 WATER SOFTENERS. *{AS IN IGCC}***
- 2 **601.3.6 REVERSE OSMOSIS WATER TREATMENT. *{AS IN IGCC}***
- 3 **601.3.7 ON-SITE RECLAIMED WATER TREATMENT SYSTEMS. *{AS IN IGCC}***
- 4 **601.3.8 DUAL WATER SUPPLY PLUMBING. *{NOT ADOPTED}***

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**CHAPTER 7
ENERGY EFFICIENCY**

701.1 SCOPE. *{AS IN IGCC}*

701.2 COMPLIANCE. *{AS IN IGCC}*

701.3 MANDATORY PROVISIONS. *{NOT ADOPTED}*

701.4 PRESCRIPTIVE OPTION.

701.4.1 GENERAL COMPREHENSIVE PRESCRIPTIVE REQUIREMENTS. *{AS IN IGCC}*

701.4.1.1 ON-SITE RENEWABLE ENERGY SYSTEMS. *{NOT ADOPTED}*

701.4.2 BUILDING ENVELOPE. *{AS IN IGCC}*

701.4.3 HEATING, VENTILATING, AND AIR CONDITIONING. *{AS IN IGCC}*

**701.4.3.1 MINIMUM EQUIPMENT EFFICIENCIES FOR THE ALTERNATE
RENEWABLES APPROACH. *{NOT ADOPTED}***

701.4.3.2 THROUGH 701.4.3.10. *{AS IN IGCC}*

701.4.4 SERVICE WATER HEATING. *{AS IN IGCC}*

**701.4.4.1 EQUIPMENT EFFICIENCY FOR THE ALTERNATE RENEWABLE APPROACH.
*{NOT ADOPTED}***

701.4.4.2 INSULATION FOR SPA POOLS. *{AS IN IGCC}*

701.4.5 POWER. *{AS IN IGCC}*

701.4.6 LIGHTING. *{AS IN IGCC}*

701.4.7 OTHER EQUIPMENT. *{AS IN IGCC}*

**701.4.7.1 EQUIPMENT EFFICIENCY FOR THE ALTERNATE RENEWABLES
APPROACH. *{NOT ADOPTED}***

701.4.7.2 SUPERMARKET HEAT RECOVERY. *{AS IN IGCC}*

701.4.7.3 ENERGY STAR EQUIPMENT. *{AS IN IGCC}*

**701.4.7.3.1 ENERGY STAR REQUIREMENTS FOR EQUIPMENT COVERED BY
FEDERAL APPLIANCE EFFICIENCY REGULATIONS (ALL BUILDING PROJECTS).
*{AS IN IGCC}***

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**701.4.7.3.2 ENERGY STAR REQUIREMENTS FOR EQUIPMENT COVERED BY
FEDERAL APPLIANCE EFFICIENCY REGULATIONS (ALTERNATE RENEWABLES
APPROACH). *{NOT ADOPTED}***

701.4.7.4 PROGRAMMABLE THERMOSTATS. *{AS IN IGCC}*

701.4.7.5 REFRIGERATED DISPLAY CASES. *{AS IN IGCC}*

701.4.8 ENERGY COST BUDGET. *{NOT ADOPTED}*

701.5 PERFORMANCE OPTION. AS IN BALTIMORE CITY IECC § 401.2.1 (OPTIONS 1 OR 2).

701.5.1 ANNUAL ENERGY COST. *{NOT ADOPTED}*

701.5.2 ANNUAL CARBON DIOXIDE EQUIVALENT. *{NOT ADOPTED}*

CHAPTER 8
INDOOR ENVIRONMENTAL QUALITY

801.1 SCOPE. *{AS IN IGCC}*

801.2 COMPLIANCE. *{AS IN IGCC}*

801.3 MANDATORY PROVISIONS.

801.3.1 INDOOR AIR QUALITY. *{AS IN IGCC}*

801.3.1.1 MINIMUM VENTILATION RATES. *{AS IN IGCC}*

801.3.1.2 OUTDOOR AIR DELIVERY MONITORING. *{AS IN IGCC}*

801.3.1.3 FILTRATION AND AIR CLEANER. *{AS IN IGCC}*

801.3.1.4 BUILDING PRESSURE. *{AS IN IGCC}*

801.3.1.5 VENTING OF COMBUSTION PRODUCTS. *{AS IN IGCC}*

801.3.1.6 HUMIDITY CONTROL. *{AS IN IGCC}*

801.3.1.7 ENVIRONMENTAL TOBACCO SMOKE. *{AS IN IGCC}*

801.3.1.8 BUILDING ENTRANCES. *{AS IN IGCC}*

801.3.1.9 GUEST ROOM PREOCCUPANCY OUT-DOOR AIR PURGE CYCLE.
{NOT ADOPTED}

801.3.1.10 PREOCCUPANCY VENTILATION CONTROL *{AS IN IGCC}*

801.3.2 THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY.
{AS IN IGCC}

801.3.3 ACOUSTICAL CONTROL.

A. THIS SECTION GOVERNS ACOUSTICAL CONTROL FOR THE BUILDING ENVELOPE, THE
INTERIOR SPACES WITHIN THE BUILDING OR STRUCTURE, AND THE DESIGN OF THE
RELATED MECHANICAL EQUIPMENT AND SYSTEMS.

B. PREK-12 SCHOOL SPACES MUST BE DESIGNED AS FOLLOWS:

I. IN ACCORDANCE WITH §§ 801.3.3.1 THROUGH 801.3.3.5, OR

II. TESTED IN ACCORDANCE WITH THE ICC VERSION OF § 1001.3.1.1.2.

801.3.3.1 DOCUMENTATION. *{AS IN IGCC}*

801.3.3.1.1 TEST METHODS. THE LABORATORY-TESTED PERFORMANCE FOR SOUND TRANSMISSION CLASS (STC) FOR WALL, PARTITION, WINDOW, AND CEILING/FLOOR ASSEMBLIES MUST BE TESTED IN ACCORDANCE WITH ASTM E90, AND THE LABORATORY-TESTED PERFORMANCE FOR IMPACT INSULATION CLASS (IIC) FOR FLOOR/CEILING ASSEMBLIES MUST BE TESTED IN ACCORDANCE WITH ASTM E492. ALL ASSEMBLIES MUST BE SEALED ACCORDING TO ASTM C919 AND IN ACCORDANCE WITH THE LABORATORY-TESTED ASSEMBLY DETAILS AND MATERIALS. FIELD TESTED ASSEMBLIES USED IN THE ANALYSIS MUST BE TESTED IN ACCORDANCE WITH ASTM E336 AND ASTM E1007. LABORATORY SOUND LEVELS OF HVAC EQUIPMENT MUST BE TESTED IN ACCORDANCE WITH THE RELEVANT ARI OR ASHRAE PROCEDURES BASED ON EQUIPMENT TYPE. SOUND ABSORPTION MATERIALS AND COEFFICIENTS MUST BE TESTED IN ACCORDANCE WITH ASTM C423.

801.3.3.2 INTERIOR BACKGROUND NOISE REQUIREMENTS. THE BUILDING ENVELOPE, INTERIOR SPACES WITHIN THE BUILDING, AND BUILDING SYSTEMS, INCLUDING MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS, SHALL BE DESIGNED AND CONSTRUCTED SO THAT THE INTERIOR SOUND PRESSURE LEVELS CREATED BY THE COMBINATION OF BUILDING SYSTEMS NOISE AND EXTERIOR SOUND SOURCES, UNDER NORMAL OPERATION WITH WINDOWS CLOSED AND NO ACTIVE SOUND MASKING SYSTEMS, DO NOT EXCEED THE VALUES SPECIFIED IN TABLE 801.3.3.2. THE HOURLY AVERAGE SOUND PRESSURE LEVEL MAY NOT EXCEED THE VALUES LISTED IN TABLE 801.3.3.2. OUTDOOR NOISE LEVELS MUST COMPLY WITH TITLE 9 OF THE BALTIMORE CITY HEALTH ARTICLE.

801.3.3.2.1 HIGH-NOISE EXTERIOR EVENTS. *{NOT ADOPTED}*

801.3.3.2.2 CONFORMANCE. *{AS IN IGCC}*

801.3.3.2.3 INTERIOR BACKGROUND NOISE – DESIGN. *{AS IN IGCC}*

801.3.3.2.3.1 BUILDING ENVELOPE. *{NOT ADOPTED}*

801.3.3.2.3.2 INTERIOR SYSTEMS. INTERIOR NOISE FROM HVAC SYSTEMS MUST BE CALCULATED FOR ROOM TYPES LISTED IN TABLE 801.3.3.2 AND USED IN DETERMINING THE HOURLY AVERAGE INTERIOR BACKGROUND SOUND PRESSURE LEVELS FOR THE ROOM TYPES LISTED IN TABLE 801.3.3.2. HVAC SYSTEMS NOISE SHALL BE CALCULATED IN ACCORDANCE WITH THE 2015 ASHRAE HVAC APPLICATIONS HANDBOOK – CHAPTER 48: NOISE AND VIBRATION CONTROLS.

801.3.3.2.3.3 PENETRATIONS AND FENESTRATIONS. *{AS IN IGCC}*

801.3.3.2.3.4 INSPECTION. *{AS IN IGCC}*

801.3.3.2.4 INTERIOR BACKGROUND NOISE – TESTING. *{NOT ADOPTED}*

TABLE 801.3.3.2

**INTERIOR BACKGROUND SOUND PRESSURE LEVELS FROM BUILDING SYSTEMS AND
EXTERIOR SOUND SOURCES**

	HOURLY AVERAGE SOUND PRESSURE LEVEL (<i>L_{EQ}</i>)	
ROOM TYPE	dBA	dBC
RESIDENTIAL SLEEPING AREAS (NIGHTTIME) ^a	35	60
RESIDENTIAL LIVING AND SLEEPING AREAS (DAYTIME)	40	60
HOTEL AND MOTEL GUEST ROOMS OR SUITES AND DORMITORIES	40	60
MEETING AND BANQUET ROOMS	35	60
CORRIDORS AND LOBBIES	45	65
SERVICE AND SUPPORT AREAS	45	65
ENCLOSED OFFICES	35	60
CONFERENCE ROOMS	35	60
TELECONFERENCE ROOMS	30	55
OPEN-PLAN OFFICES	45	65
COURTROOMS – UNAMPLIFIED SPEECH	35	60
COURTROOMS – AMPLIFIED SPEECH	40	60
LABORATORIES – MINIMAL SPEECH COMMUNICATION	55	75
LABORATORIES – EXTENSIVE PHONE USE, SPEECH COMMUNICATION	50	70
LABORATORIES – GROUP TEACHING	40	60
RELIGIOUS – GENERAL ASSEMBLY WITH MUSIC PROGRAM	30	55
LIBRARY STUDY AND READING AREAS	35	60
GYMNASIUMS & NATATORIUMS WITHOUT SPEECH AMPLIFICATION	50	70
GYMNASIUMS & NATATORIUMS WITH SPEECH AMPLIFICATION	55	75
CLASSROOMS	35	40

^a “NIGHTTIME” IS DEFINED AS THE TIME BETWEEN 10 P.M. AND 7 A.M.

801.3.3.3 INTERIOR SOUND TRANSMISSION. *{AS IN IgCC}*

801.3.3.3.1 CONFORMANCE. *{AS IN IgCC}*

801.3.3.3.2 INTERIOR SOUND TRANSMISSION – DESIGN. *{AS IN IgCC}*

801.3.3.3.2.1 INSPECTION. CONSTRUCTION OF ACOUSTICAL ITEMS REQUIRED IN § 801.3.3.3.2
MUST BE VISUALLY INSPECTED BY A DESIGN PROFESSIONAL.

801.3.3.3.3 INTERIOR SOUND TRANSMISSION – TESTING. *{NOT ADOPTED}*

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TABLE 801.3.3.3
MINIMUM SOUND AND IMPACT SOUND RATINGS

ROOM TYPE	cSTC ^{c, d}	IIC
DWELLING UNIT (APARTMENT, CONDOMINIUM, DUPLEX, HOTEL GUEST ROOM, ETC.)	55	55
RETAIL OR RESTAURANT	55	45
EXERCISE, GYM OR POOL ^b	55	50 ^a
MECHANICAL, ELECTRICAL, & ELEVATOR MACHINERY ROOMS ^b	60	N/A
CONFERENCE AND TELECONFERENCE ROOMS	50	50
ENCLOSED OFFICES	45	45
OPEN OFFICES	N/A	45
CLASSROOMS	5 50	50
CLASSROOMS > 20,000 FT ³	53	N/A

a THE IIC VALUE LISTED ADDRESSES FOOTFALL NOISE BUT NOT EXERCISE-RELATED VIBRATION-BORNE SOUND. EXERCISE-RELATED VIBRATION-BORNE SOUND MUST COMPLY WITH THE REQUIREMENTS OF § 801.3.3.2.

b MINIMUM CSTC AND IIC VALUES ARE NOT REQUIRED BETWEEN ADJACENT ROOMS OF THE SAME ROOM TYPE.

c FOR OPERABLE PARTITIONS AND WALLS CONTAINING DOORS, WINDOWS, OR BOTH, THE MINIMUM CSTC RATINGS MUST BE 5 LESS THAN THE VALUES LISTED IN TABLE 801.3.3.3.

d THE MINIMUM CSTC VALUES MUST BE 5 LESS THAN THE CSTC VALUES IN TABLE 801.3.3.3 FOR WALLS BETWEEN SPACES AND CORRIDORS AND BETWEEN SPACES AND OPEN OFFICES. THE MINIMUM CSTC VALUES MUST BE 15 LESS THAN THE CSTC VALUES SPECIFIED IN TABLE 801.3.3.3 FOR WALLS HAVING DOORS THAT OPEN TO CORRIDORS OR OPEN OFFICES.

801.3.3.4 INTERIOR SOUND REVERBERATION. THE REVERBERATION TIME T_{60} FOR DESIGNATED SPACES MUST BE CALCULATED IN ACCORDANCE WITH ANSI/ASA S12.60-2010, PART 1, ANNEX A, FOR THE OCTAVE BANDS 500, 1000, AND 2000 HZ AND MAY NOT EXCEED THE VALUES SPECIFIED IN TABLE 801.3.3.4 FOR FULLY FURNISHED ROOMS.

EXCEPTIONS:

- A. THE DESIGN PROFESSIONAL MAY USE THE FGI GUIDELINES FOR HEALTHCARE OR THE ASHRAE PERFORMANCE MEASUREMENT PROTOCOLS FOR COMMERCIAL BUILDINGS TO SHOW COMPLIANCE.

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- B. MINIMUM COMPLIANCE FOR CLASSROOMS < 20,000 CUBIC FEET MAY BE SHOWN PRESCRIPTIVELY USING AN AREA EQUIVALENT TO THE CEILING LESS LIGHTS AND DIFFUSERS ON ANY SURFACE OF THE ROOM THAT MEETS NRC 70 OR BETTER.

**TABLE 801.3.3.4
MAXIMUM REVERBERATION TIME**

ROOM TYPES	T_{60} , SEC
MEETING & BANQUET ROOMS < 3000 FT ³ (85 M ³)	0.8
MEETING & BANQUET ROOMS 3000 FT ³ (85 M ³) UP TO 8000 FT ³ (225 M ³)	1.0
MEETING & BANQUET ROOMS > 8000 FT ³ (225 M ³) UP TO 30,000 FT ³ (850 M ³)	1.2
MEETING & BANQUET ROOMS > 30,000 FT ³ (850 M ³)	1.5
ENCLOSED OFFICES	0.6
CONFERENCE/TELECONFERENCE ROOMS	0.6
OPEN-PLAN OFFICES	0.6
COURTROOMS – UNAMPLIFIED SPEECH	0.7
COURTROOMS – AMPLIFIED SPEECH	1.0
TESTING/RESEARCH LABS (TITLE SPEECH COMMUNICATION)	1.0
LABS (EXTENSIVE PHONE USE AND SPEECH COMMUNICATION)	0.6
LIBRARY STUDY AND READING AREAS	1.0
GYMNASIUMS AND NATATORIUMS	2.0
CLASSROOMS ≤ 10,000 FT ³	0.6
CLASSROOMS > 10,000 FT ³ and ≤ 20,000 FT ³	0.7
CLASSROOMS > 20,000 FT ³	1.5 ^a

^a CLASSROOMS > 20,000 FT³ MUST MEET ANS/ASA S12.60.

1 **801.3.3.5 PROPERTY LINE SOUND LEVELS. *{NOT ADOPTED}***

2 **801.3.4 SOIL-GAS CONTROL. *{AS IN IGCC}***

3 **801.3.5 LIGHTING QUALITY. *{AS IN IGCC}***

4 **801.3.6 MOISTURE CONTROL. *{AS IN IGCC}***

5 **801.3.7 GLARE CONTROL *{AS IN IGCC}***

6 **801.4 PRESCRIPTIVE OPTION.**

7 **801.4.1 DAY LIGHTING.**

8 **801.4.1.1 DAYLIGHTING IN LARGE SPACES DIRECTLY UNDER A ROOF AND HAVING**
9 **HIGH CEILINGS. *{AS IN IGCC}***

10 **801.4.1.1.1 MINIMUM DAYLIGHT AREA. *{NOT ADOPTED}***

11 **801.4.1.1.2 THROUGH 801.4.1.3. *{NOT ADOPTED}***

12 **801.4.2 MATERIALS. *{AS IN IGCC}***

13 **801.4.2.1 ADHESIVES AND SEALANTS. *{AS IN IGCC}***

14 **801.4.2.2 PAINTS AND COATINGS. *{AS IN IGCC}***

15 **801.4.2.3 FLOOR COVERING MATERIALS. *{AS IN IGCC}***

16 **801.4.2.3.1 DEEMED TO COMPLY. *{AS IN IGCC}***

17 **801.4.2.4 COMPOSITE WOOD, WOOD STRUCTURAL PANEL, AND AGRIFIBER**
18 **PRODUCTS. *{AS IN IGCC}***

19 **801.4.2.5 OFFICE FURNITURE SYSTEMS AND SEATING. *{NOT ADOPTED}***

20 **801.4.2.6 CEILING AND WALL ASSEMBLIES. *{NOT ADOPTED}***

21 **801.4.2.7 INSULATION. *{NOT ADOPTED}***

22 **801.4.3 LIGHTING FOR PRESENTATIONS. *{NOT ADOPTED}***

23 **801.5 PERFORMANCE OPTION.**

24 **801.5.1 DAYLIGHT SIMULATION. *{NOT ADOPTED}***

25 **801.5.2 MATERIALS. *{AS IN IGCC}***

26 **801.5.3 LIGHTING FOR PRESENTATIONS. *{NOT ADOPTED}***

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**CHAPTER 9
MATERIALS AND RESOURCES**

901.1 SCOPE. *{AS IN IGCC}*

901.2 COMPLIANCE. *{AS IN IGCC}*

901.3 MANDATORY PROVISIONS.

901.3.1 CONSTRUCTION WASTE MANAGEMENT.

901.3.1.1 DIVERSION. A MINIMUM OF 70% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE MATERIAL GENERATED PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY MUST BE DIVERTED FROM DISPOSAL IN LANDFILLS AND INCINERATORS BY REUSE, RECYCLING, RE-PURPOSING, AND/OR COMPOSTING. EXCAVATED SOIL AND LAND-CLEARING DEBRIS MAY NOT BE INCLUDED IN THE WASTE DIVERSION CALCULATION. ALTERNATIVE DAILY COVER AND WASTE-TO- ENERGY INCINERATION MAY NOT BE INCLUDED AS DIVERTED MATERIAL. ALL DIVERSION CALCULATIONS MUST BE BASED ON EITHER WEIGHT OR VOLUME, BUT NOT BOTH, THROUGHOUT THE CONSTRUCTION PROCESS.

INFORMATIVE NOTE: REUSE INCLUDES DONATION OF MATERIALS TO CHARITABLE ORGANIZATIONS; SALVAGE OF EXISTING MATERIALS ON- SITE; RECLAMATION OF PRODUCTS BY MANUFACTURERS; AND RETURN OF PACKAGING MATERIALS TO THE MANUFACTURER, SHIPPER, OR OTHER SOURCE FOR REUSE AS PACKAGING IN FUTURE SHIPMENTS.

901.3.1.2 TOTAL WASTE. *{AS IN IGCC}*

901.3.1.3. CONSTRUCTION WASTE MANAGEMENT. *{AS IN IGCC}*

901.3.2 THROUGH 901.3.5. *{AS IN IGCC}*

901.4 PRESCRIPTIVE OPTION. *{AS IN IGCC}*

901.5 PERFORMANCE OPTION. *{AS IN IGCC}*

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**CHAPTER 10
CONSTRUCTION AND PLANS FOR OPERATIONS**

1001.1 SCOPE. *{AS IN IGCC}*

1001.2 COMPLIANCE. *{AS IN IGCC}*

1001.3 MANDATORY PROVISIONS.

1001.3.1 CONSTRUCTION.

1001.3.1.1 BUILDING SYSTEMS FPT. *{AS IN IGCC}*

1001.3.1.1.1 FPT REQUIREMENTS. AN FPT PROCESS SHALL BE PERFORMED FOR THE FOLLOWING:

A. THROUGH E. *{AS IN IGCC}*

F. BUILDING ENVELOP SYSTEMS.

1001.3.1.1.1.1 ACTIVITIES PRIOR TO BUILDING PERMIT FOR FACILITIES USING FPT PROCESS. THE FOLLOWING ACTIVITIES MUST BE COMPLETED BEFORE A PERMIT IS ISSUED FOR ANY SYSTEM REQUIRING FPT:

A. *DESIGNATE FPT PROVIDERS.*

1. FOR SYSTEMS THAT ARE REQUIRED TO COMPLY WITH § 1001.3.1.1.1, FPT PROVIDERS MUST BE THE OWNER'S QUALIFIED EMPLOYEES, INDEPENDENT COMMISSIONING (CX) PROVIDERS, OR QUALIFIED DESIGNERS EXPERIENCED WITH FPT ON THE DESIGNATED SYSTEMS.
2. FPT PROVIDERS MUST BE INDEPENDENT OF THE BUILDING SYSTEM DESIGN AND CONSTRUCTION FUNCTION AND MUST POSSESS THE NECESSARY EXPERIENCE AND TESTING EQUIPMENT.
3. FOR PROJECTS LESS THAN 20,000 SQUARE FEET, PROJECT TEAM MAY SERVE AS COMMISSIONING PROVIDERS SO LONG AS THE OWNER SIGNIFIES APPROVAL BY LETTER TO THE CODE OFFICIAL.

B. *REVIEW OF CONSTRUCTION DOCUMENTS.* FPT PROVIDERS MUST REVIEW THE CONSTRUCTION DOCUMENTS TO VERIFY THAT:

1. THE RELEVANT SENSOR LOCATIONS, DEVICES, AND CONTROL SEQUENCES ARE PROPERLY SPECIFIED;
2. PERFORMANCE AND TESTING CRITERIA ARE INCLUDED; AND
3. EQUIPMENT TO BE TESTED IS ACCESSIBLE FOR TESTING AND MAINTENANCE.

1001.3.1.1.1.2 ACTIVITIES PRIOR TO BUILDING OCCUPANCY FOR FACILITIES USING THE FPT PROCESS. *{AS IN IgCC}*

1001.3.1.1.1.3 DOCUMENTATION. *{AS IN IgCC}*

1001.3.1.1.2 ACOUSTICAL CONTROL. *{NOT ADOPTED}*

1001.3.1.2 BUILDING PROJECT COMMISSIONING (CX) PROCESS. *{AS IN IgCC}*

1001.3.1.2.1 SYSTEMS TO BE COMMISSIONED. FOR BUILDINGS THAT EXCEED 10,000 FT² (1000 M²) OF GROSS FLOOR AREA, THE CX PROCESS MUST BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF THE BUILDING PROJECT. THE FOLLOWING SYSTEMS AND ASSOCIATED CONTROLS, WHERE INCLUDED IN THE BUILDING PROJECT, MUST BE COMMISSIONED:

A. THROUGH H. *{AS IN IgCC}*

I. BUILDING ENVELOPE SYSTEMS.

1001.3.1.2.2 THROUGH 1001.3.1.2.4 *{AS IN IgCC}*

1001.3.1.3 PROJECT CX DOCUMENTS. *{AS IN IgCC}*

1001.3.1.3.1 THROUGH 1001.3.1.3.4 *{AS IN IgCC}*

1001.3.1.3.5 BUILDING ENVELOPE AIRTIGHTNESS. *{NOT ADOPTED}*

1001.3.1.3.6 DOCUMENTATION. *{AS IN IgCC}*

1001.3.1.4 EROSION AND SEDIMENTATION CONTROL. *{NOT ADOPTED}*

1001.3.1.5 IAQ CONSTRUCTION MANAGEMENT. DEVELOP AND IMPLEMENT AN IAQ CONSTRUCTION MANAGEMENT PLAN TO INCLUDE THE FOLLOWING:

A. *{AS IN IgCC}*

B. PREK-12 SCHOOLS AND HEALTH-CARE PROJECTS. FOR PREK-12 SCHOOLS AND HEALTH-CARE PROJECTS, AFTER CONSTRUCTION ENDS, PRIOR TO OCCUPANCY AND WITH ALL INTERIOR FINISHES INSTALLED, A POSTCONSTRUCTION, PREOCCUPANCY BUILDING FLUSH-OUT, AS DESCRIBED IN § 1001.3.1.5(B)(1), OR A POSTCONSTRUCTION, PREOCCUPANCY BASELINE IAQ MONITORING, AS DESCRIBED IN § 1001.3.1.5(B)(2), MUST BE PERFORMED:

1. POSTCONSTRUCTION, PREOCCUPANCY FLUSHOUT. *{AS IN IgCC}*

2. POSTCONSTRUCTION, PREOCCUPANCY BASE- LINE IAQ MONITORING. BASELINE IAQ TESTING SHALL BE CONDUCTED AFTER CONSTRUCTION ENDS AND PRIOR TO OCCUPANCY. TESTING SHALL BE PERFORMED USING PROTOCOLS CONSISTENT WITH THE USEPA

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COMPENDIUM OF METHODS FOR THE DETERMINATION OF TOXIC ORGANIC POLLUTANTS IN AMBIENT AIR, TO-1, TO-11, TO-17, AND ASTM STANDARD METHOD D 5197. THE TESTING MUST DEMONSTRATE THAT THE CONTAMINANT MAXIMUM CONCENTRATIONS LISTED IN TABLE 1001.3.1.5 ARE NOT EXCEEDED IN THE RETURN AIRSTREAMS OF THE HVAC SYSTEMS THAT SERVE THE SPACE INTENDED FOR OCCUPANCY. IF THE RETURN AIRSTREAM OF THE HVAC SYSTEM SERVING THE SPACE INTENDED FOR OCCUPANCY CAN NOT BE SEPARATED FROM OTHER SPACES, THEN FOR EACH PORTION OF THE BUILDING SERVED BY A SEPARATE VENTILATION SYSTEM, THE TESTING MUST DEMONSTRATE THAT THE CONTAMINANT MAXIMUM CONCENTRATIONS AT BREATHING ZONE LISTED IN TABLE 1001.3.1.5 ARE NOT EXCEEDED IN THE LARGER OF THE FOLLOWING NUMBER OF LOCATIONS: (I) NO FEWER THAN ONE LOCATION PER 25,000 FT² (2500 M²) OR (II) IN EACH CONTIGUOUS FLOOR AREA. FOR EACH SAMPLING POINT WHERE THE MAXIMUM CONCENTRATION LIMITS ARE EXCEEDED, CONDUCT ADDITIONAL FLUSH-OUT WITH OUTDOOR AIR, AND RETEST THE SPECIFIC PARAMETERS EXCEEDED TO DEMONSTRATE THAT THE REQUIREMENTS ARE ACHIEVED. REPEAT PROCEDURE TWICE. WHEN RETESTING NONCOMPLYING BUILDING AREAS, TAKE SAMPLES FROM THE SAME LOCATIONS AS IN THE FIRST TEST.

TABLE 1001.3.1.5
MAXIMUM CONCENTRATION OF AIR POLLUTANTS RELEVANT TO IAQ

CONTAMINANT	MINIMUM CONCENTRATION, µg/m ³ (UNLESS OTHERWISE NOTED)
NONVOLATILE ORGANIC COMPOUNDS	
CARBON MONOXIDE (CO)	9 PPM AND NO GREATER THAN 2 PPM ABOVE OUTDOOR LEVELS
OZONE	0.075 PPM (2 H)
PARTICULATES (PM 2.5)	35 (2 H)
PARTICULATES (PM 10)	150 (2 H)
VOLATILE ORGANIC COMPOUNDS	
ACETALDEHYDE	140
ACRYLONITRILE	5
BENZENE	60
1,3-BUTADIENE	20
T-BUTYL METHYL ETHER (METHYL-T-BUTYL ETHER)	8000

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1	CARBON DISULFIDE	800
2	CARBON TETRACHLORIDE	40
3	CHLOROBENZENE	1000
4	CHLOROFORM	300
5	1,4-DICHLOROBENZENE	800
6	DICHLOROMETHANE	400
7	1,4-DIOXANE	3000
8	ETHYLBENZENE	2000
9	ETHYLENE GLYCOL	400
10	FORMALDEHYDE	33
11	N-HEXANE	7000
12	NAPHTHALENE	9
13	PHENOL	200
14	4-PHENYLCYCLOHEXENE (4 PCH) ^A	2.5
15	2-PROPANOL (ISOPROPANOL)	7000
16	STYRENE	900
17	TETRACHLOROETHENE (TETRACHLOROETHYLENE,	35
18	PERCHLOROETHYLENE)	
19	TOLUENE	300
20	1,1,1-TRICHLOROETHANE (METHYL CHLOROFOAM)	1000
21		
22	TRICHLOROETHENE (TRICHLOROETHYLENE)	600
23	XYLENE ISOMERS	700
24	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	^b _____

a. THIS TEST IS ONLY REQUIRED IF CARPETS AND FABRICS WITH STYRENE BUTADIENE RUBBER (SBR) LATEX BACKING MATERIAL ARE INSTALLED AS PART OF THE BASE BUILDING SYSTEMS.

b. TVOC REPORTING MUST BE IN ACCORDANCE WITH CDPH/EHLB/STANDARD METHOD V1.1 AND MUST BE IN CONJUNCTION WITH THE INDIVIDUAL VOCs LISTED

1001.3.1.6 MOISTURE CONTROL *{As in IgCC}*

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**1001.3.1.7 CONSTRUCTION ACTIVITY POLLUTION PREVENTION: IDLING OF
CONSTRUCTION VEHICLES. *{AS IN IGCC}***

**1001.3.1.8 CONSTRUCTION ACTIVITY POLLUTION PREVENTION: PROTECTION OF
OCCUPIED AREAS. *{AS IN IGCC}***

1001.3.1.9 SOIL-GAS CONTROL *{NOT ADOPTED}*

1001.3.1.10 CONSTRUCTION WASTE MANAGEMENT. *{AS IN IGCC}*

1001.3.2 PLANS FOR OPERATION. *{NOT ADOPTED}*

**CHAPTER 11
ELECTIVES**

1101.1 SCOPE. THIS CHAPTER SPECIFIES ELECTIVE REQUIREMENTS FOR ALL PROJECTS. IT IS DESIGNED TO IMPLEMENT ADDITIONAL MEASURES TO SUPPORT BALTIMORE CITY’S SUSTAINABILITY GOALS, MITIGATE THE IMPACTS OF BUILDING, AND PROVIDE A GREATER BENEFIT TO THE CITIZENS OF BALTIMORE CITY. ELECTIVES ARE APPLICABLE TO BUILDINGS, STRUCTURES, AND BUILDING SITES SUBJECT TO THE PROVISIONS OF THIS CODE. OWNERS HAVE SOME FLEXIBILITY SELECTING ELECTIVES, BUT MUST ADHERE TO THE MANDATORY POINT PROVISIONS IDENTIFIED BELOW.

1101.2 COMPLIANCE. EACH PROJECT MUST COMPLY WITH § 1101.3 {“MANDATORY PROVISIONS”} BY COMPLYING WITH EITHER § 1101.3.1 {“REQUIRED ELECTIVES”} OR § 1101.3.2 {“ZERO ENERGY ELECTIVE”}.

1101.3 MANDATORY PROVISIONS.

1101.3.1 REQUIRED ELECTIVES (10 POINTS). A TOTAL OF 10 POINTS MUST BE SELECTED AND ACHIEVED FROM AMONG THE FOLLOWING CATEGORIES:

- A. WATER EFFICIENCY – AT LEAST 1 POINT
- B. ENERGY EFFICIENCY – AT LEAST 1 POINT
- C. INDOOR ENVIRONMENTAL QUALITY – AT LEAST 1 POINT
- D. ANY 1 OR MORE OF THE CATEGORIES LISTED IN § 104.4 – 7 POINTS

1101.3.2 ZERO ENERGY ELECTIVE (10 POINTS). CHOOSE ONE OF THE FOLLOWING PATHS:

1101.3.2.1 PATH 1. PROVIDE ENERGY MODEL FOR BUILDING CONSUMPTION, SOLAR GENERATION, OR OTHER RENEWABLE GENERATION REPORT FOR YEARLY GENERATION, AND A SUMMARY REPORT NOTING BUILDING EUI, SOLAR GENERATION, AND A SUMMARY OF ENERGY SAVINGS MEASURES IMPLEMENTED BY THE BUILDING. FOR THE PURPOSES OF THIS CREDIT, ON-SITE SOLAR AND COMMUNITY SOLAR OF WHICH THE PROPERTY IS A MEMBER GENERATED WITHIN 15 MILES OF THE SITE MAY BE CONSIDERED. PROVIDE ENERGY INFORMATION AS REQUIRED IN THE GREEN BUILDING STATEMENT OF COMPLIANCE.

1101.3.2.1 PATH 2. IF THE BUILDING PURSUES A NET ZERO CERTIFICATION, SUCH AS INTERNATIONAL LIVING FUTURES INSTITUTES ZERO ENERGY OR ENERGY PETAL, OR LEED ZERO ENERGY, THE BUILDING MAY PROVIDE DOCUMENTATION SHOWING ACCEPTANCE INTO THE MONITORING PERIOD BY THOSE AGENCIES IN LIEU OF PLANS AND ENERGY CALCULATIONS. PROVIDE ENERGY INFORMATION AS REQUIRED IN THE GREEN BUILDING STATEMENT OF COMPLIANCE.

1101.4 ELECTIVE CATEGORIES.

1101.4.1 SITE SUSTAINABILITY.

1101.4.1.1 MITIGATION OF HEAT ISLAND EFFECT. *SEE* § 501.3.5.1 {"SITE HARDSCAPE"} – 50% (1 POINT).

1101.4.1.2 GREENFIELD SITES. *SEE* § 501.3.3.2.B.2 – 60% (1 POINT).

1101.4.1.3 ELECTRIC-VEHICLE CHARGING. *SEE* § 1101.4.1.3.1 {"REQUIREMENTS"} BELOW (1 POINT).

1101.4.1.3.1 REQUIREMENTS. WHERE ON-SITE VEHICLE PARKING IS PROVIDED, AT LEAST ONE OF THE FOLLOWING OPTIONS MUST BE INSTALLED:

- A. AT LEAST 2% OF PARKING SPACES MUST BE EQUIPPED WITH LEVEL 2 (208-240 VOLT) OR LEVEL 3 (480 VOLT) ELECTRIC VEHICLE CHARGING STATIONS, WHICH MUST BE AVAILABLE FOR USE BY BUILDING OCCUPANTS AND LOCATED NOT MORE THAN 1/4 MILE (400 M) FROM THE BUILDING PROJECT.
- B. AT LEAST 6% OF PARKING SPACES MUST BE PROVIDED WITH ELECTRICAL RACEWAYS ORIGINATING AT THE BUILDING'S ELECTRICAL POWER DISTRIBUTION PANELS TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE CHARGING STATIONS. ELECTRICAL POWER DISTRIBUTION PANELS SERVING THESE RACEWAYS MUST BE SIZED TO SUPPLY THE FUTURE CHARGING STATIONS BASED ON A DESIGN LOAD OF NOT LESS THAN 40 AMP PER PARKING SPACE AT A SUPPLY VOLTAGE OF NOT LESS THAN 208-240 VOLT, AND HAVE SPACE RESERVED FOR FUTURE INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. RACEWAYS MUST TERMINATE INTO A LISTED CABINET, BOX, OR ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE ELECTRIC VEHICLE CHARGING STATION(S). RACEWAYS MAY NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER).

1101.4.2 WATER EFFICIENCY.

1101.4.2.1 WATER REDUCTION. *SEE* § 601.3.2 {"BUILDING WATER REUSE REDUCTION"} –
35% (1 POINT).
40% (2 POINTS).
45% (3 POINTS).

1101.4.2.2 WATER SUBMETERING. *SEE* ICC VERSION OF § 601.3.4.1 {"CONSUMPTION MEASUREMENT"} – (1 POINT).

1101.4.2.3 DUAL PIPING – GENERAL. *SEE* ICC VERSION OF § 601.3.8 {"DUAL WATER SUPPLY PIPING"} – (1 POINT).

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1101.4.4.4 DUAL PIPING – NON-POTABLE WATER SYSTEMS. *SEE* ICC VERSION OF § 601.3.8 {“DUAL WATER SUPPLY PIPING”} – 50% (2 POINTS).

1101.4.3 ENERGY EFFICIENCY.

1101.4.3.1 ON-SITE RENEWABLE ENERGY SYSTEMS – SOLAR READY CONDUITS. *SEE* ICC VERSION OF § 701.3.2 (1 POINT).

1101.4.3.2 ON-SITE RENEWABLE ENERGY SYSTEMS – SOLAR INSTALLATION. *SEE* ICC VERSION OF § 701.3.2 (3 POINTS).

1101.4.3.3 ENERGY SUBMETERING. *SEE* ICC VERSION OF § 701.3.3.1 {“CONSUMPTION MANAGEMENT”} (1 POINT).

1101.4.3.4 AUTOMATED DEMAND RESPONSE. *SEE* ICC VERSION OF § 701.3.4 {“AUTOMATED DEMAND RESPONSE”} (1 POINT).

1101.4.3.5 PERFORMANCE OPTION. *SEE* IECC § 401.2.1 (OPTIONS 1 OR 2) –
80% (1 POINT).
75% (2 POINTS).
70% (3 POINTS).
65% (4 POINTS).
60% (5 POINTS).
55% (6 POINTS).
50% (7 POINTS).

1101.4.3.6 BALTIMORE CITY ENERGY FUND.
\$0.0015 PER KBTU/H (EQUIVALENT TO \$0.005 PER KWH USED) (1 POINT).
\$0.0030 PER KBTU/H (EQUIVALENT TO \$0.010 PER KWH USED) (2 POINT).

1101.4.4 INDOOR ENVIRONMENTAL QUALITY.

1101.4.4.1 ACOUSTICAL CONTROL *OR* ACOUSTICAL FIELD MEASUREMENT. *SEE* § 801.3.3 {“ACOUSTICAL CONTROL”} *OR* ICC VERSION OF § 1001.3.1.1.2.1 {“ACOUSTICAL FIELD MEASUREMENT”} (1 POINT).

1101.4.4.2 MATERIALS – OFFICE FURNITURE. *SEE* ICC VERSION OF § 801.4.2.5 {“OFFICE FURNITURE SYSTEMS AND SEATING”} (1 POINT).

1101.4.4.3 MATERIALS – CEILING/ WALL ASSEMBLIES. *SEE* ICC VERSION OF § 801.4.2.6 {“CEILING AND WALL ASSEMBLIES AND SYSTEMS”} (1 POINT).

1101.4.4.4 MATERIALS – INSULATION. *SEE* ICC VERSION OF § 801.4.2.7 {“INSULATION”} (1 POINT).

1101.4.4.5 DAYLIGHTING *OR* DAYLIGHT SIMULATION. *SEE* ICC VERSION OF § 801.4.1 {“DAYLIGHTING”} *OR* ICC VERSION OF § 801.5.1 {“DAYLIGHT SIMULATION”} (1 POINT).

1101.4.4.5.1 “DAYLIGHTING” REQUIREMENTS. NOT LESS THAN 35% OF THE FLOOR AREA MUST BE IN THE DAYLIGHT AREA, AS DEFINED IN CHAPTER 3. THE DEFINITION OF DAYLIGHT AREA IS MODIFIED SO THAT PARTITIONS AND OTHER OBSTRUCTIONS THAT ARE LESS THAN THE CEILING HEIGHT ARE DISREGARDED. DAYLIGHT AREAS MUST BE UNDER SKYLIGHTS, UNDER ROOF MONITORS, OR IN THE PRIMARY OR SECONDARY SIDELIGHTED AREAS AND MUST MEET AT LEAST ONE OF THE FOLLOWING REQUIREMENTS:

- A. THE COMBINED AREA OF THE SKYLIGHTS WITHIN THE SPACE IS NOT LESS THAN 3% OF THE CALCULATED DAYLIGHT AREA UNDER SKYLIGHTS.
- B. THE SPACE HAS A SKYLIGHT EFFECTIVE APERTURE OF NOT LESS THAN 1%.
- C. THE COMBINED AREA WITHIN THE SPACE OF ANY VERTICAL FENESTRATION IN ROOF MONITORS IS NOT LESS THAN 20% OF THE CALCULATED DAYLIGHT AREA UNDER ROOF MONITORS.
- D. PRIMARY SIDELIGHTED AREAS HAVE A SIDE- LIGHTING EFFECTIVE APERTURE OF NOT LESS THAN 0.15.
- E. SECONDARY SIDELIGHTED AREAS HAVE A SIDE- LIGHTING EFFECTIVE APERTURE OF NOT LESS THAN 0.30.

1101.4.4.5.2 “SIMULATION” REQUIREMENTS. THE COMPUTED AREA-WEIGHTED SDA MAY NOT BE LESS THAN 30%. THE SDA WITHIN EACH SPACE MUST BE CALCULATED IN ACCORDANCE WITH THE METHODOLOGY OF IES LM 83. CALCULATIONS MUST BE MADE ON THE BASIS OF 28 FC (300 LUX) FOR ALL SPACES, WITH THE EXCEPTION OF THE FOLLOWING SPACE TYPES, WHICH MUST BE CALCULATED ON THE BASIS OF 14 FC (150 LUX): HEALTH-CARE PATIENT ROOMS, POST-OFFICE SORTING AREAS, GYMNASIA, BIG BOX RETAIL, TRANSPORTATION FACILITY TERMINAL TICKET COUNTERS, AIRPORT CONCOURSES, AND NONREFRIGERATED WAREHOUSES.

EXCEPTIONS:

- A. A SPACE USED FOR TASKS OR ACTIVITIES REQUIRING ROUTINE DARK CONDITIONS FOR MORE THAN 4 DAYTIME HOURS PER DAY.
- B. A SPACE WHERE THE HEIGHT OF EXISTING FACING STRUCTURES ABOVE THE VERTICAL FENESTRATION IS NOT LESS THAN TWICE THE DISTANCE BETWEEN THE VERTICAL FENESTRATION AND FACING STRUCTURES, MEASURED FROM THE TOP OF THE GLAZING.

1101.4.4.5.3 EXCESSIVE SUNLIGHT. THE ASE, CALCULATED WITH A THRESHOLD OF 93 FC (1000 LUX) AND 250 HOURS, MAY NOT EXCEED 10% OF THE FLOOR AREA.

EXCEPTIONS:

- A. SPACES LESS THAN 250 FT² (23 M²).

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B. VERTICAL FENESTRATION WITH AUTOMATICALLY CONTROLLED SHADING DEVICES IN COMPLIANCE WITH ICC VERSION OF § 801.5.1.2, EXCEPTION (2).

C. VERTICAL FENESTRATION WITH AUTOMATICALLY CONTROLLED DYNAMIC GLAZING IN COMPLIANCE WITH ICC VERSION OF § 801.5.1.2, EXCEPTION (3).

1101.5 MATERIALS AND RESOURCES.

1101.5.1 CONSTRUCTION WASTE MANAGEMENT. *SEE* § 901.3.1 {“CONSTRUCTION WASTE MANAGEMENT”} – 90% (1 POINT).

1101.5.2 REDUCED IMPACT MATERIALS. *SEE* § 901.4.1 {“REDUCED IMPACT MATERIALS”} – 55% (1 POINT).

1101.5.3 LIFE-CYCLE ASSESSMENT. *SEE* § 901.5.1 {“LIFE-CYCLE ASSESSMENT (LCA)”} – (1 POINT).

1101.5.4 LIFE-CYCLE ASSESSMENT PERFORMANCE METRICS. *SEE* § 901.5.1.1 {“LCA PERFORMANCE METRICS”} – (1 POINT).

1101.6 CONSTRUCTION AND PLANS FOR OPERATION

1101.6.1 IAQ CONSTRUCTION MANAGEMENT – FLUSHOUT *OR* IAQ MONITORING. *SEE* 1001.3.1.5(B) (1 POINT).

EXCEPTION: THIS OPTION DOES NOT APPLY TO PREK-12 SCHOOLS OR HEALTHCARE PROJECTS.

1101.6.2 ENVELOPE AIRTIGHTNESS. *SEE* ICC VERSION OF § 1001.3.1.3.5 {“BUILDING ENVELOPE AIRTIGHTNESS”} (1 POINT).

1101.6.3 HIGH-PERFORMANCE BUILDING OPERATION PLAN – SITE SUSTAINABILITY. *SEE* ICC VERSION OF § 1001.3.2.1.1 {“SITE SUSTAINABILITY”} (1 POINT).

1101.6.4 HIGH-PERFORMANCE BUILDING OPERATION PLAN – IAQ. *SEE* ICC VERSION OF § 1001.3.2.1.4 (1 POINT).

1101.6.5 HIGH-PERFORMANCE BUILDING OPERATION PLAN – GREEN CLEANING PLAN. *SEE* ICC VERSION OF § 1001.3.2.1.4.5 {“BUILDING GREEN CLEANING PLAN”}. (1 POINT).

1101.6.6 HIGH-PERFORMANCE BUILDING OPERATION PLAN – MOISTURE MEASUREMENT. *SEE* ICC VERSION OF § 1001.3.2.1.4.6 {“MOISTURE MEASUREMENT”}. (1 POINT).

1101.6.7 HIGH-PERFORMANCE BUILDING OPERATION PLAN – INDOOR ENVIRONMENTAL QUALITY SURVEY. *SEE* ICC VERSION OF § 1001.3.2.1.5 {“INDOOR ENVIRONMENTAL QUALITY SURVEY”} (1 POINT).

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1 **1101.6.8 HIGH-PERFORMANCE BUILDING OPERATION PLAN – MAINTENANCE PLAN.**
2 *SEE* ICC VERSION OF § 1001.3.2.2 {“MAINTENANCE PLAN”} (1 POINT).

3 **1101.6.9 HIGH-PERFORMANCE BUILDING OPERATION PLAN – SERVICE LIFE PLAN.**
4 *SEE* ICC VERSION OF § 1001.3.2.3 {“SERVICE LIFE PLAN”} (1 POINT)

5 **1101.6.10 HIGH-PERFORMANCE BUILDING OPERATION PLAN – TRANSPORTATION**
6 **MANAGEMENT PLAN.** *SEE* ICC VERSION OF § 1001.3.2.4 {“TRANSPORTATION
7 MANAGEMENT PLAN”} (1 POINT).

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CHAPTER 12
NORMATIVE REFERENCES
{AS IN IGCC CHAPTER. 11}

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APPENDICES AND ANNEX

**APPENDIX A
CLIMATE ZONES AND PRESCRIPTIVE BUILDING ENVELOPE
AND DUCT INSULATION TABLES
{AS IN IGCC}**

**APPENDIX B
PRESCRIPTIVE EQUIPMENT EFFICIENCY TABLES ...
{NOT ADOPTED}**

**APPENDIX C
PERFORMANCE OPTION FOR ENERGY EFFICIENCY
{AS IN IGCC}**

**APPENDIX D
BUILDING CONCENTRATIONS
{AS IN IGCC}**

**APPENDIX E
BUILDING ENVELOPE TABLES
{INFORMATIVE. NOT ADOPTED}**

**APPENDIX F
INTEGRATED DESIGN
{INFORMATIVE. NOT ADOPTED}**

**APPENDIX G
IN FORMATIVE REFERENCES
{INFORMATIVE. NOT ADOPTED}**

**APPENDIX H
OPTION FOR ENERGY EFFICIENCY
USING IECC PRESCRIPTIVE COMPLIANCE PLAN
{INFORMATIVE. NOT ADOPTED}**

**APPENDIX I
ADDITIONAL GUIDANCE FOR FUNCTIONAL AND PERFORMANCE TESTING
AND THE COMMISSIONING PROCESS
{INFORMATIVE. NOT ADOPTED}**

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APPENDIX J
OPTION FOR RESIDENTIAL COMPLIANCE
USING NATIONAL GREEN BUILDING STANDARD
{INFORMATIVE. NOT ADOPTED}

APPENDIX K
ADDENDA DESCRIPTION INFORMATION
{INFORMATIVE. NOT ADOPTED}

ANNEX 1
REFERENCE STANDARD REPRODUCTION ANNEX
ASHRAE STANDARD 169
{INFORMATIVE. NOT PART OF THIS CODE}

SECTION 4. AND BE IT FURTHER ORDAINED, That the catchlines contained in this Ordinance are not law and may not be considered to have been enacted as a part of this or any prior Ordinance.

SECTION 5. AND BE IT FURTHER ORDAINED, That this Ordinance and the Building, Fire, and Related Codes adopted by it apply to all building operations for which a permit application is filed on or after the effective date of this Ordinance.

SECTION 6. AND BE IT FURTHER ORDAINED, That, except as expressly provided to the contrary in this Ordinance, any transaction, case, proceeding, investigation, or other matter validly begun before the effective date of this Ordinance and affected by or flowing from any law amended or repealed by this Ordinance, and any right, duty, or interest flowing from any ordinance amended or repealed by this Ordinance, remains valid after the effective date of this Ordinance and may be terminated, completed, enforced, or prosecuted as required or permitted by the prior law as though the amendment or repeal has not occurred. If any change in nomenclature involves a change in name or designation of any City agency or official, the successor agency or official has all the powers and obligations granted the predecessor agency or official.

SECTION 7. AND BE IT FURTHER ORDAINED, That this Ordinance takes effect on the date it is enacted.