

DCRA Green Compliance FUNDAMENTALS





DCRA

Department of Consumer and Regulatory Affairs

The mission of the Department of Consumer and Regulatory Affairs (DCRA) is to protect the health, safety, economic interests and quality of life of residents, businesses and visitors in the District of Columbia by ensuring code compliance and regulating business.

DCRA

Green Building Division

Regulations of green codes including:

- Green Building Act
- Green Construction Code
- Energy Conservation Code

Operates within the structure of DCRA's permitting and inspections groups, with work including reviews of construction documents, conducting building inspections, and collaborating with the community to further the efforts to build a more sustainable DC.

REGULATIONS

Green Building Act Adopted in 2006

Applies to the design, construction, addition, alteration of buildings or structures:

- Publicly funded (10,000 sqft+)
- Privately funded (50,000 sqft+)

Applicability

Publicly owned or financed project:

- New Construction
- Substantial Improvement
- 10,000 sqft and above

Compliance Paths:

- Non-Residential: LEED Silver
- Educational: LEED Gold
- Residential: Green Communities
- Mixed Use Space in Residential Project: LEED Certified
- Tenant Fit Out: LEED Certified

Applicability

Privately owned or financed project:

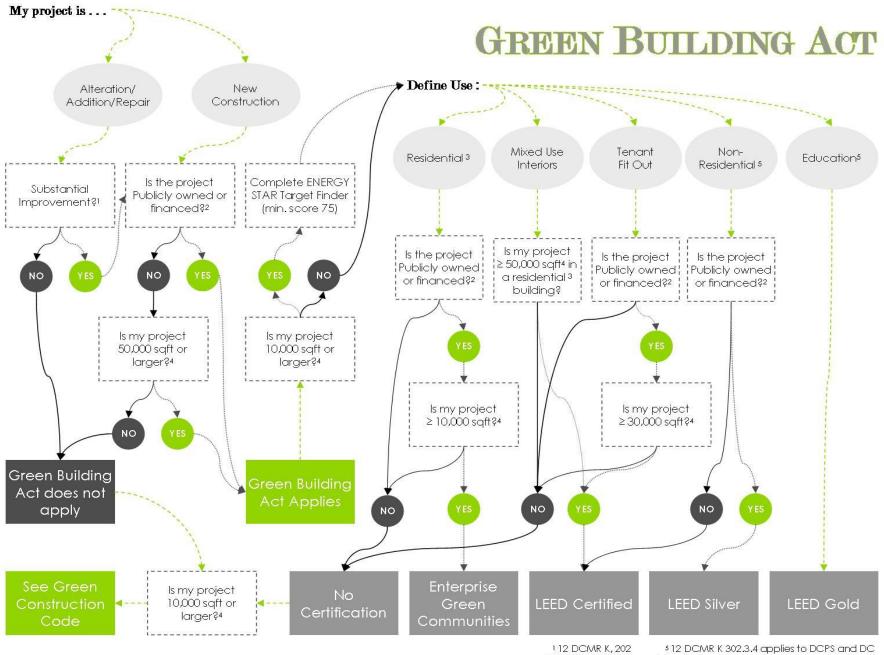
- New Construction
- Substantial Improvement
- 50,000 sqft and above

Compliance Paths:

- Non-Residential: LEED Certified
- Educational: LEED Gold
- Mixed Use Space in Residential Project: LEED Certified
- Residential: No requirements

LEED Standards

- New Construction & Major Renovations
- Commercial Interiors
- Core & Shell
- Healthcare
- Retail: Commercial Interiors
- Retail: New Construction & Major Renovations
- Schools



112 DCMR K, 202 212 DCMR K, 302.2 312 DCMR K, 202 4 Gross floor grea as defined in 11 DCMR. 199 § 12 DCMR K 302.3.4 applies to DCPS and DC public charter schools only, all other educational uses (universities, etc) shall comply with Non-Residential requirements

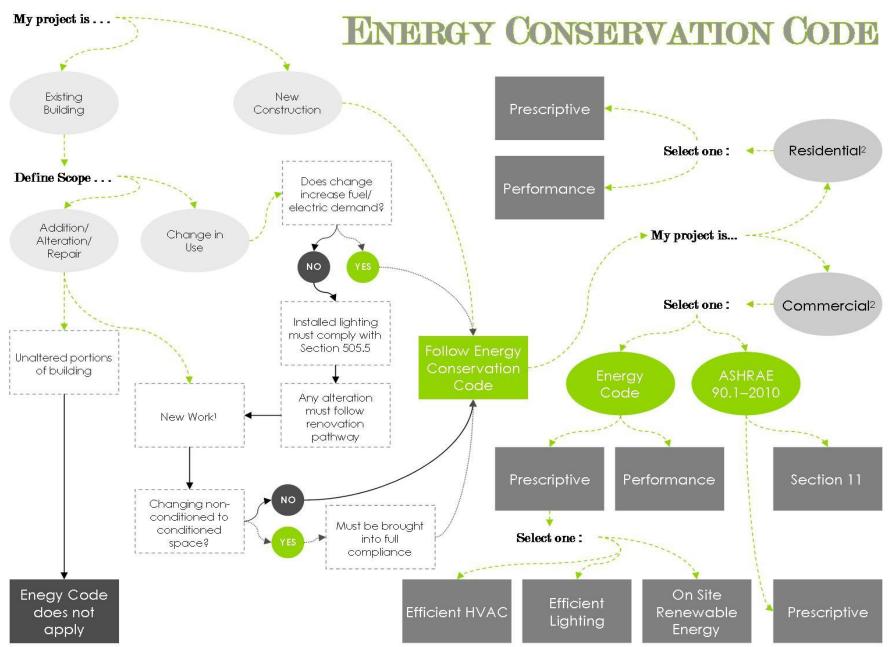
REGULATIONS

Energy Conservation Code

30% more energy efficient through increased requirements for air sealing, insulation levels, and building systems

Has two separate divisions

- Commercial
- Residential



 $^{^{\}rm I}$ reference 12 DCMR A 101.4.7.5.3 Additions, Alterations, Renovations or Repairs. $^{\rm 2}$ as defined by the Energy Conservation Code

BUILDING ENVELOPE

Intent

Set minimum levels of thermal performance for all components of the building envelope to reduce heat gains and losses across all climate zones.

BUILDING ENVELOPE

- Insulation and Fenestration
- Roof Solar Reflectance
- Air Leakage

MECHANICAL SYSTEMS

Intent

Provide guidelines for effective energy performance of mechanical systems regardless of the type used (simple or complex) through right sizing and controls.

MECHANICAL SYSTEMS

- Calculation of heating and cooling loads
- Equipment and System Sizing
- System Controls
- Ventilation

SERVICE WATER HEATING

Intent

Employ basic, cost-effective design practices to reduce energy used by minimizing both heat and water losses over the system.

SERVICE WATER HEATING

- Performance Efficiency
- Temperature Controls
- Heat Traps
- Pipe Insulation
- System Controls

ELECTRICAL POWER + LIGHTING

Intent

Reduce consumption and improve lighting conditions through efficient lighting products. Reduce heat added to spaces that must be removed by air conditioning.

ELECTRICAL POWER + LIGHTING Key Requirements

- Lighting Controls
- Interior lighting power
- Exterior lighting
- Electrical Energy Consumption

EFFICIENCY PACKAGE OPTION

Intent

Provide flexibility to achieve energy savings needed to meet the overall energy savings goals.

EFFICIENCY PACKAGE OPTION Key Requirements

- HVAC
- Lighting
- On site renewable energy

TOTAL BUILDING PERFORMANCE

Intent

Offer maximum flexibility and give credit to innovative solutions for building designs to meet the energy goals

TOTAL BUILDING PERFORMANCE Key Requirements

- Mandatory:
 - Air leakage
 - Mechanical Systems
 - Water heating
 - Lighting
- Performance

SYSTEMS CX

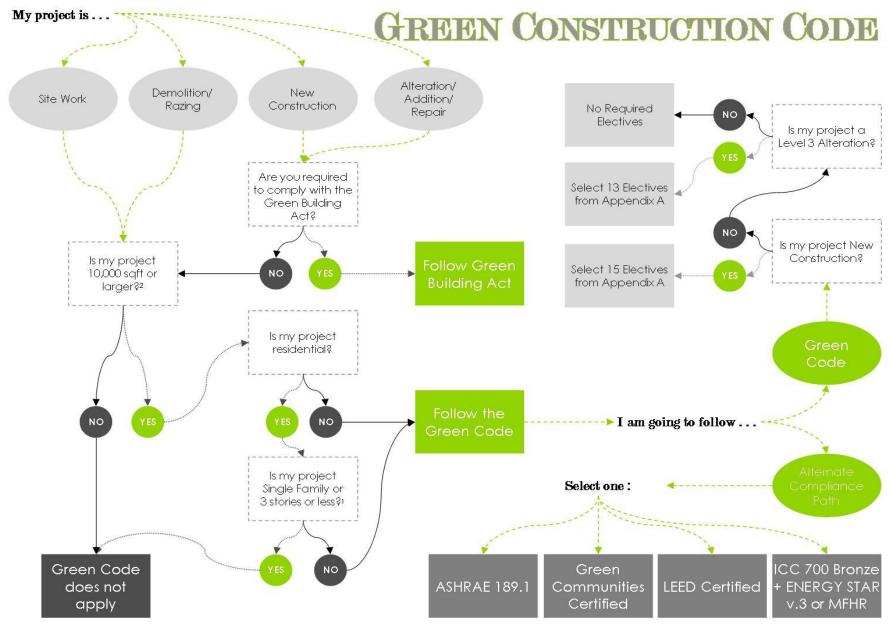
- Triggered through compliance with IgCC
 - New Construction
 - Level 3 Alterations
 - Level 1 and 2 Alterations over 50,000
 sqft

REGULATIONS

Green Construction Code

Applies to the construction, addition, alteration, repair, razing, demolition of buildings/structures:

- Non-residential (10,000 sqft+)
- Multifamily residential 4 stories and larger (10,000 sqft+)
- Demolition/Raze (10,000 sqft+)
- Site Work (10,000 sqft+)



SITE DEVELOPMENT

Intent

Address actions related to limiting the negative effects of building on a site, as well as protecting, restoring and enhancing the natural features of the building site and the surrounding environment.

SITE DEVELOPMENT

- Native and Invasive species
- Site Waste Management
- Heat Island Mitigation
- Site lighting

SITE DEVELOPMENT

Appendix A

- Wildlife corridor
- Infill site selection
- Brownfield site selection
- Site restoration
- Mixed use development
- Changing and Shower Facilities

- Long Term bicycle parking and storage
- Heat island (75-100% compliant)
- Green Roof covering
- Native planting (75-100% compliant)
- Electric Vehicle
 Charging

MATERIAL RESOURCES

Intent

Mitigate the impact of building materials through their lifecycle including extraction, manufacture and disposal through provisions related to material selection, recycling, reuse, renewability, toxicity, durability, and resistance to damage.

MATERIAL RESOURCES

- Construction Material Management
- Construction Waste Management
- Material Selection (50,000 sqft +)
- Lamps
- Building Moisture Control

MATERIAL RESOURCES

Appendix A

- Waste management (70% compliance)
- Landfill maximum (4 lbs/sqft)
- Material Selection (50-75% compliance)
- Building service life plan
- Design for deconstruction
- Existing building reuse
- Historic building reuse

ENERGY CONSERVATION

Intent

Reduce the use of energy in buildings and on building sites through design, construction, commissioning and operation by including energy metering, selecting efficient equipment, including renewable systems and properly commissioning the project to achieve its energy goals.

ENERGY CONSERVATION

- Prescriptive Performance Pathway
- Modeled Performance Pathway
- Energy Metering, Monitoring and Reporting
- Automated Demand Response Infrastructure
- Appliances and Equipment
- Energy Systems Commissioning and Completion

ENERGY CONSERVATION

- Energy Metering, Monitoring and Reporting
 - All New Construction
 - Complete Electrical System
 Replacement
 - Except Group R Occupancies

ENERGY CONSERVATION

- Automated Demand Response Infrastructure
 - All New Construction
 - Complete Electrical System
 Replacement
 - Except Group R Occupancies

ENERGY CONSERVATION

- Energy Systems Commissioning
 - All New Construction
 - All Level 3 Alterations
 - Level 1 and 2 Alterations over
 50,000 sqft

ENERGY CONSERVATION

Appendix A

- zEPI reduction
- Mechanical systems increased efficiency
- Service water
 heating increased
 efficiency
- Lighting system increased efficiency

- Passive design
- Renewable energy systems
- Green power purchasing
- Energy display
- Permanent Shading devices

WATER CONSERVATION

Intent

Protect the potable water supply as a raw material that is viewed as a precious commodity by reducing the amount of water used in buildings, and providing paths to reclaim and reuse water in a safe and effective way.

WATER CONSERVATION

- Fixtures, Fitting, Equipment and Appliances
- HVAC Systems and Equipment
- Water Treatment Devices and Equipment
- Metering

WATER CONSERVATION

Appendix A

- Onsite waste water treatment
- Nonpotable water for outdoor hose connections
- Nonpotable water for plumbing fixture flushing

- Nonpotable water for industrial process make up
- Nonpotable water for cooling tower make up
- Grey water collection

INDOOR ENVIRONMENTAL QUALITY

Intent

Focus on the essential elements of what makes an indoor space occupiable by providing good indoor air quality, thermal comfort, noise control, and natural lighting. These items of a building focus on human comfort, productivity and overall satisfaction of users.

INDOOR ENVIRONMENTAL QUALITY

- Building Construction Features,
 Operations, and Maintenance
- HVAC Systems
- Prohibited Materials
- Material Emissions and Pollutant Control

INDOOR ENVIRONMENTAL QUALITY Appendix A

- No VOC Flooring materials
- No VOC ceiling materials
- No VOC wall materials
- Total VOC limit

- Views to the exterior (50-75% compliance)
- Daylighting
- Post Construction IAQ testing
- Post Construction flush out

COMMISSIONING

Intent

Commissioning of a project is used to assist and encourage building owners and facility managers to operate and maintain buildings at a performance level that was originally intended by design professionals. Requirement for commissioning provide independent verification that all systems of a project are installed and operating correctly.

COMMISSIONING

- Completed by a registered design professional or other approved agencies
- Preliminary report due before final inspection
- Final report due within 180 days of CoO issuance

COMMISSIONING

- Required for projects with new equipment and systems or total replacements
 - All New Construction
 - All Level 3 Alterations
 - Level 1 and 2 Alterations over 50,000 sqft

TIMELINE

Design Permit Inspection C of O Post Occupancy

DESIGN PHASE

Determine Applicability

- Determine all compliance paths
 - GBA LEED or Green Communities
 - GCC GCC (and Energy prescriptive or performance), LEED, 189.1, EGC, NGBS
 - ECC ECC (prescriptive or performance), 90.1 (prescriptive or performance)

DESIGN PHASE

Preliminary Design Review Meetings

- Meeting to review plans for code compliance prior to permit submission
- Fee for projects
- Scheduled months in advance
- 90 minutes
- PDRM Coordinator: Ms. Toni Taylor, toni.taylor@dc.gov

DESIGN PHASE

Green Review Meetings

- Meeting to review plans for green compliance prior to permit submission
- Free to projects, 60 minutes with plans
- Contact <u>green.building@dc.gov</u>

Process

- Permit Application Online
- Intake @ 1100 4th St SW
- ProjectDox
- Review/Comment/Revise
- Issuance

Submittal Documents

- Green Building Act
- Energy Code
- Green Code

Green Building Act

- Share online account with green.building@dc.gov
- Complete registration and checklist tracking correct number of points (LEED)
- Complete Prebuild Certification (Enterprise)
- Energy Star Target Finder

Energy Code

- Energy Verification Sheet
- Energy Model Inputs/ Outputs
- Load Calculations
- Supplemental Documentation
- Code compliance reflected in drawings

Partie &	-45***					
Completon	Peti Unit :: Provide	pTrade-0ff		:: Perform	nance	
	: New Horn-Real dental Project	p Non-		Addition to	Farrend	on
2013 DC Energy Code Sect. 9	For-Espective Section Description	Promorbation Code Value	Page Vilor	Designer described Desp Prope	Plan Respec	P#
101.478. 0402.412	Phills, specification, students and colorest plan into the students of the law students are students and students are students and students are students and students are students are students. Students are students are students are students are students are students are students.	*/4				
0400.0.1	Provide Size of All Columbs Well Arms in Stages Free	N/A				
CHOLES	Provide Size of All Extrapor Window Area in Signate Foot	N/A				
0403.2.1	Calculate Wastow to Wall Area (1999) bossed on values above.	B/04				
0433.2.1 58	I Title 305, then procession and opposit to easy grison exception and oderation.	R/A				
980.5.2	in entainment dentem > 10,000 all discoulte enter a rest solid military hospitar (150 m) and spirated despitare encouparation (Since Gooks), the following reprisements reports (10 m) and the second of the second property of the second of the second second (10 m) and the second of the second second (10 m) and the second of the second (10 m) and the second (10 m).	n/a				
121,4,7,6 0106.2 MR	Figure specifications, and establishes give this for machinish average compliance.	N/A				
0405.81 0405.82 ER	Lord refraktions per APPINE 1921. Eggproett staat to die sendest prostite with sendest approach options.	8/0				
101.4.3.8 0408.3 DR	Plane, doze, quece, / calco and managine role, giver for interior lighting systems and egiptown.	N/A				
101.47.6 18	Pillin, ches, apres / cities and managetic late, giver for exterior lighting systems and engineers.	N/A				
0469.3.4.6 Bi	Press publicate and storyfor melting system straits for traffic contraction to controls.	N/4				
DI A MI	Project from selects one of Paper options, Alvagency 1) Eighting performance 2) Histor performance (whole project area) CE 2) Secretal Energy CS Wings for being OF 35 Mills fast water	*^				

1013 DQ Darley Code Sect. #	Foreign Importan	Prosting the Code Table	Ple Valo	Herital Day Fape	Plate Series	2
olesii.i	Makes Grade Associates Med Value.	P-7.5				
EXECUTE PARTY	Pater Grote tradefor that Britains per tradefacture's trademics	11/4	15/0			Г
98	file eige bedelte vale	R-10,34" Inhesish R-20,36"				
C303.2 MSP	tisk edge baddetes butalist per moratument battachtes	N/A	H/M			
0403.2.7. 0408.2.6. 58	Dr. Beddie pateiter opier denge, andpt, miner, stel bedensing minerare effette.	H/A				
0403.2.7 0403.2.8 MR	Pything attacks that planters the broadfast and contact when periodical in our order is disk	H/A				
0408.2.8 M	Retice carties of tear stracture exits redget housing tradebid to R-25	8/A	N/A			
0403.2.4 E	Press protection it specifies making up, naturally for Little coldection to coldect.	N/A	N/A			

Strict Code Sharp Code Sect. 4	Frentry/ Road—b Reporter	Section 1	Valu/	Identified Deg Flage	in.	ries logo
E3851.3 SR	Presentation products one contribut on to the porturnation labels or contribution.	N/A				
	Confirment all—border in symptot, segled, equival, parted, toped in appared feature. Assembles bleef Acres 8 2007, ACRE E 1877, or ACRE E 280	N/A	*/*			
8	il-tector of gauge diere associates with the satisfue discool arrelage mosts requirements.	Swinging (F-0,0) Not-Code N-1.35				
,	Fenetration products rated in accordance with EPRC.	N/A				
D402.4.2 C402.4.4	Pestrop-traffi forantestion & despe you lebeled on pracelling dr-ledwige registrometre.	N/A	H/A			
5	Vestinates are testified where hability environce expensive conditioned space them for exhibiting a repairment. Describing a repairment of them and design devices in one 1 feet quart.	1/4	14/4			
0400.4.3 0400.4.4	Varied Pressbutter, II-lanks Final Presentation Quarkle Formitation Elevants show	田棚				
OF 28	Stylight Provention U-factor	U-0.90				
048E3	Stylige Parastrolou (HCC)	940-640				
6488.3 B	Vertical Parasheston SHCC volum	9460-0.40				

Kinyt	Mandatory for all Compliance Approaches as Relevant to the Scope of Work.
	Mandatory for Presortative Parts

HS DC	Planding Rough—b: Expectati	Promitivities Cook Value	Plat Video/ STATES	Section Section Section	25.	C#
MC MC	Arterette or period outstand freshilled to outstan off the restrictating but under system or hard frees.	N/A				
443 H	Temp. merinde brakelted on merine replet brakelte systems (£210 F to even, large, (£894)	H/A				
MO-LO	Respondering engine had writer primer handwided. Under white parties and states with parties of states the parties of the states Resembles to the states.	1" ins. de 3.27 conductivity				
1964 M	Heat Super betaled at non-choulding stroops when Sprin.	11/4			1	

Sect. of	Medicated Hough-In Imperior	Prescription Code Value	Vert/	tymes	Hearthed Con Filter	Han Review	Redd Resp.
E403.25	exchange to a place to be a person of the property of the prop	N/A					
0403.2.3(3) M	PTNC and PTRP with absence 19" by 42" labeled for explanations only.	H/A					
0402.48.1	Not and electric shaft vertice have materiald designers that	N/A					
G100.48.2	Outdoor of and extend springers have protected despect that assumethably slot what but it has it from the maximum belongs sales. Quely greety degrees when direct.	H/A					
C403.2.3	MINE equipment regulated by Perford National Assistance Diverse Conservation Aut Insells regulationality.	See Code William					
0483.210	Each HAM system with total fan makes 200F date mak- somed the althought for system poster remojette HP of the fills system believ horse poster.	H/A					
C408.2.8.1	londries agreed to weather be pertented from deening. Innights orticle of the cardiffeted space it desco. with cooling systems is repor- retainment.	H/A					
0458.3.7 M	FIRST states and placeme beninged pay space registrations.	Dresend. space Rive. Dridge hudding Rive					
CHCS.E.S	PARTY THE STREET						
0405.2.6 M	Boundy treflective panel articles of soluble bearing parels have tredition +2.5	9-35					
0403.2.7 M	hats and Phoens maked blood on 1989s pleasable.	14/4					
0400.2.71.3 M	Declary's mornifys > 3 in. mg. reguless of Selenge Selling.	N/A					П
0405.245 WR	Chicago province Table	H/A					
PA	All modulations provided others required, must the presidents for desting expects, method district, and tight-Britt shall—off and bringwater modulation modulations.	8/A					
0400.3.1.1.3	come profile to release	14/4					
0403.3.1 MR	Water committee probled shall registed, but the requirements for design regardly, produces, pressgra dry and belongsted and and the collisis and beating system impact.	H/A					
0003414 MR	Degrapher openfür vill get bereite bestigt grapp ein derby servel destrick.	8/4					
0403.4.1.4 MR	Zero costedu cen limit elinitativo de teating de costeny and companie harring de cooling in early stope.	N/A					
0405.4.2 MT	erb variate parts blates, er lette controls to last tax	*/*					
0403.23	Hydratic text putry systems connected to a common report to pract heat reporter and heat statems relationships.	8/A					
0485.45	Debrackforter centrels Probled to please releasing, recording, mixing of but and cold divisions or concerned feating is cooling of the sales distribute.	1/A					
0403.3.1	These accessmine specified or hydroxic coaling & handfriction systems designed to restrict made humiday at 200 F despoin a or accessmine is required.	8/A					

	Derty Ged Derty Gede	Madagring Fragil-to Inspection	Pressrptive Cook Vision	Plan Walk/ Drodeny	Spatrages	Designer Martiner Des Page	Ner breier	35
	D465.4.4 MR	Each for powered motor 3—13 HP; this expectly to afterurally quests of \$ expectly for disrupt temp.	8/4					
	0405.47 MR	Het ges topoes systems befret to: ex240 sites/h - 201 x640 sites/h - 201	14/A					
-	C403.4.2.1	vw irre hav data provide which postated to expelic e- 1/3 tool deep presers.	N/A					Г
	0102-12-2	tend about present extends by DDC copyright War house sporting to control contribu- bled of the same registry. The case present	N/A					
	0465.4.2.2 W	indight are We colored orb Mill of reboiled area been been elifts present subject reset controls.	жа					
	C#05.4.5 W	italigie care IANC epitore have supply at temperature reset controls.	14/4					
	415.4.5.2	Hydronia, two pipe handing gold coding nation offer 16 day F emitter trops, and 4 hand challed informat handing and cooling.	N/A					
	648434	Trapetalite toof by representative believe tools in hydron diller and leaf- systems in 200,000 Bhuft.	1/4					
- 1		Terrypolitic enterestic volumentation in the service of the servic	H/A					
	0102.43.21 H	hydratic tend putries stuff hims a under shed based of 20 day, P between load reportion and hear edifficie.	14,04					
	040343. 321 W	Hydroin heat puring, best rejected systems shall be stille to topicion conflig forest or stop hear exchange.	16/4					
	0402.4.5.4	with deal other react near temp, by modes or near temp, of redges pump the by this do this, or other						
	0403.4.25 M	Ryderic Florip tectation for equipment of Test of Feder cliffor shall be tectualed.	N/A					
	0403.4 <i>e</i>	Continuor hard removery system that out hard refer to the form of the first of the first of the first order to the first order	N/A					
	C403.2.11	Unavalued space that are leased see only relian best.	ś					
	0404.R M	Service water hearting equipment treats efficiency represents.	N/A					

Dietay Code	Cherried Frage-to Imposition	Promot person Goods Visitors	Value/	Identified Deg Page	Han Seden	Fall
0400.2.2.1 EN	entropy of project against by a state of an project against by a state of any extended, or according to accor	H,/A				
0408.2.1.1 EX	independent lighting control reachly accessible and visible to acceptants.	H/A				
0408.21.2 04	independent lighting control type of last tipes risper GF, CA, and are stop o-door lighting power.	\$				
EN	As company, weren or five automatical trains of light and water of light 20 tels. Other water for any and a support of the company of the company of the company fundament	N/O				
	For spaces not included in CHCL2.1.1., seating device double and control for including of the device double control. Chords of my scheduled short off control in disseal for remainant of 2 hours.	H/A				
	deplication controls byland services	H/A				
0100.2.2.3	Chairmed grown upday and place of a compact with required before controls required from general bipological (10 ft. from and bipological (10 ft. from and bipological	1/4				
6485.3.4	Actorate lighter certain for experie lighting behaled in project.	N/A				
CHOS.4 BH	Est signs do not exceed 5 works per face.	Water/Tere				
0405.3 ER	Spring witing to project for received, flatmount large with 10 feet of the distinct AID to predent to sarking project flatmount lights projected it that edge to edge of the distinct.	10/4				
C408.8.2 Dr	Ext. Apriling 2000's provides 200 km/W unless on rection extent	14/4				
D405.5.3 D4	Uplining Four County is estimated by Building Arm Serbod or Space by Space serbod. Collections provided to plane.	W/A				
C408.2.3 ER	thinging mits have of least one resident article of the room entry door that controls the vived lamberium and	N/A				
C405.2.3 ER	Separate thatting parties shown for specific come parties and parties and parties of the parties	H/04				

SOLS DO Design Green Sect.	budete beputte	Franchiste Code Video	Veloc/	Control Merie Page Cong Page	Plan Parties	캙
0035.4.1.3 98	All soutces of of lestings is the habiting discense or makes you singled, explained, optioned or weather stripped to mistrice of lestings.	H/Os				
040511	Reef R-rates. Acres Deck.	1-15 al- 1-15 al- 1-15				
84 030075	Boof besisties installed per properties of instructions. Boom or paged loose 40 beststies testand only where the roof slope 3= 3/12	4/4				
0408.2.1 88	Supply cade beautiful to the load of ports with medicine show deck of R-S.	8/4			П	Г
20 CHETT)	Reproducts cost and adversaries of 0.70 & formed artifacts of 0.70 of \$6 of \$5.	N/A				
C402.1.1	Above Grade and Fundament Residue. Monte Story Miles Story Story Monte Francis	1000				
CSOL2 NSP	Acce then we bushed builded per provincially represents.	N/A				
0409:1.1 58	Roor buddie R-vda. Hale Dad-jake Hoof-tgreet	-8 -8 -19 -10				
0303.2 RSP	Roor budette tutabel per menututanin onginerois.	H/A	8/4			
0300.1.2 N2P	they savespe them is unused a/ 8-well or head, certificate.	N/A	H/A			
C300.2.1	Erceter had alto in protected from change with protective motorical.	H/A				
C402.3.1	Terbus real business are not to installed on top of a represent only.	H/A				

Dergy Code	Red because	Prescription Code Volum	Water /	Indepty Identified Day Page	Page Rendere	Pier.
0402.4# SR	Verberede betaled er all leades deck oarge deze in Calento Zabon 4–0	N/A				
000324	Healthy drift coating to each zone is controlled by a Treprompt	N/A				
0400.8.4	Depresently copyed have a 5 degree death and	H/A				
0403.2.4	Temperature controls have suspent owners provided.	H/A				
0403243 H	Sect time approad with authors subtrate stating automorals time clock or programmable control system.	14/4				
0402.24.3 M	Agin. Cardrole: Subject to 65 day F (hear) and 65 day F (sod): 7 day, 2 hour compant courts, 10-hour lepton.	H/A				
0400.2.4 M	detriers of one limiting coldest device per habitate deleniabilisation/ naniabilisation system	H/A				
0403.2.4	System belak options dat contac	N/A				
0408.247.74 W	test pump controls present applicated dark restrance lead trap condep or when let rested.	1/4				
C4032	I'm) system and opposed opacity does not seem!	H/A				
0404.5	Provide location regard benjamentary of the dep. E.	Deg P				
CHOUS N	Automotic or prompt emphasis on metallic for time for question of a freezeming metallic sole females or hand reports for demand direct	H,A				
040472 N	Peol begins are equipped with anylot author and are continuous burning silet light.	8/0				
000173	First covers that are repor retroduct one probled for heated pade.	Vapor Patricians				
040LT2	Attends the estates as medical or of post busines and paper.	N/A				
0432.4.8 E	Research beringen in the control or other to their before and by Errored and lebest to the between the control or the control	1/4				
000000	instilled large and fictures are constitute with what is shown on the approved lighting plane, which describing proposed with at less that of appl to allowed works.	H/A	н,о.			
0408.8 EH	Exhibit Hatting power demonstrated proposed with go less than or equal to discool watto.	H/A	N/A			
19.4.3 E	Bretter up designed with proper bylang, validation power, and selectly mode.	N/A				
					_	

DCRA Energy Verification Sheet

2013 DC Energy Code Non-Residential

Version 1.0, 201

A single of their resistance of the single o

EN-1

		MR	or heat trace.						
N/A		C404.3	Temp. controls installed on service water heating systems (≤110 F to max. temp. range)	N/A					
N/A		C404.5	Recirculating service hot water pipes insulated. Under slab piping verified during Foundation Inspection.	1" ins. <=0.27 conductivity					
. N/A		C404.4	Heat traps installed on						
N/A		M	non—circulating storage water tanks.	N/A					
		2013 DC Energy Code Sect. #	Mechanical Rough—In Inspection	Prescriptive Code Value	Plan Value/ Strategy	# Systems	Designer Identified Dwg Page	Plan Review	Field Insp.
N/A		C403.2.5	Demand control ventilation provided for spaces >500 ft2 & >25 ppl/1000 ft2 occupant density & served by systems with air side economizer, auto modulating outside air damper control or design air flow > 3,000 CFM	N/A	32		J		
. N/A		C403.2.3(3)	PTAC and PTHP with sleeves 16" by 42" labeled for replacement only.	N/A					
N/A		C402.4.5.1	Stair and elevator shaft vents have motorized dampers that automatically close.	N/A					
N/A		C402.4.5.2	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use & meet the maximum leakage rates. Check gravity dampers where allowed.	N/A					
N/A N/A		C403.2.3	HVAC equipment regulated by Federal National Appliance Energy Conservation Act meets requirements.	See Code Tables					
N/A			Each HVAC system with total fan motors ≥5HP does not exceed the allowable fan system mostor nameplate HP or the fans system brake horse power.	N/A					
		C403.2.8.1	Insulation exposed to weather is protected from damage.						

Green Construction Code

- IgCC Energy Path
- Commissioning Plan
- Project Elective Checklist
- Credit-Specific Documentation
- Code compliance reflected in drawings

INSPECTIONS

Process

- Footing/Foundation/Slab
- Framing
- MEP Rough-in
- Insulation
- MEP Final
- Building Final

INSPECTIONS

Process – Third Party

- Pre-Construction
- Rough-In
- Building Final

CERTIFICATE OF OCCUPANCY

Documentation

- GBA
 - financial security (private)
- GCC
 - Completed Site Waste Management Form
 - Completed Construction Waste Management Form
 - Commissioning Acknowledgement
 - Preliminary Commissioning Report (if requested)

POST OCCUPANCY

Documentation

- GBA/GCC Alternate Compliance Path
 - Certification (2 yrs/180 days)
- GCC (180 days)
 - Material Selection Form
 - Final Commissioning Report
 - Additional documentation for Project Electives

QUESTIONS?

green.building@dc.gov

http://dcra.dc.gov/page/green-building-program
http://buildgreenDC.org