

DCRA Energy Verification Sheet

Single Family & Low-Rise Residential

Version 1.2_2015

The Energy Verification Sheet (EVS) is a communication tool between the code official and the project team. It was developed by the District Department of Consumer and Regulatory Affairs (DCRA) based on the Department of Energy's Score and Store spreadsheets and adapted to the 2013 DC Energy Conservation Code (ECC). In design, it serves as an Energy Code checklist, during plan review it points the reviewer to the location in the drawings where the ECC is addressed, and in the field it is used by the inspector to understand what is required of the project. Please note, this Energy Verification Sheet does not replace the ECC, but references to where the ECC is being complied with in the drawings, specifications or other documents that have been submitted to DCRA. If you have questions about how to fill out the EVS, please visit our website at www.buildgreendc.org or email us at green.building@dc.gov.

Address:

Compliance Approach Used: Prescriptive Performance

Project Type: New Building Addition Level 3 Alteration

2013 DC Energy Code	Final Inspections	Prescriptive Code Value	DWG Page	Additional Notes
302.1, 403.6 MR	Heating and Cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J	-		
2013 DC Energy Code	Foundation Inspections	Prescriptive Code Value	DWG Page	Additional Notes
402.1.1 SR	Slab Insulation R-value. Perimeter insulation extending downward from the top of the slab surface	Unheated R-10 Heated R-15		
402.1.1 SR	Slab Insulation depth.	2 feet		
402.1.1 SR	Conditioned basement wall insulation R-value. Where internal insulation is used, verification to occur during insulation inspection	Continuous R-10 Cavity: R-13		
303.2 I	Conditioned basement wall insulation installed per manufacturer instructions.	-		
402.2.8 SR	Conditioned basement wall insulation depth of burial or distance from top of wall.	10 ft or to bsmt. floor		
402.2.10 SR	Unvented crawlspace wall insulation R-value	Continuous: R-10 Cavity: R-13		
303.2 I	Unvented crawlspace installed per manufacturer's instructions	-		
402.2.10 SR	Unvented crawlspace continuous vapor retarder installed over exposed earth, joints overlapped by 6 in. and sealed, extending at least 6 in. up and attached to the wall.	Continuous R-10 Cavity: R-13		
402.2.10 SR	Unvented crawlspace wall insulation depth of burial or distance from top of wall	To finished grade +24 in. vert. & / or horiz.		
303.2.1 S	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	-		
403.8 ER	Snow and ice-melting system controls installed.	-		

2013 DC Energy Code	Framing/ Rough-In Inspection	Prescriptive Code Value	DWG Page	Additional Notes
402.1.1, 402.3.4 SR	Door U-factor	U-0.35		
402.1.1, 402.3.1, 402.3.3 SR	Glazing U-factor (Area weighted average, show proof of average if any u-value is less than 0.35)	U-0.35		
402.1.1, 402.3.2, 402.3.3, 402.3.6, SR	Glazing SHGC value (Area weighted average)	SHGC: 0.4		

2013 DC Energy Code	Framing/ Rough-In Inspection	Prescriptive Code Value	DWG Page	Additional Notes
303.1.3 I	U-factors of fenestration products are determined in accordance with the NFRC or the default table values.	-		
402.1.1, 402.3.3, 402.3.6 SR	Skylight U-factor	U-0.55 (15 square foot exemption)		
402.1.1, 402.3.3, 402.3.6 SR	Skylight SHGC	SHGC: 0.30 (0.5 max w/ tradeoff. 15ft² exempt)		
303.1.3 I	SHGC values were determined in accordance with the NFRC or the default table values.	-		
402.1.1 SR	Mass wall exterior insulation R-value.	R-13 Interior R-8 Exterior		
303.2 I	Mass wall exterior insulation installed per manufacturer's instructions.	-		
402.3.5 SR	Fenestration in thermally isolated sunrooms has a max. U-factor of 0.45. All other sunroom fenestration must meet code requirements.	Not Isolated 0.35 Isolated:0.45		
402.3.5 SR	Skylights in thermally isolated sunrooms has a max. U-factor of 0.7. All other sunroom skylights must meet code requirements.	Not Isolated 0.55 Isolated:0.7		
402.4.1.2 SR	Additions, alterations, renovations and repair shall be completed in accordance with Table 402.4.1.1.	Not Isolated 0.55 Isolated:0.7		
402.4.1.1 I	Air and Thermal Barrier installed per Manufacturer's instructions.	-		
402.4.3 I	Fenestration is listed and labeled as meeting AAMA/WDMA/CSA 101/I.S. 2/A440 or does not exceed code limits per NFRC 400.	0.3 CFM/ft²		
402.4.4 E	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤ 2.0 CFM leakage at 75 Pa.	-		
403.2.1 MR	Supply Ducts in attic are insulated to ≥ R-8. All other ducts in unconditioned spaces or outside the building envelope are ≥ R-6.	Attic: R-8 Other: R-6		
403.2.2 MR	All joints and seams of air ducts, air-handlers, and filter boxes are sealed.	-		
403.2.3 MR	Building cavities are not used as ducts or plenums.	-		
403.3 MR	HVAC piping carrying fluids > 105°F or fluids < 55°F are insulated to ≥ R-3.	HVAC Pipe ≥ R-3		
403.3.1 MR	Protection of insulation on HVAC piping.	-		
403.4.2 MR	Hot water pipes are insulated to ≥ R-3.	-		
403.5 MR	Auto./ gravity dampers install on all intakes/ exhausts.	-		

2013 DC Energy Code	Insulation Inspections	Prescriptive Code Value	DWG Page	Additional Notes
303.1 I	All installed insulation labeled or installed R-values provided.	-		
402.1.1, 402.2.6 SR	Floor Insulation R-value	Wood: R-19 Steel: R-19+6		
303.2, 402.2.7 SR	Floor insulation installed per mfr instructions, and substantial contact with underside of floor.	-		
402.1.1, 402.2.5, 402.2.6 SR	Wall Insulation R-value. If a mass wall with ½" insulation on the wall exterior, ext insulation applies.	Wood:R-20 or R-13+5 Mass: R-13 Int. R-8 Ext. Steel:R19+8		
402.1.1 SR	Mass wall exterior insulation R-value.	R-13 Interior R-8 Exterior		
402.2.12 S	Walls of thermally isolated sunrooms have a min. R-13. All other sunrooms must meet code requirements.	Isolated:R13		
302.2 I	Sunroom walls insulation installed per manufacturer's instructions.	-		
402.2.12 S	Ceilings of thermally isolated sunrooms have min. R-24. All other sunroom ceilings must meet code requirements	Isolated: R-24		
302.2 I	Sunroom ceiling insulation installed per manufacturer's instructions.	-		
2013 DC Energy Code	Final Inspections	Prescriptive Code Value	DWG Page	Additional Notes
402.2.1, 402.2.6 SR	Ceiling insulation R-value	Wood: R-49 Steel: U-0.026		
303.1.1.1, 303.2 I	Ceiling insulation installed per mfrs instructions. Blown ins. marked every 300ft²	-		
402.2.3 SR	Baffle over air permeable insulation adjacent to soffit and eave vents.	-		
402.2.4 SR	Attic access hatch and door insulation ≥ R-value of adjacent assembly.	SR-value of adjacent assembly		
402.4.1.2 I	Blower door test @ 50 Pa ≤ 5 Air Changes per Hour. Applies to Level 3, Gut Rehab, New	ACH50 ≤ 5.0		
402.4.1.2 I	Wood burning fireplaces have tight fitting flue dampers and outdoor air for combustion.	-		
403.2.2 I	Total Duct leakage test ≤ 8 CFM/100 ft² with air-handler installed.	≤ 8 CFM/ 100 ft²		
403.2.2.1 I	Air-handler leakage designed by mfr. at ≤ 2% of air-flow.	-		
403.6 I	HVAC equipment type and capacity as per plans.	-		
403.1.1 MR	Programmable thermostats installed on forced air furnace	-		
403.1.2 MR	Heat pump thermostat installed on heat pumps.	-		
403.4.1 MR	Circulating hot water systems have auto. or accessible manual controls.	-		
404.1 ER	75% lamps in permanent fixtures or 75% permanent fixtures use high effic. lamps	-		