

NGBS Scoring for New Construction ICC 700-2008 National Green Building Standard™

Revised August 17, 2011

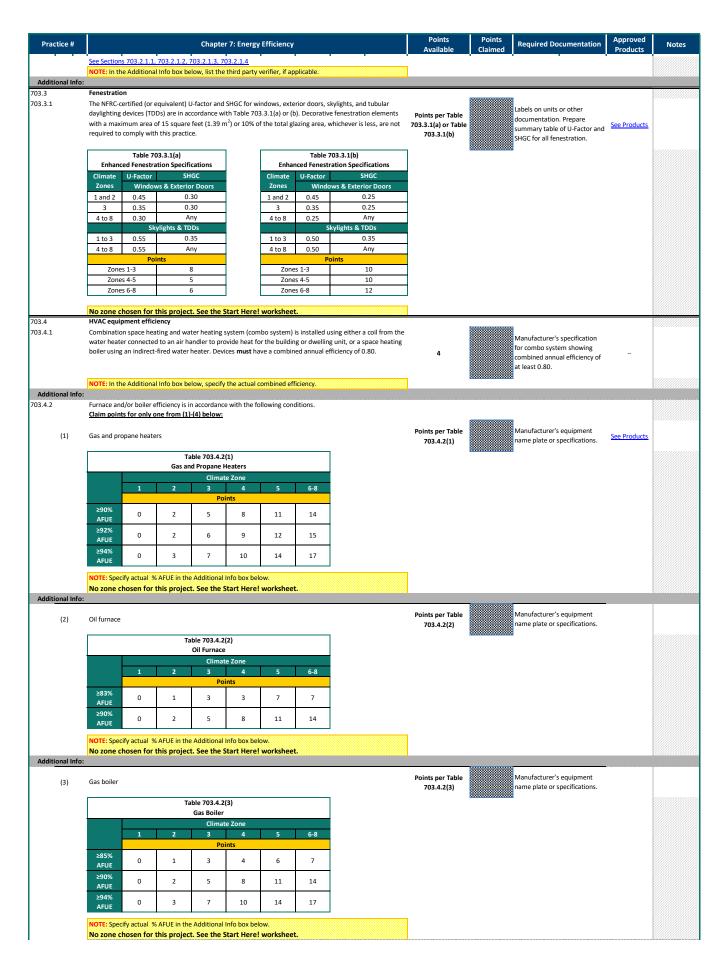
This project has not met all the requirements for Bronze, Silver, Gold, or Emerald.

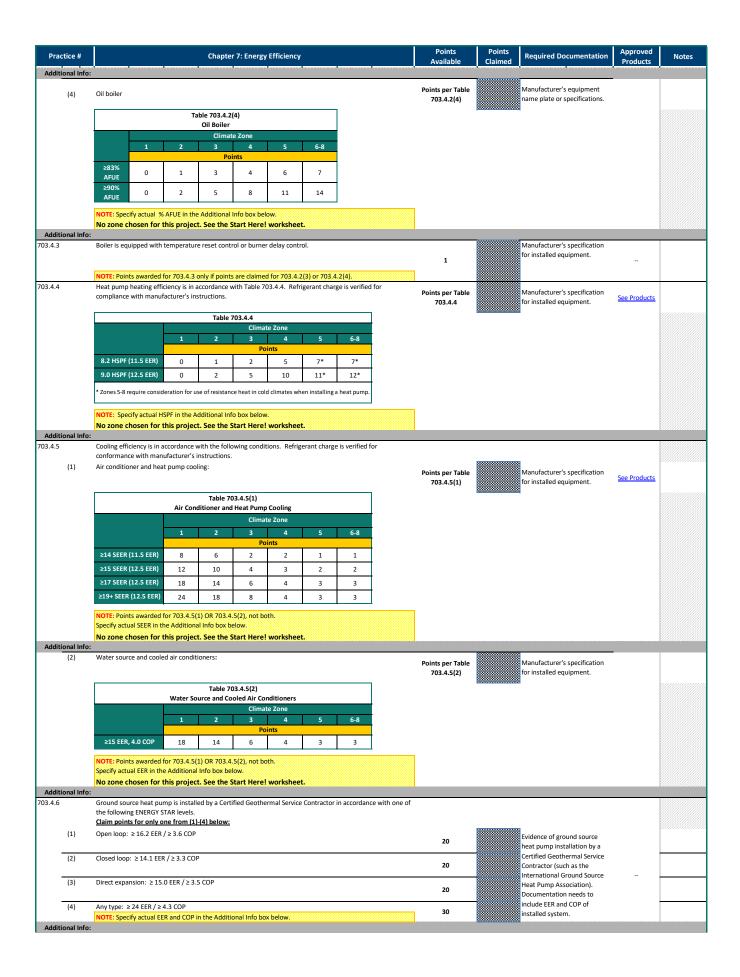
	Current St	atus	ı	Performance Level Minimums					
	Score	Mandatory	Bronze	Silver	Gold	Emerald			
This Chapter	0	Not Met	30	60	100	120			
This Project	0	Not Met	222	406	558	697			
701.1 -	Energy Path chosen:	You must	choose an	Energy Pati	າ in 701.1				

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Practice #	Chapter 7: Energy Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
701 - Minimum I	nergy Efficiency Requirements					
701.1	Mandatory requirements: The building shall comply with either Section 702 (Performance Path) or Section 703 (Prescriptive Path). Items listed as "mandatory" in Section 701.4 apply to both the Performance and Prescriptive Paths.	You must cho				
701.1.1	Minimum Performance Path requirements. A building complying with Section 702 shall exceed the baseline minimum performance required by the ICC 2006 IECC by 15%, and shall include a minimum of 2 practices from Section 704.			Software report indicating at least 15% over the IECC 2006 requirement for this climate location. Acceptable software includes REM/Rate, or Energy Gauge. The same software report can be used to support performance point claim in Section 702.		
701.1.2	Minimum Prescriptive Path requirements. A building complying with Section 703 shall obtain a minimum of 30 points from Section 703, and shall include a minimum of 2 practices from Section 704.					
701.1.3	Alternative Bronze Level compliance. As an alternative, any building that qualifies as an ENERGY STAR* 2.0 Qualified Home or equivalent achieves the Bronze Level for Chapter 7.					
	If you claim the 30 points for practice 701.1.3, this chapter and this project <i>cannot</i> achieve a level higher than Bronze. If you want to achieve Silver, Gold or Emerald, you may not use this option.	30				
	If you claim points for this practice, <u>skip the following sections:</u> * 701.3 - Adopting Entity review * 701.4 - Mandatory Practices * 702 - Performance Path * 703 - Prescriptive Path	for Alternative Bronze Level			See Products	
	You can claim points in Section 704 that count toward additional points needed for the project to reach the began lovel. YOU MUST SELECT AN ENERGY PATH FIRST BEFORE YOU CAN SCORE THE REST OF CHAPTER 71					
704.2						
701.2	EMERALD LEVEL POINTS. The Performance Path shall be used to achieve the Emerald Level.					
701.3 BC	Adopting Entity review. A review by third party shall be conducted to verify design and compliance with Chapter 7 points.	Mandatory		3rd party report showing design has been reviewed to ensure energy efficient performance or specific prescriptive details are adequately implemented in the building's design, and to ensure proper integration of various energy efficient technologies.	-	
Additional Info:	NOTE: In the Additional Info box below, list the reviewer.					
701.4	Mandatory Practices					
701.4.1.1 8C	HVAC systems. Space heating and cooling system/equipment is sized according to heating and cooling loads calculated using ACCA Manual J, or equivalent.	Mandatory		Software output report using ACCA Manual J or equivalent with recommended HVAC equipment sizes.	-	
701.4.1.2 BC	Where installed as a primary heat source in the building, radiant or hydronic space heating system is designed using industry-approved guidelines (e.g., ACCA Manual J, GAMA H-22, or an accredited design professional's and manufacturer's recommendations).	Mandatory, if applicable		When primary heat source in the building is a radiant or hydronic heating system, evidence (e.g., statement from qualified professional) of system design using industry- approved guidelines.	-	
701.4.2 701.4.2.1	Duct systems. Ducts are sealed with tape complying with UL 181, mastic, gaskets, or an approved system as required by the ICC IRC, Section M1601.3.1, or ICC IMC, Section 603.9 to reduce leakage.	Mandatory, if there is a duct system		For buildings with ducted systems provide product spec or trade contractor's scope of work to confirm use of duct sealing using UL 181 tape, mastic, gaskets, or an IRC or ICC/IMC approved system.	-	
701.4.2.2	Building cavities are not used as supply ducts.	Mandatory		None.		
701.4.3	Insulation and air sealing.			Y		
701.4.3.1	GENERAL. Insulation and air sealing is in accordance with the following:					

Practice #	Chapter 7: Energy Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
(1)	Insulation. Insulation is installed in accordance with the manufacturer's instructions or local code, as applicable.	Mandatory		Insulation installation equirements, either manufacturer's instructions or specific local code guidance. Evidence of an approved local code insulation inspection can be used as acceptable evidence for this verification.	See Products	
(2)	Shafts (duct shaft, piping shaft/penetrations, flue shaft). Openings to unconditioned space are fully sealed with solid blocking or flashing and any remaining gaps are sealed with caulk or foam. Fire-rated collars and caulking are installed where required.	Mandatory		None.	See Products	
(1)	FLOORS, FOUNDATIONS, AND CRAWLSPACES Floors. (including insulated floors above garages and cantilevered floors) (a) Insulation is installed to maintain permanent contact with the underside of the subfloor decking, enveloping any attached ductwork within the thermal envelope without compression or air gaps in the insulation. This practice does not apply to ducts or other mechanical equipment that is adjacent to the underside of the subfloor. (b) Batt and loose-fill insulation is held in place by permanent attachments or systems in accordance with the manufacturer's instructions.	Mandatory, if applicable		None.	-	
(2)	Crawlspace. Where insulated, crawlspace wall insulation is permanently attached to the walls. Exposed earth in unvented crawlspaces is covered with continuous vapor retarder with overlapping joints that are taped or masticed.	Mandatory, if applicable		None.	-	
1.4.3.3 (1)	WALLS. Windows and doors. Caulking, gasketing, adhesive flashing tape, foam sealant, or weather-stripping is installed forming a complete air barrier.	Mandatory		Window and door installation detail on plans showing how installation will form a complete air barrier.	See Products	
(2)	Band joist and rim joists. Band and rim joists are insulated and air sealed.	Mandatory, if applicable		Plan details to show how band or rim joists are to be insulated and sealed.	See Products	
(3)	Between foundation and sill plate bottom plate. (a) Sill sealer or other material that will expand and contract is installed between foundation and sill plate, AND (b) Caulk or the equivalent is installed to seal the bottom plate of exterior walls.	Mandatory, if applicable		Product spec to confirm required use of flexible sill sealer or other material between foundation and sill plate and the bottom plate of exterior walls.	See Products	
(4)	Skylights and knee walls. Skylight shafts and knee walls are insulated to the same level as the exterior walls.	Mandatory, if applicable		If R values are not obvious through insulation label provide plan details to show insulation is at same level as exterior walls.	See Products	
(5)	Exterior architectural features. Code required building envelope insulation and air sealing are not disrupted at exterior architectural features such as stairs and decks.	Mandatory, if applicable		Details of insulation and air sealing at penetrations.		
1.4.3.4	CEILINGS AND ATTICS. Attic access (except unvented attics). Attic access, knee wall door, or drop-down stair is covered with insulation and gasketed. Knee wall door is an insulated unit or is covered with insulation.	Mandatory, if applicable		None.		
(2)	Recessed lighting. Recessed light fixtures that penetrate the thermal envelope are airtight, IC-rated, and sealed with gasket, caulk, or foam.	Mandatory, if applicable		Product info to confirm all fixtures penetrating the envelope are IC-rated and airtight.		
(3)	Eave vents. Where ceiling/attic assemblies or designs have eave vents, baffles or other means are implemented to minimize air movement into or under the insulation.	Mandatory, if applicable		None.		
1.4.4 1.4.4.1	Fenestration. NFRC-certified U-factor and SHGC windows, exterior doors, skylights, and tubular daylighting devices (TDDs) are in accordance with ENERGY STAR® (or equivalent) or Table 701.4.4.1. Decorative fenestration elements with a maximum area of 15 square feet (1.39 m2) or 10% of the total glazing area, whichever is less, are not required to comply with this practice.	Mandatory		Labels on units or other documentation.	See Products	
	Table 701.4.4.1 Fenestration Specifications U-Factor					
2 - Performan You did not se 2.1 2.2	No zone chosen for this project. See the Start Here! worksheet. tee Path lect the Performance Path in 701.1. DO NOT claim points for Section 702** Points from Section 702 (Performance Path) shall not be combined with points from Section 703 Energy cost performance levels. Energy efficiency features are implemented to achieve energy cost					
	performance that exceeds the ICC 2006 IECC by the following. A documented analysis using software in accordance with ICC IECC, Section 404, or ICC IECC Section 506.2 through 506.5, applied as defined in the ICC IECC, is required. Claim points for only one from (1)-(4) below:					
(1)	15 percent	30				

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MATTER AND THE PROPERTY OF THE	ditional info:	No zone chosen for t The insulation installatic 703.1.2.3, and/or 703.1 See Sections 703.1.2.1, NOTE: If points are awa In the Additional info be More than 75% of the a according to Table 703.: Climate Zones 1, 2, 3, marine, and 5 c Climate Zones 4 marine dry, and 6 Climate Zones 7 are No zone chosen for t Insulation & air sealing Insulation and air sealing Insulation and air sealing Insulation and air sealing Insulation points for only of third party verification p	his project on is graded	See the 3 by a third p licable. 203.1.2.3, a 1.1, they ca 2.1.1, they ca 2.2.1.2.3 consider third p exterior ope able 703.1. rior Mass V 2.3 consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (5) consider the S (6) consider the S (7) consider the S (8) consider the S (9) consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (5) consider the S (6) consider the S (7) consider the S (8) consider the S (9) consider the S (1) consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (5) consider the S (6) consider the S (7) consider the S (8) consider the S (9) consider the S (1) consider the S (1) consider the S (2) consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (4) consider the S (5) consider the S (6) consider the S (7) consider the S (8) consider the S (9) consider the S (1) consider the S (1) consider the S (2) consider the S (1) consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (5) consider the S (6) consider the S (7) consider the S (8) consider the S (9) consider the S (1) consider the S (1) consider the S (1) consider the S (1) consider the S (2) consider the S (3) consider the S (4) consider the S (5) consider the S (6) consider the S (6) consider the S (7) consider the S (8) con	start Here! sarty and is ind/or 703.1 sand/or 703.1 sand/o	workshee	ce with Section 703.1.2 ction 703.1.2 deer received. ses) 26 6 5 0	s walls. Points awarded	Points per Table 703.1.3		Signed 3rd party report that all terms in 703.2.1 were followed in the foam insulation, air sealing, plumbing, wiring, HVAC register boots, masonry fireplace, air barrier, together with the wall, ceiling and attic insulation. Checklist signed by the inspector that all items in 703.2.1 were followed in the foam insulation.	1	





Practice #	Chapter 7: Energy Efficiency	Points Points Required Documentation Approved Not Products
03.4.7	ENERGY STAR (or equivalent) ceiling fan(s) are installed.	Leave labels on fans or manufacturer's 1
03.4.8	NOTE: For multi-unit buildings, each dwelling unit must comply to claim this point. Whole building or whole dwelling unit fan(s) with insulated louvers and a sealed enclosure is installed.	2 None. –
03.4.9	NOTE: For multi-unit buildings, each dwelling unit must have compliant whole dwelling unit fans installed to claim these points. In multi-unit buildings, an advanced electric and fossil fuel submetering system is installed to monitor.	8
J3.4.9	In multi-unit bullangs, an advanced electric and loss if uel submetering system is installed to monitor electricity and fossil fuel consumption for each unit. At a minimum, the information is available to the occupants on a monthly basis. Claim points for only one from (1)-(2) below:	
(1)	Install a device providing monthly consumption information.	None
(2)	Install a device that can provide near real-time energy consumption information. NOTE: Points for 703.4.9 awarded for multi-unit buildings only.	This project must be labelled Multi-Unit & have 2 or more units (see Start Here!
		worksheet) AND follow the Prescriptive Path for Energy Efficiency (see 701.1) to claim points for 703.4.9.
03.4.10	An ENERGY STAR (or equivalent) programmable thermostat is installed in each heating and cooling zone.	Leave labels on T-stat(s) or manufacturer's literaturer's literature/specifications to See Products show ALL T-stats in each unit are ENERGY STAR.
)3.5)3.5.1	Water heating design, equipment, and installation Water heater Energy Factor (EF) is equal to or greater than the following.	
(1)	Claim points for only one from (1)-(4) below: Gas water heating	Gas water heating. Manufacturer's literature or nameplate information for gas WH input rate and
	Table 703.5.1(1)(a) - Gas Water Heating (Storage with input rate of ≤75,000 Btu/h or instantaneous input rate of ≤200,000 Btu/h) Table 703.5.1(1)(b) - Gas Water Heating (Storage with input rate >75,000 Btu/h or instantaneous input rate of ≤200,000 Btu/h)	documented Energy Factor.
	Size (gallons) Energy Factor Points Size (gallons) Thermal Factor Points 30 to <40	
	50 to <65 0.60 1 65 to <75 0.58 1 75 0.56 1 Any 0.80 10	
	For St: 1 gallon = 3.785 L NOTE: If points are claimed for 703.5.1(1), specify either Table 703.5.1(1)(a) or Table 703.5.1(1)(b) referenced in the Additional Info box below. Please also list size (gallons) of gas water heating unit.	
Additional Info	Electric water heating	1 point per Table 703.5.1(2) Electric water heating. Manufacturer's literature or nameplate information for electric WH size and
	Table 703.5.1(2)	documented Energy Factor.
	Electric Water Heating Size (gallons) Energy Factor Points 30 to <40 0.95 1	
	40 to <50 0.94 1 50 to <65 0.92 1 65 to <80 0.90 1	
	80 to <100 0.88 1 ≥100 0.86 1	
	For SI: 1 gallon = 3.785 L NOTE: Specify size (gallons) and EF of electric water heating unit in the Additional Info box below.	
Additional Info	Oil water heating	Oil water heating. Manufacturer's literature or nameplate information for oil
(3)	Table 703.5.1(3)	703.5.1(3) WH size and documented Energy Factor.
	Oil Water Heating Size (gallons) Energy Factor Points	
	30 to <50 0.59 1 ≥50 0.55 1 For Si: 1 gallon = 3.785 L	
	NOTE: Specify size (gallons) and EF of oil water heating unit in the Additional Info box below.	

Prac	tice #	Chapter 7: Energy Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
ľ	(4)	Heat pump water heating	Points per Table 703.5.1(4)		Heat pump water heating. Manufacturer's literature or nameplate information for heat pump that documents Energy Factor.		
		Table 703.5.1(3) Oil Water Heating					
703.5.2		Desuperheater is installed by a qualified installer or is pre-installed in the factory.	Zones 1-4 = 5 pts Zones 5-8 = 2 pts		Evidence of factory installation or installation by qualified installer.		
703.5.3		No zone chosen for this project. See the Start Here! worksheet. Drain-water heat recovery system is installed in multi-family units.	2		None.	-	
		NOTE: Points for 703.5.3 awarded for multi-unit buildings only.		low the Prescri	-Unit & have 2 or more units (see otive Path for Energy Efficiency (s		
703.5.4.1	1	Hot water lines insulated to a min of R-4.	1		If insulation is not labeled, provide manufacturer's literature.	-	
703.5.4.2	2	Boiler supply piping is insulated in unconditioned spaces.	1		None.	-	
703.5.5		NOTE: Points not awarded for 703.5.4.2 unless points claimed in 703.4.2(3) or 703.4.2(4). Indirect fired water heater storage tanks heated from boiler systems are installed.	1		None.	-	
704 - Ad	lditional	NOTE: Points not awarded for 703.5.5 unless points claimed in 703.4.2(3) or 703.4.2(4). Practices					·
704.1		APPLICATION OF ADDITIONAL PRACTICE POINTS. Points from Section 704 can be added to points earned in Section 702 (Performance Path), Section 703 (Prescriptive Path), or Section 701.1.3 (alternative bronze level compliance).					
704.2 704.2.1		Lighting and appliances Hard-wired lighting is in accordance with one of the following conditions.					
	(1)	Claim points for only one from (1)-(2) below: A minimum of 50% of the total hard-wired lighting fixtures, or the bulbs in those fixtures, qualify as ENERGY STAR or equivalent.	4				
-	(2)	A minimum of 50% percent of the total hard-wired lighting fixtures qualify as ENERGY STAR or equivalent.	8				
-	(3)	A minimum of 80% of the exterior lighting wattage has an efficiency of 40 lumens per watt minimum or be a solar-powered light fixture.	No points assigned per National Green Building Standard		[™] None.	-	
704.2.2		The number of recessed light fixtures that penetrate the thermal envelope are less than 1 per 400 square feet (37.16 m^2) of total conditioned floor area and are in accordance with Section 701.4.3.4(2).	2		Calculation of the number of recessed light fixtures penetrating the thermal envelope and the above grade conditioned square footage per 2765.	-	
704.2.3		Occupancy sensors are installed on indoor lights, and photo or motion sensors are installed on outdoor lights to control lighting. Claim points for only one from (1)-(2) below:					
_	(1)	25% of lighting	2		None.	See Products	
	(2)	50% of lighting	4				
704.2.4		Tubular daylighting device (TDD) or a skylight with sealed, insulated, low-E glass is installed in all rooms without windows. Examples: bathroom, internal hallway, walk-in closet, laundry room.	2		Manufacturer's specification on any installed TDDs or skylights documenting sealed, insulated low-E glass.	See Products	
704.2.5		ENERGY STAR or equivalent appliance(s) are installed: <u>Claim points for all that apply from (1)-(3) below:</u>					
	(1)	refrigerator	5				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(2)	dishwasher	2		Manufacturer's specification or ENERGY STAR label for appliance.		
	(3)	washing machine	4				
704.2.6		Induction cooktop is installed.	1		None.		
704.2.7		Occupancy sensors are installed for a minimum of 80% of hardwired lighting outlets.	1		None.	See Products	
704.3 704.3.1 704.3.1.1		Renewable energy and solar heating and cooling Solar space heating and cooling Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 704.3.1.1(1-9).	5		Design documentation by qualified solar design professional that building complies with all 9 design conditions of 704.3.1.1.	-	
		See Sections 704.3.1.1(1-9) NOTE: Points must be claimed for 704.3.1.1 to claim points for 704.3.1.4.					
704.3.1.2	2	Automated solar protection is installed to provide shading for windows.	1		None.	-	

Practice	:e #		Chapte	r 7: Energy Efficiency			Points Available	Points Claimed	Required Documentation	Approved Products	Notes
704.3.1.3		Passive cooling design t	features are in accordan	ce with the following:		,	71741141510	Ciamica		1100000	
			st 3 from (1)-(6) below,						-		
(1	1)			-	ombination of the follow	-					
		building	lises with the vegetation	i separated a minimum c	of 1 foot (305 mm) from t	ace or					
		(b) moveable awning	gs or louvers				1				
		(c) covered porches					-				
					that provides full shade of	of east and					
			tached garage, shed, or								
(2	2)	Overhangs are installed	I to provide shading on s	south-facing glazing in ac	cordance with Section 70	14.3.1.1(7).	1				
		NOTE: Points not award	ded for 704.3.1.3(2) if n	oints are awarded for 704	4.3.1.1		1		When thermal mass is claimed		
(3	3)			o facilitate cross ventilat					provide calculation for ratio of		
							1		exposed thermal mass to conditioned floor space.	See Products	
(4	4)			d in climate zones 1, 2, o	or 3 and roof material ach	ieves a 3-	1		conditioned noor space.		
-/5	-1	year aged criteria of 0.5		f 2 :b (76) :- +b:	-l Thl	:		-			
(5	٥)				ckness. Thermal mass co other masonry material a						
			r a combination of the fo		•						
				exposed thermal mass of	f floor per 3 square feet (2.8 m ²) of	1				
		gross finished floor area									
		foot (0.09m ²) of gross f		xposed thermal mass in	interior walls or element	s per square					
(6	6)			f 0.75 inch (19mm) conti	nuous air space offset fro	m the roof		-			
(0	0)	deck from eave to ridge		10.75 man (15mm) conti	ndous an space onset ne	in the root	1				
				Start Here! worksheet					<u> </u>		
704.3.1.4			lesign. In addition featu	res in 704.3.1.1, all of Se	ections 704.3.1.4(1-3) are				Documentation from a solar		
		implemented.							design professional that each		
							4		of items 1, 2, and 3 have been included in this building's	-	
									design.		
		See Sections 704.3.1.4(<u>(1-3)</u>						•		
		NOTE: Points must be a	claimed for 704.3.1.1 to	claim points for 704.3.1.	4.						
704.3.2		Solar water heating									
704.3.2.1					300 rated (or equivalent fined by SRCC) is in accor						
		Table 704.3.2.1.	; system installed. Solar	Ellergy ractor (SEr as de	illied by SRCC) is ill accor	uance with			Manufacturer's specifications,		
			one from (1)-(2) below:						SRCC OG 300 rating, and SEF		
(1	1)	Electric Tank, SEF					Points per Table		for either gas or electric (or	-	
							704.3.2.1		equivalent ratings) for solar water heating system installed		
(2	2)	Gas Tank, SEF					Dalata a a Tabla		in building.		
·							Points per Table 704.3.2.1				
			Table 704.3.2.1					***************************************			
		9	Solar Hot Water System	is							
		SEF - Electric Tank	SEF - Gas Tank	Points							
		1.30 - 1.50	0.85 - 1.00	8							
		1.51 - 1.80	1.01 - 1.20	11							
		1.81 - 2.30 2.31 - 3.00	1.21 - 1.50 1.51 - 2.00	14 17							
		≥3.01	≥2.01	20							
704.3.3		Additional renewable									
704.3.3.1		Photovoltaic panels are	installed.						Manufacturer's literature or		
							1 point per 100	0	installer certification showing	See Products	
							watts		number of watts produced by	<u>Scc 110ddcts</u>	
									installed PV panels.		
					of the rated PV system:						
704.3.3.2			e energy source is instal	led (e.g., wind energy, or	n-site micro-hydro power	, active solar			Manufacturer's literature with		
		space heat, etc.)					1 point per 200 watts	0	capacity of installed renewable		
							watts		energy source.		
				Enter number o	of watts of the system:						
704.4		Ducts									
			for both 704.4.2 AND 7	704.4.3, points cannot be	claimed for 704.4.1, 70	1.4.4, or					
704.4.1		704.4.5.	esigned and installed in	accordance with ACCA N	Manual D or equivalent				Manual D output report and		
BC		ouce system is Sizeu, de	-5-5-1-cu, and installed III	accordance with ACCA N	uar D or equivalent.		5		duct layout showing supply	_	
									and return sizes.		
704.4.2		Space heating is provide	led by a system that doe	s not include air ducts.			15		None.	_	
		C	alburg of the state	and the second second							
704 * 2		space cooling is provide	ed by a system that does	s not include air ducts.			15		None.		
704.4.3		Ductwork is in accordar	nce with ALL of the follow	wing:							
704.4.3 704.4.4		(1) Building cavities a	are not used as return du	ıctwork.					l		
			ng ducts and mechanica	l equipment are installed	within the conditioned I	ouilding	12		None.	-	
		space. (3) Ductwork is not in	astalled in exterior walls					paccoccettett	M		1
		(3) Ductwork is not in			3/			***************************************			
704.4.4		(3) Ductwork is not in NOTE: If points claimed	d for704.4.4, points cann	not be claimed for 903.6(Z). This practice does not app	oly to					
		(3) Ductwork is not in NOTE: If points claimed Return ducts or transfe	d for704.4.4, points cann	not be claimed for 903.6(every room with a door. T		oly to	5		None.		

Practice #	Chapter 7: Energy Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
704.5.1 BC	ACCA Manual S (or equivalent) is used to select heating and/or cooling equipment.	1		Manual S or equivalent output report showing recommended heating and cooling equipment.		
704.5.2 BC	HVAC contractor and service technician are certified by a nationally or regionally recognized program (e.g., North American Technician Excellence, Inc. [NATE], Building Performance Institute [BPI], Radiant Panel Association, or manufacturers' training program).	1		Evidence of both contractor's and technician's certification by NATE, BPI, RPA, or manufacturer's training program.	-	
Additional Inf	NOTE: Specify certification program (NATE, BPI, RPA, or a manufacturer's training program) in the Additional Info box below.					
704.5.3	Performance of the heating and/or cooling system is verified by the HVAC contractor in accordance with ALL of the following: (1) Start-up procedure is performed in accordance with the manufacturer's instructions. (2) Refrigerant charge verified by super-heat and/or sub-cooling method. (3) Burner is set to fire at input level listed on nameplate. (4) Air handler setting/fan speed is set in accordance with manufacturer's instructions. (5) Total airflow is within 10% of design flow. (6) Total external system static does not exceed capability at rated flow.	3		Signed start-up report that documents all 6 of the required items. Include performance test results to support 5 and 6.	-	
Additional Inf	NOTE: Specify name of person or company verifying performance in the Additional Info box below.					
704.5.4	HVAC equipment operates using an alternative refrigerant containing no HCFCs (hydrochlorofluorocarbons). NOTE: Points for 704.S.4 not available after January 20, 2010.	1		Documentation by HVAC contractor of refrigerant used in system.		
704.5.5	Manufacturer's label or printed specifications for sealed air handler (except furnaces) indicates the leakage is less than or equal to 2% of design airflow at a pressure of 1-inch w.g. (1250 Pa). Air handlers are tested with inlets, outlets, and condensate drain ports sealed, and filter box in place.	4		Manufacturer's specification showing air handler leakage at less than 2% of the design airflow.	-	400000000
704.6 704.6.1	Installation and performance verification. Third-party on-site inspection is conducted to verify compliance with all of the following, as applicable. Minimum of two inspections are performed. One inspection after insulation is installed and prior to being covered, and another inspection upon completion of the project. Where multiple buildings or dwelling units of the same model are built by the same builder, a representative sample inspection of a minimum of 15% of the buildings or dwelling units is permitted. (1) Ducts are installed in accordance with the ICC IRC or IMC and ducts are sealed. (2) Building envelope air sealing is installed. (3) Insulation is installed in accordance with 703.1.2. (4) Windows, skylights, and doors are flashed, caulked, and sealed in accordance with manufacture's recommendations and in accordance with Section 703.2.1	5		Signed 3rd party inspection of all 4 required areas at rough and final inspections.	-	
704.6.2 704.6.2.1	Third-party testing is conducted to verify performance. Building envelope leakage rate is demonstrated by blower door test. In addition to the test, the following practices are required: (1) Whole building ventilation is provided in accordance with Section 902.2. (2) Fossil fuel furnace & water heater is sealed combustion/power vented per 901.1. (3) Fireplaces and fuel-burning appliances are in accordance with Section 901.2. (4) The maximum leakage rate is in accordance with one of the following Claim points for only one from (a)-le) below:					
(a) (b)	5 ACH50 4 ACH50	6		Blower test results by qualified		
(c)	3 ACH50	9	_	3rd party to support	See Products	
(d) (e) Additional Inf	2 ACH50 1 ACH50 NOTE: Practice 901.1.1 must be addressed to claim points for 704.6.2.1. Specify name of person or company conducting blower door test in the Additional info box below.	12 15		claimed points.		
704.6.2.2	The entire central HVAC duct system, including air handlers and register boots, is tested for leakage at a					
вс	pressure differential of 0.1 inches w.g. (25 Pa). The maximum leakage as a percent of the system design flow rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below:					
(1)	rate is in accordance with one of the following conditions. <u>Claim points for only one from (1)-(3) below:</u> 6% for ductwork entirely outside the building's thermal envelope	15		Duct leakage test results by		
(2)	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork entirely inside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below.	15 5 15		Duct leakage test results by qualified technician to support daimed points.	-	
(2) (3) Additional Inf	rate is in accordance with one of the following conditions. Claim points for only one from (11-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork entirely inside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional info box below.	5		qualified technician to support claimed points.	-	
(2)	rate is in accordance with one of the following conditions. Claim points for only one from (11-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. 10: Balanced HVAC airflows are demonstrated by flow hood or other acceptable flow measurement tool. Test results are in accordance with ALL of the following: (1) Measured flow at each supply and return register is within 25% of design flow. (2) Total airflow is within 10% of design flow.	5		qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance		
(2) (3) Additional Inf	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork entirely inside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. DE Balanced HVAC airflows are demonstrated by flow hood or other acceptable flow measurement tool. Test results are in accordance with ALL of the following: (1) Measured flow at each supply and return register is within 25% of design flow.	5 15		qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and	-	
(2) (3) Additional Inf 704.6.2.3	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. DE Balanced HVAC airflows are demonstrated by flow hood or other acceptable flow measurement tool. Test results are in accordance with ALL of the following: (1) Measured flow at each supply and return register is within 25% of design flow. (2) Total airflow is within 10% of design flow. NOTE: Specify name of person or company conducting HVAC airflow test in the Additional Info box below.	5 15		qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance with balanced flow	-	
(2) (3) Additional Inf. 704.6.2.3	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. DE Balanced HVAC airflows are demonstrated by flow hood or other acceptable flow measurement tool. Test results are in accordance with ALL of the following: (1) Measured flow at each supply and return register is within 25% of design flow. (2) Total airflow is within 10% of design flow. NOTE: Specify name of person or company conducting HVAC airflow test in the Additional info box below. DE DE DE DE DE DE DE DE DE D	5 15	0	qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance with balanced flow	-	
Additional Inf. 704.6.2.3 Additional Inf. 705 - Innovativ	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork entirely inside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. 50 80 81 81 82 83 84 84 85 86 86 87 87 87 87 87 88 88 88	5 15	0	qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance with balanced flow requirement.	-	
Additional Inf 704.6.2.3 Additional Inf 705 - Innovativ 705.1	rate is in accordance with one of the following conditions. Claim points for only one from (1)-(3) below: 6% for ductwork entirely outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope 6% for ductwork both inside and outside the building's thermal envelope NOTE: Specify name of person or company conducting leakage test in the Additional Info box below. DE Balanced HVAC airflows are demonstrated by flow hood or other acceptable flow measurement tool. Test results are in accordance with ALL of the following: (1) Measured flow at each supply and return register is within 25% of design flow. (2) Total airflow is within 10% of design flow. NOTE: Specify name of person or company conducting HVAC airflow test in the Additional Info box below. DE Practices Energy consumption control. A whole building or whole dwelling unit device is installed that controls or monitors energy consumption. Claim points for all that apply from (1)-(3) below (7 points max.):	5 15 8 7 points max.	0	qualified technician to support daimed points. Start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance with balanced flow	-	

Practice #	Chapter 7: Energy Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
(1)	Builder selects a renewable energy service plan provided by the local electrical utility for interim (temporary) electric service. The builder's local administrative office has renewable energy service.	2		Evidence (e.g., utility bills) builder has selected renewable energy service for both construction and local office for temporary electric service during construction.	_	
(2)	The buyer of the building selects a renewable energy service plan provided by the utility prior to occupancy of the building.	5		Evidence (e.g., utility bills or service agreement) that owner has selected renewable energy service plan for permanent service after completion.		