/an Crayningen / vi roject Title 335 Westridge Driv roject Address Sear Technologys Jocumentation Author	an Hart Guest Hou	22		0/0/0	
		00		9/8/2 	2006
	e Portola Valley			Building Permit #	
Jour Toolingoogyo			(760) 635-2327	Plan Check/Date	
			` Telephone	Field Check/Date	
energyPro Compliance Method			Climate Zone	Theid Office/Date	
ΓDV (kBtu/sf-yr)	Standard <u>Design</u>	Proposed <u>Design</u>	Compliance <u>Margin</u>		
Space Heating	15.48	13.30	2.18		
Space Cooling	8.12	10.48	-2.36		
ans Domestic Hot Water	2.22 24.21	1.64 10.55	0.58 13.66		
Pumps	0.00	0.00	0.00		
Totals	50.03	35.97	14.07		
Percent better than Star	ndard:		28.1%		
BUII DIN	IG COMPLIES	- NO HE	RS VERIFICAT	ION REQUI	IRFD
Building Type:		ddition	Total Conditioned Floo		709 ft ²
2 71		sisting + Add/Alt	Existing Floor Area:	, , , , , , , , , , , , , , , , , , ,	n/a ft ²
Building Front Orientation	•	S) 180 deg	Raised Floor Area:		709 ft ²
Fuel Type:	,	atural Gas	Slab on Grade Area:		0 ft ²
enestration:			Average Ceiling Height	:	9.0 ft
Area: 261	ft ² Avg. U:	0.43	Number of Dwelling Un		1.00
Ratio: 36.8%	Avg. SHGC:	0.46	Number of Stories:		1
BUILDING ZONE INFO	RMATION		# of	Thermostat	Vent
Zone Name	Floor Are	<u>volume</u>	Units Zone Type	Type	Hgt. Area
IVAC		09 — 6,38 1	—1.00 — Conditioned	— Setback —	2n
OPAQUE SURFACES					
Type Frame Area			ins Condition N Status JA IV Reference N Status JA IV Reference	ence Location	/ Comments
	9 -0.032 - R-30 - R-0.0 -		New 01-A7	1st Floor Zone	7 Comments
	8 -0.102 - R-13 - R-0.0 -	0 22 X 0 90 X 90 90 X	New 09-A3	1st Floor Zone	
	9. <u>-0.102</u> - R-13 - R-0.0 - 8 0.102 - R-13 - R-0.0 -	90 90 X 180 90 X	New 09-A3 New 09-A3	— 1st Floor Zone 1st Floor Zone	
Door None 2	41.450NoneR-0.0	180 90 X	New 28-A1	1st Floor Zone	
Vall Wood 159	90.102R-13R-0.0 90.031R-25R-0.0	90 X	New 09-A3 New 20-A6	— 1st Floor Zone — 1st Floor Zone	
			20710		
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		Ц	<u> </u>		

Mandatory Measures Summary: Residential	(Page 2 of 2)	MF-1R

DESCRIPTION Instructions: Check or initial applicable boxes when completed or check N/A if not applicable.	N/A	DESIGNER	NFORCE- MENT
Space Conditioning, Water Heating and Plumbing System Measures: (continu	ıed)		
150(m): Ducts and Fans 1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 605, and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minumum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure syst that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirement of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used.	em		
2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.	e		
Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.			
Exhaust fan systems have back draft or automatic dampers.			
Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operating dampers.	g 🗌		
6. Protection of Insulation. Insulation shall be protected from damage, including that due to sunlight, moisture, equipmer maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.	nt 🗌		
7. Flexible ducts cannot have porous inner cores.			
114: Pool and Spa Heating Systems and Equipment			
 A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light. 			
2. System is installed with:			
a. At least 36" of pipe between filter and heater for future solar heating.			
b. Cover for outdoor pools or outdoor spas.			
3. Pool system has directional inlets and a circulation pump time switch.	Ш		Ш
115: Gas fired fan-type central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)		x	
118 (i): Cool Roof material meets specified criteria			
Lighting Measures		_	
150(k)1: HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, and do not contain a medium screw base socket (E24/E26). Ballasts for lamps 13 Watts or greater are electric and have an output frequency no less than 20 kHz.		x	
150(k)1: HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C,			
luminaire has factory installed HID ballast. 150(k)2: Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the Wattage, as determin in Section 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy lumina	ires,		
provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires. 150(k)3: Permanently installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires. OR are controlled by an occupant sensor(s) certified to comply with Section 119(d).		x	
150(k)4: Permanently installed luminaires located other than in kichens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ti) OR are controlled by a dimmer switch OR are controlled by an occupant sensor that complies with Section 119(d) that does not turn on automatically or have an		x	
always on option. 150(k)5: Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified to ASTM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals.		\mathbf{x}	
150(k)6: Luminaires providing outdoor lighting and permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy luminaires (not including lighting around swimming pools/water features or other Article 680 locations) OR are controlled by occupant sensors with integral photo control certified to comply with Section 119(d			
150(k)7: Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sections 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Section 130, 131, and 146.			
150(k)8: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more			
dwelling units shall be high efficacy luminaires OR are controlled by occupant sensor(s) certified to comply with Section 119(d).	1		

Certificate Of Compliance : Residential (Part 2 of 4) CF-1R	Certificate Of Compliance : Residential	(Part 3 of 4) CF-1R	Certificate Of Compliance : Residential (Pa	rt 4 of 4)
van Crayningen / van Hart Guest House	van Crayningen / van Hart Guest House Project Title	9/8/2006 Date	van Crayningen / van Hart Guest House	9/8/2 Date
FENESTRATION SURFACES True Cond. Location/	HVAC SYSTEMS Heating Minimum Cooling Location Type Eff Type HVAC Combined Hydronic see below Hydronic Heat Pump	Minimum Condition Thermostat Eff Status Type	Special Features and Modeling Assumptions The local enforcement agency should pay special attention to the items specified in this checklist. These items require sy written justification and documentation, and special verification to be used with the performance approach. The local enf agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based of adequacy of the special justification and documentation submitted. The DHW System "Takagi Tankless" is a Large Gas water heater with Pilot Loss = 0 btuh.	forcement
4 Window Left (W) 57.4 0.430 NFRC 0.46 NFRC 270 90 New Dual Vinyl w/Air 1st Floor Zone	LIVAC DISTRIBUTION		The DHW System "Takagi Tankless" includes credit for a Solar System with a 25.0% Solar Fraction (see CF-SR).	
	HVAC DISTRIBUTION Location Heating Cooling Location HVAC Radiant Floor Ducted Attic	Duct Condition Ducts R-Value Status Tested?	The HVAC System "HVAC" is a Combined Hydronic System that uses a Boiler for DHW and Space Heating (see Cl	F-1R).
	Hydronic Piping Pipe Pipe Insul. System Name Length Diameter Thick. Takagi Tankless 5 0.50 0.50			
	WATER HEATING SYSTEMS	Francis Otas distant		
	Water Heater # in Input Cap	Condition Factor Loss R-Value		
1. Indicate source either from NFRC or Table 116A. 2. Indicate source either from NFRC or Table 116B.	System Name Type Distribution Syst. (Btu/hr) (gall			
NTERIOR AND EXTERIOR SHADING	Multi-Family Central Water Heating Details Hot Water Pump Hot Water Piping Le Control # HP Type In Plenum Outside 1 For small gas storage (rated input <= 75000 Btu/hr), electric resistance and heat pump water heaters For large gas storage water heaters (rated input > 75000 Btu/hr), list Rated Input, Recovery Efficience For instantaneous gas water heaters, list Rated Input, and Recovery Efficiency. REMARKS Attached Heating/Cooling load summary as well as the W S-5R are submitted as part of the calcular FOR ACTUAL HEATING/COOLING or LIGHTING DESIGN. COMPLIANCE STATEMENT This certificate of compliance lists the building features and specifications needed to comply with Title	Buried Insulation	HERS Required Verification Items in this section require field testing and/or verification by a certified home energy rater under the supervision of a CI approved HERS provider using CEC approved testing and/or verification methods and must be reported on the CF-4R installation certificate.	EC-
	Regulations, and the administrative regulations to implement themThis certificate has been signed by The undersigned recognizes that compliance using duct design, duct sealing, verification of refrigeran and building envelope sealing require installer testing and certification and field verification by an appr	charge and TXVs, insulation installation quality,		
THERMAL MASS FOR HIGH MASS DESIGN	Designer or Owner (per Business & Professions Code) Documentation Author			
Area Thick. Heat Inside Condition Location/ Type (sf) (in.) Cap. Cond. R-Val. JA IV Reference Status Comments	Title/Firm: Architier Title/Firm: Bear Tech Address: 835 Westridge Drive Address: 7774 Calle Portola Valley, CA 92028 Carlsbad,-1	Mejor CA 92009		
	Telephone: <u>(650) 561-9552</u> Lic. #: Telephone: <u>(760) 635-</u>	1321		
PERIMETER LOSSES Insulation Condition Location/ Type Length R-Val. Location JA IV Reference Status Comments	(signature) (date) Enforcement Agency Name:	9/8/2006 (date)		
	Telephone:	(date)		
Run Initiation Time: 09/08/06 15:49:29 Run Code: 1157755769	Run Initiation Time: 09/08/06 15:49:29 Run Code:		Run Initiation Time: 09/08/06 15:49:29 Run Code: 115775576	9
EnergyPro 4.2 by EnergySoft User Number: 5956 Job Number: 6Q3057-2 Page: 4 of 9	EnergyPro 4.2 by EnergySoft User Number: 5956 Job Number: 6Q30		EnergyPro 4.2 by EnergySoft User Number: 5956 Job Number: 6Q3057-2	

(Part 4 of 4	ı) CI	-1R	Mandatory Measures Summary: Residential (Page	1 of 2) N	1F-1R
्। बार न ।। न	i) Ci	- 111	NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approa			
<u>9</u> Date	/8/2006		requirements from the Certificate of Compliance supercede the items marked with an asterisk (*) below. When this check documents, the features noted shall be considered by all parties as minimum component performance specifications for t	-		-
Date			they are shown elsewhere in the documents or on this checklist only.			
n this checklist. These items require special performance approach. The local enforcement			DESCRIPTION Check or initial applicable boxes or check NA if not applicable and included with the permit application documentation.	N/A	DESIGNER	ENFORCE- MENT
design that otherwise complies based on the	Plan	Field	Building Envelope Measures			
ss = 0 btuh.	T Idii	rieid	* 150(a): Minimum R-19 in wood ceiling insulation or equivalent U-factor in metal frame ceiling.		X	
25.0% Solar Fraction (see CF-SR).			150(b): Loose fill insulation manufacturer's labeled R-Value:			
for DHW and Space Heating (see CF-1R).			*		$\overline{\mathbf{x}}$	
, , , , , , , , , , , , , , , , , , , ,			150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls).		LXI	
			* 150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor.		X	
					-21	_
			150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs.			
			Masonry and factory-built fireplaces have:			
			a. closable metal or glass door covering the entire opening of the firebox	H		
			b. outside air intake with damper and control, flue damper and control	H	П	Ħ
			No continuous burning gas pilot lights allowed.			
			150(f): Air retarding wrap installed to comply with 151 meets requirements specified in the ACM Residential Manual.		_	_
			150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	Ш		
			150(I): Slab edge insulation - water absorption rate for the insulation alone without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch.			
ergy rater under the supervision of a CEC- s and must be reported on the CF-4R	Plan	Field	118: Insulation specified or installed meets insulation installation quality standards. Indicate type and include			
·	Fiaii	rieid	CF-6R Form: 116-17: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls.			
			Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.		x	
			Fenestration products (except field fabricated) have label with certified U-Factor, certified Solar Heat Gain	_		_
		\vdash	Coefficient (SHGC), and infiltration certification.		X	
		\sqcup	3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.			
		Ш	Space Conditioning, Water Heating and Plumbing System Measures			
			110-13: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission.		\mathbf{x}	
			150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.			
		\vdash				
			150(i): Setback thermostat on all applicable heating and/or cooling systems.			
		$\vdash \vdash \vdash$	150(j): Water system pipe and tank insulation and cooling systems line insulation.			
		\sqcup	 Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater. 	Ш		
			Back-up tanks for solar systems, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation and indicated on the exterior of the tank showing the R-value.			
			3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
	+	\vdash	First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire			
		\vdash	length of recirculating sections of hot water pipes shall be insulated to Table 150B. 2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.			
			Steam hydronic heating systems or hot water systems > 15 psi, meet requirements of Table 123-A.			
			Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance,			
		$\vdash \vdash$	and wind. 6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed			
		Щ	entirely in conditioned space.			
Run Code: 1157755769			Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation.		Ш	
Job Number: 6Q3057-2	Page: 6	of 9	EnergyPro 4.2 by EnergySoft User Number: 5956 Job Number: 6Q3057-2		Page	e:7 of 9

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Residential Mandatory Measures	
(A) Before the building may be occupied, installation certificates for manufactured devices regulated by the Appliance Standards or Part 6 shall be posted adjacent to the building permit(s). Certificate shall:	(P) Building cavities shall not be used for conveying conditioned air. Sec. 150 (m)
I. Identify features required to verify compliance with the Appliance Standards and Part 6; Include the statement indicating that the installed devices conform to the Appliance Standards and Part 6 and the requirements	(Q) Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and drawbands. Sec. 150 (m)
for such devices given in the plans and specifications approved by the local enforcement agency; 3. State the number of the building permit under which the construction or installation was performed. Sec. 10-103 (a) (3) (A)	(R) Piping, buried or unburied, for recirculating sections of domestic hot water systems, piping from the heating source to the storage tank for an indirect-fired domestic water heating system, cooling system piping below 55 F, and the first five feet of hot and cold water pipes from the storage tank for non-recirculating systems shall be thermally insulated in accordance with Table No. 1-T. Sec. 150 (i) (2)
(B) The builder shall provide the building owner, manager and the original occupants the appropriate Certificate(s) of Compliance and a list of the features, materials, components, and mechanical devices installed in the building, and the instructions on how to use them efficiently. Sec. 10-103 (b) (1)	(S) Lamps used in luminaries for general lighting in kitchens and bathrooms shall have efficacy of not less than 40 lumens per watt. (Fluorescent type lighting will meet this requirement). Sec. 150 (k)
(C) After installing wall, ceiling, or floor insulation, the installer shall post in a conspicuous location in the building a certificate signed by the installer stating that the installation is consistent with the plans and the requirements of Section 10-103(a)(2)(A) and conforms with the requirements of Part 6. The certificate shall also state the manufacturer's name and material identifications and	(T) In climate zones 14 and 16 a vapor barrier shall be installed on the conditioned space side of all insulation in all exterior walls, invented attics, and invented crawl spaces to protect insulation from condensation. Sec. 150 (g)
the installed R-value. Sec. 10-103 (a) (4)	(U) Any new low-rise residential building shall meet the following minimum requirements:
(D) Manufactured fenestration products shall be certified for overall U-values and overall SHGC as rated by the National Fenestration Rating Council's NFRC 200:	1. Ceiling Insulation.%%u The opaque portions of ceilings separating conditioned spaces from unconditioned spaces or ambient air shall meet the requirements of either a. or b. below:
Have a clearly visible temporary label, not to be removed before inspection by the enforcement agency, listing the certified U-value, solar heat gain coefficient (SHGC) of the product and the method used to derive those values. Also, the label should indicate compliance with sir infiltration requirements od Section 116(a)(1).	 a. Ceilings shall be insulated between framing members with insulation resulting in an installed thermal resistance of R-19 or greater for the insulation alone.
2. Have a permanent label meeting the requirements of Section 10-111(a)(2) Sec. 116 (a)	ALTERNATIVE to Section 150 (a) 1: Insulation which is not penetrated by framing members may meet an R-value equivalent to installing R-19 insulation between framing members and accounting for the thermal effects of framing members.
(E) Field fabricated skylights and windows, and exterior doors, shall be caulked between the fenestration product and the building, shall be weather-stripped. EXCEPTION: Unframed glass doors and fire doors. Sec. 116 (b)	b. The weighted average U-value of ceiling shall not exceed the U-value that would result from installing R-19 insulation between framing members in the entire ceiling and accounting for the effects of framing members.
(F) Joints and other openings in the building envelope that are potential sources of air leakage shall be caulked, gasketed, weather-stripped, or otherwise sealed to limit infiltration and exfiltration. Sec. 117	2. Loose Fill Insulation.%%u When loose fill insulation is installed, the minimum installed weight per square foot shall conform with the insulation manufacturer's installed design weight per square foot at the manufacturer's label R-value.
(G) All insulating material shall be installed in compliance with the flame spread rating smoke density requirements of Section 707 of the UBC. Sec. 118 (c)	3. Wall Insulation.%%u The opaque portions of frame walls separating conditioned spaces from unconditioned spaces or ambient air shall meet the requirements of either a. or b. below:
(H) Heat Pumps with supplementary electric resistance heaters shall have controls: 1. That prevent supplementary heater operation when the heating load can be met by the heat pump alone; and 2. In which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut off temperature for compression heating is higher than the cut-off temperature for supplementary heating.	 a. framed walls shall be insulated between framing members with insulation have an installed thermal resistance of R-13 or greater. Framed foundation walls of heated basements or heated crawl spaces shall be insulated above the outside ground line with insulation having an installed thermal resistance of at least R-13.
Sec. 112 (b) (I) Masonry or factory-built fireplaces shall have the following:	ALTERNATIVE to Section 150 (c)1: Insulation which is not penetrated by framing members may meet an R-value equivalent to installing R-13 insulation between framing members and accounting for the thermal effects of framing members.
1. Closeable metal or glass doors covering the entire opening of the firebox. 2. A combustion air intake to draw air from the outside of the building directly into the firebox, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight fitting damper or combustion air control device EXCEPTION: Not required if fireplace is installed over a concrete slab and will not be located on an exterior wall.	b. The weighted average U-value of walls shall not exceed the U-value that would result from installing R-13 insulation between framing members in the entire ceiling and accounting for the effects of framing members.
3. A flue damper with a readily accessible control. EXCEPTION: When a gas log, log lighter, or decorative gas appliance is installed in a fireplace, the flue damper shall be blocked open if required by the manufacturer's installation instructions or the State Mechanical Code.	4. Raised Floor Insulation.%%u Raised floors separating conditioned spaces from unconditioned spaces or ambient air shall meet the requirements of either a. or b. below:
4. Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited. Sec. 150 (e)	a. Floors shall be insulated between framing members with insulation having an installed thermal resistance of R-13 or greater.
(J) All heating and/or cooling systems other than wood stoves shall have an automatic thermostat with a clock mechanism or other setback mechanism that shuts the system off during periods of non-use and that allows the building occupant to automatically set back the thermostat set points for at least 2 periods within 24 hours. Sec. 150 (i)	 b. The weighted average U-value of floor assemblies shall not exceed the U-value that would result from installing R-13 insulation between framing members and accounting for the effects of framing members. Sec. 150 (a)-(d)
(K) The air handling duct system shall be constructed, installed, sealed and insulated as provided in Chapter 6 of the Uniform Mechanical Code. (Must be insulated to a minimum installed level of R-4.2 or be in conditioned space) Sec. 150 (m	(V) Systems, equipment, and building components listed below may be installed only if: 1. The manufacturer has certified that the system, equipment, or building component complies with the applicable manufacture
(L) All fan systems exhausting air from the building to the outside shall be provided with backdraft or automatic dampers to prevent air leakage. Sec. 150 (m) (7)	provisions of Sections 111 through 119; and 2. The system, equipment, or building component complies with the applicable installation provisions of Sections 111 through 119.
(M) Storage gas water heaters with an energy factor < 0.58 shall be externally wrapped with insulation having installed thermal resistance of R-12 or greater. Sec. 150 (j) 1A	Covered are:
(N) Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water heating systems, shall be externally wrapped with insulation having an installed thermal resistance of R-12 or greater or have internal insulation of at least R-16 and a label on the exterior of the tank showing the insulation R-valve. Sec. 150 (j) 1B	a. Appliances regulated by the Appliance Efficiency Regulations (Sec. 111). b. Space conditioning equipment (Sec. 112). c. Pool and spa heating systems and equipment (Sec. 114). d. Gas appliances (Sec.115). e. Insulation (Sec. 118).
(O) Duct system openings shall be sealed with mastic, tape aerosol sealant, or other duct closure system that meets the applicable requirements of UL 181, UL 181A, or UL181B including collars, connections and splices. If mastic or tape is used to seal opening greater than 1/4 inch, the combination of mastic and either mesh ot tape shall be used. Sec. 150 (m)	Sec. 110

T24.2

Revisions

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Hart

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Cruyningen

08/08/06 Submittal 09/15/06 Revision 1

DATE DESCRIPTION

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