

DOCKETED

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BUILDING LEAKAGE DIAGNOSTIC TEST

CEC-CF2R-ENV-20-H (Revised 10/16)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF INSTALLATION		CF2R-ENV-20-H
Building Leakage Diagnostic Test		(Page 1 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City	Zip Code

A. Building Air Leakage – General Information

01	Test Procedure Used	
02	Building Air Leakage Target from CF1R	
03	Indoor Temperature During Test (°F)	
04	Outdoor Temperature During Test (°F)	
05	Blower Door Location	
06	Building Elevation (ft)	
07	Building Volume (ft ³)	
08	Date of the Diagnostic Test for this Dwelling	

B. Diagnostic Equipment Information

01	Number of Manometers Used to Measure Home Pressurization			
02	03	04	05	06
Manometer Make	Manometer Model	Manometer Serial Number	Manometer Calibration Date	Manometer Calibration Status
07	Number of Fans Used to Pressurize Home			
08	09	10	11	
Fan Make	Fan Model	Fan Serial Number	Fan Configuration (rings) Note: fan configuration must be the same for all data points	

ENV20d – Repeated Single Point Air Tightness Test With Manual Meter

C. Envelope Leakage Diagnostic Test				
01	Time Average Period of Meter			
02	Blower Door Software Used for Calculations?			
03	Test Methodology			
04	05	06	07	08
Baseline Building Pressure Reading	Unadjusted Building Pressure	Nominal Fan Flow	Induced Building Pressure	Nominal CFM50
09	Average Nominal CFM50			

D. Altitude and Temperature Correction

01	Altitude Correction Factor	
02	Temperature Correction Factor	
03	Corrected CFM50	

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2016 Residential Compliance

October 2016

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E. Accuracy Adjustment

01	Standard Deviation of Nominal CFM 50 Values Above	
02	Percent Uncertainty	
03	Accuracy Level	
04	Accuracy Adjustment Factor	
05	Adjusted CFM50 (measured air leakage rate)	
06	Corrected CFM50 (from software)	
07	Percent Uncertainty @ 95% Confidence Level (from software)	

F. Compliance Statement

01	
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G. Additional Requirements for Compliance

01	Open all interior doors and access including those to closets and those between a conditioned basement and attic.
02	HVAC supply and return register dampers shall be fully open.
03	Temporarily sealing of combustion flues and intermittent exhaust fans are not allowed. Some examples are: combustion flues, fresh air intakes, dryer vents, bathroom and kitchen exhaust vents and fire place.
04	Continuously operated ventilation devices like energy recovery ventilators may be sealed.
05	Multifamily – Each dwelling unit must be tested individually and shown to meet the leakage requirements. Pressurization of the adjacent dwelling units while conducting this test is not allowed.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

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CERTIFICATE OF INSTALLATION		CF2R-ENV-20-H
Building Leakage Diagnostic Test		(Page 3 of 3)
Project Name:	Enforcement Agency:	Permit Number:
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Installation documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Documentation Author Company Name:	Date Signed:	
Address:	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Phone:	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of California:		
<ol style="list-style-type: none"> The information provided on this Certificate of Installation is true and correct. I am either: a) a responsible person eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement, or b) I am an authorized representative of the responsible person and attest to the declarations in this statement on the responsible person's behalf. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations and the installation conforms to the requirements given on the Certificate of Compliance, plans, and specifications approved by the enforcement agency. I understand that a HERS rater will check the installation to verify compliance and if such checking determines the installation fails to comply, I am required to offer any necessary corrective action at no charge to the building owner. I will ensure that a registered copy of this Certificate of Installation shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a registered copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy. 		
Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed:
Third Party Quality Control Program (TPQCP) Status:	Name of TPQCP (if applicable):	

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2016 Residential Compliance

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CF2R-ENV-20d-H User Instructions**Section A. Building Air Leakage – General Information**

1. Select the appropriate test procedure. This selection will determine which version of this document will be used (a, b, c, d, or e) and therefore which data must be collected. Note that single-point tests can only be used under certain conditions. Note that newer manometers have automatic functions for compensating for baseline (automatic baseline) and compensating for house pressures other than the target (@50 Pa). It is preferable to use these, when available, however if these automatic functions are to be used, they must be used for BOTH automatic baseline and pressure compensation.
2. This number is automatically pulled from the CF1R and is the target maximum that was entered by the documentation author. If this number cannot be achieved, the performance compliance calculations can be redone with a higher number or without the requirement for building air leakage.
3. Enter the indoor temperature measured at the time that the building air leakage test was performed.
4. Enter the outdoor temperature measured at the time that the building air leakage test was performed.
5. Provide a brief description of the location where the blower door was installed for the test. Examples: “front entry door on west side of house”, “door between house and garage”, “large window in family room”.
6. Enter the building elevation use the value for the closest city found in Joint Appendix JA2.2. Only elevations higher than 5,000 feet require an adjustment to the calculations.
7. This number is automatically pulled from the CF1R. It is used to calculate air changes.
8. Enter the date that the building leakage test data was collected.

Section B. Diagnostic Equipment Information

1. Enter the number of manometers used to measure the home pressurization. If more than one system is used, the fan flow numbers need to be manually added together, unless blower door software is used that will accommodate multiple fan systems running simultaneously.
2. Enter the make (brand) of the manometer used to collect the building air leakage data. Examples: Retrotec, Energy Conservatory.
3. Enter the model of the manometer used to collect the building air leakage data. Examples: DM-2 Mark II, DG700.
4. Enter the serial number of the manometer used to collect the building air leakage data.
5. Enter the most recent date that the manometer was calibrated by following manufacturer’s calibration specifications.
6. This field is automatically filled. If the calibration date was more than 12 months prior to the test date entered in Row A.8, above, an error will appear.
7. Enter the number of blower door fan systems required to run simultaneously to pressurize the home for the building air leakage test. If more than one system is used, the fan flow numbers need to be manually added together, unless blower door software is used that will accommodate multiple fan systems running simultaneously.
8. Enter the make (brand) of the fan used to collect the building air leakage data. Examples: Retrotec, Energy Conservatory.
9. Enter the model of the fan used to collect the building air leakage data. Examples: US1000, Q46, BD3, BD4.
10. Enter the serial number of the fan used to collect the building air leakage data.
11. Enter the fan configuration shown on the meter. This is sometimes referred to as “range configuration”, “CONFIG” or “rings”. Examples: Open, A, B, C8.

Section C. Envelope Leakage Test (ENV20d)

1. Enter the time average period used on the manometer during the test. Must be at least 10 seconds.
2. This version of the ENV-20 can be used with an ASTM E779-10 compliant software, typically provided by the blower door manufacturer. Confirm with the software vendor that it is compliant.
3. Select the type of test being performed: Pressurization (air blowing into house) or Depressurization (air blowing out of house).
4. Enter five to nine baseline building pressure readings (Resolution of 0.1 Pa).
5. Enter five to nine Unadjusted Building Pressure numbers straight from the manometer. All blower door induced pressures for the depressurization tests are to be negative relative to outside.
6. Enter five to nine Nominal fan flows from the manometer that corresponds to the Unadjusted Building Pressure values. All blower door induced pressures for the depressurization tests are to be negative relative to outside.
7. This field is automatically calculated. The Induced Building Pressure is the difference between the Unadjusted Building Pressure and the Baseline Building pressure.
8. This field is automatically calculated. The Nominal Fan Flow at the Induced Building Pressure is adjusted mathematically for a target pressure of -50 Pa.
9. This field is automatically calculated. It is the average of the Nominal CFM50 values for the 5-9 repeated single point tests.

Section D. Altitude and Temperature Correction

1. This field is automatically calculated. The equation used to calculate this value in the field equals:
 - a. If the elevation is less than or equal to 5,000 ft, the Altitude Correction Factor is 1 (no adjustment).
 - b. If the elevation is greater than 5,000 ft, the Altitude Correction equation equals $1 + (0.000006 * \text{elevation in feet})$
2. Enter the Temperature Correction Factor from Table RA3.8-2 or RA3.8-3 using the indoor and outdoor temperatures entered in Section A.

Table RA3.8-2 Temperature Correction Factors for Pressurization Testing- Calculated according to ASTM E779-10

Outside Temp (F)	Inside Temperature (F)									
	50	55	60	65	70	75	80	85	90	
-20	1.062	1.072	1.081	1.090	1.099	1.108	1.117	1.127	1.136	
-15	1.056	1.066	1.075	1.084	1.093	1.102	1.111	1.120	1.129	
-10	1.051	1.060	1.069	1.078	1.087	1.096	1.105	1.114	1.123	
-5	1.045	1.054	1.063	1.072	1.081	1.090	1.099	1.108	1.117	
0	1.039	1.048	1.057	1.066	1.075	1.084	1.093	1.102	1.111	
5	1.033	1.042	1.051	1.060	1.069	1.078	1.087	1.096	1.105	
10	1.028	1.037	1.046	1.055	1.064	1.072	1.081	1.090	1.099	
15	1.023	1.031	1.040	1.049	1.058	1.067	1.076	1.084	1.093	
20	1.017	1.026	1.035	1.044	1.052	1.061	1.070	1.079	1.087	
25	1.012	1.021	1.029	1.038	1.047	1.056	1.064	1.073	1.082	
30	1.007	1.015	1.024	1.033	1.041	1.050	1.059	1.067	1.076	
35	1.002	1.010	1.019	1.028	1.036	1.045	1.054	1.062	1.071	
40	0.997	1.005	1.014	1.023	1.031	1.040	1.048	1.057	1.065	
45	0.992	1.000	1.009	1.017	1.026	1.035	1.043	1.051	1.060	
50	0.987	0.995	1.004	1.012	1.021	1.029	1.038	1.046	1.055	
55	0.982	0.990	0.999	1.008	1.016	1.024	1.033	1.041	1.050	
60	0.997	0.986	0.994	1.003	1.011	1.019	1.028	1.036	1.045	
65	0.973	0.981	0.989	0.998	1.006	1.015	1.023	1.031	1.040	
70	0.968	0.976	0.985	0.993	1.001	1.010	1.018	1.026	1.035	
75	0.963	0.972	0.980	0.988	0.997	1.005	1.013	1.022	1.030	
80	0.959	0.967	0.976	0.984	0.992	1.000	1.009	1.017	1.025	
85	0.955	0.963	0.971	0.979	0.988	0.996	1.004	1.012	1.020	
90	0.950	0.958	0.967	0.975	0.983	0.991	0.999	1.008	1.016	
95	0.946	0.954	0.962	0.970	0.979	0.987	0.995	1.003	1.011	
100	0.942	0.950	0.958	0.966	0.970	0.982	0.990	0.998	1.007	
105	0.938	0.946	0.954	0.962	0.970	0.978	0.986	0.994	1.002	
110	0.933	0.942	0.950	0.952	0.966	0.974	0.982	0.990	0.998	

Table RA3.8-3 Temperature Correction Factors for Depressurization Testing- Calculated according to ASTM E779-10

Outside Temp (F)	Inside Temperature (F)									
	50	55	60	65	70	75	80	85	90	
-20	0.865	0.861	0.857	0.853	0.849	0.845	0.841	0.837	0.833	
-15	0.874	0.870	0.866	0.862	0.858	0.854	0.850	0.846	0.842	
-10	0.883	0.879	0.874	0.870	0.866	0.862	0.858	0.854	0.850	
-5	0.892	0.887	0.883	0.879	0.875	0.871	0.867	0.863	0.859	
0	0.900	0.896	0.892	0.887	0.883	0.879	0.875	0.871	0.867	
5	0.909	0.905	0.900	0.896	0.892	0.888	0.883	0.879	0.875	
10	0.918	0.913	0.909	0.905	0.900	0.896	0.892	0.888	0.884	
15	0.927	0.922	0.918	0.913	0.909	0.905	0.900	0.896	0.892	
20	0.935	0.931	0.926	0.922	0.917	0.913	0.909	0.905	0.900	
25	0.944	0.939	0.935	0.930	0.926	0.922	0.917	0.913	0.909	
30	0.952	0.948	0.943	0.939	0.934	0.930	0.926	0.921	0.917	
35	0.961	0.956	0.952	0.947	0.943	0.938	0.934	0.930	0.926	
40	0.970	0.965	0.960	0.956	0.951	0.947	0.942	0.938	0.934	
45	0.978	0.974	0.961	0.964	0.960	0.955	0.951	0.946	0.942	
50	0.987	0.982	0.977	0.973	0.968	0.963	0.959	0.955	0.950	
55	0.995	0.990	0.986	0.981	0.976	0.972	0.967	0.963	0.958	
60	1.004	0.999	0.994	0.998	0.985	0.980	0.976	0.971	0.967	
65	1.012	1.008	1.003	0.998	0.993	0.988	0.984	0.979	0.975	
70	1.021	1.016	1.011	1.006	1.001	0.997	0.992	0.988	0.983	
75	1.029	1.024	1.019	1.015	1.010	1.005	1.000	0.996	0.991	
80	1.038	1.033	1.028	1.023	1.018	1.013	1.009	1.004	0.999	
85	1.046	1.041	1.036	1.031	1.026	1.022	1.017	1.012	1.008	
90	1.055	1.050	1.045	1.040	1.035	1.030	1.025	1.020	1.016	
95	1.063	1.058	1.053	1.048	1.043	1.038	1.033	1.028	1.024	
100	1.072	1.066	1.061	1.056	1.051	1.046	1.041	1.037	1.032	
105	1.080	1.075	1.070	1.064	1.059	1.054	1.050	1.045	1.040	
110	1.088	1.083	1.078	1.073	1.068	1.063	1.058	1.053	1.048	

3. This field is automatically calculated. The Corrected CFM50 is the Nominal CFM50 from Section C multiplied by the Altitude and Temperature Correction Factors.

Section E. Accuracy Adjustment (If Row C.2 = No)

1. This field is automatically calculated. It is the standard deviation of the Nominal CFM50 values from the 5 to 9 repeated single point tests
2. This field is automatically calculated. It is the Percent Uncertainty and the equation used to calculate this value in the field equals $\{[(C.1/\text{square root } N \text{ or the number of tests}) \times t\text{-statistic look up from table RA 3.8-1}]/D.3 \text{ Corrected CFM50}\} = \text{Percent Uncertainty}$

Table 3.8-1 Precision Uncertainty: Values of t-statistic

Number of Readings	t-statistic
5	2.78
6	2.57
7	2.45
8	2.37
9	2.31

3. This field is automatically calculated. The equation used to calculate this value in the field equals:
 - a. If the Percent Uncertainty in E.2 ≤ 10 , then enter "standard" as accuracy level in box E. 3.
 - b. If the Percent Uncertainty in E.2 > 10 , then enter "reduced" as accuracy level in box E. 3.
4. This field is automatically calculated. The equation used to calculate this value in the field equals:
 - a. If the Accuracy Level E.3 = Standard, then enter 1 as Accuracy Adjustment Factor in box E.4.
 - b. If the Accuracy Level E.3 = Reduced, Accuracy Adjustment Factor equation equals $1+(E.2/100)$.
5. This field is automatically calculated. The equation used to calculate this value in the field equals the $D.3 * E.4 = \text{Adjusted CFM50}$.

Section E. Accuracy Adjustment (If Row C.2 = Yes)

6. Enter the Corrected CFM50 from manometer software.
7. Enter the Percent Uncertainty from manometer software.

Section F. Compliance Statement

1. This field is automatically calculated. A check is performed to make sure that the meter has been properly calibrated and that the measured infiltration is less than the target infiltration.

Section G. Additional Requirements for Compliance

1. This statement must be true (or not applicable) for the test to conform to the protocols.
2. This statement must be true (or not applicable) for the test to conform to the protocols.
3. This statement must be true (or not applicable) for the test to conform to the protocols.
4. This statement must be true (or not applicable) for the test to conform to the protocols.
5. This statement must be true (or not applicable) for the test to conform to the protocols.

A. Building Air Leakage – General Information

01	Test Procedure Used	<<user input, pull down list: Single-Point Test with Manual Meter – Display ENV-20a below; Single-Point Test with Automatic Meter – Display ENV-20b below; Multi-Point Test – Display ENV-20c below; Repeated Single Point with Manual Meter – Display ENV-20d below; Repeated Single Point with Automatic Meter – Display ENV-20e below
02	Building Air Leakage Target from CF1R	<<number pulled from CF1R>>
03	Indoor Temperature During Test (°F)	<<user input, degF>>
04	Outdoor Temperature During Test (°F)	<<user input, degF>>
05	Blower Door Location	<<user input, text, maximum 50 characters>>
06	Building Elevation (ft)	<<user input, Ft>>
07	Building Volume (ft ³)	<<pull from CF1R>>
08	Date of the Diagnostic Test for this Dwelling	<<user input: date (use date format validation control)>>

B. Diagnostic Equipment Information

01	Number of Manometers Used to Measure Home Pressurization		<<user input, integer>> For entries >1, duplicate lines B. 2-6		
	02	03	04	05	06
	Manometer Make	Manometer Model	Manometer Serial Number	Manometer Calibration Date	Manometer Calibration Status
	<<user input, text, maximum 50 characters>>	<<user input, text, maximum 50 characters>>	<<user input, text, maximum 50 characters>>	<<user input, text (Date), maximum 50 characters>>	<<calculated field: if manometer Calibration Date in B. 5 is within 12 months of the date of the diagnostic test A. 8, then display message: Manometer Calibration is valid"; else display message: "WARNING - Manometer Calibration is expired. A manometer with current calibration is required in order to comply with this Building Leakage Diagnostic test">>
07	Number of Fans Used to Pressurize Home		<<user input, integer>> For entries >1, duplicate lines B. 8-11		
	08	09	10	11	
	Fan Make	Fan Model	Fan Serial Number	Fan Configuration (rings) Note: fan configuration must be the same for all data points	
	<<user input, text, maximum 50 characters>>	<<user input, text, maximum 50 characters>>	<<user input, text, maximum 50 characters>>	<<user input, text, maximum 50 characters>>	

ENV20d – Repeated Single Point Air Tightness Test With Manual Meter

C. Envelope Leakage Diagnostic Test

01	Time Average Period of Meter	<<user entry but must be no less than 10, in second>>		
02	Blower Door Software used for Calculations?	<<user entry, choices are "yes" or "no">>		
03	Test Methodology	<<user input, pull down list: Pressurization; Depressurization>>		
04		05		06
Baseline Building Pressure Reading		Unadjusted Building Pressure		Nominal Fan Flow
< required data> (Resolution of 0.1 Pa)		<required data> (Resolution of 0.1 Pa)		< required data> (Resolution of 1 CFM)
< required data> (Resolution of 0.1 Pa)		<required data> (Resolution of 0.1 Pa)		< required data> (Resolution of 1 CFM)
< required data> (Resolution of 0.1 Pa)		<required data> (Resolution of 0.1 Pa)		< required data> (Resolution of 1 CFM)
< required data> (Resolution of 0.1 Pa)		<required data> (Resolution of 0.1 Pa)		< required data> (Resolution of 1 CFM)
< required data> (Resolution of 0.1 Pa)		<required data> (Resolution of 0.1 Pa)		< required data> (Resolution of 1 CFM)
< Lines 6-9 optional data> (Resolution of 0.1 Pa)		< optional data> (Resolution of 0.1 Pa)		< optional data> (Resolution of 1 CFM)
09	Average Nominal CFM50:			<<calculated value = (C.8 ₁ +C.8 ₂ + C.8 ₃ + C.8 ₄ + C.8 ₅ +C.8 ₆ + C.8 ₇ + C.8 ₈ + C.8 ₉)/N (N equals the number of tests)>>

D. Altitude and Temperature Correction

<<if row C. 2 = "no", use this section>>	
01	Altitude Correction Factor
<<calculated value, if row A. 6 ≤ 5000 Ft = 1; row A. 6 > 5000 =, 1 + .000006 * row A. 6>>	
02	Temperature Correction Factor
<<from tables RA3.8-2 and RA3.8-3>>	
03	Corrected CFM50
<<calculated value, Row C. 9*altitude correction D. 1 * temperature correction D. 2>>	

E. Accuracy Adjustment

<<if row C. 2 = "no", use this section>>	
01	Standard Deviation of Nominal CFM 50 Values Above
<<calculated, equals the square root of {[(C.9- C.8 ₁) ² +(C.9- C.8 ₂) ² +(C.9- C.8 ₃) ² +(C.9 C.8 ₄) ² +(C.9- C.8 ₅) ² +(C.9- C.8 ₆) ² +(C.9- C.8 ₇) ² +(C.9- C.8 ₈) ² +(C.9- C.8 ₉) ²]/N-1 (N equals the number of tests)>>	
02	Percent Uncertainty
<<calculated, {[std dev/sqrt(N)] * look up table RA 3.8-1}/corrected CFM50 (N equals the number of tests)>>	
03	Accuracy Level
<<calculated, if % uncertainty ≤10, "Standard"; if % uncertainty > 10, "Reduced">>	
04	Accuracy Adjustment Factor
<<calculated, if row E. 3 is "Standard"=1; If it is "Reduced", 1+ (% uncertainty/100)>>	
05	Adjusted CFM50 (measured air leakage rate)
<<calculated, row D. 3 * row E. 4>>	
<<if row C. 2 = "yes", use next two lines>>	
06	Corrected CFM50 (from software)
<<user entry of value calculated by software>>	
07	Percent Uncertainty @ 95% Confidence Level (from software)
<<user entry of value calculated by software>>	

F. Compliance Statement

01	<< if manometer Calibration Date in B. 5 is within 12 months of the date of the diagnostic test A. 8 and if Adjusted CFM50 Leakage in E. 5 or if corrected CFM50 Leakage in E. 6 is less than or equal to the Building Air Leakage Rate Target in A. 2 then display text: "Building Passes Envelope Leakage Test"; if manometer Calibration Date in B. 5 is more than 12 months from the date of the diagnostic test A. 8 or if Adjusted CFM50 Leakage in E. 5 or if corrected CFM50 Leakage in E. 6 is more than the Building Air Leakage Rate Target in A. 2 then display text: "Building Fails Envelope Leakage Test">>
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G. Additional Requirements for Compliance

01	Open all interior doors and access including those to closets and those between a conditioned basement and attic.
02	HVAC supply and return register dampers shall be fully open.
03	Temporarily sealing of combustion flues and intermittent exhaust fans are not allowed. Some examples are: combustion flues, fresh air intakes, dryer vents, bathroom and kitchen exhaust vents and fire place.
04	Continuously operated ventilation devices like energy recovery ventilators may be sealed.
05	Multifamily – Each dwelling unit must be tested individually and shown to meet the leakage requirements. Pressurization of the adjacent dwelling units while conducting this test is not allowed.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

For information and data collection only. Not valid until registered with a HERS provider