

Alterations to Space Conditioning Systems

Project Name:	5419 Lake Murray Blvd APT 7	Enforcement Agency:	La Mesa, City of
Dwelling Address:	5419 Lake Murray Blvd APT 7	Permit Number:	Pending
City and Zip Code:	La Mesa - 91942	Date Permit Issued:	2025-06-05

A. General Information		
LMCC-MCH-02 is applicable to multiple space conditioning systems contained within a single dwelling unit.		
01	Date Prepared	2025-06-05T12:50:45.08836-07:00
02	Building Type	LowRiseMultiFamily
03	Dwelling Unit Name/Type	5419 Lake Murray Blvd APT 7
04	Dwelling Unit Count	1
05	Climate Zone	7
06	Dwelling Unit Total Conditioned Floor Area (ft²)	789
07	Number of Space Conditioning (SC) Systems in this Dwelling Unit	1

B. Space Conditioning (SC) System Information									
01	02	03	04	05	06	07	08	09	10
SC System ID or Name	SC System Location or Area Served	CFA served by this SC System (ft²)	Is the SC system a ducted system?	Installing a refrigerant containing component?	Installing new SC system components?	Installing more than 25 feet of ducts?	Installing entirely new duct system?	Installing entirely new SC system?	Alteration Type
System 1	Location 1	789	Yes	Yes	Yes	No	No	No	Altered space conditioning system

C. Extension of Existing Duct System, Greater Than 25 Feet (Section150.2(b)1Diib)		
01	02	03
System ID/ Name	SC System Description of Area Served	Required New Duct R-Value
Required Documentation:		
LMCI-MCH-01-E - Space Conditioning Systems		
- Duct insulation requirement for the new portions of supply-air and return-air ducts or plenums: R6 (CZ 3, 5-7) and R8 (CZ 1, 2, 4, 8-16)		
LMCI and LMCV-MCH-20-H Duct Leakage Test		
- Leakage rate compliance: less than or equal to 10%, or less than or equal to 7% leakage to outside, or seal all accessible leaks		
Exceptions:		
Existing duct systems constructed, insulated or sealed with asbestos are exempt from MCH-20 duct leakage testing requirements		

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D. Altered Space Conditioning System (Sections 150.2(b)1E and F)													
01	02	03	04	05	06	07	08	09	10	10b	11	12	13
System ID/ Name	SC System Description of Area Served	Heating System Type	Altered Heating Component s	Heating Efficiency Type	Heating Minimum Efficiency Value	Cooling System Type	Altered Cooling Component s	Cooling Efficiency Type	Cooling Minimum Efficiency Value SEER/SEER2	Cooling Minimum Efficiency Value EER/EER2/C EER	Required Thermostat Type	New or Replaced Duct Length	New Duct R-Value
System 1	Location 1	Central split HP	All new heating component s	HSPF2	6.7	Central split HP	All new cooling component s	EER/SEER	14	11.7	Setback	N/A - no ducts replaced.	

Required Documentation:

LMCI-MCH-01-E - Space Conditioning Systems

- Duct insulation requirement for the new portions of supply-air and return-air ducts or plenums: R6 (CZ 3, 5-7) and R8 (CZ 1, 2, 4, 8-16)

LMCI and LMCV-MCH-20-H - Duct Leakage Test required when heating or cooling components are installed in ducted systems, or when more than 25 ft of duct length is replaced

-Leakage rate compliance: less than or equal to 10% or less than or equal to 7% leakage to outside, or seal all accessible leaks.

LMCI and LMCV-MCH-25-H Refrigerant Charge verification required when refrigerant containing components are installed or altered (applicable in CZ 2, 8-15).

LMCI and LMCV-MCH-23 Airflow Rate greater than or equal to 300 CFM per ton required when MCH-25 is required.

Exceptions:

- Duct systems registered with HERS provider as previously sealed are exempt from MCH-20 Duct Leakage Testing requirements.

- Heating-only systems and Air Handler/ Furnace changes do not require verification of Air Flow MCH-23, or Refrigerant Charge MCH-25.

-Existing duct systems constructed, insulated or sealed with asbestos are exempt from MCH-20 Duct Leakage Testing requirements.

E. Entirely New or Complete Replacement Duct System, with or without Equipment Changeout (Sections 150.2(b)1Diia and 150.2(b)1E, F)												
01	02	03	04	05	06	07	08	09	10	10b	11	12
System ID/ Name	SC System Description of Area Served	Heating System Type	Altered Heating Component	Heating Efficiency Type	Heating Minimum Efficiency Value	Cooling System Type	Altered Cooling Component	Cooling Efficiency Type	Cooling Minimum Efficiency Value SEER/SEER2	Cooling Minimum Efficiency Value EER/EER2/CE ER	Required Thermostat Type	New Duct R-Value

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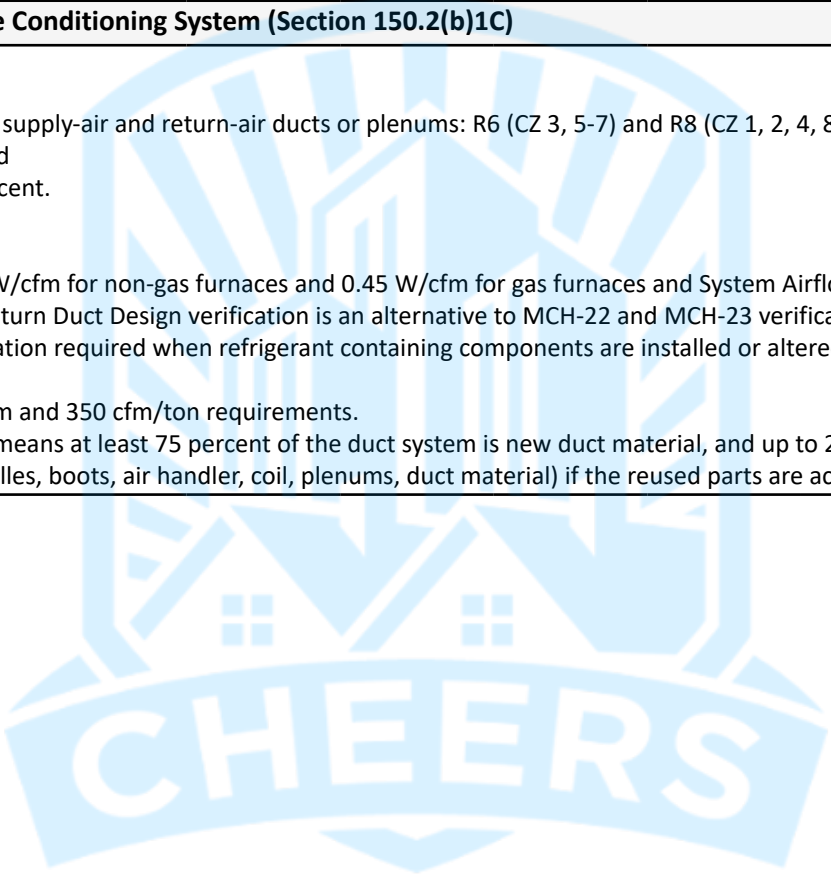
E. Entirely New or Complete Replacement Duct System, with or without Equipment Changeout (Sections 150.2(b)1Diia and 150.2(b)1E, F)												
Required Documentation:												
LMCI-MCH-01-E - Space Conditioning Systems												
- Duct insulation requirement for the new portions of supply-air and return-air ducts or plenums: R6 (CZ 3, 5-7) and R8 (CZ 1, 2, 4, 8-16)												
LMCI and LMCV-MCH-20-H Duct Leakage Test required												
- Leakage rate compliance: les than or equal to 5 percent.												
LMCI and LMCV-MCH-22 Fan Efficacy												
LMCI and LMCV-MCH-23 Airflow Rate												
- Compliance: Fan Efficacy less than or equal to 0.58 W/cfm for non-gas furnaces and 0.45 W/cfm for gas furnaces and System Airflow greater than or equal to 350 cfm per ton.												
- Alternative Compliance: LMCI and LMCV-MCH-28 Return Duct Design verification is an alternative to MCH-22 and MCH-23 verification.												
LMCI and LMCV-MCH-25-H Refrigerant Charge verification required when refrigerant containing components are installed or altered (applicable in CZ 2, 8-15).												
Exceptions:												
Heating-only systems are exempt from the 0.58 W/cfm and 350 cfm/ton requirements.												
Note: An "entirely new or complete replacement duct system" means at least 75 percent of the duct system is new duct material, and up to 25 percent may consist of reused parts from the dwelling unit's existing duct system (e.g., registers, grilles, boots, air handler, coil, plenums, duct material) if the reused parts are accessible and can be sealed to prevent leakage												

F. Entirely New or Complete Replacement Space Conditioning System (Section 150.2(b)1C)												
01	02	03	04	05	06	07	08	09	10	10b	11	12
System ID/ Name	SC System Description of Area Served	Heating System Type	Altered Heating Component	Heating Efficiency Type	Heating Minimum Efficiency Value	Cooling System Type	Altered Cooling Component	Cooling Efficiency Type	Cooling Minimum Efficiency Value SEER/SEER2	Cooling Minimum Efficiency Value EER/EER2/CE ER	Required Thermostat Type	New Duct R-Value

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City and Zip Code:	La Mesa - 91942	Date Permit Issued:	2025-06-05

F. Entirely New or Complete Replacement Space Conditioning System (Section 150.2(b)1C)
<u>Required Documentation:</u> LMCI-MCH-01-E - Space Conditioning Systems - Duct insulation requirement for the new portions of supply-air and return-air ducts or plenums: R6 (CZ 3, 5-7) and R8 (CZ 1, 2, 4, 8-16) LMCI and LMCV-MCH-20-H Duct Leakage Test required - Leakage rate compliance: less than or equal to 5 percent. LMCI and LMCV-MCH-22 Fan Efficacy LMCI and LMCV-MCH-23 Airflow Rate Verification - Compliance: Fan Efficacy less than or equal to 0.58 W/cfm for non-gas furnaces and 0.45 W/cfm for gas furnaces and System Airflow greater than or equal to 350 cfm/ton. - Alternative Compliance: LMCI and LMCV-MCH-28 Return Duct Design verification is an alternative to MCH-22 and MCH-23 verification. LMCI and LMCV-MCH-25-H Refrigerant Charge verification required when refrigerant containing components are installed or altered (applicable in CZ 2, 8-15). <u>Exceptions:</u> Heating-only systems are exempt from the 0.58 W/cfm and 350 cfm/ton requirements. <u>Note:</u> An "entirely new or replacement duct system" means at least 75 percent of the duct system is new duct material, and up to 25 percent may consist of reused parts from the dwelling unit's existing duct system (e.g., registers, grilles, boots, air handler, coil, plenums, duct material) if the reused parts are accessible and can be sealed to prevent leakage



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City and Zip Code:	La Mesa - 91942	Date Permit Issued:	2025-06-05

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Eunique Johnson	Documentation Author Signature: <i>Eunique Johnson</i>
Company: We Green, Inc.	Signature Date: 2025-06-05
Address: 3675 Ruffin Road Suite 320	CEA/ HERS Certification Identification (if applicable): RCN13248
City/State/Zip: San Diego CA 92123	Phone: (888) 991-4377
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name:	Responsible Designer Signature:
Company: West Coast Appliance Services, Inc.	<i>Frances Barilla</i>
Address: 1256 Fayette Street	Date Signed: 2025-06-05
City/State/Zip: El Cajon CA 92020	License: 810930
	Phone: 888-694-2480

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



CERTIFICATE OF INSTALLATION

Project Name:	5419 Lake Murray Blvd APT 7	Enforcement Agency:	La Mesa, City of
Dwelling Address:	5419 Lake Murray Blvd APT 7 (5419 Lake Murray Blvd APT 7)	Permit Number:	Pending
City and Zip Code	La Mesa, 91942	Permit Application Date:	2025-06-04

A. General Information

01	Dwelling Unit Name	5419 Lake Murray Blvd APT 7	02	Climate Zone	7
03	Dwelling Unit Total Conditioned Floor Area (ft ²)	789	04	Number of Space Conditioning Systems in this Dwelling Unit.	1
05	Certificate of Compliance Type	Prescriptive (LMCC-MCH)	06	Method Used to Calculate HVAC Loads (See Section 160.3(b)1)	ACCA Manual J
07	Calculated Dwelling Unit Sensible Cooling Load (Btu/h)	24000	08	Calculated Dwelling Unit Heating Load (Btu/h)	24000
09	Dwelling Unit Number of Bedrooms	2			

MCH-01b - Space Conditioning Systems Ducts and Fans - Prescriptive Alterations



B. Space Conditioning (SC) System Information									
01	02	03	04	05	06	07	08	09	10
SC System ID/ Name from parent CC	SC System Description of Area Served	CFA served by this SC System (ft ²)	Is the SC system a ducted system?	Does work include installing a refrigerant containing component?	Does work include installing new SC system components?	Does work include installing more than 25 feet of ducts?	Does work include installing an "entirely new duct system"?	Does work include installing an "entirely new SC system"?	Alteration Type
System 1	Location 1	789	Yes	Yes	Yes	No	No	No	Altered space conditioning system
Notes:									

C. Space Conditioning (SC) System Alterations Compliance Information														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
SC System ID/ Name from parent CC	SC System Descriptio n of Area Served	Heating System Type	Altered Heating Componen t	Heating Efficiency Type	Heating Minimum Efficiency Value	Cooling System Type	Altered Cooling Componen t	Cooling Efficiency Type	Cooling Minimum Efficiency Value SEER/SEER 2	Cooling Minimum Efficiency Value EER/EER2/ CEER	Required Thermosta t Type	Number of Indoor Units for this System	Number of Ducted Indoor Units for this System	Central Fan Integrated (CFI) Ventilation System Status
System 1	Location 1	Central split HP	All new heating componen ts	HSPF2	9	Central split HP	All new cooling componen ts	EER2/SEER 2	17	10.5	Setback	1	1	Not a CFI system
Notes:														



D. Installed Heating Equipment Information for Gas Furnace Indoor Unit, or Heat Pump Indoor Unit, or Packaged Unit (Gas Furnace or Heat Pump)									
01	02	03	04	05	06	07	08	09	10
SC System ID/ Name from parent CC	SC System Description of Area Served	Heating Efficiency Type	Heating Efficiency Value	Indoor Unit or Packaged Unit Manufacturer	Indoor Unit or Packaged Unit Model Number	Indoor Unit or Packaged Unit Serial Number	SC System Rated Heating Capacity, Output (Btu/h)	Multi-Split Systems only	
								Indoor Unit Name or Description of Area Served	Indoor Unit Duct Status
System 1	Location 1	HSPF2	9	FIRST CO	24hx5240	240715702	24000	n/a	n/a

E. Installed Cooling Equipment Information for Outdoor Condenser or Packaged Unit (Air Conditioner or Heat Pump)									
01	02	03	04	05	06	07	08	09	10
SC System ID/ Name from parent CC	SC System Description of Area Served	Cooling Efficiency Type	Cooling Efficiency Value SEER/SEER2	Cooling Efficiency Value	Condenser or Package Unit Manufacturer	Condenser or Package Unit Model Number	Condenser or Package Unit Serial Number	System Cooling Capacity at Design Conditions (Btu/h)	Condenser Nominal Capacity (tons)
System 1	Location 1	EER2/SEER2	17	10.5	INNOVAIR	SEV24H2R19	540Q3558801 48030120121	24000	2
Notes:									

F. Altered Space Conditioning System Duct Information (< 75% of duct system is altered; or duct system is not altered)											
01	02	03	04	05	06	07	08	09	10	11	12
SC System ID/ Name from parent CC	SC System Description of Area Served	Indoor Unit Name or Description of Area Served	Was Any New Ducting Installed?	Required New Duct R-Value	Installed New Supply Duct Location	Installed New Supply Duct R-value	Installed New Return Duct Location	Installed New Return Duct R-Value	Exception from Min R-Value	Can Approved Airflow Protocols be used to test this System?	Indoor Unit Nominal Cooling capacity (tons)
System 1	Location 1	Location 1	No	n/a	n/a	n/a	n/a	n/a	No Exception	Yes	n/a

G. Installed New or Complete Replacement Duct System Information											
This section does not apply to this project.											

**H. Installed Air Filter Device Information**

This section does not apply to this project.

I. Air Filter Device Requirements

This section does not apply to this project.

J. HERS Verification Requirements for Duct Systems

01	02	03	04	05	06	07	08	09
SC System Identification or Name	SC System Description of Area Served	Indoor Unit Name or Description of Area Served	Exemption From Duct Leakage Requirements	MCH-20 Duct Leakage Test	MCH-21 Duct Location Verification	MCH-22 AHU Fan Efficacy (W/cfm)	MCH-23 AHU Airflow Rate (cfm/ton)	MCH-28 Return Duct Design - Table 160.3-A or B
System 1	Location 1	Location 1	Altered duct system has less than 40 ft of duct	No	No	No	No	No

Notes:

K. HERS Verification Requirements For Space Conditioning Equipment

01	02	03
SC System ID/ Name from parent CC	SC System Description of Area Served	MCH-25 Refrigerant Charge
System 1	Location 1	No

Notes:

**L. Space Conditioning Systems, Ducts and Fans Mandatory Requirements and Additional Measures**

Additional mandatory requirements from Section 160.3 that are not listed here may be applicable to some systems. These requirements may be applicable to only newly installed equipment or portions of the system that are altered. Existing equipment may be exempt from these requirements.

Heating Equipment

01	Equipment Efficiency: All heating equipment must meet the minimum efficiency requirements of Section 110.1 and Section 110.2(a) and the Appliance Efficiency Regulations.
02	Controls: All unitary heating systems, including heat pumps, must be controlled by a setback thermostat. These thermostats must be capable of allowing the occupant to program the temperature set points for at least four different periods in 24 hours. See Sections 160.3(a), 110.2(b).
03	Sizing: Heating load calculations must be done on portions of the building served by new heating systems to prevent inadvertent undersizing or oversizing. See sections 160.3(b)1 and 2).
04	Furnace Temperature Rise: Central forced-air heating furnace installations must be configured to operate at or below the furnace manufacturer's maximum inlet-to-outlet temperature rise specification. See Section 160.3(b)4.
05	Standby Losses and Pilot Lights: Fan-type central furnaces may not have a continuously burning pilot light. Section 110.5 and Section 110.2(d).

Cooling Equipment

06	Equipment Efficiency: All cooling equipment must meet the minimum efficiency requirements of Section 110.1 and Section 110.2(a) and the Appliance Efficiency Regulations.
07	Refrigerant Line Insulation: All refrigerant line insulation in split system air conditioners and heat pumps must meet the R-value and protection requirements of Section 160.3(b)5I1 and 3, and Section 160.3(b)6
08	Condensing Unit Location: Condensing units shall not be placed within five (5) feet of a dryer vent outlet. See Section 160.3(b)3A.
09	Liquid Line Filter Drier: A liquid line filter drier shall be installed according to the manufacturer's specifications 160.3(b)3B
10	Sizing: Cooling load calculations must be done on portions of the building served by new cooling systems to prevent inadvertent undersizing or oversizing. See Section 160.3(b)1 and 2.

Air Distribution System Ducts, Plenums and Fans

11	Insulation: The minimum duct insulation value is R-6 or ducts can be uninsulated if the duct system is located entirely in conditioned space. Note that higher values may be required by the prescriptive or performance requirements. See Section 160.3(b)5Aii for exceptions.
12	Connections and Closures: All installed air-distribution system ducts and plenums must be, sealed and insulated to meet the requirements of CMC Sections 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-006-2006.

Heat Pump Thermostat

13	A thermostat shall be installed that meets the requirements of Section 110.2(b) and Section 110.2(c).
14	The thermostat shall be installed in accordance with the manufacturers published installation specifications
15	First stage of heating shall be assigned to heat pump heating.
16	Second stage back up heating shall be set to come on only when the indoor set temperature cannot be met.

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

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Installation documentation is accurate and complete.

Documentation Author Name:

Nathan Gray

Documentation Author Signature:

Nathan Gray

Company:

We Green, Inc.

Signature Date:

2025-07-03

Address:

3675 Ruffin Road Suite 320

CEA/ HERS Certification Identification (if applicable):

RCN13046

City/State/Zip:

San Diego CA 92123

Phone:

(888) 991-4377

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Installation is true and correct.
2. 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.
3. 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.
4. I understand 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, and I will take the necessary steps to ensure this requirement is accomplished.
5. 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, and I will take the necessary steps to ensure this requirement is accomplished.

Responsible Builder/Installer Name:

Frances Barilla (authorized Nathan Gray)

Responsible Builder/Installer Signature:

Nathan Gray

Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)

West Coast Appliance Services, Inc.

Position With Company (Title):

Contractor/Installer

Address:

1256 Fayette Street

CSLB License:

810930

City/State/Zip:

El Cajon CA 92020

Phone:

888-694-2480

Date Signed:

2025-07-03

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 425-M020172095A-001-001-M01002A-0000

Registration Date/Time: 2025-07-03 08:02:24

HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Low-Rise Multifamily Compliance

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CHEERS REGISTRY PROJECT STATUS REPORT



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PROJECT SUMMARY

Project Name: 5419 Lake Murray Blvd APT 7
Address: 5419 Lake Murray Blvd APT 7
City, State, Zip: La Mesa, CA 91942
Building Department: La Mesa, City of
Permit Number: Pending
Building Energy Code: 2022 Standards

**HERS VERIFIABLE
MEASURES**

COMPLETE



**ENERGY CODE
COMPLIANCE**

COMPLETE



CERTIFICATE OF COMPLIANCE (LMCC)

DATE	DOCUMENT	TITLE	REGISTRATION NUMBER	STATUS
06/05/2025	LMCC-MCH-02-E	Residential HVAC Alterations	425-M020172095A-000-000-00000000-0000	

CERTIFICATE OF INSTALLATION (LMCI)

DATE	DOCUMENT	TITLE	REGISTRATION NUMBER	STATUS
07/03/2025	LMCI-MCH-01b-E	HVAC, Ducts and Fans	425-M020172095A-001-001-M01002A-0000	

5419 Lake Murray Blvd APT 7

C06 changed from "6.7" to "9"
C09 changed from "EERSEER" to "EER2SEER2"
C10 changed from "14" to "17"
C10b changed from "11.7" to "10.5"
J04 changed from "NoExemptions" to "DuctLessThan40Feet"