CERTIFICATE OF COMPLIANCE

Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

Calculation Date/Time: 2020-03-03T15:35:44-08:00

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Input File Name: instance.ribd22

| GENER | AL INFORMATION | | | | | | | | |
|-------|--|---|---|-------------------------------|------------------------------|--|--|--|--|
| 01 | Project Name | 2019 Prototype 39372ft2 Prop Mixed - In-Uni | 019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW | | | | | | |
| 02 | Run Title | TDSv30 V06R12 V06 R12 UGLASS15 NGAS PV | STD | | | | | | |
| 03 | Project Location | 1516 Ninth St | | | | | | | |
| 04 | City | CTZ04S22A | 05 | Standards Version | 2022 | | | | |
| 06 | Zip code | 95814 | 07 | Software Version | CBECC-Res 2022.0.2 RV (1117) | | | | |
| 08 | Climate Zone | 4 | 0 | | | | | | |
| 10 | Building Type | Multifamily | 11 | Number of Dwelling Units | 36 | | | | |
| 12 | Project Scope | NewConstruction | lewConstruction 13 Number of Bedrooms 60 | | | | | | |
| 14 | Addition Cond. Floor Area (ft ²) | 0 | 15 | Number of Stories | 3 | | | | |
| 16 | Existing Cond. Floor Area (ft ²) | n/a | 17 | Fenestration Average U-factor | 0.36 | | | | |
| 18 | Total Cond. Floor Area (ft ²) | 39372 | 19 | Glazing Percentage (%) | 9.21% | | | | |
| 20 | ADU Bedroom Count | ADU Conditioned Floor Area n/a | | | | | | | |
| 22 | Is Natural Gas Available? | Yes | | | | | | | |
| | | | | | | | | | |

| COMPLIANCE RE | SULTS |
|---------------|---|
| 01 | Building Complies with Computer Performance |
| 02 | This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. |
| 03 | This building incorporates one or more Special Features shown below |

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CERTIFICATE OF COMPLIANCE

Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

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Input File Name: instance.ribd22

| ENERGY DESIGN RATING | | | | | | | | | |
|----------------------|-------------------|--------------------------------|-----------|--------------|--|--|--|--|--|
| | Energy Des | ign Ratings | Complianc | ee Margins | | | | | |
| | Efficiency¹ (EDR) | Efficiency¹ (EDR) Total² (EDR) | | Total² (EDR) | | | | | |
| Standard Design | 76.6 | 43.9 | | | | | | | |
| Proposed Design | 71.1 | 38.5 | 5.5 | 5.4 | | | | | |

RESULT: 3: COMPLIES

- Standard Design PV Capacity: 76.52 kWdc
- PV System resized to 76.52 kWdc (a factor of 76.519) to achieve 'Standard Design PV' PV scaling

| | ENERGY USE SUMMARY | | | | | | | | | |
|---------------------------------------|--------------------|-----------------|-------------------|---------------------|--|--|--|--|--|--|
| Energy Use (kTDV/ft ² -yr) | Standard Design | Proposed Design | Compliance Margin | Percent Improvement | | | | | | |
| Space Heating | 4.67 | 5.03 | -0.36 | -7.7 | | | | | | |
| Space Cooling | 17.06 | 15.45 | 1.61 | 9.4 | | | | | | |
| IAQ Ventilation | 2 .55 | 2.55 | 0 | 0 | | | | | | |
| Water Heating | 32.72 | 23.89 | 8.83 | 27 | | | | | | |
| Self Utilization Credit | n/a | 0 | 0 | n/a | | | | | | |
| Compliance Energy Total | 57 | 46.92 | 10.08 | 17.7 | | | | | | |

| REQUIRED PV SYST | REQUIRED PV SYSTEMS - SIMPLIFIED | | | | | | | | | | |
|--------------------------|----------------------------------|-------------|-----------------------|-------------------|------|------------------|---------------|----------------------|-----------------|----------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| DC System Size (kWdc) | Exception | Module Type | Array Type | Power Electronics | CFI | Azimuth (deg) | Tilt Input | Array Angle (deg) | Tilt: (x in 12) | Inverter Eff. (%) | Annual Solar Access (%) |
| 76.52 | NA | Standard | Fixed (roof mount) | none | true | | n/a | n/a | n/a | 96 | |

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¹ Efficiency EDR includes improvements to the building envelope and more efficient equipment

² Total EDR includes efficiency and demand response measures such as photovoltaic (PV) systems and batteries

³ Building complies when efficiency and total compliance margins are greater than or equal to zero

CERTIFICATE OF COMPLIANCE CF1R-PRF-01E

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW Calculation Date/Time: 2020-03-03T15:35:44-08:00

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV System: 76.52 kWdc
- Indoor air quality, balanced fan
- Non-standard duct location (any location other than attic)
- Solar water heating credit, Multi-family building special feature and additional documentation
- Multifamily: Recirculating demand control

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

Building-level Verifications:

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood

Cooling System Verifications:

- Minimum Airflow
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM

Heating System Verifications:

-- None --

HVAC Distribution System Verifications:

- Duct leakage testing
- Ducts located entirely in conditioned space confirmed by duct leakage testing

Domestic Hot Water System Verifications:

-- None --

| BUILDING - FEATURES INFORMATION | | | | | | | | | | |
|---|---|-----------------------------|--------------------|-----------------|--|------------------------------------|--|--|--|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | | | | |
| Project Name | Conditioned Floor Area (ft ²) | Number of Dwelling Units | Number of Bedrooms | Number of Zones | Number of Ventilation Cooling Systems | Number of Water Heating Systems | | | | |
| 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW | 39372 | 36 | 60 | 3 | 0 | 36 | | | | |

Registration Number: Registration Date/Time: HERS Provider:

Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW **Calculation Description:** TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

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| ONE INFORMATION | | | | | | | | | |
|-----------------|-------------|------------------------------------|---------------------|---------------------------|--|--|--|--|--|
| 01 02 03 04 | | | | | | | | | |
| Zone Name | Zone Type | Zone Floor Area (ft ²) | Avg. Ceiling Height | Number of Dweilling Units | | | | | |
| Zone1 | Conditioned | 9916 | 8 | 10 | | | | | |
| Zone2 | Conditioned | 11536 | 8 | 13 | | | | | |
| Zone3 | Conditioned | 11536 | 8 | 13 | | | | | |

| DWELLING UNIT INFORMATION | | | | | | | |
|---------------------------|--------------------|-------|--|--|--|--|--|
| 01 | 02 | 03 | | | | | |
| Dwelling Unit Name | Dwelling Unit Type | Zone | | | | | |
| OneBedroomZone1-(1/4) | OneBedroom1 | Zone1 | | | | | |
| OneBedroomZone1-(2/4) | OneBedroom1 | Zone1 | | | | | |
| OneBedroomZone1-(3/4) | OneBedroom1 | Zone1 | | | | | |
| OneBedroomZone1-(4/4) | OneBedroom1 | Zone1 | | | | | |
| TwoBedroomZone1-(1/4) | TwoBedroom1 | Zone1 | | | | | |
| TwoBedroomZone1-(2/4) | TwoBedroom1 | Zone1 | | | | | |
| TwoBedroomZone1-(3/4) | TwoBedroom1 | Zone1 | | | | | |
| TwoBedroomZone1-(4/4) | TwoBedroom1 | Zone1 | | | | | |
| ThreeBedroomZone1-(1/2) | ThreeBedroom1 | Zone1 | | | | | |
| ThreeBedroomZone1-(2/2) | ThreeBedroom1 | Zone1 | | | | | |
| OneBedroomZone2-(1/4) | OneBedroom2 | Zone2 | | | | | |
| OneBedroomZone2-(2/4) | OneBedroom2 | Zone2 | | | | | |
| OneBedroomZone2-(3/4) | OneBedroom2 | Zone2 | | | | | |
| OneBedroomZone2-(4/4) | OneBedroom2 | Zone2 | | | | | |
| TwoBedroomZone2-(1/4) | TwoBedroom2 | Zone2 | | | | | |
| TwoBedroomZone2-(2/4) | TwoBedroom2 | Zone2 | | | | | |
| TwoBedroomZone2-(3/4) | TwoBedroom2 | Zone2 | | | | | |
| TwoBedroomZone2-(4/4) | TwoBedroom2 | Zone2 | | | | | |

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| WELLING UNIT INFORMATION | | | | | | | |
|--------------------------|---------------------|-------|--|--|--|--|--|
| 01 | 02 | 03 | | | | | |
| Dwelling Unit Name | Dwelling Unit Type | Zone | | | | | |
| ThreeBedroomZone2-(1/2) | ThreeBedroom2 | Zone2 | | | | | |
| ThreeBedroomZone2-(2/2) | ThreeBedroom2 | Zone2 | | | | | |
| StudioZone2-(1/3) | Studio2 | Zone2 | | | | | |
| StudioZone2-(2/3) | Studio2 | Zone2 | | | | | |
| StudioZone2-(3/3) | Studio2 | Zone2 | | | | | |
| OneBedroomZone3-(1/4) | OneBedroom3 | Zone3 | | | | | |
| OneBedroomZone3-(2/4) | OneBedroom3 | Zone3 | | | | | |
| OneBedroomZone3-(3/4) | OneBedroom3 | Zone3 | | | | | |
| OneBedroomZone3-(4/4) | OneBedroom3 | Zone3 | | | | | |
| TwoBedroomZone3-(1/4) | TwoBedroom3 | Zone3 | | | | | |
| TwoBedroomZone3-(2/4) | TwoBedroom3 | Zone3 | | | | | |
| TwoBedroomZone3-(3/4) | TwoBedroom3 | Zone3 | | | | | |
| TwoBedroomZone3-(4/4) | TwoBedroom3 | Zone3 | | | | | |
| ThreeBedroomZone3-(1/2) | ThreeBedroom3 | Zone3 | | | | | |
| ThreeBedroomZone3-(2/2) | ThreeBedroom3 | Zone3 | | | | | |
| StudioZone3-(1/3) | Studio3 | Zone3 | | | | | |
| StudioZone3-(2/3) | Studio3 | Zone3 | | | | | |
| StudioZone3-(3/3) | Studio3 | Zone3 | | | | | |
| | \ \(\mathref{U} \) | | | | | | |

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| DWELLING UNIT TYP | DWELLING UNIT TYPES | | | | | | | | | |
|-------------------|---------------------|-----------------------|-----------------------|---|--------------------|-----------------------------|--|--|--|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | | | | |
| Name | CFA (ft2) | Number of Bedrooms | Number in Building | Space Conditioning Systems Assigned | DHW System Name | IAQ Vent Fan Name | | | | |
| OneBedroom1 | 720 | 1 | 4 | OneBedroomZone1 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans | | | | |

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| DWELLING UNIT TY | PES | | | | | |
|------------------|-----------|-----------------------|-----------------------|---|--------------------|-----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | CFA (ft2) | Number of Bedrooms | Number in Building | Space Conditioning Systems Assigned | DHW System Name | IAQ Vent Fan Name |
| | | | | OneBedroomZone1 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone1 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone1 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | | |
| OneBedroom2 | 720 | 1 | 4 | OneBedroomZone2 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone2 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone2 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone2 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |
| OneBedroom3 | 720 | 1 | | OneBedroomZone3 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone3 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone3 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 OneBedroomZone3 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |

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| DWELLING UNIT TYPES | | | | | | | | |
|---------------------|-----------|-----------------------|-----------------------|---|--------------------|-----------------------------|--|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | | |
| Name | CFA (ft2) | Number of Bedrooms | Number in Building | Space Conditioning Systems Assigned | DHW System Name | IAQ Vent Fan Name | | |
| TwoBedroom1 | 1054 | 2 | 4 | TwoBedroomZone1 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone1 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone1 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone1 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans | | |
| TwoBedroom2 | 1054 | 2 | 4 | TwoBedroomZone2 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone2 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone2 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone2 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans | | |
| TwoBedroom3 | 1054 | 2 | 4 | TwoBedroomZone3 1/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone3 2/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 TwoBedroomZone3 3/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans | | |

Registration Number: Registration Date/Time: HERS Provider:

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| DWELLING UNIT TYPE | PES | | | | | |
|--------------------|-----------|-----------------------|-----------------------|---|--------------------|-----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | CFA (ft2) | Number of Bedrooms | Number in Building | Space Conditioning Systems Assigned | DHW System Name | IAQ Vent Fan Name |
| | | | | TwoBedroomZone3 4/4 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | | |
| ThreeBedroom1 | 1410 | 3 | 2 | ThreeBedroomZone1 1/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 ThreeBedroomZone1 2/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |
| ThreeBedroom2 | 1410 | 3 | 2 | ThreeBedroomZone2 1/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 ThreeBedroomZone2 2/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |
| ThreeBedroom3 | 1410 | 3 | 2 | ThreeBedroomZone3 1/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 ThreeBedroomZone3 2/2 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |
| Studio2 | 540 | 1 | | StudioZone2 1/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 StudioZone2 2/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 StudioZone2 3/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |

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| WELLING UNIT TY | PES | | | | | |
|-----------------|-----------|-----------------------|-----------------------|---|--------------------|-----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | CFA (ft2) | Number of Bedrooms | Number in Building | Space Conditioning Systems Assigned | DHW System Name | IAQ Vent Fan Name |
| Studio3 | 540 | 1 | 3 | StudioZone3 1/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 StudioZone3 2/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 StudioZone3 3/3 :HeatpumpSystem-Res:AirDistributionSystem-Res:HVACFan- HeatPump:2:3 | DHWGas | Specify Individual IAQ Fans |

| OPAQUE SURFACES | | | 1,0 | | | | |
|-------------------------|-----------|--------------------------|---------|-------------|-------------------------------|-------------------------------|------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft2) | Tilt (deg) |
| Zone1WallFront | Zone1 | Exterior Wall Cons | 0 | Front | 1334.5 | 434.25 | 90 |
| Zone1WallLeft | Zone1 | Exterior Wall Cons | 90 | Left | 578 | 153 | 90 |
| Zone1WallBack | Zone1 | Exterior Wall Cons | 180 | Back | 1334.5 | 434.25 | 90 |
| Zone1WallRight | Zone1 | Exterior Wall Cons | 270 | Right | 578 | 153 | 90 |
| Zone2WallFront | Zone2 | Exterior Wall Cons | 0 | Front | 1640.5 | 434.25 | 90 |
| Zone2WallLeft | Zone2 | Exterior Wall Cons | 90 | Left | 578 | 153 | 90 |
| Zone2WallBack | Zone2 | Exterior Wall Cons | 180 | Back | 1334.5 | 434.25 | 90 |
| Zone2WallRight | Zone2 | Exterior Wall Cons | 270 | Right | 578 | 153 | 90 |
| Zone3WallFront | Zone3 | Exterior Wall Cons | 0 | Front | 1640.5 | 434.25 | 90 |
| Zone3WallLeft | Zone3 | Exterior Wall Cons | 90 | Left | 578 | 153 | 90 |
| Zone3WallBack | Zone3 | Exterior Wall Cons | 180 | Back | 1334.5 | 434.25 | 90 |
| Zone3WallRight | Zone3 | Exterior Wall Cons | 270 | Right | 578 | 153 | 90 |
| Zone3ToAtticCeiling | Zone3 | Ceiling Below Attic Cons | n/a | n/a | 11536 | n/a | n/a |
| Corridor3ToAtticCeiling | Corridor3 | Ceiling Below Attic Cons | n/a | n/a | 1444 | n/a | n/a |

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| OPAQUE SURFACES | | | | | | | |
|---|----------------|--------------------------|---------|-------------|-------------------------------|-------------------------------|------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft2) | Tilt (deg) |
| Stairs3ToAtticCeiling | Stairs3 | Ceiling Below Attic Cons | n/a | n/a | 144 | n/a | n/a |
| Zone2ToZone1InteriorF loor | Zone2 | Interior Floor | n/a | n/a | 9916 | n/a | n/a |
| Zone2ToBusinessCente r1InteriorFloor | Zone2 | Interior Floor | n/a | n/a | 324 | n/a | n/a |
| Zone2ToLeasingOffice1I nteriorFloor | Zone2 | Interior Floor | n/a | n/a | 216 | n/a | n/a |
| Zone2ToFitnessCenter1 InteriorFloor | Zone2 | Interior Floor | n/a | n/a | 324 | n/a | n/a |
| Zone2ToLaundry1Interi orFloor | Zone2 | Interior Floor | n/a | n/a | 108 | n/a | n/a |
| Zone2ToLobby1Interior Floor | Zone2 | Interior Floor | n/a | n/a | 540 | n/a | n/a |
| Zone2ToMechanicalRo om1InteriorFloor | Zone2 | Interior Floor | n/a | n/a | 108 | n/a | n/a |
| Zone3ToZone2InteriorF loor | Zone3 | Interior Floor | n/a | n/a | 11536 | n/a | n/a |
| Corridor2ToCorridor1In teriorFloor | Corridor2 | Interior Floor | n/a | n/a | 1444 | n/a | n/a |
| Corridor3ToCorridor2In teriorFloor | Corridor3 | Interior Floor | n/a | n/a | 1444 | n/a | n/a |
| Stairs2ToStairs1Interior Floor | Stairs2 | Interior Floor | n/a | n/a | 144 | n/a | n/a |
| Stairs3ToStairs2Interior Floor | Stairs3 | Interior Floor | n/a | n/a | 144 | n/a | n/a |
| Laundry1WallBack | Laundry1 | Exterior Wall Cons | 180 | Back | 76.5 | 20.25 | 90 |
| LeasingOffice1WallFron t | LeasingOffice1 | Exterior Wall Cons | 0 | Front | 153 | 40.5 | 90 |
| Lobby1WallFront | Lobby1 | Exterior Wall Cons | 0 | Front | 153 | 80.5 | 90 |

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| OPAQUE SURFACES | | | | | | | |
|-----------------------------|-----------------|--------------------|---------|-------------|-------------------------------|-------------------------------|------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft2) | Tilt (deg) |
| MechanicalRoom1Wall Back | MechanicalRoom1 | Exterior Wall Cons | 180 | Back | 76.5 | 0 | 90 |
| Stairs1WallBack | Stairs1 | Exterior Wall Cons | 180 | Back | 153 | 0 | 90 |
| Stairs2WallBack | Stairs2 | Exterior Wall Cons | 180 | Back | 153 | 0 | 90 |
| Stairs3WallBack | Stairs3 | Exterior Wall Cons | 180 | Back | 153 | 0 | 90 |

| | | | | GA. | | | |
|-------|-----------------|------------|---------------------|------------------|----------------|-----------------|-----------|
| ATTIC | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Construction | Туре | Roof Rise (x in 12) | Roof Reflectance | Roof Emittance | Radiant Barrier | Cool Roof |
| Attic | Attic Roof Cons | Ventilated | 0 | 0.1 | 0.85 | Yes | No |

| FENESTRATION / GLAZING | | | | | | | | | | | | | |
|------------------------|--------|----------------|-------------|---------|---------------|----------------|-------|----------------------------|----------|--------------------|------|--------------------|---------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| Name | Туре | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft ²) | U-factor | U-factor Source | SHGC | SHGC Sourc e | Exterior Shading |
| Zone1WinFront | Window | Zone1WallFront | Front | 0 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone1WinLeft | Window | Zone1WallLeft | Left | 90 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone1WinBack | Window | Zone1WallBack | Back | 180 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone1WinRight | Window | Zone1WallRight | Right | 270 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone2WinFront | Window | Zone2WallFront | Front | 0 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone2WinLeft | Window | Zone2WallLeft | Left | 90 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone2WinBack | Window | Zone2WallBack | Back | 180 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone2WinRight | Window | Zone2WallRight | Right | 270 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |

Registration Number: Registration Date/Time: HERS Provider:

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Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| FENESTRATION / GLAZING | | | | | | | | | | | | | |
|------------------------|--------|-------------------------|-------------|---------|---------------|----------------|-------|----------------------------|----------|--------------------|------|--------------------|---------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| Name | Туре | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft ²) | U-factor | U-factor Source | SHGC | SHGC Sourc e | Exterior Shading |
| Zone3WinFront | Window | Zone3WallFront | Front | 0 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone3WinLeft | Window | Zone3WallLeft | Left | 90 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone3WinBack | Window | Zone3WallBack | Back | 180 | 3 | 5 | 28 | 434.2 5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Zone3WinRight | Window | Zone3WallRight | Right | 270 | 3 | 5 | 10 | 153 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Laundry1WinBack | Window | Laundry1WallBack | Back | 180 | 3 | 5 | 1 | 20.25 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| LeasingOffice1WinFront | Window | LeasingOffice1WallFront | Front | 0 | 3 | 5 | 2 | 40.5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |
| Lobby1WinFront | Window | Lobby1WallFront | Front | 0 | 3 | 5 | 2 | 40.5 | 0.36 | NFRC | 0.25 | NFRC | Bug Screen |

| OPAQUE DOORS | | | |
|-----------------|------------------|-------------------------|----------|
| 01 | 02 | 03 | 04 |
| Name | Side of Building | Area (ft ²) | U-factor |
| Lobby1DoorFront | Lobby1WallFront | 40 | 0.2 |

| SLAB FLOORS | | | | | | |
|---------------------|-----------------|------------|----------------|-------------------------------|-------------------|--------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | Zone | Area (ft2) | Perimeter (ft) | Edge Insul. R-value and Depth | Carpeted Fraction | Heated |
| Zone1Slab | Zone1 | 9916 | 450 | None | 80% | No |
| Corridor1Slab | Corridor1 | 1444 | 0 | None | 100% | No |
| BusinessCenter1Slab | BusinessCenter1 | 324 | 0 | None | 100% | No |
| FitnessCenter1Slab | FitnessCenter1 | 324 | 0 | None | 100% | No |
| Laundry1Slab | Laundry1 | 108 | 9 | None | 100% | No |

Registration Number: Registration Date/Time: HERS Provider:

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Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| SLAB FLOORS | | | | | | |
|---------------------|-----------------|------------|----------------|-------------------------------|-------------------|--------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | Zone | Area (ft2) | Perimeter (ft) | Edge Insul. R-value and Depth | Carpeted Fraction | Heated |
| LeasingOffice1Slab | LeasingOffice1 | 216 | 18 | None | 100% | No |
| Lobby1Slab | Lobby1 | 540 | 18 | None | 100% | No |
| MechanicalRoom1Slab | MechanicalRoom1 | 108 | 9 | None | 0% | No |
| Stairs1Slab | Stairs1 | 144 | 18 | None | 0% | No |

| OPAQUE SURFACE CONSTR | RUCTIONS | | | | | | |
|--------------------------|------------------------|------------------------|---|-------------------------|--|----------|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Construction Name | Surface Type | Construction Type | Framing | Total Cavity R-value | Interior / Exterior Continuous R-value | U-factor | Assembly Layers |
| Exterior Wall Cons | Exterior Walls | Wood Framed Wall | 2x6 @ 16 in. O. C. | R-21 | None / R-4 | 0.051 | Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Sheathing / Insulation: R-4 Sheathing Exterior Finish: Synthetic Stucco |
| IntWall Cons | Interior Walls | Wood Framed Wall | 2x6 @ 16 in. O. C. | R-21 | None / None | 0.064 | Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board |
| Attic Roof Cons | Attic Roofs | Built-up Roof | 2x4 @ 24 in. O. C. | R-0 | None / None | 0.633 | Roofing: 5 PSF (Normal Gravel) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 |
| Ceiling Below Attic Cons | Ceilings (below attic) | Wood Framed Ceiling | 2x4 Bottom Chord of Truss @ 24 in. O. C. | R-38 | None / None | 0.025 | Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Btm Chrd Inside Finish: Gypsum Board |

Registration Number: Registration Date/Time: HERS Provider:

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| | OPAQUE SURFACE CONSTR | RUCTIONS | | | | | | |
|--|-----------------------|-----------------|-------------------|---------------------|-----|-------------|-------|------------------|
| Construction Name Surface Type Construction Type Framing Continuous R-value Continuous R-value U-factor Assembly Layers Floor Surface: Carpeted Floor Deck: Wood Interior Floor Wood Framed Floor Young 10tal Cavity R-value Continuous R-value Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Interior Floor Interior Floors Wood Framed Floor 2x12 @ 16 in. O. C. R-0 None / None / None / None / Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 | Construction Name | Surface Type | Construction Type | Framing | | Continuous | | Assembly Layers |
| | Interior Floor | Interior Floors | Wood Framed Floor | 2x12 @ 16 in. O. C. | R-0 | None / None | 0.196 | Floor Deck: Wood |

| BUILDING ENVELOPE - HERS VERIFICATION | | | |
|---------------------------------------|---|-------------------------------|-------|
| 01 | 02 | 03 | 04 |
| Quality Insulation Installation (QII) | Quality Installation of Spray Foam Insulation | Building Envelope Air Leakage | CFM50 |
| Required | Not Required | Not Required | n/a |

| WATER HEATING SYS | TEMS | | | | | | | |
|-------------------|-----------------------------|-------------------------------------|--|------------------------------------|-----------------------|----------------------|-------------------------|----------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name | System Type | Number of Systems in Building | Multi-Family Distribution Type | Dwelling Unit Distribution Type | Water Heater Name (#) | Solar Heating System | Compact Distribution | HERS Verification |
| DHWGas | Domestic Hot Water (DHW) | 1 | Multi-family: Recirculating demand control | Standard Distribution System | Gas (2) | n/a | None | n/a |

| WATER HEATERS | | 4 | 6 | | | | | | | | |
|---------------|----------------------------|-----------------------|------------|-----------------------|-----------------------------------|--------------------------|--|-------------------------------------|--------------------------------|----------------------------------|---------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Name | Heating Element Type | Tank Type | # Units | Tank Vol. (gal) | Energy Factor or Efficiency | Input Rating or Pilot | Tank Insulation R-value (Int/Ext) | Standby Loss or Recovery Eff. | 1st Hr. Rating or Flow Rate | NEEA Heat Pump Brand or Model | Tank Location or Ambient Condition |
| Gas | Gas | Commercial Storage | 72 | 119 | 0.8-TE | 103000- Btu/Hr | 0 | 0.020000 | n/a | n/a | n/a |

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CF1R-PRF-01E Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW Calculation Date/Time: 2020-03-03T15:35:44-08:00 (Page 15 of 28)

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| WATER HEATING - HERS | VERIFICATION | | | | | | |
|-----------------------------------|-----------------|-----------------|----------------------|---------------------------|-----------------------|-----------------------------|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Pipe Insulation | Parallel Piping | Compact Distribution | Compact Distribution Type | Recirculation Control | Central DHW Distribution | Shower Drain Water Heat Recovery |
| OneBedroomZone1 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone1 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone1 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone1 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone1 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone1 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone1 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone1 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone1 1/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone1 2/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone2 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone2 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone2 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone2 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone2 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |

Registration Date/Time: Registration Number: **HERS Provider:**

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW Calculation Date/Time: 2020-03-03T15:35:44-08:00

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| WATER HEATING - HERS | VERIFICATION | | | | | | |
|-----------------------------------|-----------------|-----------------|----------------------|------------------------------|-----------------------|-----------------------------|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Pipe Insulation | Parallel Piping | Compact Distribution | Compact Distribution Type | Recirculation Control | Central DHW Distribution | Shower Drain Water Heat Recovery |
| TwoBedroomZone2 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone2 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone2 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone2 1/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone2 2/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone2 1/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone2 2/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone2 3/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone3 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone3 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone3 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| OneBedroomZone3 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone3 1/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone3 2/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| TwoBedroomZone3 3/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |

Registration Number: Registration Date/Time: HERS Provider:

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW Calculation Date/Time: 2020-03-03T15:35:44-08:00 (Page 17 of 28)

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| WATER HEATING - HERS | VERIFICATION | | | | | | |
|-----------------------------------|-----------------|-----------------|----------------------|---------------------------|-----------------------|-----------------------------|-------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Pipe Insulation | Parallel Piping | Compact Distribution | Compact Distribution Type | Recirculation Control | Central DHW Distribution | Shower Drain Water Heat Recovery |
| TwoBedroomZone3 4/4 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone3 1/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| ThreeBedroomZone3 2/2 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone3 1/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone3 2/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |
| StudioZone3 3/3 DHWGas | Not Required | Not Required | Not Required | None | Not Required | Not Required | Not Required |

| SPACE CONDITIONING SYSTEM | 1S | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| OneBedroomZone1 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone1 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone1 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

Registration Number: Registration Date/Time: HERS Provider:

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW Calculation Date/Time

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| SPACE CONDITIONING SYSTEM | 1S | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| OneBedroomZone1 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone1 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone1 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone1 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone1 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| ThreeBedroomZone1 1/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| ThreeBedroomZone1 2/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

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| SPACE CONDITIONING SYSTEM | 15 | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| OneBedroomZone2 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone2 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone2 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone2 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone2 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone2 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone2 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

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| SPACE CONDITIONING SYSTEM | 15 | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| TwoBedroomZone2 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| ThreeBedroomZone2 1/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| ThreeBedroomZone2 2/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone2 1/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone2 2/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone2 3/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone3 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

Registration Number: Registration Date/Time: HERS Provider:

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Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| SPACE CONDITIONING SYSTEM | 15 | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| OneBedroomZone3 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone3 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| OneBedroomZone3 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone3 1/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone3 2/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone3 3/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| TwoBedroomZone3 4/4 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

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| SPACE CONDITIONING SYSTEM | 15 | | | | | | | | | |
|---|---------------------------|------------------------|------------------------|----------------------|-----------------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| ThreeBedroomZone3 1/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| ThreeBedroomZone3 2/2 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone3 1/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone3 2/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |
| StudioZone3 3/3 :HeatpumpSystem- Res:AirDistributionSystem- Res:HVACFan-HeatPump:2:3 | Heat pump heating cooling | HeatpumpS ystem-Res | HeatpumpS ystem-Res | HVACFan- HeatPump | AirDistributi onSystem- Res | Setback | New | NA | 1 | 1 |

| HVAC - HEAT PUMPS | | | | | | | | | | |
|------------------------|------------------|--------------------|----------|--------|---------|------|---------|------------|-------------------|------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name System Type | | Number of Units | Heating | | Cooling | | Zonally | Compressor | HERS Verification | |
| Name | System Type | i Number of Offics | HSPF/COP | Cap 47 | Cap 17 | SEER | EER | Controlled | Туре | HERS VEHICACION |
| HeatpumpSystem- Res | Central split HP | 36 | 8.2 | 24000 | 12000 | 14 | 11.7 | Not Zonal | Single Speed | HeatpumpSystem- Res-hers-htpump |

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

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Input File Name: instance.ribd22

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| HVAC HEAT PUMPS - | HERS VERIFICATION | | | | | | | |
|--|-------------------|----------------|--------------|---------------|--------------------------------|---------------|----------------------------|----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name | Verified Airflow | Airflow Target | Verified EER | Verified SEER | Verified Refrigerant Charge | Verified HSPF | Verified Heating Cap 47 | Verified Heating Cap 17 |
| HeatpumpSystem- Res-hers-htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Corridor1-hers- htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- BusinessCenter1- hers-htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- FitnessCenter1- hers-htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Laundry1-hers- htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- LeasingOffice1- hers-htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Lobby1-hers- htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Stairs-hers-htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Corridor2-hers- htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |
| HeatpumpSystem- Corridor3-hers- htpump | Required | 350 | Not Required | Not Required | Yes | No | No | No |

 VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

 01
 02
 03
 04
 05
 06
 07
 08
 09
 10

Registration Number:

Registration Date/Time:

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Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

| Name | Certified Low-Static VCHP System | Airflow to Habitable Rooms | Ductless Units in Conditioned Space | Wall Mount Thermostat | Air Filter Sizing & Dizer & Amp; Pressure Drop Rating | Low Leakage Ducts in Conditioned Space | Minimum Airflow per RA3.3 and SC3.3.3.4.1 | Certified non-continuous Fan | Indoor Fan not Running Continuously |
|------|--|----------------------------------|---|--------------------------|--|---|--|------------------------------------|---|
|------|--|----------------------------------|---|--------------------------|--|---|--|------------------------------------|---|

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| HVAC - DISTRIBUTIO | N SYSTEMS | | | | | | | | , | | |
|----------------------------------|----------------------------|--------------|----------|-----------|----------------------|----------------------|--------|--------|----------------------|----------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| | | , | Duct Ins | . R-value | Duct Lo | ocation | Surfac | e Area | | | |
| Name | Туре | Design Type | Supply | Return | Supply | Return | Supply | Return | Bypass Duct | Duct Leakage | HERS Verification |
| AirDistributionSy stem-Res | Conditioned space-entirely | Non-Verified | R-4.2 | R-4.2 | Conditio ned Zone | Conditio ned Zone | n/a | n/a | No Bypass Duct | Sealed and Tested | AirDistributio nSystem-Res- hers-dist |
| AirDistributionSy stem-NonRes | Conditioned space-entirely | Non-Verified | R-4.2 | R-4.2 | Conditio ned Zone | Conditio ned Zone | n/a | n/a | No Bypass Duct | Sealed and Tested | AirDistributio nSystem- NonRes-hers- dist |

| HVAC DISTRIBUTION | HVAC DISTRIBUTION - HERS VERIFICATION | | | | | | | |
|--|---------------------------------------|---|---------------------------|-------------------------|--------------|------------------------|----------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name | Duct Leakage Verification | Duct Leakage Target (%) | Verified Duct Location | Verified Duct Design | Buried Ducts | Deeply Buried Ducts | Low-leakage Air Handler | Low Leakage Ducts Entirely in Conditioned Space |
| AirDistributionSyst em-Res-hers-dist | Yes | total leakage <= 12.0 or leakage to outdoors <= 5.0 | Required | Not Required | Not Required | Credit not taken | Not Required | No |
| AirDistributionSyst em-NonRes-hers- dist | Yes | total leakage <= 12.0 or leakage to outdoors <= 5.0 | Required | Not Required | Not Required | Credit not taken | Not Required | No |

Registration Number: Registration Date/Time: HERS Provider:

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

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Input File Name: instance.ribd22

| HVAC - FAN SYSTEMS | | | | | | | |
|--------------------|----------|-----------------------|---------------------------|--|--|--|--|
| 01 | 02 | 03 | 04 | | | | |
| Name | Туре | Fan Power (Watts/CFM) | Name | | | | |
| HVACFan-HeatPump | HVAC Fan | 0.58 | HVACFan-HeatPump-hers-fan | | | | |

| HVAC FAN SYSTEMS - HERS VERIFICATION | | | | | | |
|--------------------------------------|------------------------|-----------------------------------|--|--|--|--|
| 01 | 02 | 03 | | | | |
| Name | Verified Fan Watt Draw | Required Fan Efficacy (Watts/CFM) | | | | |
| HVACFan-HeatPump-hers-fan | Required | 0.58 | | | | |

| IAQ (INDOOR AIR QUALITY) FAM | IS | | | | |
|--|---------|---------------|--------------|--------------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SREIAQ Recovery Effectiveness - SRE |
| OneBedroomZone1 1/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone1 2/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone1 3/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone1 4/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| TwoBedroomZone1 1/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone1 2/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone1 3/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone1 4/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |

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Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD Input File Name: instance.ribd22

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| IAQ (INDOOR AIR QUALITY) FANS | | | | | | | | |
|--|---------|---------------|--------------|--------------------------------|--|--|--|--|
| 01 | 02 | 03 | 04 | 05 | 06 | | | |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SREIAQ Recovery Effectiveness - SRE | | | |
| ThreeBedroomZone1 1/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | | | | |
| ThreeBedroomZone1 2/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | | | | |
| OneBedroomZone2 1/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | | | | |
| OneBedroomZone2 2/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | | | | |
| OneBedroomZone2 3/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | | | | |
| OneBedroomZone2 4/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | | | | |
| TwoBedroomZone2 1/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | | | | |
| TwoBedroomZone2 2/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | | | | |
| TwoBedroomZone2 3/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | | | | |
| TwoBedroomZone2 4/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | | | | |
| ThreeBedroomZone2 1/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | | | | |
| ThreeBedroomZone2 2/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | | | | |
| StudioZone2 1/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | | | | |
| StudioZone2 2/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | | | | |
| StudioZone2 3/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | | | | |

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| IAQ (INDOOR AIR QUALITY) FAN | IS | | | | |
|--|---------|---------------|--------------|--------------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SREIAQ Recovery Effectiveness - SRE |
| OneBedroomZone3 1/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone3 2/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone3 3/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| OneBedroomZone3 4/4 fan 1/1 cnt 1/1 | 37 | 0.25 | Balanced | 0 | |
| TwoBedroomZone3 1/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone3 2/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone3 3/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| TwoBedroomZone3 4/4 fan 1/1 cnt 1/1 | 54 | 0.25 | Balanced | 0 | |
| ThreeBedroomZone3 1/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | |
| ThreeBedroomZone3 2/2 fan 1/1 cnt 1/1 | 72 | 0.25 | Balanced | 0 | |
| StudioZone3 1/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | |
| StudioZone3 2/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | |
| StudioZone3 3/3 fan 1/1 cnt 1/1 | 31 | 0.25 | Balanced | 0 | |

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Registration Date/Time:

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CERTIFICATE OF COMPLIANCE CF1R-PRF-01E

Project Name: 2019 Prototype 39372ft2 Prop Mixed - In-Unit Gas DHW

Calculation Description: TDSv30 V06R12 V06 R12 UGLASS15 NGAS PVSTD

Calculation Date/Time: 2020-03-03T15:35:44-08:00

Input File Name: instance.ribd22

| DOCUM | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | | | | | | | | | |
|-------------|---|---|--|--|--|--|--|--|--|--|
| 1. I certi | fy that this Certificate of Compliance documentation is accurate and complete. | | | | | | | | | |
| Documer | ntation Author Name: | Documentation Author Signature: | | | | | | | | |
| | | | | | | | | | | |
| Company | r. | Signature Date: | | | | | | | | |
| Address: | | CEA/ HERS Certification Identification (If applicable): | | | | | | | | |
| City/State | e/Zip: | Phone: | | | | | | | | |
| RESPON | SIBLE PERSON'S DECLARATION STATEMENT | | | | | | | | | |
| I certify t | he following under penalty of perjury, under the laws of the State of California: | | | | | | | | | |
| 1. | I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the | building design identified on this Certificate of Compliance. | | | | | | | | |
| 2. | I certify that the energy features and performance specifications identified on this Certificate of Co | ompliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. | | | | | | | | |
| 3. | The building design features or system design features identified on this Certificate of Compliance calculations, plans and specifications submitted to the enforcement agency for approval with this | are consistent with the information provided on other applicable compliance documents, worksheets, building permit application. | | | | | | | | |
| Responsi | ble Designer Name: | Responsible Designer Signature: | | | | | | | | |
| Company | | Date Signed: | | | | | | | | |
| Address: | | License: | | | | | | | | |
| City/State | e/Zip: | Phone: | | | | | | | | |
| | | | | | | | | | | |

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