

| | | | | | | | |
|----------------------|--|---------|--------------------|------------------------------|--|---|----|
| Walk-in freezer door | K Sheet | K Sheet | Interior partition | R-32 | | City of Puget Sound Development & Permitting Services ISSUED PERMIT | 21 |
| | U-Factor Source: | | | U-Factor Source Description: | | | |
| | Does opaque freezer door have glazing?: No | | | | | | |


| | | | | | | | |
|---------------------------------------|--|-------------------------------|----|--|--------------------------------|-------------|---------------------|
| Project Title | WSF-International Village - 2021 WSEC | | | | | Date | May 15, 2024 |
| Scope & Space Conditioning | NEW BUILDING - WALK-IN COOLER | | | | Compliance Verification | | COMPLIES |
| Window-to-wall Ratio | NA | Skylight-to-roof-ratio | NA | Vertical Fenestration Alternate | | NA | |

| Opaque Envelope Assemblies | | | | | | | | |
|------------------------------------|---|-------------|--------------------|------------------------------|----------------------------|------------------------|----------|-----------------------|
| | | | | Insulation R-Values | | | | |
| Roof/Ceiling | Location in Documents | Assembly ID | Assembly Location | Cavity | Continuous (% penetration) | 2nd Layer (MB Roof) | U-Factor | Net Area (SF) |
| Walk-in cooler ceiling | K Sheet | K Sheet | Interior partition | | R-25 (< 0.04%) | | | 290 |
| | Envelope assembly type: | | | U-Factor Source: | | | | |
| | U-Factor Source Description: | | | | | | | |
| Walls | Location in Documents | Assembly ID | Assembly Location | Cavity | Continuous (% penetration) | Insulated Wall Furring | U-Factor | Net Area (SF) |
| Walk-in cooler wall | K Sheet | K Sheet | Interior partition | | R-25 (< 0.04%) | | | 520 |
| | Envelope assembly type: | | | U-Factor Source: | | | | |
| | U-Factor Source Description: | | | | | | | |
| Floors and Edges | Location in Documents | Assembly ID | Assembly Location | Cavity | Continuous (% penetration) | | U-Factor | Net Area (SF) |
| Walk-in cooler integral floor | K Sheet | K Sheet | Interior partition | | R-25 (< 0.04%) | | | 290 |
| | U-Factor Source: | | | U-Factor Source Description: | | | | |
| Slab-on-grade Floors | Location in Documents | Assembly ID | Assembly Location | Slab Edge | Under Slab | | F-Factor | Perimeter Length (SF) |
| Walk-in cooler slab-on-grade floor | K Sheet | K Sheet | | | | | | |
| | Applying slab-on-grade floor exception?: No | | | | | | | |

| | | | | | | | |
|---------------------------------------|--|-------------------------------|----|--|--------------------------------|------------------------|---------------------|
| Project Title | WSF-International Village - 2021 WSEC | | | | | Date | May 15, 2024 |
| Scope & Space Conditioning | NEW BUILDING - FULLY CONDITIONED | | | | Compliance Verification | | COMPLIES |
| Window-to-wall Ratio | 0.42% | Skylight-to-roof-ratio | 0% | Vertical Fenestration Alternate | | No alternates selected | |

| Opaque Envelope Assemblies | | | | | | | | |
|-------------------------------|-----------------------------------|-------------|-------------------|-------------------------------|----------------------------|---------------------|----------|---------------|
| | | | | Insulation R-Values | | | | |
| Roof/Ceiling | Location in Documents | Assembly ID | Assembly Location | Cavity | Continuous (% penetration) | 2nd Layer (MB Roof) | U-Factor | Net Area (SF) |
| Metal building (purlins) | A4.1 | A4.1 | Exterior | R-38 | (< 0.04%) | R-10 | U-0.021 | 1,206 |
| | Thermal Spacer Block R-Value: R-0 | | | U-Factor Source: | | | | |
| | U-Factor Source Description: | | | Roof Framing Depth (Inches): | | | | |
| | Roof Framing Spacing (OC): | | | Is liner system included?: No | | | | |
| Insulation above & below deck | A4 | A4 | Exterior | | (< 0.04%) | | U-0.018 | 8,507 |
| | U-Factor Source: | | | U-Factor Source Description: | | | | |
| | Roof Framing Type: Standard | | | Roof Framing Depth (Inches): | | | | |

| | | | | | | | | |
|--|---|--------------------|--------------------------|-------------------------------------|-----------------------------------|-------------------------------|------------------------------|------------------------------|
| | Roof Framing Spacing (OC): | | | Roof Framing Material: Steel-framed | | | | |
| | Ceiling/Attic Venting: Unvented | | | | | | | |
| Walls | Location in Documents | Assembly ID | Assembly Location | Cavity | Continuous (% penetration) | Insulated Wall Furring | U-Factor | Net Area (SF) |
| Steel-framed - Commercial | A4 | A4 | Exterior | R-21 | R-10 (< 0.04%) | | U-0.051 | 7,070 |
| | U-Factor Source: | | | U-Factor Source Description: | | | | |
| | Framing Depth: | | | Other Framing Depth: | | | | |
| | Framing Spacing (OC): | | | | | | | |
| Slab-on-grade Floors | Location in Documents | Assembly ID | Assembly Location | Slab Edge | Under Slab | | F-Factor | Perimeter Length (SF) |
| Unheated slab | A4 | A4 | At grade level | R-10 | | | F-0.51 | 707 |
| | Slab Insulation Method: 3 ft vertical (from top of slab downward) | | | F-Factor Source: | | | | |
| | F-Factor Source Description: | | | | | | | |
| Fenestration & Opaque Door Assemblies | | | | | | | | |
| | | | | Insulation R-Values | | | | |
| Opaque Doors | Location in Documents | Assembly ID | Assembly Location | Door Insulation | | | U-Factor | Rough Opening (SF) |
| Swinging | A7 | A7 | Exterior | | | | U-0.37 | 378 |
| | What percentage of this opaque door is glazing?: 50% or less | | | U-Factor Source: | | | | |
| | U-Factor Source Description: | | | Is this a public entrance door?: | | | | |
| Garage - Glazed <14% | A2 | A7 | Exterior | | | | U-0.4 | 880 |
| | What percentage of this opaque door is glazing?: 50% or less | | | U-Factor Source: | | | | |
| | U-Factor Source Description: | | | | | | | |
| Vertical Fenestration | Location in Documents | Assembly ID | Assembly Location | | Shading (PF) | Fenestration SHGC | Fenestration U-Factor | Rough Opening (SF) |
| Fixed - All other types | A2 | A7 | Exterior | | PF < 0.2 | SHGC-0.38 | U-0.26 | 35 |
| | U-Factor & SHGC Source: | | | U-Factor Source Description: | | | | |

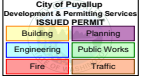
| | | | | | | | | | |
|--------------------------------|--|---|--------------------------|------------------------------------|--------------------|--|------------------------------------|-----------------|---------------------|
| Project Title | WSF-International Village - 2021 WSEC | | | | |  | | Date | May 15, 2024 |
| SHGC x A Calculation | | NEW BUILDING - FULLY CONDITIONED | | | | | COMPLIES | | |
| Fenestration Assemblies | | | | PROPOSED | | | TARGET | | |
| Vertical Fenestration | Assembly ID | PF | Fenestration SHGC | Assembly Rough Opening (SF) | SHGC x A | Fenestration SHGC | Assembly Rough Opening (SF) | SHGC x A | |
| Fixed - All other types | A7 | PF < 0.2 | 0.38 | 35.0 | 13.3 | 0.38 | 35.0 (1) | 13.3 | |
| Proposed Area | | Proposed SHGC x A | | | Target Area | | Target SHGC x A | | |
| Project Totals | | 35 | | | 13 | | 35 | | 13 |

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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| | | | | |
|--|------------------------|---------------------------------------|------------------------------|---------------------------|
| Project & Applicant Information | Project Title | WSF-International Village - 2021 WSEC | For Building Department Use: | Date: May 15, 2024 |
| | Project Address | 110 9TH AVE SW Puyallup, WA 98371 | | |
| | Applicant Name | Song Cho | | |
| | Applicant Phone | 509-432-4651 | | |
| | Applicant Email | songyi.cho@hotmail.com | | |
| For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com | | | | |



| | | | | | | |
|-------------------------------------|----------------|--|--|----------------------------------|----------------------------------|----------------------|
| General Occupancy | All Commercial | | General Building Use Type | Dining, Restaurant/Bar | Building Cond. Floor Area | 9,205 |
| General Project Types | New Building | New Building or Addition Lighting Scope | Interior Lighting Exterior Lighting | Alteration Lighting Scope | Project Cond. Floor Area | 9,205 |
| | | | | | Floors Above Grade | 2 |
| | | | | | Compliance Method | General Prescriptive |
| Lighting Project Description | | | | | | |

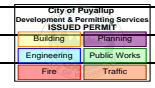
| | | | | | | |
|---|---|--|--|--------------------------|--|--------------------------------|
| Lighting Compliance Scope and Method | Project Type | Interior / Exterior (Interior includes both interior & parking) | Luminaire Replacement Scope | Compliance Method | LPA Calculation Adjustment | Compliance Verification |
| | New Building | Interior Lighting | | Building area | Reduced lighting power density option - 10% | COMPLIES |
| | New Building | Exterior Lighting | | | Not applicable to exterior | COMPLIES |
| Additional Energy Efficiency (AEC) Measures Included | Reduced lighting power density - 10% lower than LPA | | Load Management (LDM) Measures Included | | No lighting or electrical load management measures included in project | |

| | | | | | | |
|-----------------------------------|---------------------------------------|--|----------------------------|--------------------------------|-------------|--------------|
| Project Title | WSF-International Village - 2021 WSEC | | | | Date | May 15, 2024 |
| Lighting Power Calculation | NEW BUILDING - INTERIOR LIGHTING | | | Compliance Verification | COMPLIES | |
| Compliance Method | Building area | | LPA Calculation Adjustment | | LPA x 0.9 | |

| Interior Lighting Power Allowance - Building Area | | | | | |
|---|--------------------------|----------------|--------------------------------------|---------------------------------------|------------------------------------|
| Building Areas | Gross Interior Area (SF) | LPA (Watts/SF) | Total Watts Allowed (SF x LPA x 0.9) | Total Proposed Watts By Building Area | Compliance Status by Building Area |
| Dining - Bar/lounge/leisure | 9,200 | 0.79 | 6,541 | 5,787 | COMPLIES |

| Proposed Lighting Power Density | | | | | | | | |
|---------------------------------|------------|-----------------------------|---------------------------|---|---|------------------------|------------------------------|--|
| Fixture Type/Application | Fixture ID | Building Area | New or Existing-to-Remain | Quantity of Fixtures, CLDs or Luminaires (#F) | Watts per Fixture, CLD or Luminaire (WpF) | Total Linear Feet (LF) | Watts per Linear Foot (WpLF) | Total Watts Proposed (#F x WpF) or (LF x WpLF) |
| Individual Fixtures | | | | | | | | |
| Decorative | P8 | Dining - Bar/lounge/leisure | New | 8 | 56 | | | 448 |
| Decorative | S1 | Dining - Bar/lounge/leisure | New | 176 | 1 | | | 176 |
| Horizontal surface-mount | LED-1 | Dining - Bar/lounge/leisure | New | 683 | 1 | | | 683 |
| Horizontal surface-mount | T2 | Dining - Bar/lounge/leisure | New | 15 | 22 | | | 330 |
| Horizontal surface-mount | L1 | Dining - Bar/lounge/leisure | New | 9 | 32 | | | 288 |
| Horizontal surface-mount | P | Dining - Bar/lounge/leisure | New | 3 | 33 | 3 | | 99 |
| Troffer | T5 | Dining - Bar/lounge/leisure | New | 51 | 50 | | | 2,550 |
| Recessed downlight | RC3 | Dining - Bar/lounge/leisure | New | 27 | 7 | | | 176 |
| Recessed downlight | RC6 | Dining - Bar/lounge/leisure | New | 22 | 8 | | | 165 |
| Recessed downlight | SMC7 | Dining - Bar/lounge/leisure | New | 17 | 14 | | | 238 |

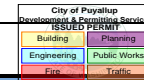
| | | | | | | | | |
|--------------------|------|-----------------------------|-----|-----|----|--|--|-----|
| Suspended | RC12 | Dining - Bar/lounge/leisure | New | 12 | 8 | | | 90 |
| Wall-mounted | S4 | Dining - Bar/lounge/leisure | New | 21 | 14 | | | 294 |
| Wall-mounted | R10 | Dining - Bar/lounge/leisure | New | 113 | 1 | | | 130 |
| Other fixture type | P1 | Dining - Bar/lounge/leisure | New | 11 | 11 | | | 121 |



| | | | |
|----------------------|--|-------------|---------------------|
| Project Title | WSF-International Village - 2021 WSEC | Date | May 15, 2024 |
|----------------------|--|-------------|---------------------|

| | |
|----------------------------------|---|
| Proposed Fixtures Details | NEW BUILDING - INTERIOR LIGHTING |
|----------------------------------|---|

| Fixture Type/Application | Fixture ID | Location in Documents | Lamp Type | Building Area | New or Existing-to-Remain |
|----------------------------|--|-----------------------|-----------|--|---------------------------|
| Individual Fixtures | | | | | |
| Decorative | P8 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: DECORATIVE | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Decorative | S1 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: DECORATIVE | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: Supplemental task lighting, occupancy or time switch | | | | |
| Horizontal surface-mount | LED-1 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: LED TAPE | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch | | | | |
| Horizontal surface-mount | T2 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: COVE LIGHTS | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: None required | | | | |
| Horizontal surface-mount | L1 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: STRIP FIXTURE | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: None required | | | | |
| Horizontal surface-mount | P | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: LED VAPOR-TIGHT | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: None required | | | | |
| Troffer | T5 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: TROFFER | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Recessed downlight | RC3 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: 4" DOWNLIGHT | | | Are these fixtures located within a daylight zone?: No | |
| | Do these fixtures require specific application lighting controls?: None required | | | | |
| Recessed downlight | RC6 | E2 SERIES | Halogen | Dining - Bar/lounge/leisure | New |
| | Fixture Description: DOWNLIGHT | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Recessed downlight | SMC7 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: DOWNLIGHT | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Suspended | RC12 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: DOWNLIGHT | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Toplit daylight zones | | | Do these fixtures require specific application lighting controls?: None required | |
| Wall-mounted | S4 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: WALL MOUNTED | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Wall-mounted | R10 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: WALL MOUNTED | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Sidelit daylight zones (primary and/or secondary) | | | Do these fixtures require specific application lighting controls?: None required | |
| Other fixture type | P1 | E2 SERIES | LED | Dining - Bar/lounge/leisure | New |
| | Fixture Description: POST | | | Are these fixtures located within a daylight zone?: Yes, controls provided | |
| | Daylight zone location(s): Toplit daylight zones | | | Do these fixtures require specific application lighting controls?: None required | |



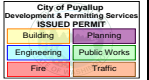
| | | | | | | | | | | |
|---|-------------------------|---------------------------------------|--|----------------------------------|---|---|---|---|--------------------------|--|
| Project Title | | WSF-International Village - 2021 WSEC | | | | | Date | | May 15, 2024 | |
| Lighting Power Calculation | | NEW BUILDING - EXTERIOR LIGHTING | | | | Compliance Verification | | COMPLIES | | |
| Exterior Lighting Zone | | | ZONE 3 | | Base Site Allowance | | | 400 | | |
| | | | Remaining Base Site Allowance Watts | | | 400 | | | | |
| Exterior Additional Lighting Power Allowance | | | | | | | | | | |
| Additional LPA Surface | Surface Sub-Type | Surface Area (SF) | LPA (Watts/SF) | # of Items | LPA (Watts per # of items) | Total Watts Allowed (LPA x SF) or (LPA x # of Items) | Total Proposed Watts by Surface Type | Proposed Watts Exceeding LPA | Compliance Status | |
| Building façade | | 5,390 | 0.113 | | | 609 | 84 | | | |
| Total Proposed Watts Exceeding LPA | | | | | | | | 0 | | |
| Remaining Base Site Allowance | | | | | | | | 400 | COMPLIES | |
| Proposed Exterior Additional Lighting Power Density | | | | | | | | | | |
| Fixture Type | Fixture ID | Additional LPA Surface Type | | Quantity of Fixtures (#F) | Watts or Wattage Limit per Fixture (WpF) | Total Linear Feet (LF) | Watts per Linear Foot (WpLF) | Total Watts Proposed (#F x WpF) or (LF x WpLF) | | |
| Individual Fixture | | | | | | | | | | |
| Wall-mounted | S4 | Building façade - | | 6 | 14 | | | 84 | | |
| Fixture Type | Fixture ID | Location in Documents | | | Lamp Type | Additional LPA Surface Type | New or Existing-to-Remain | | | |
| Individual Fixture | | | | | | | | | | |
| Wall-mounted | S4 | E2 SERIES | | | LED | Building façade - | New | | | |
| Do these fixtures require specific exterior lighting controls?: Daylight sensing off controls | | | | | | | | | | |

MECHANICAL COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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| | | | | |
|--|------------------------|--------------------------------------|------------------------------|---------------------------|
| Project & Applicant Information | Project Title | International Village - 2021 WSEC | For Building Department Use: | Date: May 06, 2024 |
| | Project Address | 110 9th ave SW Puyallup, WA 98371 | | |
| | Applicant Name | Reginald Christor | | |
| | Applicant Phone | 253-691-8434 | | |
| | Applicant Email | rchristor@middlebrookeng.com | | |



For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

| | | | | | | |
|---------------------------------------|--|--|----------------------------------|------------------------------------|----------------------------------|----------------------|
| General Occupancy | All Commercial | | General Building Use Type | Dining, Restaurant/Bar | Building Cond. Floor Area | 6,344 |
| General Project Types | New Building | New Building or Addition Mechanical Scope | Single Zone Systems & Equipment | Alteration Mechanical Scope | Project Cond. Floor Area | 6,344 |
| | | | | | Floors Above Grade | 2 |
| | | | | | Compliance Method | General Prescriptive |
| Mechanical Project Description | Install gas make up air units and type I and type II hoods. Install radiant heat for freeze protection in satellite kitchens. Install gas radiant heaters for occupant comfort outside of thermal envelope. Install AWHIP coupled with gas fired water heater for service hot water. | | | | | |

| | | | | | | |
|--|---|---|--|-----------------------------------|--|---|
| Mechanical Compliance Scope and Method | Project Type | Mechanical Scope | Economizer Exception(s) Applied? | DOAS Ventilation Provided? | Higher Equipment Efficiency Option Applied? | Equipment Efficiency Compliance Verification |
| | New Building | Single Zone Systems & Equipment | Yes | Yes | NA | COMPLIES |
| Additional Energy Efficiency (AEC) Measures Included | No mechanical additional energy efficiency measures included in project | | Load Management (LDM) Measures Included | | No mechanical load management measures included in project | |
| Additional Efficiency Credits Included (AEC) | | | | | | |
| Does building include occupancy classifications requiring DOAS? | Yes | Does project include DOAS equipment? | | | | Yes |
| Based on project scope do TSPR requirements apply? | No | Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR? | | | | No |

| | | | |
|---------------------------------------|---|--------------------------------|-----------------|
| Scope & Space Conditioning | NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT | Compliance Verification | COMPLIES |
|---------------------------------------|---|--------------------------------|-----------------|

Single Zone Air Systems Category - Heat pump, split & single package, SC, SDHV

| Air Systems Summary Information | | | | | | | | |
|---------------------------------|-------------------|------------------------|----------------------|---|------------------------|------------------|-----------------------------|--------------------------------|
| System/Equip ID | Quantity of Items | Supply Airflow Control | Ventilation Standard | Ventilation CFM (Total if Multiple Items) | Ventilation Air Source | Paired with DOAS | Ventilation energy recovery | Energy Recovery Efficiency (%) |
| IU/OU-01 | | Staged volume | IMC Ventilation | 100 | Other System | | Not provided, not required | |
| IU/OU-02 | | Constant volume | IMC Ventilation | 50 | Separate DOAS | DOAS-01 | Provided but not required | 69 |
| IU/OU-04 | | Constant volume | IMC Ventilation | 100 | Other System | | Not provided, not required | |

| Air Systems & Equipment - Cooling | | | | | | | | | |
|-----------------------------------|---------------------------|---------------|-----------------------------------|--|--|-----------------------------|----------|------------------------------------|--|
| System/Equip ID | Cooling System/Equip Type | Specific Type | Cooling Capacity per item (Btu/h) | Econo Full Load Multiplier (Full/IPLV) | Required Cooling Efficiency (Code Min & Econo) | Proposed Cooling Efficiency | CE Units | Efficiency Compliance Verification | |
| IU/OU-01 | Heat pump, air cooled | Split system | 36,000 | 0 | 13.4 | 23.0 | SEER2 | COMPLIES | |
| IU/OU-02 | Heat pump, air cooled | Split system | 13,600 | 0 | 13.4 | 23.1 | SEER2 | COMPLIES | |
| IU/OU-04 | Heat pump, air cooled | Split system | 33 | 0 | 13.4 | 18.4 | SEER2 | COMPLIES | |



Air Systems & Equipment - Heating

| System /Equip ID | Heating System/Equip Type | Specific Type | Heat Pump Heating Capacity (Btu/h) | Cooling Capacity (Btu/h) | AEC Efficiency Multiplier | Proposed Heat Pump Heating Efficiency | HPH Units | Proposed Low OSA Temp Efficiency | LTH Units | Efficiency Compliance Verification |
|------------------|--------------------------------|---------------|------------------------------------|--------------------------|---------------------------|---------------------------------------|-----------|----------------------------------|-----------|------------------------------------|
| IU/OU-01 | Heat pump, air cooled, heating | Split system | 42,000 | 36,000 | 1 | 12.5 | HSPF2 | | COP | COMPLIES |
| IU/OU-02 | Heat pump, air cooled, heating | Split system | 18,100 | 13,600 | 1 | 10.7 | HSPF2 | | COP | COMPLIES |
| IU/OU-04 | Heat pump, air cooled, heating | Split system | 35,200 | 33,200 | 1 | 8.5 | HSPF2 | | COP | COMPLIES |

Air Systems & Equipment Details

| System/Equip ID | Discrete Area(s) Served | Location In Project Documents - Plan/Detail # | System/Equip Compliance Path |
|-----------------|---|---|---|
| IU/OU-01 | KITCHEN | ALL | General Prescriptive |
| | System/Equip ID for a single or multiple items?: Single item | | |
| | Heating Section/Auxiliary Heating Type: Other source | | Economizer Compliance Method: Economizer not required |
| | WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Heat Pumps | | |
| | Proposed Low OSA Temp Efficiency: | | LTH Units: COP |
| | WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(2) - Unitary Heat Pumps | | |
| IU/OU-02 | OFFICE | ALL | General Prescriptive |
| | System/Equip ID for a single or multiple items?: Single item | | |
| | Heating Section/Auxiliary Heating Type: Other source | | Economizer Compliance Method: Economizer not required |
| | WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Heat Pumps | | |
| | Proposed Low OSA Temp Efficiency: | | LTH Units: COP |
| | WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(2) - Unitary Heat Pumps | | |
| IU/OU-04 | KITCHEN | ALL | General Prescriptive |
| | System/Equip ID for a single or multiple items?: Single item | | |
| | Heating Section/Auxiliary Heating Type: Other source | | Economizer Compliance Method: Economizer not required |
| | WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Heat Pumps | | |
| | Proposed Low OSA Temp Efficiency: | | LTH Units: COP |
| | WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(2) - Unitary Heat Pumps | | |

Single Zone Air Systems Category - Infrared heating equipment

Air Systems Summary Information

| System/Equip ID | Quantity of Items | Supply Airflow Control | Ventilation Standard | Ventilation CFM (Total if Multiple Items) | Ventilation Air Source | Paired with DOAS | Ventilation energy recovery | Energy Recovery Efficiency (%) |
|------------------|-------------------|------------------------|-------------------------|---|------------------------|------------------|-----------------------------|--------------------------------|
| ALL RH EQUIPMENT | | | IMC Natural Ventilation | | | | | |

Radiant & Passive Convection - Baseboard, In-floor, Infrared and Chilled Beams

| Equipment Type | System ID (from Systems Summary) | Discrete Areas Served | Required Ventilation CFM | Ventilation Air Source | Total System Capacity |
|--------------------|----------------------------------|-----------------------|--------------------------|------------------------|-----------------------|
| Electric, low temp | Infrared heaters | | | | |

Air Systems & Equipment Details

| System/Equip ID | Discrete Area(s) Served | Location In Project Documents - Plan/Detail # | System/Equip Compliance Path |
|------------------|--|---|------------------------------|
| ALL RH EQUIPMENT | SEMI HEATED | MH101 | General Prescriptive |
| | System/Equip ID for a single or multiple items?: Single item | | |