

| CITY & COUNTY OF DENVER COMMUNITY PLANNING & DEVELOPMENT BUILDING PERMIT POLICY | | |
|--|------------------------------------|-----------------------------|
| Subject: COMCHECK INTERIM SUBMITTAL REQUIREMENTS Prescriptive Compliance Path – 2022 Denver Energy Code | | |
| Approved: Eric Browning, P.E., Building Official | | Drafted by: Morrison |
| Number: 2022 DEC C401.2 | Effective Date: May 1, 2023 | Page: 1 of 2 |

Reference: 2022 Denver Energy Code (DEC)
2021 International Energy Conservation Code (IECC)

Scope: This policy clarifies the Commercial project submittal requirements for the Prescriptive Compliance Path allowed by the 2022 Denver Energy Code (DEC) until a time when the U.S. Department of Energy COMcheck tool is updated to incorporate the provisions of the 2022 Denver Energy Code.

Definitions:

The *commercial provisions* of the 2022 Denver Energy Code apply to new buildings with conditioned space that are not defined as *Residential Buildings* (see definition below) and any such buildings undergoing an addition, remodel, alteration, repair, change of occupancy that would result in an increase in demand for either fossil fuel or electrical energy, or change of use.

Residential Buildings: Detached one- and two-family dwellings, multiple single-family dwellings (townhouses) and Group R-3 and R-4 buildings three stories or less in height above grade plane.

Policy:

Until COMcheck is updated with the 2022 DEC, the following requirements for Commercial plans submittals are provided.

Commercial Prescriptive Path Requirements

Commercial buildings can demonstrate compliance with the Prescriptive Path requirements by using the 2022 DEC. Per Section C401, prescriptive compliance with Sections C402 through C406 and C408 shall be documented with a combination of the national 2021 IECC COMcheck tool and supplemental documentation and calculations.

Additional Energy Efficiency Credit Requirements

The 2022 DEC includes significant changes to Section C406 Additional Energy Efficiency Credit Requirements, providing greater flexibility for compliance. Commercial plans submittals following the prescriptive compliance path must demonstrate compliance with Section C406 using the C406.1 Planning Tool included in the 2022 Denver Energy Code Commercial Prescriptive Checklist. Both the Checklist and C406.1 Planning Tool are required to be included in the construction documents.

Credits shall be documented with a combination of the national 2021 IECC COMcheck tool and supplemental documentation and calculations as shown below.

| Additional Energy Efficiency Credits for Denver | Documentation | Additional Documentation |
|--|----------------------|---|
| C406.2.1: 5% Heating Efficiency Imprv. | 2021 IECC COMcheck | |
| 2021 IECC COMcheck | 2021 IECC COMcheck | |
| C406.2.3: 10% Heating Efficiency Imprv. | 2021 IECC COMcheck | |
| C406.2.4: 10% Cooling Efficiency Imprv. | 2021 IECC COMcheck | |
| C406.2.5: >10% Cooling Efficiency Imprv. | Denver Specific | Include documentation and supplemental calculations |
| C406.2.6: >10% Heating Efficiency Imprv. | Denver Specific | Include documentation and supplemental calculations |

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| Additional Energy Efficiency Credits for Denver | Documentation | Additional Documentation |
|--|--|---|
| C406.3: Reduced Light Power C406.3.2: Reduced lighting power by 15% C406.3.2: Reduced lighting power by >15% | 2021 IECC COMcheck with Denver Specific instructions | Include dwelling and sleeping units in Building Area Method |
| C406.4: Enhanced Digital Light Ctrl | 2021 IECC COMcheck | |
| C406.5.1: Basic Renewable Credit. | 2021 IECC COMcheck | |
| C406.5.2: Enhanced Renewable Credit | Denver Specific | Include documentation and supplemental calculations |
| C406.6: Dedicated OA Sys (DOAS) | 2021 IECC COMcheck | |
| C406.7.2: Recovered/Renew SWHb | 2021 IECC COMcheck | |
| C406.7.3: Efficient fossil fuel SWHb | 2021 IECC COMcheck | |
| C406.7.4: Heat Pump SWHb | 2021 IECC COMcheck | |
| C406.8.1: Reduced envelope UA C406.8.2: Further reduced envelope UA | 2021 IECC COMcheck with Denver Specific instructions | Include supplemental calculations if design must comply with C402.1.4.3 z-girts or Table C402.4 "All Other Vertical Fenestration" |
| C406.9.1: Reduced Air Infiltration | 2021 IECC COMcheck | |
| C406.9.2: Further Reduced Air Infiltration | Denver Specific - threshold only | Include documentation |
| C406.10: Energy Monitoring | 2021 IECC COMcheck | |
| C406.11: Fault Detection | 2021 IECC COMcheck | |
| C406.12: Efficient Kitchen Equipment | 2021 IECC COMcheck | |
| C406.13: All-Electric Space Heating | Denver Specific | Include documentation |
| C406.14: Cold Climate Heat Pumps | Denver Specific | Include documentation |
| C406.15: All-Electric Water Heating | Denver Specific | Include documentation |
| C406.16: Demand Responsive Thermostats | Denver Specific | Include documentation |
| C406.17.1: Reduced Fan Power C406.17.2: Further Reduced Fan Power | Denver Specific | Include documentation and supplemental calculations |

END OF DOCUMENT