

Oregon Commercial Reach Code

2022 edition

Under Oregon Revised Statute (ORS) 455.500, the division, in consultation with the appropriate advisory board, shall establish a Reach Code, a set of statewide optional construction standards and methods that are economically and technically feasible, including any published generally accepted codes and standards newly developed for construction or for the installation of products, equipment and devices. The Reach Code is designed to increase energy efficiency in buildings and provide a choice for builders, consumers, contractors, and others.

The Oregon Commercial Reach Code is an optional standard for the construction, reconstruction, alteration, or repair of a building governed by the Oregon Structural Specialty Code (OSSC). The provisions of this code are not mandatory. Builders and designers can choose to comply with the 2021 Oregon Energy Efficiency Specialty Code (OEESC), which is Chapter 13 of the OSSC, or the 2022 Oregon Commercial Reach Code.

The 2022 Oregon Commercial Reach Code consists of the 2021 OEESC and the following supplemental provisions.

SECTION CR1301 GENERAL

CR1301.1 General. The provisions of this reach code are supplemental to Chapter 13 of the 2019 Oregon Structural Specialty Code, the 2021 Oregon Energy Efficiency Specialty Code (OEESC), and shall be referred to herein as “this code.” ANSI/ASHRAE/IES Standard 90.1-2019 serves as the construction provisions for the 2021 OEESC. ANSI/ASHRAE/IES Standard 90.1-2019 shall be referred to herein as “Standard 90.1.”

CR1301.2 Scope. This code shall apply to laboratories, *data centers*, conditioned warehouses, and retail or mercantile buildings over 40,000 ft² serving a single tenant, and all other new buildings over 100,000 ft² of conditioned floor area.

Exception: R-2, R-3, and R-4 occupancy buildings 5-stories and fewer.

CR1301.3 Application. New buildings, other than *data centers*, shall comply with the 2021 OEESC and either Section CR1301.3.1 or CR1301.3.2. *Data centers* shall comply with the 2021 OEESC, using Standard 90.1 Section 4.2.1.1, Item a. and Section CR1301.3.3.

CR1301.3.1 Energy Cost Budget Method. Comply with Standard 90.1 Section 4.2.1.1., Item b., *Energy Cost Budget Method* (Chapter 11), modified by the following: The *design energy cost* shall be less than 90% of the *energy cost budget*.

CR1301.3.2 Appendix G Method. Comply with Standard 90.1 Section 4.2.1.1, Item c., *Performance Rating Method* (Appendix G), to achieve a 10% reduction of regulated energy use. The Performance Cost Index Target (PCI_t) formula is modified as follows:

$$PCI_t = [BBUEC + (BPF \times 0.90 \times BBREC)] / BBP$$

CR1301.3.3 Data Centers. *Data centers* shall comply with Standard 90.1-2019 Section 4.2.1.1., Item a., and Sections 6.5.1.1, 8.2.1, and 8.5 as modified by the 2021 OEESC. In addition, the maximum Mechanical Load Component (MLC) and Electrical Load Component (ELC) targets using ANSI/ASHRAE Standard 90.4-2019 shall be reduced by 10%.

SECTION CR1302 PLUMBING FIXTURE EFFICIENCY

CR1302.1 Plumbing Application of WESStand. Those portions of the 2017 WESStand, Water Efficiency and Sanitation Standard for the Built Environment, as published by International Association of Plumbing and Mechanical Officials (IAPMO) shall apply, where applicable to the building.