

2024 CODES-DESIGN CRITERIA

2024 CODES IN EFFECT with City of Prescott Amendments:

2024 International Building Code (IBC)	2024 International Residential Code (IRC)
2024 International Mechanical Code (IMC)	2024 International Plumbing Code (IPC)
2023 National Electrical Code (NEC)	2024 International Fire Code (IFC)
2024 International Fuel Gas Code (IFGC)	2012 International Energy Conservation Code (IECC)

RESIDENTIAL DESIGN CRITERIA SINGLE FAMILY AND DUPLEX

SNOW LOAD:	Varies by site must provide report from ASCE Hazard Tool https://ascehazardtool.org/
WIND SPEED:	Residential: 105 mph 3 second gust Exposure 'C'
SEISMIC CATEGORY:	Residential 'C', unless verified by soils report
FROST DEPTH:	18" below finished grade
WINTER DESIGN TEMP:	20 deg
ENERGY CODE:	ZONE 4B per 2012 IECC table R402.1.1: Roof =R-49; Wall =R-20; Floor =R-19; Slab =R-10 for 24"; Window U-factor 0.35; Window SHGC 0.40; ACCA Manual J,S and D for HVAC Design

COMMERCIAL DESIGN CRITERIA

SNOW LOAD:	Varies by site must provide report from ASCE Hazard Tool https://ascehazardtool.org/ Reducible with engineered calculations
WIND SPEED:	Risk category I building, 95 mph 3 second gust Risk category II building, 105 mph 3 second gust Risk category III building, 110 mph 3 second gust Risk category IV building, 115 mph 3 second gust All Categories are Exposure 'C'
SEISMIC CATEGORY:	Provided by Engineer based on soils report and ASCE 7-22
FROST DEPTH:	18" below finished grade
WINTER DESIGN TEMP:	20 deg
ENERGY CODE MINIMUMS	ZONE 4B per 2012 IECC table C402.2 and C402.3: Wood Framed Attic =R-38; Wood framed Wall =R-20; Metal Building Roof= R-19 + R-11 LS; Metal Building Wall = R-13+R-13 CI; Floor =R-30; Slab =R-10 for 24" Fixed Window U-factor=0.38; Operable Window U-factor= 0.45; SHGC = 0.40 ACCA Manual N, CS and Q for HVAC Sizing or ASHR