



KOOTENAI COUNTY

COMMUNITY DEVELOPMENT

BUILDING • CODE ENFORCEMENT • PLANNING

MINIMUM REQUIREMENTS FOR RESIDENTIAL HVAC SUBMITTAL

- Complete Summary of ACCA Manual J and D with room-by-room calculations including final duct layout
 - Size the appliances according to Manual S
 - Heating maximum over Heat Loss 140%
 - Cooling maximum over Heat Gain 125%
 - Complete Kootenai County HVAC Design Form
 - HVAC equipment manufacturer BTU and CFM performance tables
 - Complete and signed current Kootenai County Mechanical Permit Application
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- ◇ Be sure the ACCA Manual J room-by-room calculation entries are consistent with the plans submitted
 - ◇ Submit only the BTU and CFM Performance Tables from the manufacturer's specification manuals; not the entire manual.
 - Highlight the specific appliances that are being proposed
 - ◇ The ACCA Manual J design floor areas and wall heights should be consistent with plans submitted
 - ◇ Kootenai County requires the infiltration construction quality be "SEMI-TIGHT"
 - ◇ The building orientation should be the same as the site plan submitted; North, South, East, West
 - ◇ Winter and Summer indoor and outdoor design temperatures must be correct:
 - Winter Indoor: 70* Winter Outdoor: -1*
 - Summer Indoor: 75* Summer Outdoor: 86-89*
 - ◇ The ceiling, floor, wall insulation values and areas must be consistent with plans submitted or Building Code minimum
 - Ceiling: R-38
 - Walls: R-20
 - Floor: R-30
 - ◇ Window U-Values must be consistent with plans submitted or Building Code maximum: U.32
 - ◇ Duct System "FRICTION RATE" must be between .06 - .18
 - ◇ Be sure Mechanical Application is consistent with plan
 - Number of Ventilation Fans is consistent with number of bathrooms, gas water heater(s), gas cooktop/stove(s), any dryer(s), etc.
 - Type of gas (Natural/Propane) and correct number of gas pipe outlets
 - Correct BTU/CFM/TON per appliance
 - Number of Small Gas Appliances NOT Listed (i.e.: generator, BBQ, fire pit, etc.)