

Contractor's Signature

Residential Plans Examiner Review Form For HVAC System Design (Loads, Equipment, Ducts)

Form RPER 2.0

County, Town, Municipality, Jurisdiction - Header Information

Contractor	Applicable Attachments Manual J1 Form and Worksheet A: Yes Ves No
Mechanical License #	OEM performance data (heating, cooling, blower): Yes No Duct distribution sketch Yes No
Building Plan #	IRC Table R301.2 (climatic & geographic design criteria) Yes 🗌 No
Home Address (Street or Lot #, Block, Subdivis	ion)
	(IRC M1/01 3)
Manual I Design Criteria and Loads	
Location	Summer Design Conditions Manual Lloads
Elevation ft	Outdoor Cooling Temp °F Total Heat Loss Btu
Altitude Correction Factor ACF	Indoor Cooling Temp °F
Latitude ° N	Cooling Temp Diff °F Sensible Heat Gain Btu
	Indoor Summer Design RH% Latent Heat GainBtu
Winter Design Conditions	Coincident Wet Bulb Temp°F Total Heat GainBtu
Outdoor Winter Temp°F	
Indoor Winter Temp°F	
Heating Temp Diff	
Th	e heat loss / gain was calculated in accordance with ACCA Manual J? 📋 Y 📋 N
HVAC EQUIPMENT SELECTION	(IRC M1401.3)
Heating Equipment Furnace Boiler Electric Single Stage Multi-Stage Modulat	Cooling Equipment Heat Air Conditioner Ing Air-to-Air Geothermal Open Loop Geothermal Closed Loop Single Speed Multi-Stage
Model	Model
Output Btu Sizing Value	Btu Sensible Btu Sizing Value Btu
Supplemental Btu Size Limit	% Latent Btu Size Limit %
Heat Load: Capacit	zy % Total _{Btu} Load: Capacity %
Size Factor is within Manual S Size Limit? 🗌 Y 🗌 N Size Factor is within Manual S Size Limit? 🗌 Y 🗌 N	
HVAC DUCT DISTRIBUTION DESIGN	(IRC M1601.1)
Design Airflow Cfm	Longest Supply Duct Ft Duct Materials Used
External Static Pressure (ESP)	Longest Return Duct Ft Trunk Duct: Duct Board Sheet metal
Component Pressure Loss (CPL)	Total Effective Length (TEL)
Available Static Pressure (ASP)	Friction Rate Branch Duct: Duct Board Sheet metal
ESP - CPL = ASP	(ASP x 100) / TEL = Friction Rate
	Ducts are sized per Manual D?
I declare the load calculation equipment se	lection, and duct system design were rigorously performed based on the building
plan listed above and understand the claims	made on these forms may be subject to review and verification.
	Date
Contractor's Printed Name	