

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

Form RPER 1 15 Mar 09

County, Town, Municipality, Jurisdiction Header Information

Contractor

Mechanical License #

Building Plan #

Home Address (Street or Lot#, Block, Subdivision)

HVAC LOAD CALCULA	TION (IRC I	M1401.3)					
Design Conditions			Building Construction Inforr	<u>mation</u>			
Winter Design Conditions			Building				
Outdoor temperature		°F	Orientation (Front door faces)				
Indoor temperature		°F Btu	North, East, West, South, Northeast, Northwest, Southeast, Southwest				
Total heat loss			Number of bedrooms				
Summer Design Condition		Conditioned floor area	Sq Ft				
Outdoor temperature		°F	Number of occupants				
Indoor temperature		°F	Windows	Roof			
Grains difference	∆ Gr @	% Rh	Eave overhang depth	Ft			
Sensible heat gain		Btu	Internal shade	Eave T			
Latent heat gain		Btu	Blinds, drapes, etc	Depth Window			
Total heat gain		Btu	Number of skylights	Ť			

HVAC EQUIPMENT SELECTION (IRC M1401.3)

Heating Equipment Data		Cooling Equipment Data			Blower Data	
Equipment type Furnace, Heat pump, Boiler, etc.		Equipment type Air Conditioner, Heat pump, etc			Heating CFM	CFM
Model		Model		Cooling CFM CFM		
Heating output capacity Heat pumps - capacity at winter design outdoor cond	 itions	Sensible cooling capacity Latent cooling capacity		Btu		IWC
Auxiliary heat output capacity	Btu	Total cooling capacity				static pressure for
HVAC DUCT DISTRIBUTION SYS	STEM	DESIGN (IRC M1601.1)				
Design airflow	CFM	Longest supply duct:	Ft	Duct Materials Used (circle) Trunk Duct: Duct board, Flex, Sheet metal, Lined sheet metal, Other (specify)		
External Static Pressure (ESP)	IWC	Longest return duct:	Ft			
Component Pressure Losses (CPL)	IWC	Total Effective Length (TEL)	Ft	Branch Duct: Duct board, Flex, Sheet metal, Lined sheet metal, Other (speci		heet metal,
Available Static Pressure (ASP) ASP = ESP - CPL	IWC	Friction Rate:	IWC			Other (specify)
I declare the load calculation, equipment above, I understand the claims made on					l based on the buildin	ng plan listed
Contractor's Printed Name				Date		
Contractor's Signature				_		

Reserved for County, Town, Municipality, or Authority having jurisdiction use.

* Home qualifies for MJ1AE Form based on Abridged Edition Checklist.

REQUIRED ATTACHMENTS

Manual J1 Form (and supporting worksheets): or MJ1AE Form* (and supporting worksheets): OEM performance data (heating, cooling, blower): Manual D Friction Rate Worksheet: Duct distribution system sketch:

ATTACHED						
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