

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



2425 Reedie Drive, 7th Floor, Wheaton, MD 20902 Phone: 311 in Montgomery County or (240)777-0311 http://www.montgomerycountymd.gov/permittingservices

http://www.montgomerycountymd.	gov/permitting	gservices					PRYLAD		
Contractor				Manual D Friction Rate Worksheet:			ATTACHED Yes		
Mechanical License # Building Plan # Home Address (Street or Lot#, Block, Subdivision)							Yes		
							Yes Yes		
							Yes 🗌		
•				Juct distribution syst	em sketch:		Yes		
HVAC LOAD CALCULATI	ON (IRC M	1401.3							
Design Conditions				ing Construct	ion Infor	<u>mation</u>			
Winter Design Conditions	14	0		ilding antation (Frant day	or faces)				
Outdoor temperature				Orientation (Front door faces) North, East, West, South, Northeast, N Number of bedrooms			Northwest, Southeast, Southwest		
Indoor temperature	70	_ 。	Nu						
Total heat loss		Bti		Conditioned floor area		Sq F	t		
Summer Design Conditions	92	0	Г			94.	-		
Outdoor temperature	75	•	r Nu	Number of occupants					
Indoor temperature	A C = 0		VVII	ndows		- .	Roof		
	Δ Gr @	_ % Kı Btı		ve overhang depth		Ft			
Sensible heat gain		Bti	into	Internal shade			Eave Window		
Latent heat gain	_			linds, drapes, etc mber of skylights			Depth Window		
Total heat gain		Btı		inder of skytights			ı		
HVAC EQUIPMENT SELEC	CTION (IR								
Heating Equipment Data			Cooling Equipment [Blower Data	<u>a</u>		
Equipment type Furnace, Heat pump, Boiler, etc.			Equipment type Air Conditioner, Heat pump,			Heating CFA	Λ CFM		
Model						Cooling CFA	۸ CFM		
Heating output capacity	Е	3tu	Sensible cooling capacit	у	Btu	Cooting Civi			
Heat pumps - capacity at winter design of			Latent cooling capacity	-	 Btu				
Auxiliary heat output capacity		Btu	Total cooling capacity		 Btu				
HVAC DUCT DISTRIBUTI	ON SYSTE	EM DE	SIGN (IRC M1601.1)						
Design airflow			Longest supply duct:	Ft	Duct Mate	erials Used (circ	le)		
					Trunk Duct: Duct board, Flex, Sheet metal,				
External Static Pressure (ESP)	I\	WC	Longest return duct:	Ft		Lined sheet n	netal, Other (specify)		
Component Pressure Losses (CPL) _	I\	WC	Total Effective Length (TE	il) Ft	Branch Du	ıct: Duct board,	uct board, Flex, Sheet metal,		
Available Static Pressure (ASP)	IWC		Friction Rate:	IWC			Lined sheet metal, Other (specify)		
ASP = ESP - CPL			Friction Rate = (ASP × 100) ÷						
I declare the load calculation, ecabove, I understand the claims						ased on the bu	ilding plan listed		
	made on the	SC TUITI	is will be subject to levi	ew and verifical					
Contractor's Printed Name					Date —				
Contractor's Signature									

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