Stafford County

Department of Public Works

Load Calculation (Manual J form)

Property Address:_____

Building permit #:_____Total Floor Area(SF):_____Zone:_____

1. Winter Design Conditions:

A. Temperature: Outside: _____ºF (0º-10ºF) Inside:_____(68º-72ºF)

B. Total Calculated Heat Loss: _____BTU hours

C. Heat factor = cfm capacity of equipment in heating mode / Total heat loss of the zone = 3H / 1B =_____

2. Summer Design Conditions:

A. Temperature: Outside:_____ ºF DB (92º-95º) Inside: _____ ºF WB (74º-77ºF)

B. Total Calculated Heat Gain = _____Btuh

C. (Structure) Total sensible gain = _____Btuh

D. Cooling Factor = cfm capacity of equipment in cooling mode / Total sensible heat gain of the zone = 4F = _____

3. Heating Eqiupment Data:

A. Manufacturer:_____

B. Furnace Model #:_____

C. Input: _____Btuh

D. Output: _____Btuh

E. Air handler Model # : _____

F. Fuel Type_____Heat Strip_____Btuh

G. Heat Pump Output: @ (0º-10ºF) _____Btuh

H. Actual Fan CFM: _____@ 0.5 ESP

I. Vent size _____

4. Cooling Equipment Data:

A. Manufacturer:_____

B. A/C Model #:_____

C. Heat Pump Model #:_____

D. Total Capacity @ Evaporator:_____Btuh

E. Sesible Capacity:_____Btuh

F. Actual Fan CFM:_____@0.5 ESP

5. Air Distribution: Please Note: all ductwork shall be designed and installed per the Virginia Uniform Statewide Building Code. Separate Certification and air distribution forms are required in each zone of multiple zone houses.

Room/ Area	Area SF	Heating CFM	Cooling CFM	Quantity & Outlet size	Quantity & Feeder Duct Size	Heat Loss Btuh	Sensible Heat Gain Btuh	Return Air Duct	Return Air Grille
Totals									

Room/ Area	Area SF	Heating CFM	Cooling CFM	Quantity & Outlet size	Quantity & Feeder Duct Size	Heat Loss Btuh	Sensible Heat Gain Btuh	Return Air Duct	Return Air Grille