

Fayette County

Permits & Inspections Department

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Web: http://www.fayettecountyga.gov/bldg_permits/infobldg.asp

DWELLING ELECTRICAL CALCULATION

PERMIT APPLICATIONS, PLANS AND/OR SUPPORTING DOCUMENTATION THAT ARE INCOMPLETE, ILLEGIBLE OR SUBMITTED IN ERASABLE MEDIA WILL NOT BE ACCEPTED. TYPE OR PRINT CLEARLY USING PERMANENT BLUE OR BLACK INK.

PROJECT INFORMATION:				
APPLICANT'S NAME:	PROJECT NAME:			
OWNER'S NAME:	PROJECT ADDRESS:			
ADD THE FOLLOWING GENERAL LOADS:				
GENERAL LIGHTING LOAD:SQ. FT. X 3 VOLT-AMPS (VA) = (The calculated floor area shall not include open porches, garages, or unused/unfinished spaces not adaptable for future use such as attics and crawl spaces, but shall include unfinished basements. The 3 VA per sq. ft. unit value is based on minimum load conditions and 100% power factor and may not provide sufficient capacity for the installation contemplated.)		(1)	VA	
SMALL APPLIANCE LOAD: NUMBER OF 2-WIRE, 20-AMP (A) CIRCUITS (2 MINIMUM) X 1,500 VA =		(2)	VA	
LAUNDRY LOAD: NUMBER OF 2-WIRE, 20-A LAUNDRY CIRCUITS (1 MINIMUM) X 1,500 VA =		(3)	VA	
TOTAL NAMEPLATE VA RATING OF ALL FASTENED-IN-PLACE, PERMANENTLY CONNECTED, OR LOCATED TO BE ON A SPECIFIC CIRCUIT. INCLUDE ALL MOTORS AND ALL LOW-POWER-FACTOR LOADS:				
QTY: RANGE(S)		(4)	VA	
QTY: WALL-MOUNTED OVEN(S)		(5)	VA	
QTY: COUNTER MOUNTED COOKING UNIT(S)		(6)	VA	
QTY: MICROWAVE(S)		(7)	VA	
QTY: COOKING EXHAUST HOOD(S)		(8)	VA	
QTY: CLOTHES DRYER(S)		(9)	VA	
QTY: WATER HEATER(S)		(10)	VA	
QTY: DISHWASHER(S)		(11)	VA	
QTY:TRASH COMPACTOR(S)		(12)	VA	
QTY: GARBAGE DISPOSAL(S)		(13)	VA	
QTY: CEILING FAN(S)		(14)	VA	
QTY: BATHROOM/LAUNDRY EXHAUST FAN(S)		(15)	VA	
QTY: GARAGE DOOR OPENER(S)		(16)	VA	
QTY: HYDROMASSAGE BATHTUB(S)		(17)	VA	
QTY: WELL PUMP(S)		(18)	VA	
QTY: SUMP PUMP(S)		(19)	VA	
QTY: ELEVATOR(S)		(20)	VA	
QTY: ELECTRIC WELDER(S)		(21)	VA	
QTY: AIR COMPRESSOR(S)		(22)	VA	
QTY: OTHER – SPECIFY: (Central vacuum system(s), electric fireplaces,	gas fireplace blower unit(s), etc.)	(23)	VA	
QTY:OTHER - SPECIFY:(Attic fan, freezer, water heater recirc. pump, ele	ectric steam unit, etc.)	(24)	VA	

Fayette County Permits and Inspections Department Dwelling Electrical Calculation

GENERAL LOADS SUBTOTAL (ADD I	INES 1 THRU 24 ABOVE):	(25)	VA	
APPLY DEMAND FACTOR TO GENERAL LOADS SUBTOTAL (LINE 25) AND ADD RESULTS A		S FOLLOWS:		
FIRST 10,000 VA OF GENERAL LOADS SUBTOTAL (LINE 25) AT 100%:				
GENERAL LOADS SUBTOTAL (UP TO AND INCLUDING 10,000 VA)	VA X 1.00 =	(26)	VA	
REMAINDER OVER 10,000 VA AT 40%: (GENERAL LOADS SUBTOTAL (LINE 25)VA - 10,000 V	A) X 0.40 =	(27)	VA	
GENERAL LOADS TOTAL (ADD I	LINES 26 AND 27 ABOVE):	(28)	VA	
INDICATE ALL OF THE FOLLOWING HEATING AND AIR-CONDITIONING LOADS (AS APPLICABLE):				
100% OF THE NAMEPLATE RATING(S) OF THE AIR CONDITIONING AND COOLING:		(29)	VA	
100% OF THE NAMEPLATE RATING(S) OF THE HEATING WHEN A HEAT PUMP IS USED WITHOUT ANY SUPPLEMENTAL ELECTRIC HEATING:		(30)	VA	
100% OF THE NAMEPLATE RATINGS OF ELECTRIC THERMAL STORAGE AND OTHER HEATING SYSTEMS WHERE THE USUAL LOAD IS EXPECTED TO BE CONTINUOUS AT THE FULL NAMEPLATE VALUE. SYSTEMS QUALIFYING UNDER THIS SELECTION SHALL NOT BE CALCULATED UNDER ANY OTHER SELECTION.		(31)	VA	
100% OF THE NAMEPLATE RATING(S) OF THE HEAT PUMP COMPRESSOR AND 65% OF THE SUPPLEMENTAL ELECTRIC HEATING FOR CENTRAL ELECTRIC SPACE HEATING SYSTEMS. IF THE HEAT PUMP COMPRESSOR IS PREVENTED FROM OPERATING AT THE SAME TIME AS THE SUPPLEMENTARY HEAT, IT DOES NOT NEED TO BE ADDED TO THE SUPPLEMENTARY HEAT FOR THE TOTAL CENTRAL SPACE HEATING LOAD:		(32)	VA	
65% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF LESS THAN FOUR SEPARATELY CONTROLLED UNITS:		(33)	VA	
40% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF FOUR OR MORE SEPARATELY CONTROLLED UNITS:		(34)	VA	
TOTAL HEATING AND A (INDICATE THE LARGEST LINE ITEM VA FROM LI	AIR-CONDITIONING LOAD NES 29 THRU 34 ABOVE):	(35)	VA	
CALCULATE LOAD FOR SERVICE SIZE:				
TOTAL LOAD (ADD LINES 28 AND 35): LINE 28VA + LINE 35VA =		(36)	VA	
DIVIDE LINE 36 BY 240-VOLTS (V): LINE 36VA / 240 V =		(37)	Α	
STANDARD AMPERE RATINGS:				
THE STANDARD AMPERE RATINGS FOR FUSES AND INVERSE TIME CIRCUIT BREAKERS SHALL BE CONSIDERED 100 (MINIMUM FOR ONE-FAMILY DWELLINGS), 110, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600 AMPERES.				
Limitations. This calculation worksheet is based on the latest version of state adopted m Feeder and Service Load Calculations" and applies to a single dwelling unit having the total connected los or greater. This calculation worksheet is provided to assist the permit applicant in demonstrating minimu the proposed electrical system. This worksheet shall not be construed to replace or supercede the minim worksheet and the NEC, the provisions of the NEC shall apply. Validity of permit. The issuance of a permit shall not be construed to be a permit for, or an allow or of any other ordinance. Permits presuming to give authority to violate or cancel the provisions of the crissuance of a permit based on construction documents and other data shall not prevent the Fayette Count of errors in the construction documents and other data. The FCPID is also authorized to prevent occupa any other ordinances of this jurisdiction. Amended construction documents. Work shall be installed in accordance with the approvation are not in compliance with the approved construction documents shall be resubmitted for approvate departure from or disregard of construction documents in any material respect without the approval of the	ad served by a single 120/240-volm code compliance and may not um code requirements of the NEC approval of, any violation of any of construction codes or ordinances or y Permits & Inspections Departmency or use of a structure where in eved construction documents, and as an amended set of construction	t, 3-wire service with an consider all elements of the consider services of the provisions of the coff the jurisdiction shall ent (FCPID) from requiriviolation of the construction of the	n ampacity of 100 or permutations of ccur between this construction codes not be valid. The ring the correction uction codes or of uring construction	
PRINT NAME TITLE (ELE	ECTRICAL CONTRACTOR, O	OWNER, ETC.)		