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Residential electrical load calculation worksheet excel

Residential load calculation is designed to be simple yet flexible. Follow along as I explain the uses for cell entry. How to use this spreadsheet? (See Fig.1) Fig (1):The spreadsheet calculates the residential load holding your marker over each cell with red markers at the top right indicating comments or helps guide you through data entry. Validation rules have been added as a useful feature. Try Import 1 for the small appliance circuit, the validation is set for 2 minimums, clicking the cell E6 will show the article code of the corresponding article pop-up. If the window is on the way you just pull it over and continue to log in. Press the tap button to move from the entry cell into the entry cell. To print go to the top of the page, next to the file, edit, view from there down to custom views, you'll find the wc/pool calc and the calc without the pool. Select the one you want to print and press the Print button. Manual spreadsheet calculation of residential load: 1- Check box in cell D6 next to sheet title to use optional calculation art 220.82 instead of standard calculate ART 220.42 THRU 220.55 2- user information. Worksheet: Fig.2 (2): User Information. Enter the required worksheet information in the user information worksheet as follows: Company name city address, state, Zip code Telephone & fax Serial number 3- Residential Calculation worksheet: see fig.1 Step (1): Article 220.42 & 220.52 (see fig.3) fig (3)) step (1) Enter the NEC input law note enter the square foot/square meter living area by selecting from the drop-down box as in nec 220-3 (b) floor area must be calculated from the dimensions outside the housing unit. For housing units, the area of the computational floor should not include open overpass, garages, or unavailable or unfinished spaces that are not compatible for future use. (Minimum permissible square area = 1000 square feet) demand factors listed in Table 220-42 (220.82(1) for optional method) shall apply to that part of the entire branch of computational load circuit for general lighting. In determining the number of circuits the branch does not apply to general lighting. Small appliances as provided in NEC 220-11 (c) (1) which requires two or more 20 amp circuits small appliance plugs must be provided for all receiver output specified by section 210-5 b) For small load appliances (minimum (2) circuits are required for small appliances) laundry circuit as in NEC 220-11 (c) (2) which requires at least one additional 20 amp circuits The ere branch shall be provided for the supply of the output of the laundry receiver(s) required by section 210-52 (f) (at least one circuit is required) the NEC Output Act notes general lighting load NEC 22 0-12 Requires lighting load for housing unit(s) as follows: Unit load less than 3 VA must form minimum brightness load per square foot of floor area of small NEC 220-52 device(A) That load should be at 1500 VA for each 2 wire circuit branch small appliances required by NEC 220-11 (C) (1) NEC laundry circuit 220-52 (b) once less than 1 500 volt amps should be included for all 2 wire circuit laundry plugs installed as required 210.11 (C)(2) general load collectors for lighting, small appliances and laundry loads this total (1) General lighting (living square area film load 3 watts), (2) each circuit small appliances @ 1500 watts each and laundry circuit @ 1500 watts general demand times total public load = first 3000VA @ 100% Demand + Next 117,000 @ 1000 @ 1000 35% Demand + Reminder @ 25% Demand Step 2: Article 220.50 & 220.51 (see Fig.4) Figs (4) : Step (2) A check box is shown to choose between making calculations for (A/C condenser and constant space heating) or (heat pumps with simultaneous complementary heating) The first item is shown: (A/C condenser and constant space heating) Select the input output of 1-ton cooling condenser A/C from the low drop box #1 and you will get an electric charge in VA for the A/C condenser. 2- Select fixed heating space (AHU) KW from the bottom #2 box and you will get electric charge in VA for both heater strips and blower loads. 3- Select values for A/C condenser and/or AHU constant space heating. 1- Heating load in VA (heating load =(heat demand factor x +100% (blower fan)) 2- Cooling load in VA (fan blower from AHU is included in this value) 3- More than the heat of the load @100% VS cooling load @ 100% second case: Select the inlet output of 1-tonnage heat pump from the bottom drop box #1 and you will get the electric charge in va for the heat pump. 2- Simultaneous selection of KW heating supplement from the drop box down #2 and you will get an electric charge in va for both bar heaters and blower loads. 3- Select the amount of heat pumps at the same time heat. NEC 220. This worksheet is provided to help you comply with ohio residential code requirements when preparing your load calculations. Sheet 1 (heating load greater than A/C load) and 2 worksheets (A/C load larger than heating load) use optional calculation found in NEC 220.82 for new single-family housing. Worksheet 3 uses optional calculation found in NEC 220.83 to calculate the adequacy of the service available when in addition to the room is built or other loads are added to an existing single-family housing. Worksheet 4 uses standard calculation method (NEC 220.1 to 220.61) and can be used for housing two families Worksheet 5 uses optional calculation found in NEC 220.84 and can be used for calculations of housing 3 families (when housing 3 families with NEC qualification 220.84). You are welcome to use this worksheet by measuring your square footage, your extra loads, and your HVAC loads quickly and accurately determining your service needs. The NEC provides many methods of computational loads for residential occupations. In addition to the sections found in NEC Art.220, there is additional information about load calculations in the NEC Annex D example. Feel free to contact us with questions about residential load calculations. We will be happy to help you. Download Residential Load Sheet Calculator Note: You need to enable macros when you open this file in Excel it is properly assigned this section to the tool any electrical engineer can use in daily work. These spreadsheets below make your work much easier, you have to shorten the time used for endless calculations of cables, voltage drops, different choices of circuit breakers, capsules, cable sizes and the like. Power Tools – Excel Excel spreadsheet is further developed by electrical engineers and expiration programmers (thank you Mr. Jignesh Parmar!) and by well-known manufacturers of

electrical equipment. They all really did a great job, you have to admit! Just mention all the free calculation spreadsheets to download! :) DownloadMotor Starting Calculation Spreadsheet (by Hemant Kashikar). cable design program . Calculate Home Electrical Load & Electrical Bill . Calculation of bus load volume and voltage drop. Calculation of electrical charge and panel energy consumption. Calculation of panel power load. calculation of insulation resistance . Calculation of the number of lighting connections and output lumens. Calculation of battery size of bank and inverter. Calculate the size of solar panel, bank battery and inverter. Circuit Breaker Tripping Settings. Conduit size selection program . Design of earth mat for substation. Select MCCB, ELCB for main branch circuit. Select fuse and set instant short circuit tripping CB. Calculation of short circuit current at different points of electrical circuits (Isc). Capsule size to improve strength factors. current calculation of fault . Arc Flash Calculator.E-Feeder and Cable.Calculator SquareD – Selecting capacitor size. Voltage Drop Calculator - Albany Technical College.Cable size calculations are specified based on horse motor power (HP) and current. Small distribution line voltage adjustment percentage.Calculation of air conditioning size for room. Residential load calculations.Pump efficiency calculation tool.Transformers error current calculation.Calculation of powerline voltage drop. Electrical Safety Program Flash Calculator.Transformers And Short Circuit Calculator.Electrical calculations (MS Excel Spreadsheets) DownloadPower Factor Correction Calculation . Calculation of tactile voltage and ground current. IDMT (definitive reversal of minimum time) relay calculation. Calculation of diesel generator size. Calculation of the passing load of the power pole. General formulas of electrical engineering. CO2 Savings Calculator. Available Fault Current Selective Coordination.Power Factor Table Calculator . NEMA Motor Data Calculator. estimated voltage drop calculator . IEC Motor Data Calculator . Calculation of transformer size, fuse and circuit breaker. Calculate the size of DOL and Star-Delta Starter components. Calculation of transformer size and voltage due to the start of large size motor. Widesheet selection power quality solution. Spreadsheet to calculate the size of the motor pump. Spreadsheet to calculate the required number of fixtures and lighting levels. Lightning Risk Protection Assessment Calculator/Spreadsheet.Load list, calculations and generator spreadsheet size.Spreadsheet for calculating transformer losses.Engine voltage drop calculator (spreadsheet). Spreadsheet to calculate the size of neutral earth transformer. Spreadsheet to calculate the short circuit capacity of diesel generator synchronous panel. Calculations of power factor correction for power system. transformer calculations . Calculation of electric magnetic field (EMF) around T&D overhead lines. Earthing system design tool for low voltage installations. .

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