

Application # ERES1810-0038

Harnett County Central Permitting

PO Box 65 Lillington, NC 27546 - Ph: 910-893-7525 - Fx: 910-893-2793 - www.harnett.org/permits
Certification of Work Performed By Owner/Contractor
(Individual Trade Application)

Owner (s) of Structure: Nicolo Richiez / Jorge Phone: 845 405 9068

Owner (s) Mailing Address: 87 Declaration Dr.
Cameron, NC 28326

Land Owner Name (s): Nicole Richiez Phone: 845 405 9068

Construction or Site Address: 87 Declaration Dr. Cameron, NC 28326

PIN # 9595-30-4186.000 Parcel # 09-9505-18 028242

RA-20R
Harnett County

Job Cost: 1150.00 Description of Work to be done: Install 35 amp circuit to Tesla EVSE in existing attached garage.

~~Mechanical:~~ New Unit With Ductwork New Unit Without Ductwork Gas Piping Other

Electrical*: 200 Amp <200 Amp Service Change Service Reconnect Other
* For Progress Energy customers we need the premise number

~~Plumbing:~~ Water/Sewer Tap Number of Baths Water Heater

Specific Directions to Job from Lillington:

210 South, T/R Overhills Rd, traffic circle - 1st exit, traffic circle - 3rd exit, continue on Nursery Rd., T/R NC 24 West, T/R Centennial Pkwy, T/R Regimental Dr., T/L Century Dr., T/L onto Declaration Dr.

Subdivision: Lexington Plantation Lot #: 802

I Wiretech Company will provide the Electrical labor on this structure.
(Contractors Name) (Trade)

I am the building owner or my NC state license number is 10963-U, which entitles me to perform such work on the above structure legally. All work shall comply with the State Building Code and all other applicable State and local laws, ordinances and regulations.

Michael E Jones Inc DBA Wiretech Company
Contractor's Company Name

919 847 1617
Telephone

3101-148 Stonybrook Dr. Raleigh, NC 27604
Address

wiretech@bellsouth.net
Email Address

10963-U
License #

Structure Owner / Contractor Signature: Michael Jones Date: 10/18/2018

By signing this application you affirm that you have obtained permission from the above listed license holder to purchase permits on their behalf. If doing the work as owner you understand that you cannot rent, lease or sell the listed property for 12 months after completion of the listed work.

*Company name, address, & phone must match information on license

Residential Standard Calculation

9/25/1997

RICHIEZ 87 Declaration Dr CAMERON

By John DeLong

Version 2011 L

STEP 1 Article 220.42 & 220.52

sq. ft	3198	General Lighting load	9,594 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
Gen.Lgt, Sm App.& Laun. Load			14,094 VA
			3,000 VA @ 100%= 3,000 VA
			11,094 VA @ 35% = 3,883 VA
			VA @ 25% = VA

WIRETECH COMPANY
 3101 Stony Brook Drive Suite148
 Raleigh, NC 27604
 919-847-1617

10/16/2018 11:36

STEP 2 Article 220.50 & 220.51

A/C Condenser & Fixed Electric Space Heating

		QTY	
VA	AHU 1	Select	VA Qty
VA	AHU 2	Select	VA Qty
VA	AHU 3	Select	VA Qty
VA	AHU 4	Select	VA Qty
VA	AHU 5	Select	VA Qty

General Lighting Demand Load 6,883 VA

Total 0

Heating Load

CU Load

Greater of Heat @ 100% vs.A/C @ 100%

Appliance Demand Load 3,800 VA

Dryer Demand Load 6,240 VA

Range Demand Load VA

Service Demand 16,923 VA

Demand Load 71 A + EVSE 28 Amp

Neutral Demand 63 A

Min.Service Req. 100 A

Min. Feeder size 2

Min. Neutral size 4

Eq. Grding Cond. 6

Aluminium

Total Appliance Load 5,067 VA

4 or more demand @ 75% plus 100% demand loads 3,800 VA

STEP 4 Article 220.54

Electric Clothes Dryers 6,240 VA

STEP 5 Article 220.55

Electric Ranges Col C demand 0

or Number of appliances

Check Box for Gas Range

Cooktop	Col B demand
Cooktop	Col B demand
Oven(s)	Col B demand
Oven(s)	Col B demand

Existing 100Amp Garage Sub-Panel

Number of appliances 0 Dem. Factor 0%

Cooktop & Oven Demand Load W

jmp1ids@comcast.net

Pool Panel Feeder Calculation

(See Note)

	A	B	N
Continuous Motors	0	0	0
Non-continuous	0	0	0
Spa heater 11 kVA	0	0	0
Pool heater 3.5 ton	0	0	0
Pool heater 5 ton	0	0	0
Pool Light	0	0	0
Blower	0	0	0
other load	0	0	0
other load	0	0	0
<input type="checkbox"/> Min.Copper Pool Feeder	AWG	A	A
Minimum Panel Rating	A	Phase Amperes	Neut. load

Continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

Non-continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

0.0 Motor Neutral Load

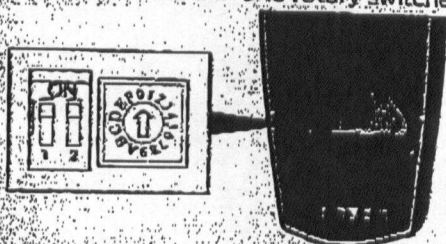
Max Unbalanced Neutral Load



Step-by-Step Installation Instructions

Set the Operating Current

Follow these instructions to configure the DIP switch. The following illustration shows an enlarged view of the DIP and rotary switches.



Warning: Power **MUST** remain OFF before setting or changing the DIP or rotary switches. Changing these switches with the power ON will not be recognized by the system and is dangerous due to the risk of electric shock.

1. Turn OFF power.
2. Use a non-conductive object (such as a plastic pen) to adjust the DIP switch settings appropriately.

For Switch Position 1:

- For a Line to Line connection (240V) set the DIP switch DOWN.
- For a Line to Neutral connection (277V), set the DIP switch UP (the ON position).

Warning: If you are unsure of the type of input electrical connection, consult a local electrician.

For Switch Position 2:

This setting configures the type of digital communication between the Wall Connector and the electric vehicle. Proper Switch Position 2 settings are provided in the following table.

DIP Switch	Position 1	Position 2
Up (ON)	Line to Neutral (277V)	Normal
Down	Line to Line (240V)	Legacy*

*The DIP Switch Position 2 setting is configured at the factory in the UP position. Before changing Position 2 to the DOWN position, contact Tesla.

3. Set the rotary switch for the appropriate current setting supported by your circuit breaker. Typical circuit breaker ratings are 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, and 100A.

The corresponding rotary switch settings for the typical circuit breakers are shown in the following table.

Rotary Switch Position	Maximum Output Current	Circuit Breaker
0	Test mode	N/A
1	12A	15A
2	16A	20A
3	20A	25A
4	24A	30A
5	28A	35A
6	32A	40A
7	36A	45A
8	40A	50A
9	48A	60A
A	56A	70A
B	64A	80A
C	72A	90A
D	80A	100A
E	Not a valid selection	N/A
F	Slave mode	N/A

Use a small flathead screwdriver to set the rotary switch to the appropriate circuit breaker capability setting.

4. Reattach the ribbon cable to the sealing cover.
5. Replace sealing cover. Use a T20 security pin-Torx driver to lightly secure the sealing cover by installing only the top screw.
6. Turn ON power.

The maximum power rating for the Wall Connector is 20 kW or 80A at 250V AC single-phase power.

Voltage and Wiring	208V or 240V AC single-phase: L1, L2, and earth
Current	Maximum output: 80A, 72A, 64A, 56A, 48A, 40A, 36A, 32A, 28A, 24A, 20A, 16A, 12A
Frequency	50 to 60 Hz
Cable Length	8.5' (2.6 m) and 24' (7.4 m)
Wall Connector Dimensions	Height: 15.0" (380 mm) Width: 6.3" (160 mm) Depth: 5.5" (140 mm)
Top Entry Bracket Dimensions	Height: 10.8" (275 mm) Width: 5.1" (130 mm) Depth: 2.0" (50 mm)
Weight (including bracket)	20 lb (9 kg)
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Enclosure Rating	Type 3R
Agency Approvals	cULus listed for United States and Canada under file number E354307, FCC Part 15.
Ventilation	Not Required