Application #_____

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: Joaquin Castro Phone: 6264218152

Owner (s) Mailing Address: 63 Tun Tavern Drive
Cameron, NC 28326

Land Owner Name (s): Joaquin Castro Phone: 6264218152

Construction or Site Address: 63 Tun Tavern Drive, Cameron

PIN # _____ Parcel # _____

Job Cost: 925.00 Description of Work to be done Install 60amp circuit for Tesla EVSE in existing attache 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:
Head S on S Main St toward E Front St, turn R onto NC210 S, turn R onto Overhills Rd, tunr L onto Overhills Rd, keep R toward Overhills Rd, at traffic circle take 1st exit to stay on Overhills Rd. at traffic circle take 3rd exit to stay on Overhills Rd, cont. onto Nursery Rd, turn R onto NC24W, R onto Centennial PKWY, R onto Regimental, L onto Century Dr, R onto Tun Tavern Dr.

Subdivision: The Colony Lot #: 324

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

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.

Wiretech Company
Contractor's Company Name

919-847-1617
Telephone

3101-148 Stonybrook Drive, Raleigh, NC 27604
Address

wiretechco@bellsouth.net
Email Address

10963-U
License #

Structure Owner / Contractor Signature: Michael Stone Date: 9/17/2020

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 Optional Calculation

9/25/1997

CASTRO 63 Tun Tavern Dr CAMERON

Version 2011 L

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

9/17/2020 9:02

STEP 1 Article 220.82 (B) (1),(2)

sq. ft	2445	General Lighting load	7,335 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	11,835 VA

STEP 2 Article 220.82 (C) ☑

A/C Condenser & Fixed Electric Space Heating

					QTY
4 ton	6,440 VA	AHU 1	9.6 kW	10,589 VA	1
	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, Sm. Appl. & Laundry	**11,835 VA**
Total	1
Heating Load	7,229 VA
CU Load	7,429 VA
Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100%	**7,429 VA**
Appliance Demand Load	**10,958 VA**
Dryer Demand Load	**6,240 VA**
Range Demand Load	**14,000 VA**
Service Demand	**30,842 VA**
Demand Load	**128 A**
Neutral Demand	**89 A**
Min.Service Req.	**150 A**
Min. Feeder size	**2/0**
Min. Neutral size	**2**
Eq. Grding Cond.	**4**
☑	**Aluminium**
Total Appliance Load	**10,958 VA**

STEP 3 Article 220.82 (B) (3)

4,500 VA	1	Water Heater		4,500 VA
878 VA	1	Refrigerator		878 VA
	0	Freezer		VA
1,200 VA	1	Dishwasher		1,200 VA
1,140 VA	1	Disposal		1,140 VA
	0		0	VA
1,800 VA	1	Microwave		1,800 VA
☐	0		0	VA
720 VA	2	Door Opener		1,440 VA
☐	0		0	VA
☐	0		0	VA
	0		0	VA
☐ select				VA
☐ select				VA
☐ select				VA
select				VA
select				VA
		Pool Equip. Panel		VA Apply Demand
☐				VA No Demand
☐				VA No Demand

STEP 4 Article 220.82 (B) (3)
Electric Clothes Dryers **6,240 VA**

STEP 5 Article 220.82 (B) (3)
Electric Ranges **14,000 W** Col C demand **8800**
or Number of appliances

	Cooktop	Col B demand
☐ Check Box for Gas Range	Cooktop	Col B demand
	Oven(s)	Col B demand
	Oven(s)	Col B demand
Number of appliances		0 Dem. Factor
	Cooktop & Oven Demand Load	

Existing 200Amp Service

imp1ids@comcast.net

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Pool Panel Feeder Calculation		(See Note)	A	B	N
Continuous Motors	0	......	0	0	0
Non-continuous	0	......	0	0	0
Spa heater 11 kVA		......	0	0	
Pool heater 3.5 ton		......	0	0	
Pool heater 5 ton		......	0	0	
Pool Light	select	0	0	0	0
Blower	select	0 ☐ 240v	0	0	0
other load		0 ☐ 240v	0	0	0
other load		0 ☐ 240v	0	0	0
☐ Min.Copper Pool Feeder		AWG	A	A	A
Minimum Panel Rating		A	Phase Amperes		Neut. load

Continuous Motors		Non-continuous Motors	
select	☐ 240v	select	☐ 240v
select	☐ 240v	select	☐ 240v
select	☐ 240v	select	☐ 240v
select	☐ 240v	select	☐ 240v
select	☐ 240v	select	☐ 240v

0.0 Motor Neutral Load

Max.Unbalanced Neutral Load

PRODUCT OVERVIEW

This manual applies to Wall Connectors identified by part number 1457768-[illegible].

Product Specifications

Voltage and Wiring	Nominal 200-240 V AC single-phase
Current Output Range	12 – 48 amps
Terminal Blocks	12-4 AWG (3.5 - 25 mm^2), copper only
Supported Conduit Sizing	¾" (21 mm) default, 1" (27 mm) optional
Grounding Scheme	TN/TT
Frequency	50/60 Hz
Cable Length	8.5' (2.6 m) or 18' (5.5 m)
Wall Connector Dimensions	Height: 13.6" (345 mm) Width: 6.1" (155 mm) Depth: 4.3" (110 mm)
Wire Box Bracket Dimensions	Height: 9.8" (250 mm) Width: 4.7" (120 mm) Depth: 2.0" (50 mm)
Weight (including wirebox)	10 lb. (4.5 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
Ventilation	Not required
Means of Disconnect	External branch circuit breaker
Ground Fault Circuit Interrupter	Integrated, no additional required (CCID620)
WI-FI	2.4 GHz, 802.11b/g/n
Agency Approvals	cULus - E351001

Transportation and storage: Ensure that Wall Connector is within storage temperature when moving, transporting, or storing.

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTIONS

CAUTION: Do not use private power generators as a power source for charging.

CAUTION: Incorrect installation and testing of the Wall Connector could potentially damage the vehicle's battery, components, and/or the Wall Connector itself. Any resulting damage is excluded from the New Vehicle Limited Warranty and the Charging Equipment Limited Warranty.

CAUTION: Do not operate the Wall Connector in temperatures outside its operating range of -22° F to 122° F (-30° C to 50° C).

NOTE: Wall Connector should only be installed by personnel who are trained and qualified to work on electrical systems.

WALL CONNECTOR LEDS

Light Codes

Startup

Once energized at the circuit breaker, every LED (seven total) on the faceplate will illuminate for one second.

After Startup

After Wall Connector is energized at the circuit breaker, certain green LEDs (depending on the circuit breaker size) will illuminate for 10 seconds. See table below for exact light codes.

						
Circuit breaker	60 A	50 A	40 A	30 A	20 A	15 A
Maximum output	48 A	40 A	32 A	24 A	16 A	12 A

NOTE: To re-display the green LEDs after the initial 10 seconds, press and hold the charging handle button.

When multiple Wall Connectors are linked for power sharing, the **center blue LED** will illuminate during the 10-second startup window.

Other

Top green solid	Every green streaming	Green pulsing	Blue solid