



Miami-Dade County
Department of Regulatory and Economic Resources
Permitting and Inspection Center
11805 SW 26 Street
Miami, FL 33175-2474
Tel: 786-315-2000

www.miamidade.gov/development

Commercial Plan Review Guidelines *(Electrical Review)*

Project Address:

Instructions for using this form:

1. This form provides a list of code requirements that must be verified by the Building Official before the issuance of a building permit.
2. Code references are to the 2010 Florida Building Code (unless otherwise noted). Suffixes identify the code volume as follows:
 - Accessibility (Ac) - Building (B) – Energy Conservation (En) Existing (Ex) – Fuel/Gas (Gs) - Mechanical (Me) – NFPA-70 (05)/National Electric Code (NEC) - Plumbing (Pl) - Residential (Re)
3. Provide the drawing number (Dwg. No.) where compliance with the referenced code section may be verified or check the N.A. box whenever the code provision is not applicable.

General Requirement	Specific Code Requirement	Code Section(s)	Dwg. No.	N.A.	Other Information
Electrical equipment, appliances, materials and installations	Construction documents submitted	107 (B)			
Wiring methods and materials	Equipment approval, listing and installation instructions	110.2-3 (NEC), 2701.1 (B)			
Service	Required	300 (NEC)			
	Shown	107(B)			
	Number of services	230.2 (NEC)			
	Conductor size/rating				
	<ul style="list-style-type: none"> Overhead Underground 	230.23 (NEC) 230.31 (NEC)			
	Insulation of service conductors	230.22, 230.30, 230.41 (NEC)			
	Available fault current	110.9, 110.10 (NEC)			
	Working space	110.26, 110.32, 110.34 (NEC)			
	Disconnecting means	230.70(A)(B)(C) (NEC)			
	Number of disconnects	230.71 (NEC)			
	Grouping of disconnects	230.72 (NEC)			
	Ground fault protection	230.95 (NEC)			
	Protection of conductors rated				
	<ul style="list-style-type: none"> 800 amperes or less Over 800 amperes 	240.4(B) (NEC) 240.4 (C) (NEC)			
Over current protection	Where required	230.90 (NEC)			
Grounding	Location	230.91 (NEC)			
	Grounded conductor to service equipment	250.24(B) (NEC)			
	Electrode system	250 III (NEC)			
	Conductors	250.66 (NEC)			
Separately derived AC systems	Grounding	250.20 (D), 250.30 (NEC)			
	Transformer overcurrent protection 600 volt nominal or less	450.3 (NEC)			
	Primary/secondary	450.3(A)(B)(C) (NEC)			
	Ventilation	450.9, 450.45 (NEC)			
Means of Egress	Exit signs and lights	1006.1, 1006.3 (B)			
	Lighting	1006.1, 1006.2, 1006.3			

Emergency systems		(B)		
Where required		2702 (B)		
Power source		700 III (NEC)		
Independent wiring		700.9 (B) (NEC)		
Storage battery		700.12(A), 480 (NEC)		
Generator set		700.12(B) (NEC), 2702.1 (B)		
Separate service		700.12(D) (NEC)		
Unit equipment		700.12(E) (NEC)		
Signs		700.8, 701.9 (NEC)		
Loads on emergency branch circuits		700.15 (NEC)		
Where required		701 (NEC), 2702 (B)		
Capacity and rating		701-6 (NEC)		
Power source		701 III (NEC)		
Storage battery		480, 701.11 (NEC)		
Generator set		701.11(B) (NEC), 2702 (B)		
Separate service		701.11(D) (NEC)		
Connect ahead of service disconnect		701.11(E) (NEC)		
Unit equipment		701.11(F) (NEC)		
Wiring in ducts, plenums and other air handling spaces		300.22 (NEC) 602.2.1 (Me)		
Roof top receptacle		210.63, 210.8 (NEC)		
Fixture supports		410 IV (NEC)		
Identification		110.22 (NEC), 106.1 (B)		
Conduit seals		300.7 (NEC)		
Penetrations		300.21 (NEC), 106.1, 712 (B)		
Appliance access		110.26, 422 (NEC)		
Boiler control requirements		1005, 1006 (Me), 422, 424 III (NEC)		
Motors		430 IX (NEC)		
Appliances		422 III (NEC)		
Elevators		620 VI (NEC)		
Electric metallic tubing		358C (NEC)		
Conductors		310.8, Table 310.13 (NEC)		
Lighting fixtures		410.4(A) (NEC)		
Fire Protection Systems				

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• Smoke detection	Smoke alarms	101.4.6, 907, 909 (BI), 760 (NEC)			
	Smoke control system	909, 2702,			
• Fire alarm and detection system	Single/multiple station smoke alarm	907.2.11 (BI)			
	Assembly	907.2.1 (BI)			
	Business	907.2.2 (BI)			
	Educational	907.2.3 (BI)			
	Factory	907.2.4 (BI)			
	High-hazard	907.2.5 (BI)			
	Institutional	907.2.6 (BI)			
	Mercantile	907.2.7 (BI)			
	Residential	907.2.8, 907.2.9 (BI)			
	High-rise buildings	907.2.13 (BI)			
	Atriums	907.2.14 (BI)			
	Other buildings/areas	907.2.15-907.2.23 (BI)			