



CITY OF NORTH MIAMI BEACH BUILDING DEPARTMENT

Residential* Plan Review Guidelines

(Structural Review)

Project Address: _____

Instructions for using this form:

1. This form provides a list of code requirements that must be verified by the Building Department before the issuance of a building permit.
2. Code references are to the 2007 Florida Building Code (unless otherwise noted). Suffixes identify the code volume as follows:
Building (BI) - Existing (Ex) - Fuel/Gas (Gs) - Mechanical (Me) - National Electrical Code (NEC) - Plumbing (PI) 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.

Single family homes, duplexes and townhouses, as defined in 101.2 (Re).

| General Requirement | Specific Code Requirement | Code Section(s) | Dwg. No. | N.A. | Other Information | |
|---|---|--|-----------------------|------|---|--|
| Design Criteria | Floor live load | 4403.4.1 (Re) | | | | |
| | Roof live load | 4403.5.1 (Re) | | | | |
| | Roof drainage | 4403.6 (Re) | | | | |
| | Concentrated loads | 4403.4.2, 4403.4.3 (Re) | | | | |
| | Live load reduction | 4403.8 (Re) | | | | |
| | Basic wind speed | 4403.9.2 (Re) | | | | |
| | Basic wind speed for fences | 4403.2.1 (Re) | | | | |
| | Wind exposure category | 4403.9.3 (Re) | | | | |
| | Railing loads | 4403.7.3.6 (Re) | | | | |
| | Ornamental projections | 4403.7.6 (Re) | | | | |
| | Partition loads | 4403.7.7 (Re) | | | | |
| | Screen enclosures | 4403.12 (Re) | | | | |
| | Overturning and uplift | 4403.10 (Re) | | | | |
| | Foundations | | | | | |
| <ul style="list-style-type: none"> • Bearing capacity of soils | Identify soil bearing capacity | 4404.2.1 (Re) | | | | |
| | <ul style="list-style-type: none"> • 2000 psf or less, provide statement by R.A. or P.E. • More than 2000 psf provide soil report | 4404.2.2 (Re) | | | 2000 p.s.f. or less? Y _____ N _____ If yes, refer to special inspector form for required statement. If no, provide soil report | |
| | Designs employing lateral bearing | 4404.3.7 (Re) | | | | |
| | Soil improvement | 4404.18 (Re) | | | | |
| | <ul style="list-style-type: none"> • Footing options | Continuous wall footings | 4404.3.2 (Re) | | | |
| | | Isolated footing | 4404.3.5 (Re) | | | |
| | | Concrete slab on fill | 4404.4 (Re) | | | |
| | | <ul style="list-style-type: none"> • Special Inspector required | 4404.4.3.1 (Re) | | | Identify Special Inspector, enclose Form |
| | | Monolithic footing | 4404.5 (Re) | | | |
| | | Pile foundation | 4404.6 - 4404.13 (Re) | | | |
| | | <ul style="list-style-type: none"> • Special Inspector required | 4404.6.1.2 (Re) | | | Identify Special Inspector, enclose Form |

Structural Review

| | | | | | |
|----------|--|------------------------------------|--|--|--|
| | Foundation walls and grade beams | 4404.14 (Re) | | | |
| | Retaining walls, seawalls, and bulkheads | 4404.16- R4404.17 (Re) | | | |
| Concrete | Reinforced concrete | 4405.1 | | | |
| | Details of reinforcement | 4405.8 | | | |
| | Design method | ACI 318, 4405.1.5 (Re) | | | |
| | Precast concrete | 4405.9 (Re) | | | |
| | • Special Inspector required | 4405.9.12.2 (Re) | | | Identify Special Inspector, enclose Form |
| | Pre-stressed concrete | 4405.10 (Re) | | | |
| | Shotcrete | 4405.11 (Re) | | | |
| | Lightweight insulating concrete | 4405.12 (Re) | | | |
| | • Product approval required | 4405.12.2.1 (Re) | | | |
| Aluminum | Design method | 4406.1, 4406.1.6, 4406.1.7 (Re) | | | |
| | Structural aluminum decking and siding | 4406.1.8.2 (Re) | | | |
| | Compatible and non compatible materials | 4406.1.8.4 (Re) | | | |
| Masonry | Design method | 4407.1, 4407.3 (Re) | | | |
| | Unreinforced masonry units, construction details | 4407.4 (Re) | | | |
| | Reinforced masonry units | 4407.5 (Re) | | | |
| | • Special Inspector required | 4407.5.4 (Re) | | | Identify Special Inspector, enclose Form |
| Steel | Structural steel design | 4408.1-4408.8 (Re) | | | |
| | • Special Inspector required | 4408.5.2 (Re) | | | Identify Special Inspector, enclose Form |
| | Cold-formed steel design/construction/ standards | 4408.9 (Re) | | | |
| | Open web steel joists design/construction/standards | 4408.8 (Re) | | | |
| Wood | Design method | 4409.1.1 (Re) | | | |
| | Indicate grade/strength | 4409.4.1.1 (Re) | | | |
| | Vertical framing | 4409.5 (Re) | | | |
| | Horizontal framing | 4409.6 (Re) | | | |
| | Prefabricated wood trusses | 4409.6.17.2 (Re) | | | |
| | • Special Inspector required for erection of trusses having overall bottom chord length over 35 ft or overall height over 6 ft | 4409.6.17.2.4.2 (Re) | | | Identify Special Inspector, enclose Form |

Structural Review

| | | | | | |
|-------------------|--|-----------------|--|--|--|
| | Anchorage | 4409.8 (Re) | | | |
| | Sheathing | 4409.9 (Re) | | | |
| | Connectors | 4409.11 (Re) | | | |
| | Wood supporting masonry | 4409.12 (Re) | | | |
| | Decay and termite protection | 4409.12 (Re) | | | |
| | Fire retardant treated wood | 4409.14 (Re) | | | |
| | Wood fences | 4409.15 (Re) | | | |
| | Wood shakes and shingles | 4409.16 (Re) | | | |
| | Wood blocking | 4409.17 (Re) | | | |
| Glass and Glazing | Exterior wall cladding design criteria | 4410.1 (Re) | | | |
| | Windows, doors, glass and glazing | 4410.2 (Re) | | | |
| | Curtain walls | 4410.5 (Re) | | | |
| | Structural glazing system | 4410.6 (Re) | | | |
| | <ul style="list-style-type: none"> • Special Inspector required | 4410.6.6.2 (Re) | | | Identify Special Inspector, enclose Form |
| | | | | | |



**NOTICE TO THE CITY OF NORTH MIAMI BEACH
BUILDING DEPARTMENT OF EMPLOYMENT
AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE**

I, (we) have been retained by: _____ to perform special inspector services under The Florida Building Code at the _____ project on the below listed structures as of (date). I am a professional engineer licensed in the State of Florida.

Process Number _____ Master Permit (IF APPLICABLE): _____

- Special Inspector for Piling, FBC 1822.1.20
- Special Inspector Soil Compaction, FBC 1820.3.1
- Special Inspector for Precast Units (prior to placement of concrete) FBC 1927.12.1 (By P.E. or R.A.)
- Special Inspector for Reinforced Masonry, FBC 2122.4
- Special Inspector for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A.)
- Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- Special Inspector for _____

NOTE: Only the marked boxes apply.

** The following individual(s) employed by this firm are authorized representatives to perform inspections.

- 1. _____ 2. _____
- 3. _____ 4. _____

- ** * a) Authorized Representatives of an Engineer or an engineering performancey threshold inspections shall conform to Rule 61g15-30.004 of the F.A.C.
- b) Special inspections performing building department required inspections shall conform to 2007 Florida Building Code Section 109.3.6.6.
- c) Approval of the individuals performing the actual inspections in accordance with Section 109.3.6.6 of the FBC (2007).
- d) A list of all individuals performing actual inspections with their qualifications shall be furnished to the Building Department for approval.

***NOTE: FBC 2007 HVZ sections 1927.12.2, 2319.17.2.4.2 requires either a Registered Professional Engineer or Registered Architect to perform the actual inspections.**

I, (we) will notify the city of North Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of North Miami Beach Building Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of final inspection the completed inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans. I hereby certify that the shoring being installed on an emergency basis are in compliance with the provisions of the Florida Building Code and in conformance with engineering standards.

Architect/Engineer Signature: _____

Architect/Engineer Name Printed: _____

Address: _____

Owner/Agent Signature: _____

Owner/Agent Signature Printed: _____

Building Department

Accepted By: _____

Signed and Sealed

Date: _____