**FINFROCK** 

# DS 2018-043

FILED

Department of Business and Professional Regulation

Deputy Agency Clerk

CLERK Brandon Nichols
Date 5/31/2018

File #

# PETITION FOR DECLARATORY STATEMENT

### BEFORE THE FLORIDA BUILDING COMMISSION

Company:

Finfrock DMC

Address:

2400 Apopka Boulevard

Apopka, Florida 32703

Name:

Allen R. Finfrock, PE

Title:

CEO

Telephone:

407-367-2401

Facsimile:

407-297-0512

E-Mail:

afinfrock@finfrock.com

Petitioner's Attorney or representative:

Steven Lockhart

**General Counsel** 

Finfrock DMC

Telephone:

407-367-2430

Facsimile:

E-Mail:

slockhart@finfrock.com

Statute(s), Agency Rule(s), Agency Order(s) and/or Code Section(s) on which the Declaratory Statement is sought:

2017 Florida Building Code

Chapter 7, Section 707

## Background:

Finfrock is a design/build/manufacturer who has patented a precast concrete floor and ceiling assembly called the "DualDeck" that consists of two layers of concrete separated by a steel truss system. This system has a UL listing for a two hour fire rating. The bottom (ceiling) slab is the fire barrier and the top (floor) slab creates the interstitial space. Finfrock is seeking clarification on the 2017 Florida Building Code, Section 707, Fire Barriers, Section 707.5, Continuity, to insure that the interpretation between various jurisdictions is consistent with the intent of the code and is also consistent with the corresponding section in the Florida Fire Prevention Code, Section 8.3 (code excerpt below). In the past, we have had different jurisdictions have varying interpretations as to the intent of the code as it applies to a floor and ceiling assembly.

#### **CODE EXCERPTS:**

FLORIDA BUILDING CODE (FBC) – SIXTH EDITION Chapter 7 – Fire and Smoke Protection Features

Section 707 – Fire Barriers

**707.5 – Continuity** Fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barrier shall be continuous through concealed space, such as the space above a suspended ceiling.

FLORIDA FIRE PREVENTION CODE (FFBC / NFPA 101) – SIXTH EDITION Chapter 8 – Features of Fire Protection

# Section 8.3 - Fire Barriers

**8.3.1.2(2)** - The fire barriers are continuous from outside wall to outside wall or from one fire barrier to another, and from the floor to the bottom of the interstitial space, provided that the construction assembly forming the bottom of the interstitial space has a fire resistance rating not less than that of the fire barrier.

## Situation:

Finfrock is designing a nine story multifamily building for the Orlando area. This project will be constructed using precast concrete products which will include exterior walls, shear walls, supporting walls for double tees (garage area) and DualDecks (floor and ceiling assembly). The building will have an interior stairwell with a corridor leading to the exterior. The code requires that this corridor be considered as an extension of the 2 – hour rated stairway exit. As such, it is considered an "exit passageway" which is required to be constructed with a "fire barrier" in lieu of a "fire partition". Fire barrier walls have the "continuity" requirement per FBC Section 707.5. The corridor will have a precast concrete DualDeck as its' ceiling. Drawings are attached for clarification.

## Question:

If the fire barrier of a floor and ceiling assembly is the ceiling, would the continuity of a fire barrier be maintained if the barrier stops at the ceiling and the joint is sealed in accordance with Section 707.8?

# Summary:

Petitioner respectfully believes the answer to the question outlined above is "YES". Based upon the alignment of the Florida Building Code with the Florida Fire Prevention Code Section 8.3.1.2 item 2 which states "The fire barriers are continuous from outside wall to outside wall or from one fire barrier to another, and from the floor of the bottom of the interstitial space, provided that the construction assembly forming the bottom of the interstitial space has a fire resistance rating not less than that of the fire barrier.". This being so, then in order for the code to be uniformly interpreted, the petitioner believes that an exception should be added to Section 707.5 as follows: "Where floor and ceiling assemblies have a listed fire rating, and the bottom of the assembly provides the required fire separation, the fire barrier may terminate at the assembly in accordance with Section 707.8.".

Respectfully submitted,

Finfrock DMC

By:

Allen R. Finfrøck, P.E. Chief Executive Officer



