BRICKELL CITY CENTRE

Bulletin 18

Floor Penetrations & Hanger Loads

NOTE: No Tenant, Tenant Contractor or Subcontractor is to attempt any drilling or core boring of the concrete slab without prior Landlord review and written approval.

The following describes the approved guidelines for Tenant floor coring / concrete slab penetrations, floor trenching and hanger loads as determined by the Brickell City Centre structural engineer of record (SEOR). As referenced below, mild steel reinforced slabs exist within Tenant areas on Level 1, and on Levels 2 and 3 within the footprint of the Hotel. All other floor and roof slabs are concrete on 2" steel decking. Tenant's contractor(s) to contact Brickell City Centre management prior to coring / penetrating the concrete slab to confirm approved locations and methods.

1. Floor Coring / Penetrations

A. Slabs on Metal Deck

1. Penetrations must avoid steel framing. Stay a minimum of 2" away from beam flanges to maintain fire protection.
2. Holes up to 6" in diameter can be cored without reinforcing. Maintain a minimum of 3x the diameter spacing between adjacent cores.
3. Holes larger than 6" require engineering review.

B. Structural Concrete Slabs (mild reinforced)

1. All penetrations require structural engineers review unless all the following criteria are met:
   i. Diameter is less than or equal to 8".
   ii. Located more than 6' from the center of columns and grid lines.
   iii. A minimum of 3x the diameter of the holes is maintained between adjacent cores.

C. Floor boxes should be done as a fire-rated poke thru. As stated above, as long as the fire rated poke thru floor box fits in a 6" core drill hole, no SEOR review is required.

2. Floor Trenching

Floor trenching is generally not permitted at Brickell City Centre. Any request for floor trenching requires design by Tenant's structural engineer and must be reviewed by the SEOR (cost for review by SEOR is at Tenant's expense).

3. Hanger Loads

Regarding the hanger loads, the SEOR provides the following guidance:

- Mechanical fasteners should be embedded into the concrete and have a current ICC-ES report indicating that the anchor is permitted for resisting loads in cracked concrete. The load should not exceed the design superimposed load shown on the Structural Load Maps.

End Bulletin 18