

**Report By:**

National TAB  
1329 E. KEMPER ROAD  
SUITE 4210  
CINCINNATI, OH 45246

**NATIONAL**

**TAB**

Comfort. Under control.

**Report: Commissioning**

**Date: 3/16/2022**

# PROJECT

## Shake Shack (Chesterfield) - Commissioning

17312 Chesterfield Airport Road

Chesterfield, MO 63005

### **Client**

24 Union Square East, 5th Fl

New York, NY 10003



# National TAB

Project: Shake Shack (Chesterfield) - Commissioning

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Comfort. Under control.

***Shake Shack – Chesterfield, MO (FIV) In-Wall Inspection Summary (March 16<sup>th</sup>, 2022)***

Report includes: In wall field inspection report for domestic plumbing, drain and vent lines, electrical junctions.

Inspection comments: Electrical panel breakers are recessed into wall, but were not completed at time of inspection, the panels will be inspected during the above ceiling inspection.

Issues: A roof inspection was completed as a partial review since only the HVAC and ventilation systems had been set. No other rough-in had been started at the time of this inspection. The preliminary roof inspection yielded two observations:

**1:** DOAS outdoor coil had incurred damage and was installed without a hail guard.

Crystal Heating and Cooling responded indicating the equipment is owner provided with no hail guard listed as a required accessory.

Status: Issue will remain open for owner review

**2:** The grease exhaust fans discharge height was measured at 36" above the finished roof. Code requires a minimum 40" minimum discharge height of grease exhaust fans.

Crystal Heating and Cooling responded with photo indicating the roof curbs had been extended to provide the minimum required discharge height.

Status: Issue has been satisfied and will be closed.

**3:** Electrical junction box panel breaker labels could not be identified per plan for a few junctions:

Electrical/GC response: All junctions are correctly installed, a few had been moved or relabeled but serve equipment as required

Status: Issue had been satisfied and previously closed prior to this report

Comments: Plumbing and electrical contractors satisfied all conditions of installation for accuracy to plan, professional installation, and adherence to specifications. There were no issues found within the wall inspections.





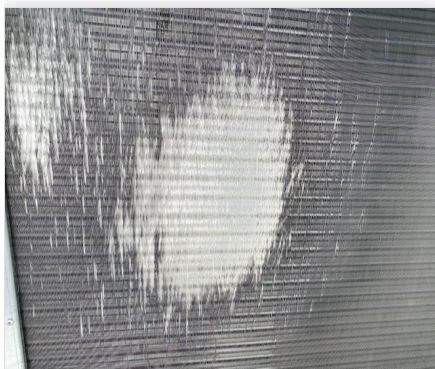


## Shake Shack (Chesterfield) - Commissioning

### Project Issue Information

**Issue Name :** MC: Kitchen DOAS - Condenser Coil Damage, missing hail guard  
**Description :** Unit's condenser coil has damage to fins on face lower left end of coil. Unit was not provided with hail guard  
**Created By :** National TAB **Assigned To :** Crystal Heating & Cooling - Billy Gray  
**Status :** Open  
**Originated Date :** 03/06/2022 - Dan Hertenstein - National TAB

#### Project Issue File Details



damaged\_DOAS\_outdoor\_coil.jpg

#### Project Issue Response Details

- **03/10/2022** **Crystal Heating & Cooling - Billy Gray**
  - Kitchen DOAS is owner supplied and had coil damage on delivery. No hail guards were shipped with unit, also nothing in the notes calling for hail guard.



## Shake Shack (Chesterfield) - Commissioning

### CheckList Information

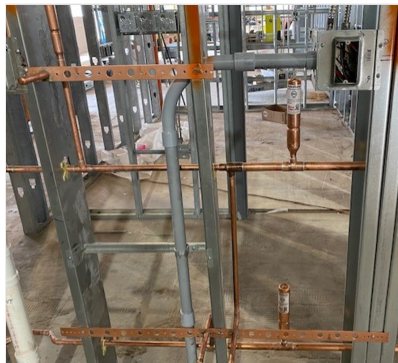
<b>Name :</b>	(FIV) - Domestic Plumbing In Wall	<b>Status :</b>	NotSubmitted
<b>Assigned Organization :</b>	National TAB	<b>Asset :</b>	
<b>Requesting Organization :</b>	National TAB		

### CheckList Item Details

HW, CW, HWR lines are routed to designated areas	Yes
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Line sizes are as shown on plans	Yes
----------------------------------	-----

CW, FW, HW, HWR lines are type "L" hard temper copper tube with wrought copper fittings and soldered connections.	Yes
---	-----



**Hard\_temper\_copper\_tubes\_soldered.PNG**

From circulated hot water branch or main to termination of hot water fixture supply: For 1/2" HW supply pipe to individual lavatories, provide a maximum length of 2ft (Restroom Hand sinks)	Yes
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Provide free standing internal wall supports for all plumbing wall hung fixtures to prevent pull-out from the wall	Yes
--	-----

Escutcheon bracing is installed to support all piping at through wall locations	Yes
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**Escutcheon\_bracing\_at\_termination\_point.jpg**

Vertical bracing is adequately provided to support piping within the wall chase Yes

Horizontal bracing is provided through studs by utilizing stud fastening supports Yes



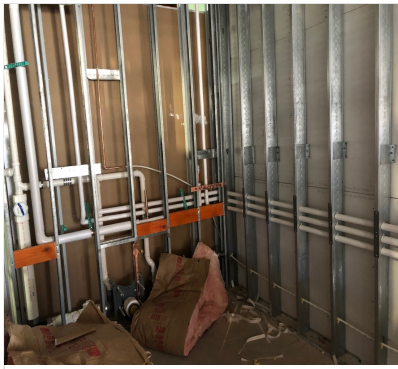
**HORIZONTAL\_PIPE\_BRACING\_TO\_STUD\_WALLS.PNG**

When horizontal in wall locations do not have the benefit of stud wall support proper devices are used to keep piping rigid Yes

Water Hammers are installed before each hand shut-off valve Yes

All lines in exterior walls are to be insulated with minimum 2" BATT insulation to prevent freezing Yes





**in\_wall\_insulation\_2.jpg**

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All copper lines within internal walls have been insulated per specification

Yes



**in\_wall\_insulation\_1.jpg**

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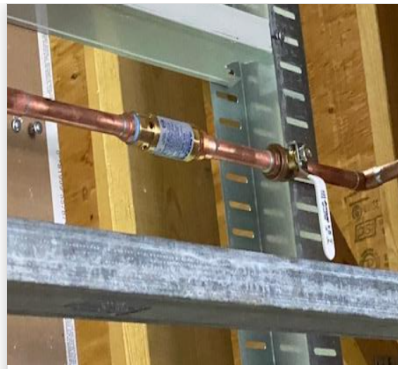
Gravity Trap Primer valve, shut-off valve, and water line has been installed and routed to each restroom floor drain. Access points will be available to ensure valves are accessible for future maintenance

Yes





**GRAVITY\_LINE\_TO\_BELOW\_S  
LAB\_TRAP.PNG**



**gravity\_primer\_valve\_installe  
d.PNG**

Prior to closing the walls, hydrostatic pressure test all domestic water lines to ensure no leakage, test shall be performed for 24 hours. The resultant pressure differential for this test period shall not exceed 10psig. Test Water piping to a 125 PSI hydrostatic pressure

All lines were tested for greater than 48 hours at a maximum gauge pressure of 100 PSI with no differential loss of pressure.



## Shake Shack (Chesterfield) - Commissioning

### CheckList Information

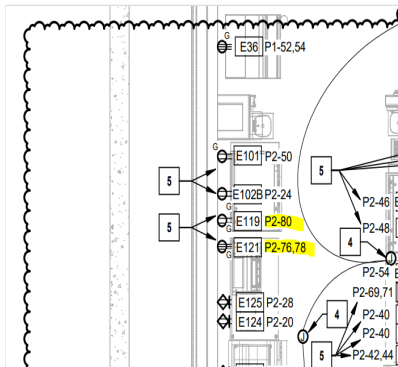
<b>Name :</b>	(FIV) - Electrical In-Wall Inspection	<b>Status :</b>	NotSubmitted
<b>Assigned Organization :</b>	National TAB	<b>Asset :</b>	
<b>Requesting Organization :</b>	National TAB		

### CheckList Item Details

#### IN-WALL OUTLETS

All outlets and conduits have been installed in a professional manner, properly secured and supported within the wall	Yes
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In-Wall Junction boxes are installed per electrical and food equipment plan to serve appliances, office equipment, Indoor signs and other necessary functions (no missing outlets)	All in-Wall outlets (excluding dining) validated and approved. See attached photo for circuit label correction for planned labeled circuits P2-80 (Item E119) and P2-76,78 (Item E121). GC spoke with electrician and indicated labeling of CB's will change but power and phase loading will remain as designed
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planned\_circuit\_layout\_addendum\_E.PNG



p2\_circuit\_boxes\_top\_view.jpg



p2\_circuit\_boxes.jpg

conduit is supported & installed neatly and securely within the wall cavity	Yes
---	-----

All J-boxes are firmly secured in wall to prevent outlet form being pushed or pulled out of place	Yes
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All J-boxes are at correct horizontal locations and vertical elevations

Yes

All J-boxes are correct size (duplex or Quad) as per plan

Yes

J-boxes are marked with proper circuit label

Most boxes labeled, a few not marked but identified by location



## Shake Shack (Chesterfield) - Commissioning

### CheckList Information

<b>Name :</b>	(FIV) - In Wall Drain and Vent Lines	<b>Status :</b>	NotSubmitted
<b>Assigned Organization :</b>	MULTIPLE	<b>Asset :</b>	
<b>Requesting Organization :</b>	National TAB		

### CheckList Item Details

#### ROOF DRAINS

Each horizontal drain line is installed at least 6" below the ceiling	Yes
Each drain drain is routed and sized per plan	Yes
Each drain is installed as per the required details	Yes
Each roof section has a negative pitch along all horizontal runs from it's assigned roof drain	Yes

#### SANITARY VENT LINES

Interior waste dish machine and toilet lines above slab shall be hubless cast iron soil pipe and fittings	Yes
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**in\_wall\_cast\_vent\_line.jpg**



**Toilet\_waste\_cast\_line.jpg**

Interior plug clean-outs are installed in vents	Yes
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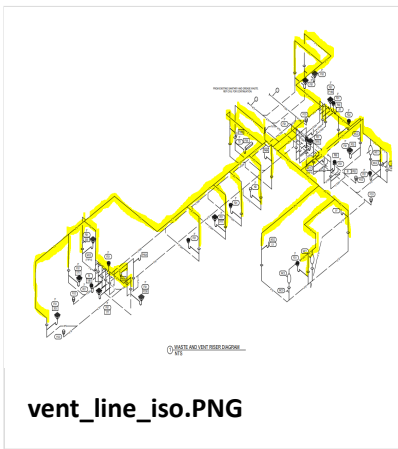




**vent\_line\_plug\_clean\_outs.jpg**

Vent lines are routed, sized per plan

Yes



**vent\_line\_iso.PNG**

Horizontal runs have a positive pitch toward the roof vent stack

Yes

