## WIREMOLD

### **la legrand**®

# 4" Furniture Feed Poke-Thru Device INSTALLATION INSTRUCTIONS

Installation Instruction No.: 1 004 301 - January 2005

Walker® electrical systems conform to and should be properly grounded in compliance with requirements of the current National Electrical Code or codes administered by local authorities.

All electrical products may present a possible shock or fire hazard if improperly installed or used. Walker electrical products may bear the mark as UL Listed and/or Classified and should be installed in conformance with current local and/or the National Electrical Code.

## IMPORTANT: Please read all instructions before beginning.

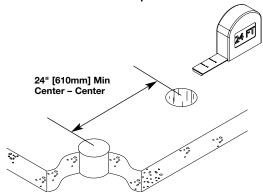
Products Covered: AV3STC. 4FFATC. 4FFCTC

CAUTION DO NOT operate tile stripper or resurfacing equipment over top of covers. This may result in damage to the surface finish of the product.

Suitable for use in air handling spaces in accordance with Sec. 300-22 (C) of the National Electrical Code.

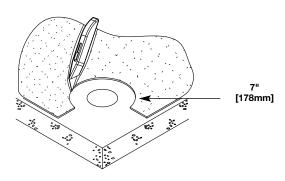
Step 1 Layout and locate position of hole(s).

CAUTION: Spacing is limited to 2 feet on center and no more than one hole per each 65 sq. ft. [6 sq. m] of floor area in each span.



CAUTION: Be certain to drill hole at least 4" [102mm] from any wall or pillar to leave enough room for Poke-Thru cover assembly.

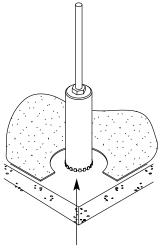
**Step 2** Remove 7" dia. [178mm] section from carpet or tile. Use template provided.



CAUTION: For tile installations up to a maximum of 3/4" [19.1mm] thick.

NOTE: For tile thickness greater than 3/4" [19.1mm] consult factory.

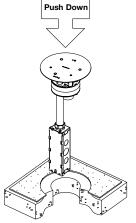
Step 3 Core drill hole.



4" [102mm] Diameter Core Drill 4 1/16" [103mm] Actual Diameter

Step 4 Stem Assembly:

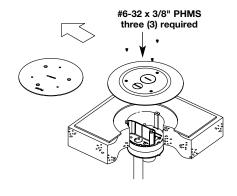
Catalog No. AV3STC Insert stem into hole.



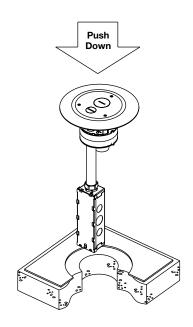
CAUTION: Poke-Thru cannot be rotated in hole after inserted into floor.

#### Step 5 Cover Assembly:

Catalog No. 4FFCTC. Remove disposable plate and replace with carpet/tile flange. Install with three (3) #6-32 x 3/8" [9.5mm] PHMS.

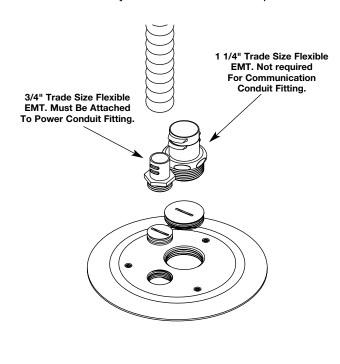


Step 6 Complete assembly: Catalog No. 4FFTATC

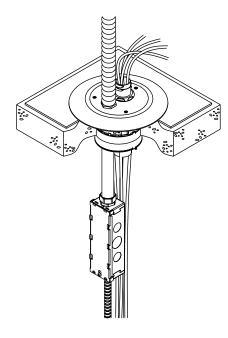


CAUTION: Poke-Thru cannot be rotated in hole after inserted into floor.

**Step 7** With the assembly installed, remove the screw plugs and install conduit fittings as necessary. Attach conduit to adapter.



Step 8 Pull cables and complete installation.



### The 4FFTC Series Poke-Thru Devices are UL Listed and Classified to U.S. and Canadian safety standards to the following conditions:

The AV3STC poke-thru stem with the 4FFCTC service head fitting, the 4FFATC factory assembled poke-thru device are for use with 1, 1-1/2, and 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr rated floors employing unprotected steel floor units and concrete topping (D900-Series Designs), or concrete floors with suspended ceilings. (Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-thru fittings).

The assembled poke-thru stem and service fitting will not reduce the ratings of the floor assembly when the thickness and type of concrete(required for the specific rating) are within the specified limits and the fittings are installed as specified:

- 1. Spacing Minimum of 2' [610mm] OC and not more than one unit per 65 sq ft [6 sq. m] of floor area in each span.
- 2. Concrete Minimum thickness of structural concrete topping of 2 1/4 in. [57mm] over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
- **3.** Installation Mounted in a 4 in. diameter core-drilled hole in concrete per installation instructions accompanying the fittings or abandonment fittings. For use with power circuits, date and/or telephone cables as tabulated below:

POKE-THRU FITTING TYPE	SERVICE FITTING TYPE	POWER CONDUCTORS (A)	COMMUNICATION CONDUCTORS (B)
4FFATC Series	-	16 (.08192 sq in.) [52.861mm²]	144 (.072 sq. in.) [46.452mm²]
AV3STC Series	4FFCTC Series	16 (.08192 sq in.) [52.861mm²]	144 (.072 sq. in.) [46.452mm²]

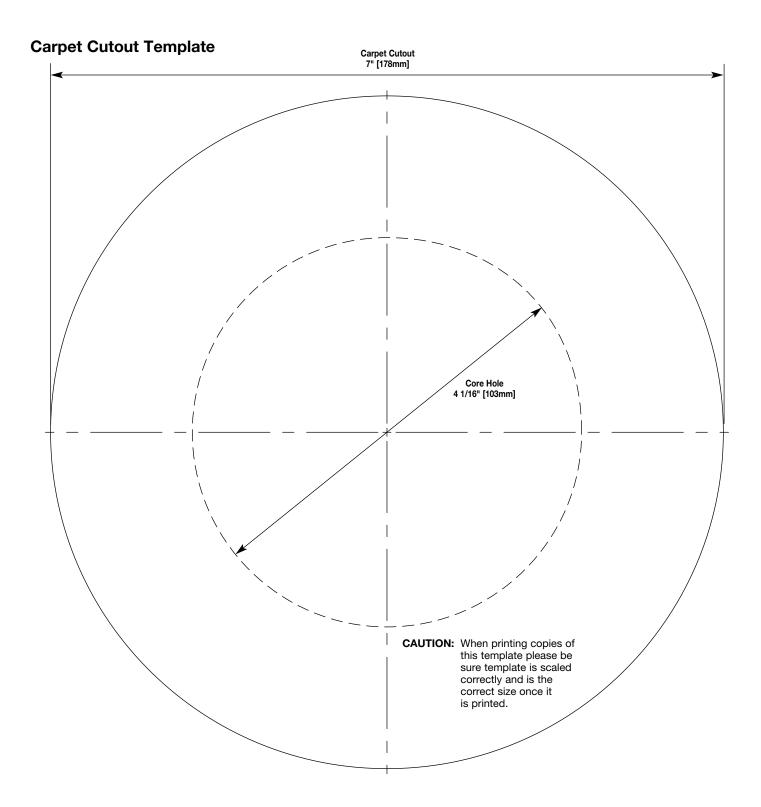
The "TC" suffix letters indicate that device may be installed on tile or carpet covered concrete floors. The "LJB" suffix letters indicate units supplied without a junction box.

- (A) Maximum number of No. 12 AWG Type THHN conductors in power compartment of Poke-Thru fitting.
- (B) Maximum number of 22 AWG conductors in low-voltage compartment of Poke-Thru fitting (4 pair cables have 8 conductors). When conductors larger than No. 22 AWG are used, the aggregate cross-sectional area of the copper conductors shall not exceed the aggregate cross-sectional area of the 22 AWG conductors permitted in the low-voltage compartment.

COPPER CROSS SECTIONAL AREA OF COMMONLY USED CONDUCTORS			
Size	Solid		
#24	.00032 sq. in. [.20645mm²]		
#22	.00050 sq. in. [.32258mm <sup>2</sup> ]		
#14	.00323 sq. in. [2.08386mm²]		
#12	.00512 sq. in. [3.30321mm <sup>2</sup> ]		
#10	.00815 sq. in. [5.25805mm <sup>2</sup> ]		
# 8	.01296 sq. in. [8.36127mm <sup>2</sup> ]		

**NOTE:** Use above values for solid or stranded conductors.

**FLOOR COVERINGS:** The poke-thru device is fire rated for carpet or wood covered floors, tile floor coverings up to 3/4" [19.1 mm] maximum thickness, and linoleum floor coverings up to a maximum 1/8" [3.2 mm] thickness. For other floor coverings not listed above, consult factory.







### The Wiremold Company

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