NOTES:
Openings and Penetrations in Shaftwall/Stairwell systems: As tested per ASTM E119/UL 263, these systems do not contain any Openings or Penetrations.

a. All Opening and Penetration covering assemblies must be approved for use per Section 713.7 and 713.8 of the 2018 IBC.
b. Any Opening or Penetration framing detail provided here is not a tested detail, but a generally accepted practice coinciding with approved assemblies in noted a. above.
c. CT-Studs are Nonloadbearing, and where an Opening or Penetration is required the J-Tabbed Track must be supported by a designed structural element.
d. All Opening or Penetration fire rated assemblies require independent structural support, as the Shaftwall/Stairwell systems are not designed or tested under this condition.
**Mechanical Penetrations**

- **Studs @ 24" O.C.**
- **J-Tabbed Track**
- **Pan-Head Screws on both sides of all metal openings**

**Accessory Details**

- **NOTE:** Cavity depth requirements may vary according to services being installed
- **Alternate attachment in shaft**
- **24" Minimum height 1" shaftliner behind box and screw attached to tabs of CT-Studs or J-Track flanges**
- **Typical call or indicator box**

**Floor Indicator Box**

- **Alternate to bending tabs:** Use 1-5/8" Type S Screws @ 24" O.C.

**Control Joint**

- **Install with 4" minimum oversize inside cavity or on shaft side**

**Call Box—Outlet Box—Mail Chute**

- **Second layer for openings over 16 sq. in.**

**NOTES:**

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