

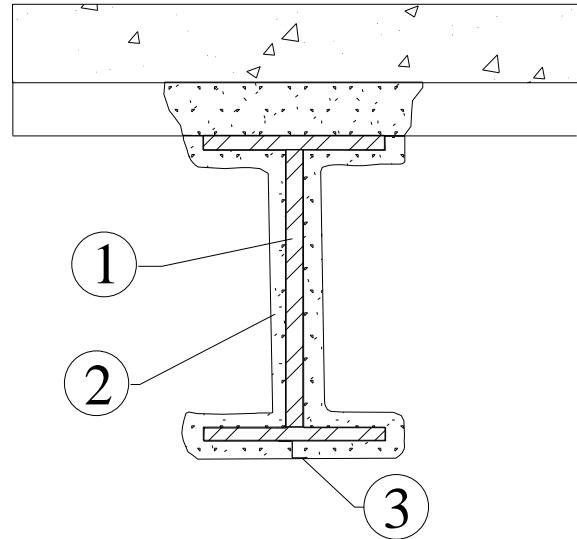


Install Guide & Tips – “Horseshoe” Framing Beam Penetrations

- **Spray Applied Fire Proofing**
- **Tabbed Track (Bottom of Beam)**
- **Mineral Wool Cavity Stuff**
- **"Contour" or "Square Cut" Gypsum**

- 1) **Structural Support** - I-Beam or Open Web Truss Penetration with Spray Applied Fire Proofing
- 2) **Fire Proofing** – Spray Applied Fire proofing applied to beam prior to installation of framing
- 3) **Z-Clip** – (optional) Z-Clip to extend through spray applied fireproofing

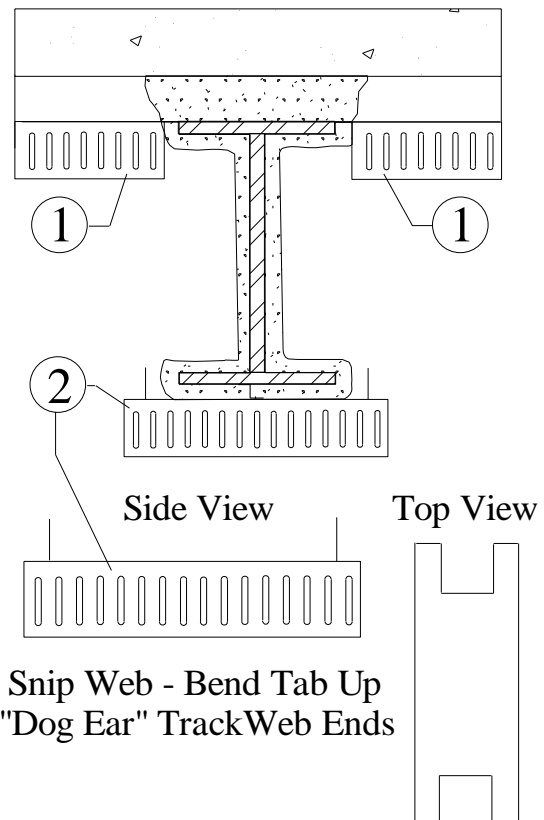
Alternate: Attach track through fire proofing with "steel pin" if approved



1) Deflection Track – Deflection track (slotted or solid leg) profile attached to overhead substrate butting into spray applied fireproofing

2) Tabbed Deflection Track – Deflection track with web snipped at each end forming attachment tabs

Alternate: Fasten angle clips to create attachment tabs at end of track profile

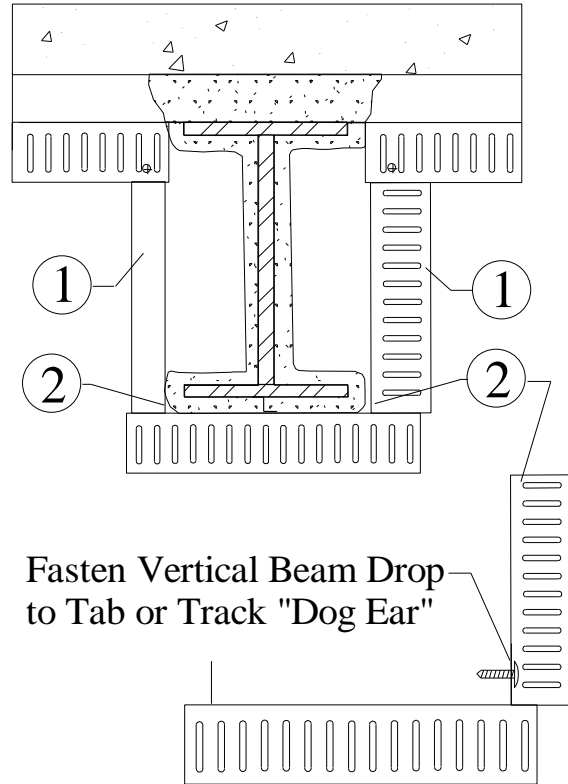




Install Guide & Tips – “Horseshoe” Framing Beam Penetrations

1) Beam Drops - Beam Drop Backing min. 20ga framing material (Stud or Track profile) to extend from upper deflection track down to deflection track under beam.

2) Attachment – Fasten Beam Drop sections to upper deflection track and attachment tabs of deflection track under beam with typical steel fasteners

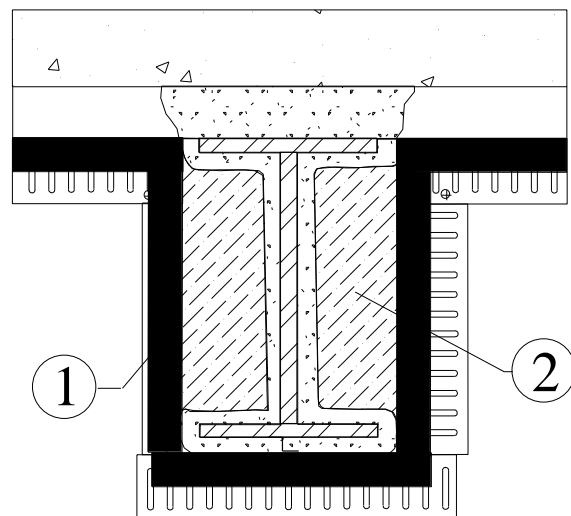


1) Safti-Seal FRG – Apply Safti-Seal Fire Rated Gasket (FRG) to deflection track and beam drop framing materials continuous

-Horizontally at deck and under beam install FRG width to accommodate specified deflection

-Vertically at beam drop backing a min 3/4" wide FRG (FRG-50) applied continuous from deflection track to deflection track

2) Mineral Wool – Fill “beam cavity” with min. 4 pcf mineral wool (width of wall framing) compressed a min. 50% filling entire Beam Cavity Void





Install Guide & Tips – “Horseshoe” Framing Beam Penetrations

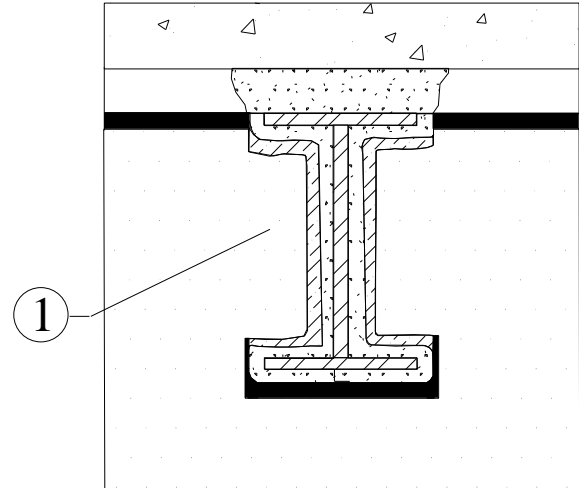
1) Contour Cut Drywall – Contour cut drywall around beam penetration with a max 3/8” gap between vertical drywall edges and spray applied fire proofing.

-Install drywall at horizontal conditions to deck, below beam, and in beam cavity with appropriate gap to accommodate specified deflection.

-No additional sealant required

- Do not fasten wall sheathing to "Horseshoe" framing around beam penetration

- Do not fasten vertical stud framing to vertical “beam drop” framing



Alternate Construction

1) Square Cut Gypsum – Square cut gypsum around beam penetration overlapping vertical FRG gasket and appropriate horizontal deflection gaps at deck and under beam

2) Metal Backing – Min. 20ga angle centered in wall/beam cavity attached to vertical beam drop with typical steel fasteners

3) Mineral Wool – Fill “beam cavity” on both sides of centered “beam cavity angle” with min. 4 pcf mineral wool wool (width of wall framing) compressed a min. 50% filling entire Beam Cavity Void

-Alternate to fill “beam cavity” with Spray Applied Fire Proofing material

- Do not fasten wall sheathing to "Horseshoe" framing around beam penetration

- Do not fasten vertical stud framing to vertical “beam drop” framing

