



# Firestop- The Hidden Liability and Five Steps to Reduce Them

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## Why it's a problem

- It impacts all the trades
- It's a life safety issue
- Codes change
- Products change



I have 20  
minutes



to elicit change!

# Five Steps to Reduce Liability



Plan Early



Utilize Devices



Communicate the Plan



Hire Well



Confirm the Plan- Cooperative QAQC

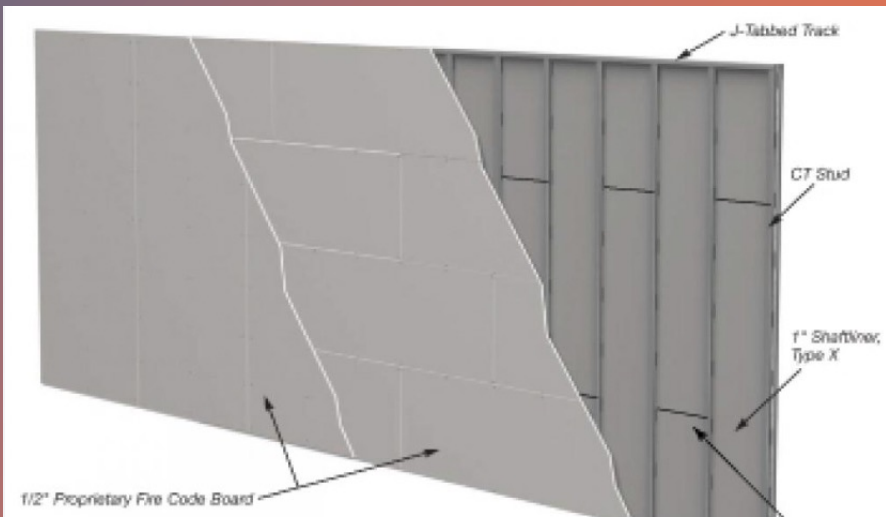
# Step 1 Plan Early

## Review Assemblies

- Floors
- Walls
  - Material
  - Purpose

## Means of Egress

## Prohibited Penetrations



## Step 1 Plan Early

### Review Assemblies

- Floors
- Walls
  - Material
  - Purpose

### Penetrations

# Penetrations

## BY TRADE

Mechanical

Electrical

Plumbing

Sprinkler

Low Voltage

Security

etc

## BY APPLICATION

1000- metal pipe

2000- plastic pipe

3000- cables

4000- cable trays

5000- insulated pipes

6000- busway

7000- ducts and misc mech

8000- combo

What am I missing from this list?

- Electrical boxes
- Electrical panels
- Gas box in commercial kitchens
- Time clocks
- Wall Safe
- Doorbells
- Fire extinguisher boxes
- Fire hose boxes
- Dryer vents
  
- Shower diverter valves
- Toilet boxes
- Ice maker boxes
- Washing machine boxes
- Toilet paper holders
- Diaper changing tables
- Plumbing to sinks, tubs, shower etc
- Hand sanitizer dispensers





# Meeting

Structural Engineer  
Drywaller  
Mason  
GC  
Firestop contractor

# Step 1- Plan Early

## Means of Egress

- Prohibited Penetration

## Shafts

- Top
- Bottom
- Prohibited penetrations

## Transfer Floors

Are MEPS rooms part of shaft

## Joints

# Step 2- Utilize Devices

Fire Rated Joints	
Floor Penetrations	
Cable Penetrations	
Membrane Penetrations	

Step3-  
Communicate  
the Plan

Plans

Specifications

Meetings

Two Way Street

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# Step 4- Hire Well

- Experience
  - Size
  - Scope
    - Floor assemblies
    - Occupancy type

## Step 4- Hire Well


Specialty  
Firestop  
Contractor

Trades Self  
Perform

Firestop  
Special  
Inspector

- +
  - - Step 5-  
Confirm the  
Plan-  
Cooperative  
QAQC

- If you did the first 4 steps well, this one is EASY... if you didn't, you will only find out when it is too late.



## Why listen to her?


- Started in 1999
- In the last 15 years \$22B in new projects
- 30 million sq ft of new construction
- Passionate team member



# Five Steps

- Plan Early
- Utilize Devices
- Communicate the Plan
- Hire Well
- Confirm the Plan-Cooperative QA/QC





If You Want to Build Better,  
We Want to Help!™



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