Reviewed for Code Compliance
Inspections Division
Date: 08/17/17

| METAL PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| STEEL PIPE (SCH. 10 OR HEAVIER) | 30" |
| CAST IRON PIPE | 30" |
| COPPER PIPE | 6" |
| STEEL CONDUIT | 6" |
| EMT | 4" |

1 M.4.1 METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

| METAL PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| STEEL PIPE (SCH. 5 OR HEAVIER) | 2" |
| STEEL CONDUIT | 2" |
| EMT | 2" |

2 M.4.1 MULTIPLE METAL PIPES THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

| PLASTIC PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE) | 10" |
| CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY) | 10" |
| ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE) | 6" |
| FRPP PIPE (SCH. 40) | 6" |
| PVDF PIPE (SDR 32.5) | 4" |

3 M.4.1 PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

| PLASTIC PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE) | 2" |
| CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY) | 2" |

4 M.4.1 PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

| METAL PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| STEEL PIPE (SCH. 40 OR HEAVIER) | 4" |
| COPPER PIPE OR TUBING | 2" |

5 M.4.1 METAL PIPE WITH AB/PVC INSULATION THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

Penetrations in or through fire resistance rated assemblies shall be protected by an approved penetration firestop system.

Penetrations of ducts in fire resistant assemblies without dampers shall be Protected per IBC Sec. 713. Ducts that are protected with dampers shall Also comply with Sec. 716.

Through penetrations and membrane penetrations in fire walls, fire Barrier Walls, and fire resistance rated horizontal assemblies shall be protected by Firestop systems.

1) 716.5.2 All penetrations through 1 hour assemblies shall be solid ducting of a min of 26 gauge duct and do not require fire dampers per IBC sec 216.5.2 exception 3 with fully automatic sprinkled building. We have avoided any penetrations with any fire rated assemblies greater than 1 hour

2) 716.5.4.1 Corridors , again we will be installing solid duct not less than 26 gauge. 716.6.2.1 Ceiling radiation dampers ASTM E 119 with solid duct not less than 26 gauge.

3) If Conditions prevent us from ducting them with 26 gauge pipe we will need to install per ASTM E 119. Our intent is to hard duct all terminations for 1 hour rated assemblies.

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| METAL PIPE | |
|---|---|
| TYPE | MAX. DIA. |
| STEEL PIPE (SCH. 10 OR HEAVIER) | 12" |
| CAST OR DUCTILE IRON PIPE | 12" |
| COPPER PIPE OR TUBING | 6" |

6 M.4.1 METAL PIPE WITH GLASS FIBER OR CALCIUM SILICATE INSULATION THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

| METAL DUCT | |
|---|---|
| TYPE | MAX. DIA. |
| SPIRAL WOUND SHEET METAL DUCT (MIN. 24 GA.) | 20" |
| SHEET METAL DUCT (MIN. 28 GA.) | 12" |

7 M.4.1 METAL DUCT (WITHOUT DAMPER) THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

8 M.4.1 METAL DUCT THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

9 M.4.1 METAL DUCT WITH GLASS FIBER INSULATION THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

10 M.4.1 MULTIPLE PENETRATIONS THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NOT TO SCALE

JOB NUMBER:

DRAWN:

CHECKED:

ISSUE DATE:

REVISIONS:

CONTENTS:

MECHANICAL PENETRATIONS
GYPSUM WALL
1 HR.

SHEET NAME:

M.4.1

SHEET NUMBER: