SECTION 15090
SUPPORTS, ANCHORS, AND SEALS

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

1. 15410 - Piping (Plumbing).
2. 15430 - Piping Specialties (Plumbing).
3. 15515 - Valves, Hangers, and Specialties.

1.02 REFERENCES


1.03 SUBMITTALS

A. Submit properly identified manufacturer's literature before starting work.

PART 2 PRODUCTS

2.01 MATERIALS

A. Inserts:

1. Malleable iron case of galvanized steel shell expander plug for threaded connection with lateral adjustment, top slot for reinforcing rods, and lugs for attaching to forms.
2. Size insert to suit threaded hanger rods.
3. Wall Support:
   a. Pipe Sizes to 3 Inches: Cast iron hook.

5. Floor Support:
   a. Pipe Sizes to 4 Inches and All Cold Pipe Sizes: Cast iron adjustable pipe saddle, locknut nipple,
floor flange and concrete pier to steel support.
b. Hot Pipe Sizes 6 Inches and Over: Adjustable cast iron roll and stand, steel screws and concrete pier or steel support.

6. Provide copper plated supports for copper piping or provide sheet lead packing between support and piping.

B. Hanger Rods: Provide steel hanger rods, threaded both ends, threaded one end, or continuous threaded.

C. Flashing:
1. Steel flashing: 26 gage stainless steel.
2. Safes: 5 pounds per square foot sheet lead or 8 mil thick neoprene.
3. Caps: Stainless steel, 22 gage minimum except 16 gage at fire resistant structures.

D. Sleeves:
1. Pipe Through Floors: Form from 18 gage galvanized sheet metal.
2. Pipes Through Beams, Walls, Fireproofing, Footings, Potentially Wet Floor: Form from steel plate or 18 gage galvanized sheet metal.
3. Size large enough to allow for movement due to expansion.

PART 3 EXECUTION

3.01 INSPECTION
A. Do not proceed with the work of this section until conditions detrimental to the proper and timely completion of the work have been corrected in an acceptable manner.

3.02 INSTALLATION
A. Inserts:
1. Use inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams wherever practicable.
2. Where concrete slabs form finished ceiling, furnish inserts flush with slab surface.
B. Supports:

1. Support CPVC and polypropylene according to manufacturer's requirements.
2. Support riser piping independently of connected horizontal piping where practical.

C. Priming: Prime coat exposed steel (not galvanized) supports.

D. Flashing: Flash and counterflash where mechanical equipment passes through weather or waterproofed walls, floors, and roofs.

E. Sleeves: Where piping passes through floor, ceiling, or wall, close space between pipe or duct and construction with noncombustible insulation. Provide tight fitting metal caps on both sides and caulk.

END OF SECTION