

GENERAL SPECIFICATIONS:

DIVISION 15 - PLUMBING & MECHANICAL

PART 1 GENERAL

CONDITIONS OF THE CONTRACT AND ARCHITECTURAL SECTIONS APPLY TO THIS SECTION.

- 1.01 DESCRIPTION
A. PROVIDE MATERIALS, EQUIPMENT, LABOR AND SERVICES NECESSARY FOR THE INSTALLATION...

- 1.02 GENERAL REQUIREMENTS
A. EQUIPMENT AND SYSTEMS FURNISHED SHALL FIT IN AVAILABLE SPACE WITH ADEQUATE SPACE FOR OPERATION AND SERVICING...

- 1.03 REFERENCES
A. ARI 210/240 - UNITARY AIR-CONDITIONING EQUIPMENT.
B. ARI 270 - SOUND RATING OF OUTDOOR UNITARY EQUIPMENT.
D. ASME B16.3 - MALLEABLE IRON THREADED FITTINGS.

PART 2 PRODUCTS

- 2.01 PIPE HANGERS AND SUPPORTS
A. HANGERS FOR PIPE SIZES 1/2 INCH TO 1-1/2 INCH: MALLEABLE IRON OR CARBON STEEL, ADJUSTABLE, SWIVEL SPLIT RING.

- 2.02 SLEEVES
A. SLEEVES FOR PIPES THROUGH NON RATED WALLS: STEEL PIPE OR 18 GAGE GALVANIZED STEEL.

- 2.03 PIPING INSULATION
A. WATER AND CONDENSATE PIPING: 1/2" CELLULAR FOAM, ASTM C534, FLEXIBLE, CELLULAR, ELASTOMERIC, MOLDED SHEET, JOINTS SEALED WITH WATERPROOF ADHESIVE.

- 2.04 DUCTWORK INSULATION
A. RETURN DUCTS SHALL BE LINED WITH 1" RIGID GLASS FIBER, ASTM C612, NONCOMBUSTIBLE BOARD WITH POLYVINYL ACETATE POLYMER IMPREGNATED SURFACE AND EDGE COAT.

- 2.05 DOMESTIC WATER PIPING
A. COPPER TUBING, ASTM B88, TYPE L, HARD DRAWN.
1. FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.

- 2.06 SANITARY SEWER AND VENT PIPING
A. CAST IRON PIPE: ASTM A74 - SERVICE WEIGHT, FITTINGS: CAST IRON, JOINTS: ASTM C564, NEOPRENE GASKET SYSTEM OR LEAD AND OAKUM.

- 2.07 CONDENSATE DRAIN PIPING
A. COPPER TUBING, ASTM B88, TYPE L, HARD DRAWN.
B. FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.

- 2.08 DUCTWORK
A. ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, AND SEALED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS, OUTSIDE DIMENSION SHALL BE ADJUSTED FOR DUCT LINER.

- 2.09 FLEXIBLE DUCTWORK
A. TWO LAYERS ALUMINIZED FOIL FILM SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, VAPOR BARRIER FILM, PRESSURE RATING: 10 INCHES W.G. POSITIVE AT 1.0 INCHES W.G. NEGATIVE.

- D. OTHER DUCT SYSTEMS NOT LISTED: STATIC PRESSURE AVAILABLE FROM FAN SEAL CLASSIFICATION TO STATIC PRESSURE CLASS BUT NOT LESS THAN SEAL CLASS C.

- 2.11 AIR DEVICES
A. REGISTERS, GRILLES AND DIFFUSERS SHALL BE PROVIDED IN SIZES SHOWN ON DRAWINGS. PROVIDE DAMPERS AND OTHER INDICATED ACCESSORIES.

- 2.12 DUCTWORK ACCESSORIES
A. PROVIDE FLEXIBLE DUCT CONNECTIONS AT DUCT CONNECTIONS TO EACH FAN OR AIR HANDLER. CONNECTOR SHALL BE UL LISTED FIRE RETARDANT NEOPRENE COATED WOVEN GLASS FIBER TO NFPA 90A.

- 2.13 DUCTWORK INSULATION
A. GLASS FIBER, FLEXIBLE
1. MANUFACTURER: OWENS-CORNING, MODEL TYPE IV.

- 2.14 CONTROLS
A. GUARANTEE: THE CONTROLS SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL UNDER NORMAL USE AND SERVICE.

- 2.15 FLASHING
A. ARCHITECTURAL SPECIFICATIONS SUPERCEDE THIS SECTION.
B. FLASH VENT PIPES PROJECTING 3 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE WITH 5 POUND PER SQUARE FOOT LEAD FLASHING WORKED ONE INCH MINIMUM INTO HUB, 8 INCHES MINIMUM CLEAR ON SIDES WITH 24x24 INCH SHEET SIZE.

- 2.16 EQUIPMENT CURBS
A. ARCHITECTURAL SPECIFICATIONS SUPERCEDE THIS SECTION.
B. WELDED 18 GAGE GALVANIZED STEEL SHELL AND BASE, MITERED 3 INCHES MINIMUM VARIABLE SLOPE TO MATCH ROOF, MINIMUM HEIGHT 14 INCHES, 1-1/2 INCH THICK INSULATION, FACTORY INSTALLED WOOD NAILER (NAILER IF REQUIRED FOR ROOFING MATERIAL).

- 2.17 NATURAL GAS PIPING
A. MINIMUM OPERATING-PRESSURE RATINGS
1. PIPING AND VALVES: 100 psig MINIMUM UNLESS OTHERWISE INDICATED.

- 2.18 FLOOR DRAINS
A. ANSI A112.21.1, REFER TO PLUMBING FIXTURE AND SPECIALTIES SCHEDULES.

- 2.19 PLUMBING FIXTURES
A. WATER CLOSETS/URINALS: ADA, ASME 112.19.2 & 112.19.5, REFER TO DRAWINGS.
B. LAVATORIES: ADA, ASME 112.6.1, REFER TO DRAWINGS.

- 2.20 PLUMBING SPECIALTIES
A. BACKFLOW PREVENTERS: REFER TO DRAWINGS.
1. ASSE 1012 - PERFORMANCE REQUIREMENTS FOR BACKFLOW PREVENTER WITH INTERMEDIATE ATMOSPHERIC VENT.

- 2.21 NOT USED
2.22 NOT USED
2.23 CENTRIFUGAL EXHAUST FANS
A. MANUFACTURER/MODEL: REFER TO DRAWINGS.

PART 3 INSTALLATION

- 3.01 TESTING, ADJUSTING AND BALANCING:
A. TESTING AND BALANCING SHALL BE PERFORMED BY AN INDEPENDENT, AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR.

- 3.02 GUARANTEE:
A. THE CONTRACTOR SHALL PROVIDE SPECIFIED EQUIPMENT WARRANTIES AND GENERAL WARRANTY AS STATED IN ARCHITECTURAL SECTIONS.

- 3.03 INSSTRUCTIONS:
A. THE CONTRACTOR SHALL INSTRUCT THE OWNER AND PROVIDE MANUALS FOR PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT.

- 3.04 GENERAL INSTALLATION:
A. ROUTE PIPING AND DUCTWORK IN ORDERLY MANNER AND MAINTAIN GRADIENT. ROUTE PARALLEL AND PERPENDICULAR TO WALLS.

PART 4 VIBRATION ISOLATORS

- 4.01 OPEN SPRING ISOLATORS:
A. SPRING ISOLATORS:
1. FOR EXTERIOR AND HUMID AREAS: PROVIDE HOT DIPPED GALVANIZED HOUSINGS AND NEOPRENE COATED SPRINGS.

- 4.02 CODE: COLOR CODE SPRINGS FOR LOAD CARRYING CAPACITY.
A. SPRINGS: MINIMUM HORIZONTAL STIFFNESS EQUAL TO 75 PERCENT VERTICAL STIFFNESS, WITH WORKING DEFLECTION BETWEEN 0.3 AND 0.6 OF MAXIMUM DEFLECTION.

- 4.03 RESTRAINED SPRING ISOLATORS:
A. SPRING ISOLATORS:
1. FOR EXTERIOR AND HUMID AREAS: PROVIDE HOT DIPPED GALVANIZED HOUSINGS AND NEOPRENE COATED SPRINGS.

- 4.04 CLOSED SPRING ISOLATORS:
A. SPRING ISOLATORS:
1. FOR EXTERIOR AND HUMID AREAS: PROVIDE HOT DIPPED GALVANIZED HOUSINGS AND NEOPRENE COATED SPRINGS.

- 4.05 RESTRAINED CLOSED SPRING ISOLATORS:
A. SPRING ISOLATORS:
1. FOR EXTERIOR AND HUMID AREAS: PROVIDE HOT DIPPED GALVANIZED HOUSINGS AND NEOPRENE COATED SPRINGS.

- 4.06 SPRING HANGER:
A. SPRING ISOLATORS:
1. FOR EXTERIOR AND HUMID AREAS: PROVIDE HOT DIPPED GALVANIZED HOUSINGS AND NEOPRENE COATED SPRINGS.

- 4.07 NEOPRENE PAD ISOLATORS:
A. RUBBER OR NEOPRENE WAFFLE PADS.
1. 30 DUROMETER.

- 4.08 RUBBER MOUNT OR HANGER:
A. MOLDED RUBBER DESIGNED FOR 0.5 INCHES (13 MM) DEFLECTION WITH THREADED INSERT.

- 4.09 GLASS FIBER PADS:
A. NEOPRENE JACKETED PRE-COMPRESSED MOLDED GLASS FIBER.

- 4.10 SEISMIC SNUBBERS:
A. TYPE: NON-DIRECTIONAL AND DOUBLE ACTING UNIT CONSISTING OF INTERLOCKING STEEL MEMBERS RESTRAINED BY NEOPRENE ELEMENTS.

- C. CAPACITY: 4 TIMES LOAD ASSIGNED TO MOUNT GROUPINGS AT 0.4 INCH DEFLECTION.
D. ATTACHMENT POINTS AND FASTENERS: CAPABLE OF WITHSTANDING 3 TIMES RATED LOAD CAPACITY OF SEISMIC SNUBBER.

PART 5 VIBRATION ISOLATOR INSTALLATION

- 5.01 INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- 5.02 INSTALL ISOLATION FOR MOTOR DRIVEN EQUIPMENT.
5.03 BASES:
A. SET STEEL BASES FOR 1 INCH CLEARANCE BETWEEN HOUSEKEEPING PAD AND BASE.

- 5.04 INSTALL SPRING HANGERS WITHOUT BINDING.

- 5.05 ON CLOSED SPRING ISOLATORS, ADJUST SO SIDE STABILIZERS ARE CLEAR AND IN NORMAL OPERATING CONDITIONS.

- 5.06 PRIOR TO MAKING PIPING CONNECTIONS TO EQUIPMENT WITH OPERATING WEIGHTS SUBSTANTIALLY DIFFERENT FROM INSTALLED WEIGHTS, BLOCK UP EQUIPMENT WITH TEMPORARY SHIMS TO FINAL HEIGHT.

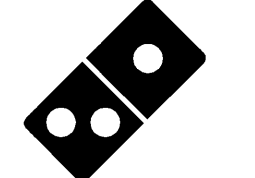
- 5.07 PROVIDE PAIRS OF HORIZONTAL LIMIT SPRINGS ON FANS WITH MORE THAN 6.0 INCH STATIC PRESSURE, AND ON HANGERS SUPPORTED, HORIZONTALLY MOUNTED AXIAL FANS.

- 5.08 SUPPORT PIPING CONNECTIONS TO ISOLATED EQUIPMENT RESILIENTLY TO NEAREST FLEXIBLE PIPE CONNECTIONS AS FOLLOWS:
A. UP TO 4 INCH DIAMETER: FIVE THREE POINTS OF SUPPORT.



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