

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL LIBRARY
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MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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DIVISION 1 - GENERAL REQUIREMENTS

| | | | |
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| | 3/03 01000 | GENERAL REQUIREMENTS | Evaluations for all Division 1 Sections. |
| R | 11/02 01100 | SUMMARY | Summary of the Work, Work phases, products ordered in advance, Owner-furnished products, use of premises, and work restrictions. |
| | 11/02 01125 | SUMMARY OF MULTIPLE CONTRACTS | Responsibilities of each contract for the Work, coordination, and temporary facilities and controls. |
| | 11/02 01210 | ALLOWANCES | Provisions for allowances. |
| | 11/02 01230 | ALTERNATES | Provisions for alternates. |
| | 11/02 01250 | CONTRACT MODIFICATION PROCEDURES | Procedural requirements for changing the Contract. |
| | 11/02 01270 | UNIT PRICES | Provisions for unit prices. |
| | 11/02 01290 | PAYMENT PROCEDURES | Administrative requirements for payment. |
| | 8/04 01310 | PROJECT MANAGEMENT AND COORDINATION | Administrative requirements for project meetings and coordination. |
| | 11/02 01320 | CONSTRUCTION PROGRESS DOCUMENTATION | Contractor's Construction Schedule, Submittals Schedule, and reports. |
| | 11/02 01322 | PHOTOGRAPHIC DOCUMENTATION | Construction photographs and videotapes. |
| R | 11/02 01330 | SUBMITTAL PROCEDURES | Procedures for submitting Action, Informational, and Delegated-Design Submittals. |
| | 5/02 01351 | SPECIAL PROCEDURES FOR HISTORIC TREATMENT | Storage, temporary protection, and procedures. |
| U | 5/06 01352 | LEED REQUIREMENTS | General requirements and procedures for LEED prerequisites and credits. |
| | 11/02 01400 | QUALITY REQUIREMENTS | Quality-assurance and -control requirements and special inspections. |
| | 11/05 01420 | REFERENCES | Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MASTERSPEC. |
| R | 11/02 01500 | TEMPORARY FACILITIES AND CONTROLS | Temporary utilities and facilities for support, security, and protection. |
| R | 2/03 01524 | CONSTRUCTION WASTE MANAGEMENT | Salvaging, recycling, and disposing of construction waste. |
| | 11/02 01600 | PRODUCT REQUIREMENTS | Administrative and procedural requirements for product selection and handling, warranties, and product substitutions. |
| | 11/02 01700 | EXECUTION REQUIREMENTS | Field engineering, progress cleaning, and general requirements for product installation. |
| R | 11/02 01731 | CUTTING AND PATCHING | Special procedures. |
| R | 11/02 01732 | SELECTIVE DEMOLITION | Demolition and removal of selected portions of buildings and site elements. |
| | 11/02 01770 | CLOSEOUT PROCEDURES | Administrative and procedural requirements for Contract closeout. |
| | 11/02 01781 | PROJECT RECORD DOCUMENTS | Record Drawings, Specifications, and Product Data. |
| | 11/02 01782 | OPERATION AND MAINTENANCE DATA | Emergency, operation, and maintenance manuals for products and equipment. |
| | 12/05 01810 | GENERAL COMMISSIONING REQUIREMENTS | Administrative requirements and procedures for commissioning all systems. |
| U | 6/06 01815 | COMMISSIONING OF HVAC | Administrative requirements and procedures for commissioning HVAC systems. |
| | 11/02 01820 | DEMONSTRATION AND TRAINING | Administrative and procedural requirements for instructing Owner's personnel. |

DIVISION 2 - SITE CONSTRUCTION

| | | | |
|--|-------------|---|---|
| | 6/04 02080 | PIPED UTILITIES - BASIC MATERIALS AND METHODS | Basic piping materials and methods. |
| | 5/04 02221 | BUILDING DEMOLITION | Complete structure removal. |
| | 11/01 02230 | SITE CLEARING | Clearing and grubbing, and topsoil removal. |
| | 8/05 02240 | DEWATERING | Construction dewatering and groundwater controls. |
| | 2/02 02300 | EARTHWORK | Excavating, filling, and grading. |
| | 3/04 02510 | WATER DISTRIBUTION | Utility service, domestic, and fire-protection water. |

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MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL LIBRARY
Short Form Basic

MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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| N | 6/06 | 02515 | FACILITY FIRE-SUPPRESSION WATER-SERVICE PIPING | Fire suppression piping and specialties outside the building. |
| | 12/01 | 02530 | SANITARY SEWERAGE | Sanitary sewerage and underground structures outside the building. |
| | 3/03 | 02552 | GROUND-LOOP, HEAT-PUMP PIPING | Horizontal and vertical, direct-buried, ground-loop piping. |
| | 3/03 | 02620 | SUBDRAINAGE | Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas. |
| | 12/01 | 02630 | STORM DRAINAGE | Gravity and forced storm piping and underground structures. |
| | 8/05 | 02741 | ASPHALT PAVING | Paving, overlays, and surface treatments. |
| | 2/02 | 02751 | CEMENT CONCRETE PAVEMENT | General applications. |
| | 12/05 | 02810 | IRRIGATION SYSTEMS | Heads, pipes, and controls. |
| | 8/02 | 02821 | CHAIN-LINK FENCES AND GATES | Standard chain-link fencing systems. |
| DIVISION 3 - CONCRETE | | | | |
| R | 8/02 | 03300 | CAST-IN-PLACE CONCRETE | General building and structural applications. |
| R | 8/02 | 03301 | CAST-IN-PLACE CONCRETE (LIMITED APPLICATIONS) | Limited applications for smaller projects. |
| DIVISION 5 - METALS | | | | |
| R | 2/02 | 05500 | METAL FABRICATIONS | Iron and steel items (not sheet metal). |
| DIVISION 6 - WOOD AND PLASTICS | | | | |
| R | 11/03 | 06100 | ROUGH CARPENTRY | Wood framing, furring, grounds, nailers, and blocking. |
| DIVISION 7 - THERMAL AND MOISTURE PROTECTION | | | | |
| | 11/05 | 07620 | SHEET METAL FLASHING AND TRIM | Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets. |
| | 11/02 | 07720 | ROOF ACCESSORIES | Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, roof supports, and roof walkways. |
| | 11/02 | 07841 | THROUGH-PENETRATION FIRESTOP SYSTEMS | Through-penetration firestop systems. |
| R | 5/01 | 07920 | JOINT SEALANTS | Elastomeric, nonelastomeric, and preformed sealants. |
| DIVISION 8 - DOORS AND WINDOWS | | | | |
| | 2/04 | 08311 | ACCESS DOORS AND FRAMES | Wall, ceiling, and floor units. |
| DIVISION 9 - FINISHES | | | | |
| | 2/04 | 09910 | PAINTING | Evaluations for Sections 09911 and 09912. |
| | 2/04 | 09911 | EXTERIOR PAINTING | Exterior painting. |
| R | 2/04 | 09912 | INTERIOR PAINTING | Interior painting. |
| R | 11/03 | 09960 | HIGH-PERFORMANCE COATINGS | Specialty coatings for use on exterior and interior substrates. |
| DIVISION 10 - SPECIALTIES | | | | |
| | 8/05 | 10200 | LOUVERS AND VENTS | Fixed and adjustable louvers; wall vents. |
| | 5/05 | 10520 | FIRE PROTECTION SPECIALTIES | Evaluations for Sections 10522 and 10523. |
| | 5/05 | 10522 | FIRE EXTINGUISHER CABINETS | Fire-protection cabinets and security fire-protection cabinets. |
| R | 5/05 | 10523 | FIRE EXTINGUISHERS | Portable and wheeled fire extinguishers. |
| DIVISION 13 - SPECIAL CONSTRUCTION | | | | |
| | 3/01 | 13920 | FIRE PUMPS | Evaluations for Sections 13921, 13922, 13926, and 13927. |
| | 3/01 | 13921 | ELECTRIC-DRIVE, CENTRIFUGAL FIRE PUMPS | End-suction and in-line, centrifugal, split case. |
| | 3/01 | 13922 | DIESEL-DRIVE, CENTRIFUGAL FIRE PUMPS | End-suction, centrifugal, split case. |
| | 3/01 | 13926 | ELECTRIC-DRIVE, VERTICAL-TURBINE FIRE PUMPS | Vertical-turbine pumps, controllers, and accessories. |
| | 3/01 | 13927 | DIESEL-DRIVE, VERTICAL-TURBINE FIRE PUMPS | Vertical-turbine pumps, controllers, and accessories. |

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MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL LIBRARY
Short Form Basic

MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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| | | | |
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| N | 6/06 13930 | WET-PIPE FIRE-SUPPRESSION SPRINKLERS | Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems. |
| N | 6/06 13935 | DRY-PIPE FIRE-SUPPRESSION SPRINKLERS | Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems. |
| N | 6/06 13974 | FIRE-SUPPRESSION STANDPIPES | Piping, specialties, valves, hose valves, and hose stations. |

DIVISION 15 - MECHANICAL

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| N | 6/05 15051 | COMMON WORK RESULTS FOR FIRE SUPPRESSION | Common piping and equipment, materials, and installations. |
| | 6/05 15052 | COMMON WORK RESULTS FOR PLUMBING | Common piping and equipment, materials, and installations. |
| | 6/05 15053 | COMMON WORK RESULTS FOR HVAC | Common piping and equipment, materials, and installations. |
| N | 6/05 15056 | COMMON MOTOR REQUIREMENTS FOR FIRE SUPPRESSION EQUIPMENT | Universal default values for small and medium, ac motors. |
| | 6/05 15057 | COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT | Universal default values for small and medium, ac motors. |
| | 6/05 15058 | COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT | Universal default values for small and medium, ac motors. |
| | 6/05 15061 | HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT | Single and multiple hangers, framing systems, and stands and supports. |
| | 6/05 15062 | HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT | Single and multiple hangers, framing systems, and stands and supports. |
| N | 12/04 15072 | VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT | Vibration isolation devices and seismic restraints. |
| | 12/04 15073 | VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT | Vibration isolation devices and seismic restraints. |
| | 12/04 15074 | VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT | Vibration isolation devices and seismic restraints. |
| | 6/05 15076 | IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT | Labels, stencils, and tags. |
| | 6/05 15077 | IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT | Labels, stencils, and tags. |
| N | 3/05 15081 | FIRE-SUPPRESSION SYSTEMS INSULATION | Equipment and pipe insulation. |
| R | 3/05 15082 | PLUMBING INSULATION | Equipment and pipe insulation. |
| R | 3/05 15083 | HVAC INSULATION | Duct, equipment, and pipe insulation. |
| | 9/05 15111 | GENERAL-DUTY VALVES FOR PLUMBING PIPING | Gate, globe, check, butterfly, & ball valves common to multiple systems. |
| | 9/05 15112 | GENERAL-DUTY VALVES FOR HVAC PIPING | Gate, globe, check, butterfly, & ball valves common to multiple systems. |
| | 3/05 15123 | EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING | Expansion joints and loops. |
| | 3/05 15124 | EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING | Expansion joints and loops. |
| | 3/05 15126 | METERS AND GAGES FOR PLUMBING PIPING | Temperature, pressure, and flow. |
| | 3/05 15127 | METERS AND GAGES FOR HVAC PIPING | Temperature, pressure, and flow. |
| U | 6/06 15140 | DOMESTIC WATER PIPING | Potable-water distribution within the building. |
| | 12/03 15145 | DOMESTIC WATER PIPING SPECIALTIES | Specialties, valves, and fittings for domestic water piping. |
| R | 12/02 15150 | SANITARY WASTE AND VENT PIPING | Soil, waste, and vent piping within the building. |
| | 6/05 15155 | SANITARY WASTE PIPING SPECIALTIES | Floor, trench, and channel drains; interceptors; and piping specialties. |
| R | 12/02 15160 | STORM DRAINAGE PIPING | Stormwater piping within the building. |
| | 6/05 15165 | STORM DRAINAGE PIPING SPECIALTIES | Storm drains, roof drains, catch basins, and piping specialties. |
| R | 6/04 15181 | HYDRONIC PIPING | Hot-, chilled-, and condenser-water piping. |
| | 6/04 15182 | STEAM AND CONDENSATE PIPING | LP and HP piping and specialties. |
| | 6/04 15183 | REFRIGERANT PIPING | Piping, specialties, and refrigerant. |

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL LIBRARY
Short Form Basic

MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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| | | | | |
|---|-------|-------|--|---|
| | 6/02 | 15185 | HYDRONIC PUMPS | Base mounted and inline; close coupled and separately coupled. |
| | 6/02 | 15186 | STEAM CONDENSATE PUMPS | Electric-driven and pressure-powered; single and duplex pumps with receivers. |
| | 3/04 | 15189 | HVAC WATER TREATMENT | Steam boiler feedwater and hot-, chilled-, and condenser-water treatment. |
| | 3/05 | 15192 | FACILITY FUEL-OIL PIPING | Transfer and storage equipment and piping. |
| | 3/05 | 15195 | FACILITY NATURAL-GAS PIPING | Natural gas piping and specialties. |
| | 3/05 | 15196 | FACILITY LIQUEFIED-PETROLEUM GAS PIPING | LP gas piping, specialties, and storage equipment. |
| | 9/04 | 15211 | GENERAL-SERVICE COMPRESSED-AIR PIPING | Nonmedical piping, equipment, and accessories. |
| | 3/05 | 15251 | GENERAL-SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS | Nonmedical air compressors, filters, and dryers. |
| R | 9/03 | 15410 | PLUMBING FIXTURES | Fixtures, carriers, faucets, and trim. |
| R | 9/03 | 15411 | MEDICAL PLUMBING FIXTURES | Plumbing fixtures for healthcare facilities. |
| | 12/03 | 15412 | EMERGENCY PLUMBING FIXTURES | Individual and combination emergency eyewash and shower units. |
| | 9/03 | 15415 | DRINKING FOUNTAINS AND WATER COOLERS | Electric water coolers and vitreous-china fountains. |
| | 9/01 | 15441 | DOMESTIC WATER PUMPS | In-line and end-suction pumps. |
| | 9/01 | 15445 | SEWAGE PUMPS | Effluent pumps; automatic, packaged. |
| | 9/01 | 15446 | SUMP PUMPS | Simplex and duplex packaged units. |
| | 6/02 | 15450 | POTABLE-WATER STORAGE TANKS | Water storage; compression and diaphragm. |
| | 6/02 | 15469 | WATER SOFTENERS | Domestic and general use, not treatment. |
| | 3/03 | 15471 | WATER FILTRATION EQUIPMENT | Separators; and bag, cartridge, carbon, sand, and greensand filters. |
| R | 12/02 | 15485 | ELECTRIC WATER HEATERS | Household and commercial; tankless, instantaneous, and storage types. |
| R | 12/02 | 15486 | FUEL-FIRED WATER HEATERS | Household and commercial; gas and oil fired; instantaneous and storage types. |
| | 3/04 | 15510 | HEATING BOILERS AND ACCESSORIES | Evaluations for Sections 15512, 15513, 15515, 15518, and 15519. |
| R | 3/04 | 15512 | CAST-IRON BOILERS | HW and steam; gas and oil fired. |
| R | 3/04 | 15513 | CONDENSING BOILERS | Packaged condensing boilers for small applications. |
| R | 6/05 | 15515 | WATER-TUBE BOILERS | HW and steam; gas and oil fired. |
| R | 3/04 | 15518 | FIRE-TUBE BOILERS | HW and steam; gas and oil fired. |
| | 3/04 | 15519 | ELECTRIC BOILERS | HW and steam; HP and LP. |
| | 6/04 | 15520 | FEEDWATER EQUIPMENT | Condensate and vacuum pumps and receivers. |
| R | 12/04 | 15530 | FURNACES | Gas-, electric-, and oil-fired furnaces. |
| R | 6/04 | 15541 | GAS-FIRED DUCT HEATERS | Gas- and oil-fired units. |
| R | 6/04 | 15542 | GAS-FIRED RADIANT HEATERS | Natural and LP gas units. |
| R | 6/04 | 15543 | FUEL-FIRED UNIT HEATERS | Gas- and oil-fired units. |
| | 9/04 | 15550 | BREECHINGS, CHIMNEYS, AND STACKS | Double-wall and refractory-lined breechings and stacks; fabricated breechings. |
| | 9/04 | 15555 | DRAFT CONTROL DEVICES | Induced-draft fans and barometric dampers. |
| R | 12/01 | 15561 | DIRECT-FIRED H&V UNITS | Gas-fired indoor and outdoor units. |
| R | 12/01 | 15562 | INDIRECT-FIRED H&V UNITS | Gas- and oil-fired indoor and outdoor units. |
| | 9/00 | 15620 | PACKAGED WATER CHILLERS | Evaluations for Sections 15621, 15622, 15625, and 15626. |
| U | 6/06 | 15621 | INDIRECT-FIRED ABSORPTION WATER CHILLERS | Steam and hot-water generated; one and two stage. |
| R | 9/00 | 15622 | DIRECT-FIRED ABSORPTION WATER CHILLERS | Natural gas, LP, and oil fired; water cooled; two stage. |
| U | 6/06 | 15625 | CENTRIFUGAL WATER CHILLERS | Hermetic and open; direct and gear drives; water and air cooled. |
| U | 6/06 | 15626 | ROTARY-SCREW WATER CHILLERS | Water-cooled, single- and multiple-compressor units; air-cooled indoor and outdoor units. |
| R | 3/05 | 15627 | RECIPROCATING WATER CHILLERS | Water and air cooled. |

N = NEW U = UPDATE R = REVISION

MASTERSPEC[®]

TABLE OF CONTENTS

MECHANICAL LIBRARY
Short Form Basic

MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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| | | | | |
|---|-------|-------|---|---|
| R | 3/05 | 15629 | SCROLL WATER CHILLERS | Water and air cooled. |
| | 9/04 | 15635 | REFRIGERANT DETECTION AND ALARM | Monitors, alarms, breathing apparatus, and ventilation equipment interlocks. |
| R | 6/05 | 15640 | COOLING TOWERS | Factory-assembled, open- and closed-circuit, induced- and forced-draft, cross- and counter-flow towers. |
| R | 12/00 | 15663 | EVAPORATIVE CONDENSERS | Blow through and counterflow. |
| R | 3/02 | 15671 | CONDENSING UNITS | Air and water cooled. |
| R | 3/02 | 15672 | AIR-COOLED CONDENSERS | Remote forced-air, condenser, and fan units. |
| | 3/03 | 15710 | HYDRONIC AND STEAM HEAT EXCHANGERS | Steam to water and water to water; shell-and-tube and flat-plate types. |
| U | 6/06 | 15725 | MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS | Units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| U | 6/06 | 15731 | PACKAGED TERMINAL AIR CONDITIONERS | Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating. |
| R | 12/04 | 15732 | PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS | Packaged, rooftop HVAC. |
| R | 9/01 | 15733 | ROOFTOP REPLACEMENT-AIR UNITS | Makeup-air heating and cooling units. |
| U | 6/06 | 15734 | COMPUTER-ROOM AIR-CONDITIONERS | Floor- and ceiling-mounted console; water and air cooled; electric, hot-water, and steam heat. |
| R | 6/05 | 15735 | SELF-CONTAINED AIR-CONDITIONERS | Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations. |
| R | 6/02 | 15738 | SPLIT-SYSTEM AIR-CONDITIONING UNITS | Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations. |
| R | 3/03 | 15745 | WATER-SOURCE HEAT PUMPS | Concealed horizontal and vertical units; vertical-stack, rooftop, exposed-console units; and unit ventilators. |
| R | 12/03 | 15761 | AIR COILS | Water, steam, refrigerant, and electric heat-transfer coils. |
| R | 6/05 | 15762 | UNIT HEATERS | Cabinet and propeller unit heaters, and wall and ceiling heaters. |
| R | 6/03 | 15763 | FAN-COIL UNITS | Hot water, steam, and electric heating; chilled or DX cooling. |
| | 9/03 | 15764 | CONVECTION HEATING UNITS | Hot water, steam, and electric baseboard and finned-tube radiators and convectors. |
| R | 6/03 | 15768 | UNIT VENTILATORS | Hot water, steam, and electric heating; chilled or DX cooling. |
| | 9/03 | 15769 | RADIANT HEATING AND COOLING UNITS | Electric and hot water radiant heaters and heating and cooling panels. |
| | 6/04 | 15772 | RADIANT HEATING PIPING | Embedded pipe and fittings. |
| | 6/05 | 15774 | RADIANT-HEATING ELECTRIC CABLES | Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention. |
| | 6/05 | 15776 | RADIANT-HEATING ELECTRIC PANELS | Factory-fabricated panels. |
| N | 6/05 | 15777 | HEAT TRACING FOR FIRE-SUPPRESSION PIPING | Electric cables for freeze protection. |
| | 6/05 | 15778 | HEAT TRACING FOR PLUMBING PIPING | Electric cables for freeze protection and temperature maintenance. |
| | 6/05 | 15779 | HEAT TRACING FOR HVAC PIPING | Electric cables for freeze protection. |
| U | 6/06 | 15815 | METAL DUCTS | Rectangular and round, single- and double-wall ducts, including hangers and supports. |
| U | 6/06 | 15816 | NONMETAL DUCTS | Fibrous-glass, PVC, and FRP ducts, hangers, and supports. |
| U | 6/06 | 15817 | HVAC CASINGS | Factory and field fabricated; single and double wall. |
| U | 6/06 | 15820 | DUCT ACCESSORIES | Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware. |
| | 9/02 | 15834 | AIR CURTAINS | Fans over entrances with and without heating. |
| | 9/03 | 15836 | AXIAL FANS | Tubeaxial and vaneaxial fans. |
| | 9/03 | 15837 | CENTRIFUGAL FANS | BI & FC indoor type; tubular and in-line units. |

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL LIBRARY
Short Form Basic

MasterFormat 1995 Version

| Issue Date | Sect. No. | SECTION TITLE | SECTION DESCRIPTION |
|------------|-----------|---------------|---------------------|
|------------|-----------|---------------|---------------------|

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|---|-------------|-----------------------------------|---|
| | 9/03 15838 | POWER VENTILATORS | Roof, wall, and ceiling-mounting ventilators. |
| R | 12/00 15840 | AIR TERMINAL UNITS | Constant- and variable-volume units. |
| | 3/06 15855 | DIFFUSERS, REGISTERS, AND GRILLES | Round, rectangular, perforated, and linear diffusers; fixed and adjustable registers and grilles. |
| R | 9/01 15856 | INTAKE AND RELIEF VENTILATORS | Unpowered ventilators and louver penthouses. |
| | 9/02 15861 | AIR FILTERS | Disposable, extended surface, roll, activated carbon, HEPA, and electronic. |
| | 9/04 15870 | COMMERCIAL KITCHEN HOODS | Type I and Type II, Standard and Listed hoods. |
| | 6/03 15900 | HVAC INSTRUMENTATION AND CONTROLS | Electric, electronic, pneumatic, and DDC equipment and devices. |
| R | 6/03 15940 | SEQUENCE OF OPERATION | Control sequences for HVAC systems. |
| R | 6/01 15950 | TESTING, ADJUSTING, AND BALANCING | HVAC systems. |

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