



MILITARY STANDARD 1691

CONSTRUCTION AND MATERIAL SCHEDULE FOR MEDICAL, DENTAL, VETERINARY AND MEDICAL RESEARCH LABORATORIES DECEMBER 1, 2016

Originating Component: Defense Health Agency Facilities Division

Effective: December 1, 2016

Releasability: No Restrictions

General. This issuance: The MIL-STD-1691, best defined as an Interface Standard in accordance with MIL STD 962D, is a valuable tool allowing the Military Health System (MHS) and the Department of Veterans Affairs (DVA) to more clearly express basic conceptual intent in the planning and programming of a project. The data from the tool allows the planning and programming team to develop a parametric cost estimate for associated furniture, fixtures and equipment requirements, and allows the design team to address general design requirements early in the conceptual phases of design. The medical equipment program to this level of detail supports specificity for more focused and informed architectural concept design. In addition this tool supports earlier engineering design analysis of alternatives having fewer variances of unknowns relating to furniture, fixtures and equipment.

SECTION 5: UTILITY REQUIREMENTS FOR MEDICAL / DENTAL / VETERINARY EQUIPMENT

5.1. LEGEND OF UTILITIES. The utility codes and descriptions are intended to describe the base utility requirements for a selected JSN. Designers and planners must ensure to verify all utility requirements at time of specific equipment selection.

Utility 1: Plumbing (Water and Drainage)

Code	Description
A	Hot and cold water
B	Cold water and drain
C	Hot water and drain
D	Cold and hot water and drain
E	Treated water and drain
F	Cold, hot and treated water and drain
G	Cold and treated water and drain
H	Hot and treated water and drain
I	Drain only
J	Cold water only

Utility 2: Electrical

Code	Description
A	120 volt, conventional outlet
B	120 volt, special outlet
C	208/220 volt
D	120 and 208/220 volt
E	440 volt, 3 phase
F	Special electrical requirements (includes, but is not limited to emergency power, multiple power connections, etc.)
G	208/220 volt, 3 phase

Utility 3: Medical Gas (Provide operating pressures in accordance with NFPA 99)

Code	Description
A	Oxygen
B	Vacuum
C	Air, low pressure
D	Air, high pressure
E	Oxygen and medical air
H	Oxygen, vacuum and medical air
J	Vacuum and HP air
K	Medical air

Utility 4: Miscellaneous Gas

Code	Description
A	Steam
B	Nitrogen gas
C	Nitrous oxide
D	Nitrogen and nitrous oxide gas
E	Carbon dioxide gas
F	Liquid carbon dioxide
G	Liquid nitrogen
H	Instrument Air

Utility 5: Non-Medical Gas

Code	Description
A	Natural gas
B	Liquid propane gas
C	Methane
D	Butane
E	Propane
F	Hydrogen gas
G	Reserved
H	Acetylene gas

Utility 6: Miscellaneous

Code	Description
A	Earth ground
B	Lead lined walls
C	Remote alarm ground
D	Empty conduit with pull cord
E	Vent to atmosphere
F	Special gas requirements
G	Liquid gas requirements
H	RF/Magnetic shielding
J	Wall/ceiling support required
K	Empty conduit/pull cord & wall/ceiling support required
M	Earth ground and wall/ceiling support required
P	Lead lined walls and wall/ceiling support required
T	CAT 6 wire to nearest Telecommunications Room