

**APPENDIX 3B: STANDARDS****ANSI / EIA**

568-B.1 & 568-B.2 (CSA-0T529-M95) Commercial Building Telecommunications Cabling Standard – Parts 1 & 2;

568-B3 (CSA-T529-M95) Commercial Building Telecommunications Cabling Standard – Part 3;

569-B (CSA-T530) Commercial Building Standard for Telecommunications Pathways and Spaces;

606A (CSA-T528) Administration Standard for Telecommunications Infrastructure of Commercial Buildings; and

607B (CSA-527) Commercial Grounding and Bonding Requirements for Telecommunications;

TIA/EIA 526-7 and TIA/EIA 526-14 standards for Optical Power Loss measurement of single mode and multimode fibre cable plant;

TIA/EIA – 606-A Administration Standard for the Telecommunications Infrastructure of Commercial Buildings;

ANSIA/TIA/EIA – 607B (J-STD-607-A) Commercial Building Grounding and Bonding Requirements for Telecommunications;

ANSI/TIA/EIA-758-A Customer Owned Outside Plant Telecommunications Cabling Standard;

ANSI/TIA-1179 Healthcare Facility Telecommunications Cabling Standard and all referenced documents;

BICSI TDM, TCIM, NTS, OSP and WD manuals.

**ANSI/TIA**

ANSI/TIA-942-2 Telecommunications Infrastructure Standard for Data Centers;

ANSI/TIA TSB-162 Telecommunications Cabling Guidelines for Wireless Access Points.

**ANSI / ESNA American National Standard Practice for Lighting.**

IESNA RP 29-06;

**ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers)**

Handbooks (current): Fundamentals, Refrigeration, HVAC Systems and Equipment, HVAC Applications;

Design of Smoke Control Systems;

ASHRAE Guideline 12 Minimizing the Risk of Legionellosis Associated with Building Water Systems;

52.2: Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size;

55: Thermal Environmental Conditions for Human Occupancy;

62.1: Ventilation for Acceptable Air Quality;

90.1: Energy Efficient Design for New Buildings;

111: Practices for Measurement, Testing, Adjusting and Balancing of Building HVAC systems;

129: Measuring Air Change Effectiveness; and

135: Data Communication Protocol for Building Automation and Control Network;

170: Ventilation for Health Care Facilities

189.1 – Standard for the Design of High Performance Green Buildings

Guideline 0: The HVAC Commissioning process;

Guideline 1.1: HVAC&R Technical requirements for the commissioning process;

**ANSI / ASME (American National Standards Institute / American Society of Mechanical Engineers)**

A13.1 Visibility Standard (Pipe Labeling);

B16 Piping Component Standards;

B31 Pressure Piping Code;

B36 Piping Standards;

Z358.1: Emergency Eyewash and Shower Equipment;

Section IX: Welding Qualifications; and

Unfired Pressure Vessels;

**ASPE (American Society of Plumbing Engineers)**

Plumbing Engineering Design Handbook, Volumes 1 – 4;

**ASTM (American Society for Testing and Materials)**

A185-06 - Standard Specification for Steel Welded Wire Fabric;

A82/A82M-05 - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement;

ASTM C568-03 - Standard Specification for Limestone Dimension Stone;

ASTM C615-03 - Standard Specification for Granite Dimension Stone;

ASTM C503-05 - Standard Specification for Marble Dimension Stone;

ASTM C616-03 - Standard Specification for Quartz-Based Dimension Stone;

ASTM E917.24401-1 Life Cycle Cost Assessment Methodology; and

B88: Copper Piping;

**CAN ULC**

S524 Standards for the Installation of Fire Alarm Systems; and

S537 Standards for Verification of Fire Alarm Systems;

**CSA (Canadian Standards Association)**

A23.3-04 (R2010) – Design of Concrete Structures;

B651-95: Barrier Free Design;

C9-02 Dry Type Transformers;

C22.1 & C22.2 Canadian Electrical Code with Saskatchewan amendments;

C282 Emergency Electrical Power Supply for Buildings;

Z32.09 Electrical Safety and Essential Electrical System in Health Care Facilities;

Z317.5 Illumination Systems in Health Care Facilities;

Z318.5 Commissioning of Electrical Equipment and Systems in Health Care Facilities;

Z318.0-93: Commissioning of Health Care Facilities;

Z462-12 - Workplace Electrical Safety;

A23.4-09-Precast Concrete – Materials and Construction;

W186-M1990 - Welding of Reinforcing Bars in Reinforced Concrete Construction;

A370-04 - Connectors for Masonry;

A23.1-09/A23.2-09 - Concrete Materials and Methods of Concrete Construction /  
Methods of Test and Standard Practices for Concrete;

S832-06 – Seismic Risk Reduction of Operational and Functional Components (OFCS of  
buildings);

S478-95 Guideline on Durability of Buildings;

S413-07 - Parking Structures;

S16-09 - Design of Steel Structures;

S136-07 - Design of Cold Formed Steel Members;

S157-05 – Strength Design in Aluminum;

S304.1-04 - Masonry Design for Buildings;

Z317.1-09 Special requirements for plumbing installations in Health Care facilities;

Z314.7-03 Steam sterilizers for Health Care Facilities;

Z317.11-02 Area requirements for Health Care Facilities;

Z317-10.09 Handling of waste materials in Health Care Facilities and Veterinary Health  
Care Facilities

Z317.13 07 "Infection Control During Construction, Renovation, and Maintenance of Health Care Facilities";

CSA S832-06 Guidelines for Seismic Risk Reduction of Operational and Functional Components of Buildings;

B45 Series – 94: Plumbing Fixtures;

B51: Boiler, Pressure Vessel and Pressure Piping Code

B52HB: Mechanical Refrigeration Code;

B64: Series 94: Backflow Preventers and Vacuum Breakers

B125: Plumbing Fittings;

B139: Installation Code for Oil-Burning Equipment;

B149.1: Natural Gas and Propane Installation Code;

CAN/CSA B651-04 Accessible Design for the Built Environment;

Z305.1: Design of Medical Gas Systems

Z317-2-10: Special Requirements for Heating, Ventilation and Air-conditioning (HVAC) Systems in Health Care Facilities

#### **NFPA (National Fire Protection Association)**

10: Standard for Portable Fire Extinguishers;

13: Standard for Installation of Sprinkler Systems;

14: Standard for Installation of Standpipe and Hose Systems;

17: Standard for Dry-Chemical Extinguishing Systems;

20: Standard for the Installation of Stationary Pumps for Fire Protection;

54: National Fuel Gas Code

58: Liquefied Petroleum Gas Code

55: Compressed Gases and Cryogenic Fluids Code;

56: Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems

70B: Recommended Practice for Electrical Equipment Maintenance;

80: Standard for Fire Doors and Other Opening Protection

90A: Standard for Installation of Air Conditioning and Ventilation Systems;

92A: Standard for Smoke Control Systems Utilizing Barriers and Pressure Differences;

96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations;

99: Health Care Facilities Code

101: Life Safety Code;

214: Water Cooling Towers;

252: Fire Tests of Door Assemblies

664: Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities; and

701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

**USP Chapter <797> Pharmaceutical Compounding – Sterile Preparations;**

Canadian Society of Hospital Pharmacists Guideline –Sterile Preparation of Medicines: Guidelines for Pharmacies;

Model National Energy Code for Buildings;

**TIAC**

The TIAC Best Practices Guide

**IEEE**

802.1 series for Interworking, Security, Audio/Video Bridging and Data Centre Bridging;

802.3 series of Ethernet Standards;

802.11 series of Wireless Standards;

802.15 series of Wireless Standards; and

IEEE 519: Recommended Practice and Requirements for Harmonic Control in Electric Power Systems;

**NETA**

ATS International Electrical Testing Association (Acceptance Testing Specifications); and

MTS Standards for Maintenance Testing;

UL 1069 Hospital Signaling and Nurse Call Equipment;

**Other**

ECABC Seismic Restraint Standards Manual;

BICSI Telecommunications Distribution Methods Manual (TDMM);

BICSI 004 Information Technology Systems Design and Implementation Best Practices for Healthcare Institutions and Facilities;

Canadian Government 'Canadian Poisonous Plants Information System';

Canadian Standards for Nursery Stock;

Code Plus: Physical Design Components for an Elder Friendly Hospital, 2009

Saskatchewan Department of Highways and Transportation Standard Specification Manual;

TAC Geometric Design Guide;

Guidelines for Design and Construction of Health Care Facilities;

ICAO / Annex 14, Volume II;

American Conference of Governmental Industrial Hygienists;

New York State Office of Mental Health, Patient Safety Standards – Materials and Systems Guidelines.

Saskatchewan Noxious Weed Act and List ;

Saskatchewan Invasive Plant Species Identification Guide;

Door and Hardware Federations Technical Specifications DHF-TS-001: Door mounted anti-ligature devices for safety and security purposes: November 05.