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INFORMATION BULLETIN 2015-01

CAN/ULC-S101-14, 5th Edition of the Standard Methods of Fire Endurance Tests of Building Construction & Materials

Load Restriction Requirements when specified in ULC Fire Resistive Designs

To: Subscribers to ULC's Classification Service for Standard Methods of Fire Endurance Tests of Building Construction & Materials, CAN/ULC-S101-14, members of the ULC Advisory Council and others interested.

BXUVC - Fire Resistance Ratings	CCQUC -Floor Mat Materials
BYITC - Acoustical Materials	CCVWC - Foamed Plastic
BYWRC - Adhesives	CDEL C - Insulated Concrete Forms
BZGUC - Air Terminal Units	CDETC - Insulation, Rigid Roof
BZJZC - Batts and Blankets	CDHWC - Luminaires and Luminaire Assemblies Listed for Fire Resistance
BZYWC - Caulking and Sealants	CERZC - Mineral and Fibre Boards
CABSC - Ceiling Firestop Flap Assemblies	CEYDC - Nonmetallic Plumbing System Components Listed for Fire Resistance
CATXC -Coatings	CEYYC - Outlet Boxes and Fittings Classified for Fire Resistance
CAVCC - Intumescent Coatings, Thin-Film	CHIZC - Sheathing Materials
CAVNC - Mastic Coatings	CHPXC - Spray-Applied Fire Resistive Material
CAWCC - Protective Coatings	CHWXC - Steel Floor Units
CAWOC - Protective Coverings for Foamed Plastic	CIKVC - Steel Framing Members
CAZCC - Accessories for Coatings	CIYTC - Structural Cement-Fibre Units
CAZTC - Concrete Blocks	CIZQC - Structural Concrete Fibre - Reinforced Composite Systems
CBXQC - Fibre Reinforcement and Concrete Additives	CIZTC - Structural Components
CBZZC - Factory-Assembled Exterior Wall Panels	CIZZC - Structural Insulated Panels
CCETC - Fire Resistant Glazing Materials	CJMRC - Units, Partition Panel
CCJVC - Floor Access Doors	CJZCC -Vermiculite Aggregate
CCOXC - Floor-Topping Mixtures	CKNXC -Wallboard
	CLBVC - Wall and Partition Facings and Accessories

The issuance of this Information Bulletin is in response to various queries received by ULC concerning the effect of using ULC Fire Resistive Designs without considering the Load Restriction requirements when specified in the ULC Fire Resistive Designs.

ULC Fire Resistive Designs are published in ULC's Directory; Fire Resistance.

ULC Fire Resistive Designs are evaluated in accordance with standard, CAN/ULC-S101-14, Standard Methods of Fire Endurance Tests of Building Construction & Materials.

ULC Bulletin date June 14, 2006 provided the rationale for requiring a "Load Restriction" on ULC Fire Resistive Designs when a test assembly during the Fire Test is evaluated under a superimposed test load determined in accordance with Working Stress Design (WSD) principles versus the Limit States Design (LSD) principles. This Information Bulletin is in the context of the aforesaid ULC Bulletin. It should be noted that a Load Restriction may also be specified in a ULC Fire Resistive Design if the fire test is conducted under a superimposed test load less than the full specified test load determined in accordance with LSD principles.

Normally, during a fire test, the superimposed test load on an assembly evaluated in accordance with the LSD principles results in a higher test load than under WSD principles.



The purpose of this Information Bulletin is to clarify that an assembly fire tested with the higher (full specified) load determined under LSD principles would result in a lower fire endurance period when compared to the same assembly fire tested to a lower (full specified) load determined as per WSD. Therefore, ULC Fire Resistance Ratings are only applicable when the load restriction is taken into consideration.

The above information is also applicable to cUL Fire Resistive Designs.

Should you have any questions or comments pertaining to ULC certifications, please contact Mr. G. Abbas Nanji (Abbas.G.Nanji@ul.com) or Mr. Ahmad F. Mangou (Ahmad.mangou@ul.com).

Sincerely,

Underwriters Laboratories of Canada Inc.

A handwritten signature in black ink, appearing to read 'G. Paintal'.

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Regional Manager – Accreditations & Quality
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