

Lower Mainland Plumbing Code Committee



Minutes of the meeting of the Lower Mainland Plumbing Code Committee in
Meeting Room 2A, Burnaby City Hall, 4949 Canada Way, Burnaby, BC.
Thursday, March 1, 2018, 1:30 p.m.

Chairman:	Bob Kennedy	City of Coquitlam
Co- Chair:	James Siemens	City of North Vancouver

Present:	Ivo Tanner	RMOW
	Greg Snider	City of Surrey
	Rudy Steensland	City of Abbotsford
	Don Spindor	City of Port Coquitlam
	Edwin Ho	IAPMO
	Patrick Biro	IPEX
	Larry Scott	City of Port Moody
	Patrick Maguire	IPEX
	Lloyd Cheung	City of Vancouver
	Guy Gareau	City of White Rock
	Dale Pfaff	BCIT

(1) CALL TO ORDER:

The meeting was called to order by the Chairman at 1:30

(2) MINUTES OF MEETING:

A Motion was made to adopt the Minutes of the meeting of the February 1, 2018 by Greg Snider of Surrey and Seconded Guy Gareau of White Rock.
Motion Carried

(3) BUSINESS ARISING FROM MINUTES:

a) None

(4) NEW BUSINESS

- **System 15 Expansion Joints.** A photo of an installation where a System 15 expansion joint was installed in a 3" cast iron stack in a wood frame apartment building was shown and discussed. When using a non-combustible piping system the entire system must remain non-combustible except for the exceptions cited in B.C.B.C. 3.1.9.4. Sentences (4) & (5). Some other details by example, bathtub waste & overflow connections can also transition when the "approved listed assembly" for the firestop detail has been presented as part of the firestopping packing for the project. The manufactures representative of System 15 expansion joints has expressed that the product is not endorsed by the manufacture for use within non-combustible piping systems.
- **BCIC Interpretation File No: 12-0066 Dated November 21, 2017,** Vertical transition of combustible to non-combustible DWV pipe. A recent interpretation was presented and discussed regarding transitions from non-combustible pipe to combustible and vice versa when penetrating a horizontal fire separation. While firestop listing cUL F-B 2009 does show combustible piping penetrating a slab and then transitioning to non-combustible piping it is only taking into consideration what is happening in the fire compartment below. If the stack in the fire compartment above is to penetrate additional fire separations above then the installation would be compromised by potentially allowing fire and smoke to enter the piping system from within the fire compartment containing the transition.
- **Conformance to Standards 2.2.2.2.** A veterinarians wet treatment table (stainless steel examination table sloped to sink end c/w faucet and hand held spray) from the US was show that had no "Certification" of any kind marked on the product. The manufacture had been contacted and admitted that they had in fact not put the product through any type of listing / certification process as they were unsure as to what to class the product as. While there is no question that the table meets the definition of a fixture, it comes down to Conformance to Standards,
 - **2.2.2.2.(5)** Every stainless steel fixture shall conform to ASME A112.193/CSA B45.4 "Stainless Steel Plumbing Fixtures"
 - Unfortunately the key word in the above sentence is "*conform*", not "listed or certified to"
 - To ensure "conformance" the particular installation involving this unit required a full audit Report from QAI addressing 2.2.2.2. plus the associated Intent Statements and Objective Statements. (the unit required additional fastening to the cabinet and stainless steel welding of the interior seams to the basin had to be redone before conformance was granted)
 - Our current Code speaks to "Conformance". The Canadian Advisory Council on Plumbing, CACP, has been lobbying the National Research Council, NRC, which ultimately would end up at the National Building Code, NBC, doorstep for code language changes from "conform" to "Listed / Certified"
 - Without Code language changes the door is open to products not bearing approvals where you are required to seek "conformance" by other means.
- **Non-Potable Water Systems, BCAB #1799 Re: Non-Potable Water Systems / Rainwater Harvesting System,** The system under discussion was not the one the appeal was based on but one very near identical. Rainwater harvesting collected from the roof for toilet flushing and garden irrigation purposes. *You cannot supply a fixture with both non-potable and potable water supplies.* The W/C could be fed with the non-potable from the storage tank and the tank topped up with potable when low. The irrigation fed from the tank, (underground). The potable fill to

the tank is air gapped and the home has premise isolation on the water service because of the secondary non-potable water system.

(5) OTHER BUSINESS:

- **Waterpipe Sizing**, Manufacturers Representative informed the committee members that Table A-2.6.3.1.(2)F is for sizing Average Pressure Loss based on copper I.D. and claims the sizing does not work for sizing of PEX water pipe. When using the 1.5 multiplier and the Table you would be exceeding the 8' per / sec manufactures limits.
 - **When Calculating Pressure Available for Friction Loss**, and using insert fittings on PEX piping you need to use a multiplier of 2.6 to account for the inserts, (as per item b(ii) on page 184
 - If after calculating your pressure losses for your system you have less than the required 2.6 kPa then you must design your system according to a detailed engineering design method.
 - Some manufactures connect their systems by expanding the pipe or using outside fittings, leaving the pipe with full internal I.D. flow capacity. The 1.5 multiplier or one slightly above may be appropriate in those cases.
 - What is shown in the Code is a generic sizing method for all brands of piping.
- **Fats, Oils and Greases, F.O.G.s.** A question of how different areas dealt with Business Licenses Assessments, in particular restaurants and other establishments where grease traps are required. There may be no grease traps present or current ones are under sized with upgrades needed. 2.4.4.3.(1) Simple states that fixtures producing F.O.G.s. in a public kitchen, a restaurant, care and or detention occupancy shall discharge through a grease interceptor.
 - A-2.4.4.3.(1) Information on the design and sizing of grease interceptors can be found in ASPE 2008 "Data Book- Volume 4, Chapter 8, Grease Interceptors"
 - Alternatively those jurisdictions in the Lower Mainland under MetroVan can look at "Greater Vancouver Sewerage and Drainage District, Food Sector Grease Interceptor Bylaw No. 268, 2012"

http://www.metrovancouver.org/boards/Bylaws1/GVSDD_Bylaw_268.pdf

(6) NEXT MEETING:

The next meeting of the Committee will be held on Thursday, April 5, 2018, 1:30 p.m. in the **Clerks Meeting Room Burnaby City Hall, 4949 Canada Way, Burnaby, BC.**

(7) ADJOURNMENT:

The business of the meeting having been concluded, Larry Scott moved that the meeting be adjourned and Ivo Tanner seconded. The Chairman adjourned the meeting at 3:45 PM