## SUDS ZONES and AUXILIARY STACKS

## **Ontario Building Code** Ш 7.4.2.1. ROOF Vent (4) Where a change in direction of more Terminal Header 100mm than 45° occurs in a soil or waste pipe that 168 F.U. (62m)serves more than one clothes washer, and in Stack Vent 30mm 50mm which pressure zones are created by detergent 168 F.U Domestic 30mm Clothes suds, no other soil or waste pipe shall be Washer Box 40mm 20th FLR ВАТН connected to it within a length less than, Header 75mm 168 F.U (a) 40 times the nominal pipe size of the soil 40mm 75mm or waste pipe or 2.44 m maximum vertical, whichever is less, before Header 75mm changing the change in direction, and (3m) Domestic (62m) Clothes (b) a10 times the *nominal pipe size* of the Washer Box 30mn 40mm 5th FLR nominally horizontal soil or waste pipe after changing the change in direction. Header 40mm 75mm 75mm 168 F.U (5) Where a vent pipe is connected into the 40mm (62m)a suds pressure zone referred to in Sentence Clothes (4), no other vent pipe shall be connected to Washer Box 10mm 4th FLR Vent Stack that vent pipe within the height of the suds 75mm pressure zone. (51m)75mm (See Note A-7.4.2.1.(2) and (5).) Stack Vent 75mm Domestic **Auxiliary Stacks and Auxiliary Connections**, -30mm (53m)Clothes Washer Box Is a new stack with or without an additional ватн 40mm 3rdFLR connection discharging downstream of a soil or Branch Vent waste stack serving fixtures in a high-rise building. 75mm 75mm 50mm The connection of an Auxiliary Stack or an Auxiliary 24 F.U. (14m)40mm Connection will prevent; (8m) Domestic Soil Clothes Stack Washer Box 1. Negative air pressure causing trap seal loss, 100mm 30mn 40mm 2nd FLR 2. Back Pressure causing the trap seal to be 136 F.U pushed up into the fixture, or Branch Vent 40mm 75mm 40mm 3. Sudsing causing soap suds to push through 16 F.U. (14m)the trap seal resulting is property damage. 40mm (11m) Domestic 75mm Auxiliary Clothes Soil Stack Washer Box 24 F.U. 10mm 1st FLF 30m 40mm 100mm Stack 8m **Domestic** 40mm 75mm 4m SUDS ZONE Clothes **Upstream** Washer Box (14m)-Domestic 75mm Stack Clothes 30mm 40mm 3m SUDS ZONE Washer Box Upstream 30mm 40mm **BSMT** 100mm **⊲**–1m–⊳ C/O **Auxiliary Connection** 40mm 75mm 75mm / 8 F.U. 100mm Drain 1m SUDS ZONE **Downstream** Ontario Building Code (7.4.2.1.(2) a.k.a. the AREA OF TURBULENCE).

- **7.4.2.1.(2)** The connection of a soil or waste pipe to a nominally horizontal soil or waste pipe or to a nominally horizontal offset in a soil or waste stack shall be respectively at least 1 500 mm measured horizontally from the bottom of a soil or waste stack or from the bottom of the upper vertical section of the soil or waste stack that,
  - (a) receives a discharge of 30 or more fixture units, or (b) receives a discharge from fixtures located on 2 or more storeys.