

Aug 29, 2018

Christine Valdes
 Senior Underwriter
 National Home Warranty
 #1100-1125 Howe Street Vancouver BC V6Z 2Y6

Dear Christine,

RE: Sound Attenuation Between Units

As per BCBC 9.11.2.1 Minimum Sound Transmission Class Ratings between dwelling units must be separated by a wall with a sound transmission rating of at least 50, measured in accordance with Subsection 9.1.11.1

All units have been designed to far exceed the minimum ratings by increasing the cavity depth by using double 2"x6" insulated party walls with type 5/8 x gypsum. Total cavity depth will be 336mm.

Reference:

Construction Technology Update No. 1 – NRC -CNRC

Basic Wall Construction tested

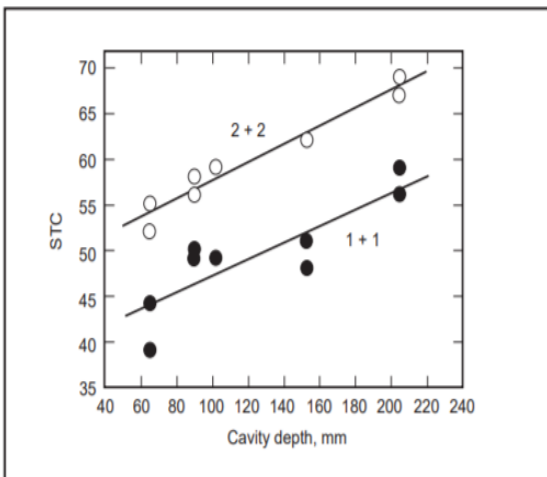
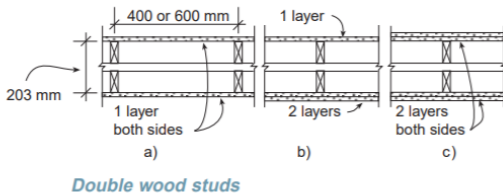


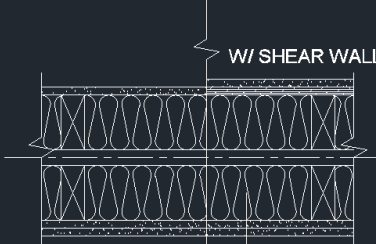
Figure 2. Effect of increasing cavity depth in walls constructed (a) with one layer of 15.9-mm Type-X gypsum board on each side (1x1) and (b) with two layers of the same gypsum board on each side (2x2). Different cavity depths were obtained by using 64-mm and 92-mm non-load-bearing steel studs; 89-mm wood studs with resilient metal channels and a 102-mm cavity; staggered wood studs with resilient metal channels and a 153-mm cavity; and double wood studs with a 203-mm cavity. The amount of sound-absorbing material in the cavity varied for each stud system. Shallower wall cavities accommodated proportionately thinner glass fibre batts.

Party Wall Assemble included in Construction drawings for 4602 20th Street:

W2

TYPICAL LOADBEARING PARTY WALL
(1 HOUR FRR, 57 STC, BCBC A9.10.3.1.A W13a):
5/8" TYPE 'X' GWB
SHEAR WALL SHEATHING IF REQUIRED BY STRUCTURAL
2x6" STUDS @ 24" O/C (CONFIRM WITH STRUCTURAL)
3 1/2" SOUND BATT INSULATION
1" AIR SPACE
2x6" STUDS @ 24" O.C. (CONFIRM WITH STRUCTURAL)
3 1/2" SOUND BATT INSULATION
LAYERS 5/8" TYPE 'X' GWB

NOTE: APPLY CONTINUOUS ACOUSTICAL SEALANT TO BASE PERIMETER OF WALLS, AROUND ELECTRICAL AND ANY OTHER OPENINGS, AND AT THE JUNCTION OF INTERSECTING PARTITIONS.
MEMBRANE IS NOT TO BE LOCATED WITHIN THE AIR SPACE AS IT WILL NEGATIVELY EFFECT THE ACOUSTIC PERFORMANCE OF THE PARTY WALL.



NOTE: WHERE SHEAR WALL SHEATHING IS REQUIRED ON INTERNAL FACE OF WALL MAINTAIN 1" GAP

Yours truly,



Kevin Weslowski ASCT
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