Safety Codes Permits and Inspections

 $3^{rd}$  Floor, 10111 - 104 AVE NW

TO: City of Edmonton



## SOUND SEPARATION BETWEEN SIDE-BY-SIDE DWELLING UNITS

Semi-Detached House and 3-4 unit Row House. See NBC-2019(AE):B:9.11 for detailed requirements Sound Separation within a House with Secondary Suite

DATE:

## COMPLETE AND SUBMIT THIS LETTER WITH THE BUILDING PERMIT APPLICATION

Edmonton, AB T5J 0J4 RE: PROJECT ADDRESS (or LEGAL DESCRIPTION)					
Apparent	Sound Trar	nsmissic	STC) is a rating of sound isolation of a building wall on Class (ASTC) quantifies sound transmission directly adjoining construction. Higher ratings indicate better	through separa	nting
SELECT ↓	Sound separation from another dwelling and other spaces in which noise may be generated will be provided by the following:				
0	STC 50+ Assembly with Adjoining Construction per <u>Tables 9.10.3.1A &amp; -B</u> & footnotes, and 9.11.1.4.				
		1		Fire-Resistance Rating <sup>(2)(3)</sup>	
	SELECT	Wall #	Shortened Description from NBC(AE) Table 9.10.3.1A(1)	Load-bearing	Non-Load-bearing
	0	W13a	2 rows 2x4@16oc or 24oc on separate 2x4 plates set 1" apart With <b>3½"</b> batts <b>each</b> side <sup>(6)(10)</sup> <b>1 layer of ¾"</b> Type X gypsum board <sup>(7)</sup> <b>each side</b>	M	M M OG000044A
				1h	1h
		W14	2 rows 2x4@16oc or 24oc on separate 2x4 plates set 1" apart  2 layers gypsum board one side;  1 layer gypsum bd other	M	M M GG00045A
		W14a	3½" batts each side(6)(10) / all %" Type X gypsum board(7)	1h	1h
	0	W14c	3½" batts <b>one</b> side <sup>(6)(10)</sup> / <b>all</b> %" Type X gypsum board <sup>(7)</sup>	1h	1h
	0	W15	2 rows 2x4@16oc or 24oc on separate 2x4 plates set 1" apart <b>2 layers gypsum board each side</b>	M	M M M M
		W15b	3½" batts each side(6)(10) / all ½" Type X gypsum board(7)	1 h	1½ h
	0	W15e	3½" batts <b>one</b> side <sup>(6)(10)</sup> / <b>all ½"</b> Type X gypsum board <sup>(7)</sup>	1 h	1½ h
	0	W15h	No batts / all 1/2" Type X gypsum board <sup>(7)</sup>	1 h	1½ h
	Shortened footnotes (See NBC-(AE) for complete footnotes and Table contents)				
	(2) FRR and STC ratings for 2x4, or 2x6 with 5½" batts; also to HRA-finger-joined lumber (See A-9.23.10.4.(1).) (3) For all fire-resistance ratings, the given spacing for framing is a maximum value. (4) STC per installation details required for gypsum board in CSA A82.31-M. Assemblies with STC of 50 or more require acoustical sealant around electrical boxes and other openings, and at the junction of intersecting walls and floors. Gasket-flanged boxes may be exempted. (5) There can be no visible cracks/ voids on surfaces. (6) Sound absorptive material includes fibre processed from rock, slag, glass or cellulose fibre filling at least 90% of the cavity thickness but NOT overfilling to point of causing outward pressure on the finishes. (7) ½" regular , ½" Type X, ¾" Type X gypsum board must conform to 9.29.5.2.; fastener type/spacing per 9.29.5. or CSA A82.31-M. Surface gypsum board layer on both sides of the wall must have its joints taped and finished. (8) Absorptive material required for the higher fire-resistance rating is rockwool; mass of at least 4.8 kg/m² for 5½" thickness or 2.8 kg/m² for 3½" thickness in the stud cavities on both sides and completely filling the wall cavity,				
0	Prescriptive method STC50+ derived via NRC Soundpaths or equivalent submitted with application				
0	Acoustical Engineer Design for ASTC47+ <b>submitted with application</b> per NBC(AE): B:5.8.1.4. / 5.8.1.5				
0	Acoustical Engineer As-Built Test for ASTC47+ <b>to be submitted</b> prior to the final building inspection				
I will notify the Building Permit issuer if the construction intention is modified during the project.					
Type nan	ne to sign O	R print	form and sign		
SIGNATURE OF BUILDING PERMIT APPLICANT PRINT NAME					