Sound Transmission Design Declaration

City of Kitchener, Building Division
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Kitchener ON N2G 4G7
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Building Email: building@kitchener.ca

A building containing more than one dwelling unit, or a dwelling unit(s) and a non-residential unit(s), require the dwelling unit(s) to be constructed to control airborne noise per the OBC. This form is to be completed by the Designer taking responsibility for the sound transmission design of the proposed building.

Project Address: Permit #:

Select the sound transmission design strategy that the building has designed in accordance with:

Design Option 1:

◯ Minimum STC rating of 50 demonstrated through,

- the construction of separating assemblies conforming to Table 1 or 2 of MMAH Supplementary Standard SB-3 and adjoining (flanking) construction conforming to 9.11.1.4., and / or
- the construction of separating assemblies tested in accordance with ASTM E90 and adjoining (flanking) construction conforming to 9.11.1.4.

I confirm that detailed wall and floor schedules have been provided with the permit submission. Each assembly specifies the STC and the testing source (i.e. the SB-3 assembly number (e.g. F13c), and assemblies tested to ASTM E90 have referenced and provided the applicable test literature).

Select <u>one</u> of the following additional options, if the above Design Option 1 was selected:

☐ Flanking details have <u>not</u> been included with design documentation. I have provided the STC information described above, and I will complete on-site inspections.

Where this method of compliance is selected, I confirm that I am aware and knowledgeable of flanking assemblies and details as described in the OBC, and that the proposed design is in accordance with the OBC. In addition, since flanking detailing has not been included with the design documentation, I confirm I will complete on-site assessments to confirm the construction is in general conformance with the flanking detailing required for the sound transmission design.

☐ Flanking details <u>have</u> been included with design documentation. I have provided the STC information described above, and general details of all flanking conditions that occur for the proposed design have been provided.

Where this method of compliance is selected, I confirm that I am aware and knowledgeable of flanking assemblies and details as described in the OBC. To the best of my knowledge all applicable flanking detail scenarios have been included with the permit documentation, and the proposed sound transmission design is in general accordance with the requirements of the OBC.

Design Option 2:

◯ Minimum ASTC rating of 47 for separating assemblies and adjoining construction using the results from measurements carried out on-site during construction in accordance with ASTM E336 as per OBC Div. B, 5.8.1.2.(2)(a).

I confirm that testing will be carried out on site during construction and acoustic engineer stamped report confirming compliance with ASTC will be provided to the building inspector prior to occupancy inspection.

Design Option 3:

◯ Minimum ASTC rating of 47 calculated in accordance with the detailed method described in OBC Div. B, 5.8.1.4. derived through NRC soundPATHS or equivalent sources.

I confirm that detailed wall and floor schedules have been provided with the permit submission. Each assembly specifies the STC, the STC source (i.e. soundPATHS) and a copy of each are provided with the permit submission.

Design Option 4:

◯ Minimum ASTC rating of 47 calculated in accordance with the detailed method or the simplified method described in OBC Div. B, 5.8.1.4./ 5.8.1.5.

I confirm that an acoustic engineer stamped report is provided with the permit submission.

Declaration of Designer taking responsibility for the sound transmission design:

I, declare that:

1. The information contained in this form and related documentation is true to the best of my knowledge.
2. I have reviewed and take responsibility for the design work relating to sound transmission for the referenced building.
3. The information provided and sound transmission design is in general conformance with the Ontario Building Code.

Signature of Designer taking responsibility for the sound transmission design Date

BCIN (if applicable)