

# BAUCO® Plus II

## Acoustic Testing Overview

BAUCO® commissioned 3rd party acoustic testing by The University of Alberta Mechanical Engineering Acoustics and Noise Unit (MEANU). Testing was carried out according to the ASTM E90 testing procedure, which tests sound transmission loss in one-third octave bands within the human audible range. From this data STC rating was derived according to ASTM E413. A detailed test report available upon request.

Two test configurations were performed.

**Wall configuration:** The access panel was installed into an acoustically rated partition (STC-52). The panel was installed to one side of the partition, with the other side of the assembly remaining intact. This is representative of an acoustically rated wall between rooms.

**Ceiling configuration:** The access panel was installed to an acoustically rated partition with the opposing side of the partition removed to emulate a ceiling assembly.

The ratings observed were as follows:

<u>Test wall without access panel installed</u>	- STC 52
<u>Wall with access panel with standard drywall inlay</u>	- STC 49
<u>Wall with access panel with acoustic drywall inlay</u>	- STC 50
<u>Wall with access panel with double layer standard inlay</u>	- STC 49
<u>Ceiling with access panel with standard drywall inlay</u>	- STC 28
<u>Ceiling with access panel with acoustic drywall inlay</u>	- STC 31
<u>Ceiling with access panel with double layer standard inlay</u>	- STC 30

In walls, the BAUCO® Plus II access panel demonstrate superior acoustic properties, with only a 2-3 point reduction in the STC rating of the partition. In both wall and ceiling applications, the acoustic drywall inlay is more effective than the standard drywall double layer inlay.