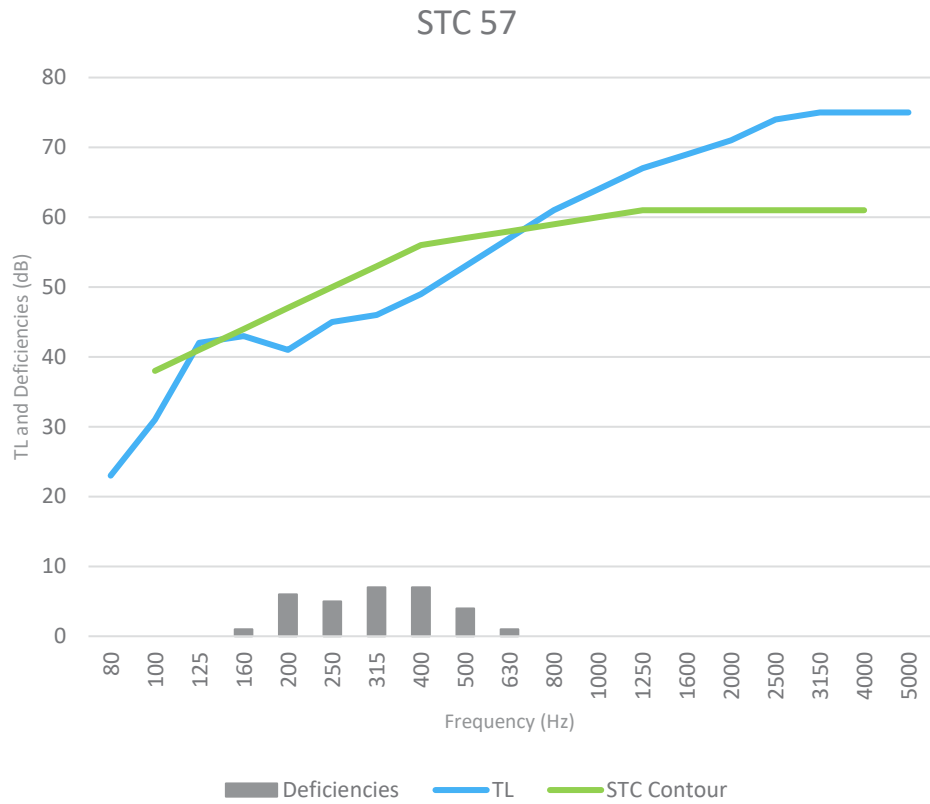


Acoustic Data

| | | | |
|----------------|--|--------------|----------------|
| Test Site: | National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6 | Test Number: | NRC TLA-04-035 |
| Assembly Type: | Wall | Test Date: | 8/05/2004 |
| Method: | ASTM E90-09 | Report Date: | 8/05/2004 |

| Frequency (Hz) | TL (dB) | Deficiencies (dB) |
|---------------------------|---------|-------------------|
| 80 | 23 | |
| 100 | 31 | |
| 125 | 42 | |
| 160 | 43 | 1 |
| 200 | 41 | 6 |
| 250 | 45 | 5 |
| 315 | 46 | 7 |
| 400 | 49 | 7 |
| 500 | 53 | 4 |
| 630 | 57 | 1 |
| 800 | 61 | |
| 1000 | 64 | |
| 1250 | 67 | |
| 1600 | 69 | |
| 2000 | 71 | |
| 2500 | 74 | |
| 3150 | 75 | |
| 4000 | 75 | |
| 5000 | 75 | |
| Total Deficiencies | | 31 |



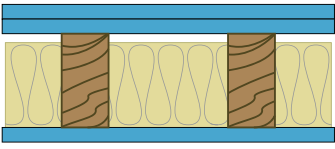








Assembly Mass

| Building Element | Mass lb (kg) | Surface Weight PSF (kg/m ²) |
|--------------------------------|----------------------|---|
| 5/8" QuietRock® 530 | 264.6 (120.0) | 2.76 (13.45) |
| 2"x4" wood studs spaced 24" oc | 80.9 (36.7) | 0.84 (4.10) |
| 3-1/2" glass fiber insulation | 17.6 (8.0) | 0.18 (0.90) |
| 5/8" QuietRock® 530 | 263.5 (119.5) | 2.74 (13.40) |
| 5/8" QuietRock® 530 | 264.2 (119.8) | 2.75 (13.43) |
| Total | 890.8 (404.0) | 9.27 (45.28) |

Test Methods

Test methods follow the published standards listed below. All values derived for single-direction transmission loss measurements.

ASTM E90-09: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
ASTM E413-16: Classification for Rating Sound Isolation

| Design Details | Description | Acoustical | Fire |
|---|--|--|----------------------------------|
| <p>PGD-02-10-070</p>  | <ul style="list-style-type: none">  2" Type S drywall screws spaced 16" o.c. (for fire 1-5/8" screws spaced 12" o.c. in the perimeter and 8" o.c. in the field).  Face layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  2" Type S drywall screws spaced 16" o.c. (for fire 1-5/8" screws spaced 12" o.c. in the perimeter and 8" o.c. in the field).  Base layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  2 x 4 wood studs 24" o.c.  3-1/2" glass fiber insulation in stud space.  Opposite side one layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  2" Type S drywall screws spaced 16" o.c. (for fire 1-5/8" screws spaced 12" o.c. in the perimeter and 8" o.c. in the field). | <p>STC 57 NRCC TLA-04-035</p> | <p>1 Hour UL U309</p> |
| <p>6" Thick, 9.7 lb/ft², Load Bearing.</p> | <p>Vertical joints staggered all layers, and on opposite sides.</p> | | |