

← Acouso Playground

FREE ROOM ACOUSTICS TOOL

Free reverberation time calculator

Estimate RT60 across six octave bands using Sabine or Norris-Eyring. Build a simple room, assign editable finishes, add acoustic treatment, and compare the response immediately.

ROOM EDITOR

Assign finishes and treatments by surface

Everything you create stays in this browser tab for this visit only. Leaving the page or resetting restores the starting room.

Metric Imperial Reset explorer

Materials

Create

Select a material, then choose Apply on a surface. You can also drag the card onto it.

All Finish Acoustic treatment

car

Heavy carpet on concrete

FINISH

NRC

0.30

1 surface

Heavy carpet on underlay

FINISH

NRC

0.55

Room surfaces

Each surface has one finish and up to one treatment. You'll confirm the treatment area before it is applied.

Selected: Heavy carpet on concrete

Surface	Area	Finish	Treatment	Action
Ceiling	104.5 m²	☐ Concrete or terrazzo	☐ Heavy velour, draped 104.5 m² Remove	Apply selected
North wall	33.0 m²	☐ Metal cladding	None	Apply selected
East wall	28.5 m²	☐ Metal cladding	None	Apply selected
South wall	33.0 m²	☐ Metal cladding	None	Apply selected
West wall	28.5 m²	☐ Metal cladding	None	Apply selected



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Heavy carpet on concrete assigned to floor. Existing treatment preserved.

LIVE ESTIMATE

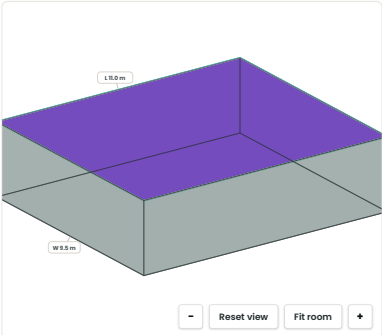
Room reverberation

Room view

Room dimensions

Length (M) Width (M) Height (M)

11 9.5 3



Drag away from the dimension labels to orbit. Drag the L, W, or H label along its arrow to resize, or focus a label and use the arrow keys. Scroll to zoom; use Fit room after large geometry changes. Double-click a face or select a surface row above. Treatment coverage expands uniformly from the centre for illustration; the calculation uses area, not displayed placement.

Calculation method

Sabine Norris-Eyring

Indicative target

Classroom

0.6 s

Room volume

313.5 m³

Total surface area

332.0 m²

Baseline

1.75 s

500 Hz-1 kHz mean

With treatments

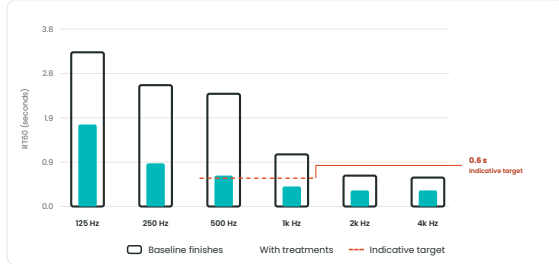
0.54 s

500 Hz-1 kHz mean

At or below the indicative target.

RT60 by octave band

Computed using 1m: the arithmetic mean of the 500 Hz and 1000 Hz octave-band results, following the AS/NZS 2107 convention. The reference is indicative only, not a compliance result.



125 Hz 3.27 s → 1.74 s 250 Hz 2.57 s → 0.92 s 500 Hz 2.39 s → 0.66 s 1k Hz 1.11 s → 0.42 s 2k Hz 0.65 s → 0.34 s 4k Hz 0.61 s → 0.34 s

Take room analysis into Revit

Acouso-ROOM connects acoustic materials and results to rooms in your live project model.

Explore Acouso-ROOM

Start free trial