



Privacy Recessed Light Covers

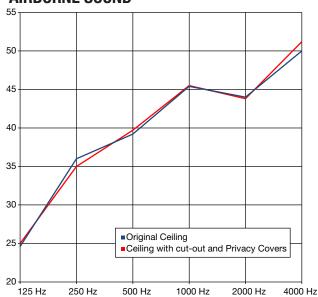
Transmission Loss Sound Testing

Privacy Recessed Light Covers have been tested to determine the change in ceiling noise blocking capabilities when can lights are added to the ceiling. A gypsum board ceiling was constructed and tested for STC (airborne sound blocking) and IIC (footstep noise blocking). The sound blocking results are listed below as Original Ceiling.

In the test lab a typical floor system with plywood floor, trusses, insulation and drywall ceiling is built that measures 16' x 12'. The first test is with no penetrations, the second was done with nine 6" can lights and Privacy Recessed Light Covers.

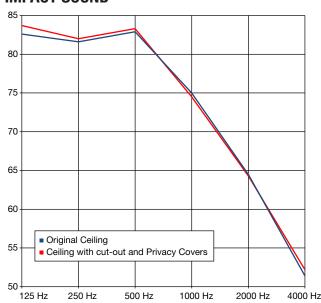
As the data below demonstrates the STC (airborne sound blocking) is actually better with the can light and cover except at 125 Hz (-.6 decibel) and 250 Hz (-.2 decibel). The IIC (footstep blocking) was better at every frequency except 100 Hz (-.5 decibel). The small drops in performance would not be noticeable without a sound level meter.

AIRBORNE SOUND



	Original Ceiling	Ceiling with cut-out and Privacy Covers
125 Hz	24.6	25.0
250 Hz	36.0	35.0
500 Hz	39.2	39.7
1000 Hz	45.4	45.5
2000 Hz	44.0	43.8
4000 Hz	50.0	51.2

IMPACT SOUND



	Original Ceiling	Ceiling with cut-out and Privacy Covers
125 Hz	82.6	83.7
250 Hz	81.6	82.0
500 Hz	82.9	83.3
1000 Hz	75.0	74.5
2000 Hz	64.5	64.3
4000 Hz	51.4	52.2

CONCLUSION

In summary you can install can lights, using Privacy Recessed Light Covers and keep the sound rating of your floor/ceiling the same. This is particularly important when you collaborate with us to create a luxury rated floor/ceiling, as previously there was no effective, simple option to protect the sound ratings when recessed lights are used.