Abatement of Nuisances Regulations (Unreasonable Noise), 5750-1990

By the power vested in me under sections 5, 16 and 18 of the Abatement of Nuisances Law, 5721-1961, I hereby make the following regulations:

Definitions

1. In these regulations –

   “Day” – from 06.00 hours until 22.00 hours in any 24 hour period;

   “Night” – from 22.01 hours until 05.59 hours the next day in any 24 hour period;

   “A’, ‘C’ or ‘L’ scales” – the weighted sound levels defined in accordance with IEC standard;

   “IEC standard” – standard no. 651 of the International Electrotechnical Commission (IEC) of 1979;

   “dB(A)”, “dB(C)” or “dB(L)” – noise measurement calculated on A, C or L scales;

   “1/3 octave band center frequencies” – noise frequencies defined in accordance with standard number 266 of the International Organization for Standardization (ISO) of 1965 (henceforth – ISO standard);

   “Noise level” – the noise level specified in Regulation 3;

   “Equivalent noise level” – the variable noise level calculated as follows:

   \[
   L_{Aeq, T} = 10 \log \left[ \frac{1}{t_2 - t_1} \int_{t_1}^{t_2} \frac{P_{eq}^2(t)}{P_0^2} dt \right]
   \]
For this matter, “LAeq, T” means the equivalent continuous A-weighted sound pressure level over a specified time period T where t1 is the start time for measurement and t2 is the end time for measurement;

“Lg” – logarithm to the base of 10;

“Po” – reference sound pressure (20 μPa)

P(A)(T)” – “A” scale momentary sound pressure;

“Building” – within its meaning in the Planning and Building Law, 5725-1965 (henceforth – Planning and Building Law);

“Structure A” – a building used as a hospital, sanatorium, convalescent home, senior citizens home or school;

“Structure B” – a building in a residential area planned according to the Planning and Building Law;

“Structure C” – a building in an area whose lands are used for residential purposes and one of the following purposes: commerce, small scale production, entertainment;

“Structure D” – a residential apartment in an area whose lands are used for industry, commerce or small-scale production purposes;

“Structure E” – a building used for industry, commerce or small scale production purposes in an area whose lands are used for industry, commerce or small scale production purposes;

“Measurement mode” – “slow”, “fast” or “peak”, as the case may be, or modes with identical meaning noted in a noise meter in another language;

“Background noise” – noise caused by the totality of all noise sources other than the noise from the source of interest;

“Dominant noise tone” – noise with dominant tones whose measurement in dB(L) for 1/3 octave band with a center frequencies, displays a band i measured noise level that exceeds the arithmetic average of the noise levels of the two adjacent i-1 and i+1 bands by: 15 dB – with a frequency from 25 to 125 Hertz;
8dB – with a frequency from 160 to 400 Hertz;
5dB – with a frequency from 500 to 10,000 Hertz;
Provided the i band measured noise level exceeds each one of the levels of the two adjacent i-I and i+I bands;

“Impulse noise” – a suddenly appearing noise, quickly fading and of short duration, usually under one second; such as: blasts and weapon firing noises or any other noise which, when measured, exhibits a difference of 20dB and over between two readings of maximum noise levels, measured in dB(L), when “peak” or “slow” mode is selected on the sound level meter;

“Infrequent blast noise” – noise caused by a blast and to which the following apply:
   (1) Occurs at a frequency which does not exceed four time a week;
   (2) Takes place in the hours after sunrise and before sunset;

“Noise inside a building” means a noise originating from the building in which the measurement is conducted;

“Total measured noise” – noise of the source including background noise.

Unreasonable noise
2. Unreasonable noise, for the purpose of this Law, is any of the following:
   (1) noise whose total duration in the day is as specified in column A of the First Schedule, and whose measured level as specified in regulation 5 exceeds the value specified for each of the structures in the day row in column B of that Schedule;
   (2) noise whose total duration in the night is as specified in column A of the First Schedule, and whose measured level as specified in regulation 5, exceeds the value specified for each of the structures in the night row in column B of that Schedule;
   (3) infrequent blast noise measured in accordance with regulation 5(c), whose level exceeds the specified value for each of the structures in the day row of column B of the First Schedule.

Determining the noise level
3.
   a) The noise level for the purpose of regulation 2(1) and (2), is one of the following:
      (1) an equivalent noise level, taking into account the contribution of background noise as specified in regulation 6;
(2) an equivalent noise level as specified in paragraph (1), with the addition of 5dB to a dominant noise tone or impulse noise;
(3) an equivalent noise level as specified in paragraph (1), with the addition of 5dB to a dominant noise tone or impulse noise;
(4) the higher among equivalent noise levels, measured inside a building using both methods, as specified in regulation 5(b), following background noise compensation.

b) For the purpose of determining the noise level under subregulation (a)(2), dominant noise tone or impulse noise of a duration shorter than the total measured noise duration shall be deemed as an equivalent noise level of one of the following durations:
(1) the total duration of measured noise;
(2) the duration of the dominant noise tone or impulse noise event only, with the addition of 5dБ.

c) Noise level for the purpose of regulation 2(3) is the maximum infrequent blast noise level, measured as specified in regulation 5(c).

Integrating Sound Level Meter
4. Measurement of noise level shall be conducted by means of an Integrating Sound Level Meter of type 0, 1 or 2, in accordance with the requirements of IEC standard.

Manner of noise measurement
5. a) Measurement of noise for the purpose of regulation 2(1) and (1) shall be conducted as follows:
(1) location of measurement –
   a. in a residential apartment – in rooms in which persons generally reside;
   b. in a location other than a residential apartment – in rooms in which persons generally reside;
(2) conditions of measurement –
   a. in the center of the room and at a distance of at least one meter from any wall and other obstacle;
   b. at a height of between 120 cm and 150 cm from the floor;
   c. while doors and windows of the room which face toward the balcony and outward are wide open and the internal doors facing inward are closed;
   d. the microphone of the sound level meter’s shall be so set as to allow the device to measure a maximum reading;
(3) a. The sound level meter shall be calibrated shortly before conducting the measurement in accordance with manufacturer’s directions; immediately following the measurement, a calibration
test shall be performed; when the sound level meter displays a
difference of 1dB or more between meter readings taken at the
time of calibration before the measurement and the calibration
test following the measurement, the measurement must be
repeated;

b. The sound level meter shall be in working order and shall be set –
   1) in accordance with manufacturer’s directions;
   2) to “fast” mode, and when “fast” mode is not available – on
      “slow” mode;
   3) to “A” scale;
   4) the duration of measurement shall be for a reasonable period
      of time in accordance with the circumstances, and shall not be
      less than 10 seconds.

b) for the purpose of regulation 2(1) and (2) – when the noise is inside a
   building - the noise measurement shall be conducted inside a building as
   specified in the above subregulation (a) and an additional measurement shall
   be taken with the doors and windows of the room facing the balcony and
   outward – closed.

c) noise measurement for the purpose of regulation 2(3) shall be conducted as
   follows:
   (1) the sound level meter shall be placed outside the building about 7 meters
       away from it, facing the source of noise, and shall be set to “slow” mode
       and “C” scale;
   (2) if “C” scale is not available in the sound level meter, it shall be set to
       “peak” mode and frequency response “L” scale.

d) the background noise measurement shall be conducted, as far as possible, as
   stated in subregulation (a), and where not applicable – according to the
   professional discretion of the person conducting the measurement and in
   accordance with directions of the Director General of the Ministry of
   Environmental Protection and the methods he shall set.

Contribution of background noise

6. The contribution of background noise shall be determined through
   measurements as specified in regulation 5(d) as follows:
   (1) when the total measured noise exceeds the background noise by less
       than 3dB(A) – the background noise contribution shall be calculated
       using the most reliable and appropriate methodology, subject to the
       professional discretion of the person conducting the measurement;
   (2) when the total measured noise exceeds the background noise by
       between 3dB(A) and 10dB(A) – the background noise contribution shall
       be calculated according to the calculation table in the Second Schedule;
   (3) when the total measured noise exceeds the background noise by 10dB(A)
       or more – the background noise contribution shall not be calculated.
Availability to the public
7. IEC standard and ISO standard shall be available for public scrutiny at the Ministry of Environmental Protection, Jerusalem, during regular working hours.

Saving of Laws
8. The provisions of these regulations shall not derogate from the provisions of the Abatement of Nuisances Regulations (Prevention of Noise), 5726-1966, and the requirements of any other statute.

Reservations on application
9. a) The provisions of Regulation 2 shall not apply to noise originating from one of the following:
   (1) Airplane;
   (2) Railway;
   (3) Vehicle;
   (4) Construction equipment as specified in the Abatement of Nuisances Regulations (Unreasonable Noise from Construction Equipment), 5739-1979 (henceforth – Noise from Construction Equipment Regulations).

b) Despite the aforementioned in Subregulation (a), the requirements of these regulations shall apply to –
   (1) a place of business used for selling, renting or brokering vehicles or a place of business used for the parking of 25 vehicles or more in a parking lot, a facility or a garage, within their meaning in the Licensing of Businesses Order (Businesses Requiring Licensing), 5733-1973;
   (2) construction equipment within its meaning in the Noise from Construction Equipment Regulations, which is situated and operated in some permanent location.

Repeal
10. The Abatement of Nuisances Regulations (Unreasonable Noise), 5737-1977 – are hereby repealed.

Commencement
11. These regulations shall enter into force sixty days from the day of their publication.
### First Schedule
(Regulation 2)

**Column B**

Noise level in dB(A)

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<tbody>
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<td>1. more than 9 hours</td>
<td>45</td>
<td>50</td>
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<td>2. more than 3 hours and less than 9 hours</td>
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<td>3. more than one hour and less than 3 hours</td>
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<td>4. more than 30 minutes</td>
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<td>5. more than 15 minutes and less than one hour</td>
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<td>6. more than 10 minutes and less than 30 minutes</td>
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<td>7. more than 5 minutes and less than 15 minutes</td>
<td>65</td>
<td>70</td>
<td>75</td>
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<td>90</td>
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<td>8. more than 2 minutes and less than 5 minutes</td>
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<td>9. less than 10 minutes</td>
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<td>10. less than 2</td>
<td>75</td>
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<td>minutes</td>
<td>Noise level</td>
<td>in</td>
<td>dB(C)</td>
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<td>11. noise from infrequent blast (*)</td>
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<td>109</td>
<td>114</td>
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</table>

* when “C” scale is not available in the measurement device, the peak noise level may be measured and compared with the maximum values specified as follows:

<table>
<thead>
<tr>
<th>Structures C-E</th>
<th>Structures A-B</th>
<th>Lower frequency level of the linear response output (FLAT) of the measurement device (HZ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>135</td>
<td>0.1</td>
</tr>
<tr>
<td>137</td>
<td>132</td>
<td>2.0</td>
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<tr>
<td>135</td>
<td>130</td>
<td>6.0</td>
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<td></td>
<td></td>
<td>2.0</td>
</tr>
</tbody>
</table>
Second Schedule
(Regulation 6(2))
Background noise compensation graph

Vertical: compensation to be subtracted from measured noise
Horizontal: difference between measured noise and background noise